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2013 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

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1.0 INTRODUCTION

This report provides a review of the calendar year (CY) 2013 (Event 10) 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 May 2013. 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 semi-annual to an annual monitoring event and also 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. The focus of future sampling events (e.g., 2014) would only be on wells MW25-2, MW25-3, MW25-9, MW 25-10 and MW25-17 where historic information indicates that COCs of interest have been found in these wells.

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. Ten (10) LTM sampling events, including the most current event completed in the second quarter of 2013 (2013Q2), were conducted at SEAD-25 since the completion of the RA at the site in late 2005. This *2013 Long-Term Monitoring Report* provides the details of LTM activities conducted during the annual LTM event in 2013. 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 2013 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

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

zone located in the competent shale bedrock. The hydraulic conductivities at SEAD-25 were found to range 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 has not allowed historically a strict adherence of 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. When dry or low water conditions are encountered in the field, event sampling is postponed until adequate water can be collected from the source wells to support essential groundwater analyses (e.g., VOCs).

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, as well as lesser amounts of five selected chlorinated VOCs, including 1,1,1-trichloroethane, 1,1-dichloroethane, 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 the cleanup goal of 2.0 ug/L at a concentration of 2.6 ug/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 ($\mu\text{g}/\text{kg}$), 151,500 $\mu\text{g}/\text{kg}$, and 10,200 $\mu\text{g}/\text{kg}$ 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 µg/kg) and at SB25-4 (2,900 µg/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/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 (µg/L) at well MW25-2. During the Expanded Site Investigation (ESI) (Parsons, December 1995), the maximum concentration of total chlorinated organics (96 µg/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 plumes 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 all of the 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 2013 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 10 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 2013 Sampling Event

The 2013 sampling event was completed at SEAD-25 between May 7 and May 9, 2013. 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).

Groundwater measurements and samples were collected from 9 monitoring wells (MW25-2, MW25-3, MW25-8, MW25-9, MW25-10, MW25-15, MW25-17, MW25-18, and MW25-19) during the 2013 sampling event. A water level measurement was collected from well MW25-13, but a sample for chemical analysis was not collected because the well did not have an adequate volume of water. Groundwater samples were collected using low-flow sampling techniques during the May 2013 sampling event. A low-flow bladder pump was used to purge wells MW25-2, MW25-3, MW25-17, MW25-18, and MW25-19; following purging, samples were collected from each of these wells for analysis of VOCs, nitrate/nitrite, chloride, sodium, iron, and methane, ethane, and ethene (MEE).

A peristaltic pump was used to complete purging (via low-flow methods) at wells MW25-8, MW25-9, MW25-10, and MW25-15 since the water level fell below the intake of the bladder pump or less than 2 feet of water was measured inside the well casing during purging. Samples for VOCs, nitrate/nitrite, chloride, sodium, and iron, and MEE analyses were collected using a bailer from these wells due to limited remaining water volume following purging.

Groundwater samples collected during event 10 were analyzed for VOCs and natural attenuation parameters. 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 an YSI Inc. (YSI) model 85 DO Meter. Sulfide concentration was measured in the field using a Hach® colorimeter test at well locations with sufficient water volume. There was not water volume sufficient to perform the Hach® test for sulfide at well MW25-13. Indicator parameters were collected at seven wells (refer to **Table 5**) since the water volume was not sufficient to collect field parameters at wells MW25-10 and MW25-15.

3.2 Groundwater Elevations

SEAD-25 event 10 groundwater elevation data were recorded on May 6, 2013. Groundwater elevation data (events 8-10) and the historic post 2005 soil-removal action groundwater elevation range for the site are presented on **Table 3**. **Appendix C** provides groundwater elevations recorded from 2006 to 2013 and groundwater elevation measurements performed between LTM sampling events. Groundwater elevation trends for SEAD-25 wells during the ten LTM events performed from 2006 through 2013 are summarized on **Figures 4A** (Northern profile) and **Figure 4B** (Southern Profile). Event 10 groundwater elevations ranged from 734.46 feet above mean sea level (amsl) in well MW25-13 to 740.39 feet amsl in well MW25-2. Groundwater elevations observed during this event were approximately one foot lower than the February 2012 (event 9) groundwater elevations, with changes in groundwater elevations ranging from the smallest decrease of 0.30 foot in MW25-1 up to the largest decrease of 1.23 feet as observed in MW25-3.

Groundwater contours shown in **Figure 5** were generated based on the groundwater elevation data collected on May 6, 2013, and are consistent with historic groundwater contour interpretation supporting the presence of a radial groundwater flow pattern beneath the pad. 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 2013 Analytical Data Summary

During the 2013 sampling event, 10 groundwater samples (including one duplicate sample from MW25-2) were collected from 9 of the 10 wells for the analysis of VOCs. One well (MW25-13) could not be sampled due to a lack of water volume in the well screen. A summary of the primary COCs detected for event 10 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**. The summary of the analytical results for each LTM is provided on the tables in **Appendix D**. The data validation sheets are provided in **Appendix E**; there were no non-compliance issues reported.

Eight VOCS (1,1-dichloroethane, cis-1,2-DCE, TCE, VC, benzene, ethylbenzene, toluene and total xylenes) with site-specific cleanup goals were detected in the groundwater samples collected from well MW25-2 during the 2013 sampling event. Benzene was also detected in wells MW25-3 and MW25-9.

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 2013 sampling event indicate that, in one well (MW25-2), two of the primary COCs (benzene and ethylbenzene) exceeded their applicable groundwater cleanup goals.

SEAD-25 2013 LTM Concentration Ranges Compared to NYS Class GA Groundwater Standards		
COCs	SEAD-25 2013 LTM Concentration Range (µg/L)	NYSDEC GA Groundwater Standard (µg/L)
Benzene *	ND – 20	1
Toluene *	ND – 0.91 J	5
Ethylbenzene *	ND – 11	5
Xylene (total) *	ND – 1 J	5
Ortho Xylene	NA	5
Meta/Para Xylene	NA	5
1,1,1-Trichloroethane *	ND	5
1,1-Dichloroethane *	ND - 1.4	5
1,2-DCE (total) *	ND – 2.9	5
Cis- DCE	ND – 2.9	5
Trans-DCE	ND	5
Chloroform *	ND	7
Trichloroethene *	ND - 1.7	5
Vinyl chloride	ND – 0.67 J	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

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 May 2013 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

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 groundwater collected from MW25-9 ranged from 124 µg/L (event 1) to a minimum of 0.34 µg/L (event 10); and total BTEX concentrations in well MW25-2 ranged from 115.6 µg/L (event 7) to a minimum concentration of 1.46 µg/L (event 9). A chlorinated COC concentration of 5.44 µg/L was measured in groundwater collected from MW25-9 during event 1; subsequent sampling events yielded non-detect values. Concentrations of chlorinated COCs in well MW25-2 ranged from 24.8 µg/L (event 7) to non-detect (events 1, 2, and 4). At MW25-3, total BTEX concentrations have not exceeded 1.7 µg/L (event 5) after the completion of the RA (**Figures 6 and 7C**).

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. Detections of BTEX compounds exceeded GA standards in well MW25-9 five times (twice for benzene, once for ethyl benzene, toluene, and total xylene). Four of these instances were observed during the first post-RA sampling event. The last exceedance of benzene in well MW25-9 occurred during event 4.

During the 2013 sampling event, benzene and ethylbenzene were the only two compounds detected in the groundwater that exceeded their GA standards. Benzene was detected in the three source wells and exceeded the GA standard only in well MW25-2. The other two detections of benzene were both below the criteria level of 1.0 µg/L. Concentrations of ethyl benzene exceeded the GA standards of 5 µg/L in MW25-2, but was not detected in any other well. Toluene and total xylenes were detected only in one of the three source wells (MW25-2) and were below criteria levels. BTEX was non-detect in the other six non-source wells sampled during this sampling event.

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 µg/L in event 2 and well MW25-19 where concentration of 0.2 µg/L 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 (µg/L) concentrations in all wells until events 7 and 8 (**Figure 6**). Chlorinated COCs have only been detected in well MW25-2 since event 3. During events 7 and 8 chlorinated VOCs were detected higher concentrations in MW25-2, decreased during event 9 and increased slightly in event 10. Four of the chlorinated COCs (1,1-dichloroethane, cis-1,2-DCE, TCE, and VC) were detected in the groundwater at well MW25-2 during sampling event 7; and only cis-1,2-DCE and VC were detected above their respective GA standards. Five chlorinated organic COCs (1,1-dichloroethane, cis-1,2-DCE (also reported as 1,2-DCE (total)), chloroform, TCE, and VC) were detected in MW25-2 during sampling event 8; and

only cis-1,2-DCE was detected above its GA standard. During sampling event 9, four chlorinated organic COCs (1,2-DCE (total)), cis-1,2-DCE, TCE, and VC) were detected in MW25-2; but the concentrations did not exceed the applicable GA standards. During the 2013 event, four chlorinated organic COCs (1,1-DCE; cis-1,2-DCE; TCE; and VC) were only detected in one well, MW25-2, and the concentrations did not exceed the applicable GA standards.

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. 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**). Concentrations of total BTEX compounds observed during the 2013 sampling event ranged from non-detect (in 6 of 9 wells) to a maximum total BTEX concentration of 31.9 µg/L (MW25-2, average of sample and duplicate). The total BTEX concentration in well MW25-2 increased from the previous event to a concentration level similar to that found in event 8 of 37.5 µg/L (**Figure 7A**). A moderate correlation exists between elevated BTEX concentration and depressed groundwater levels (**Figure 7A**). As the saturated thickness of the water table decreases, corresponding BTEX concentrations appear to be elevated. Within well MW25-2, both benzene and ethyl benzene exceeded the applicable groundwater standards; no other VOC COCs compounds were found to have exceedances in this well or other wells sampled during the 2013 event. Total BTEX levels have declined in well MW25-9 since event 1, and since event 8, to levels ranging from non-detect to a high of 4.62 µg/L during event 4 (2008Q1) (**Figures 6 and 7B**). At MW25-3, total maximum BTEX concentrations have not exceeded 1.7 µg/L after the completion of the RA (**Figures 6 and 7C**). Since completion of the RA, BTEX concentrations in the non-source wells were non-detect.

Similarly, the concentration of chlorinated organics COCs has decreased over time in the three source wells (**Figure 6** and **Figures 8A, 8B, and 8C**). Chlorinated organic COC concentrations were observed ranging from non-detect in eight of the nine wells sampled during the 2013 event to a maximum total chlorinated VOC COCs concentration of 6.62 µg/L observed in the MW25-2 duplicate sample (**Figure 6**). The chlorinated VOC COCs concentrations at MW25-2 decreased after the completion of the RA to as low as 2.01 µg/L in event 3 and non-detect in event 4. Although event 7 and event 8 concentrations for chlorinated VOC COCs (1,2 DCE total; cis-1,2-DCE; VC) in MW25-2 exceeded their respective screening criteria by increasing over levels previously detected during events 1 through 6, chlorinated VOC COCs concentrations generally have remained low, and below their respective GA standard, since event 1 (**Appendix D**). None of the chlorinated VOCs in MW25-2 exceeded their respective GA standard in event 9 or 10. In wells MW25-3 and MW25-9, chlorinated VOC COCs were reduced to levels below the detection limit since the removal action. Chlorinated VOC COCs have typically not

been seen in non-source well at SEAD-25 since the removal action was completed, with only two detections (each significantly less than 1 µg/L) noted in the non-source wells sampled since the soil removal was completed. Overall, the VOC COCs analytical data indicate that the aromatic and chlorinated VOC plumes are attenuating. MW25-2 is considered the source well, since it generally has the highest concentrations of the aromatic and chlorinated VOC COCs.

3.4.2 General Data Trends (Geochemical and Field Indicator Parameters)

Geochemical parameters (iron, sodium, chloride, nitrate/nitrite, sulfate, and methane/ethane/ethene laboratory analysis, and field-measured sulfide analysis) provide an indirect indication of the natural attenuation of the plume (**Table 5**). Methane was detected in the two wells sampled during the 2013 sampling event at concentrations of 23.5 J ug/L (MW25-2, average of sample and duplicate) and 1.1 J ug/L (MW25-8). During the 2013 sampling event, MW25-2 yielded the highest detection of methane as well as the highest detections of BTEX and total chlorinated solvents. The detection of methane in conjunction with BTEX and total chlorinated VOC COCs is interpreted to indicate that reductive dechlorination is occurring.

A review of field indicator data shows that no clear trends of degradation are observed across SEAD-25. Parameters such as DO and ORP vary at each well location over time (**Table 5**). At monitoring well MW25-2 (events 5 through 10) DO and ORP were measured below benchmark values (i.e., 0.5 mg/L for DO and -100 mV for ORP); however, a comparison in the data trend cannot be made as there is no upgradient well. Dissolved oxygen levels in well MW25-3 are below benchmark values for events 5, 7, 8, 9 and 10 while ORP levels in this well are below the -100 mV level in events 5, 7, and 9. Field parameter data for monitoring well MW25-9 are inconclusive due to the sporadic nature of sampling that was conducted at this location. Geochemical readings measured at MW25-9 during the 2013 event indicate that DO (0.16 mg/L) was below its respective benchmark value while ORP (-90 mV) was measured above its benchmark value. An assessment of other parameters (e.g., 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 is not currently 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.

Since the completion of the remedial action at SEAD-25, benzene and ethyl benzene are the two predominant aromatic VOCs detected in the groundwater. The detections of these two 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 detections and exceedances associated with MW25-2. Excluding MW25-2, benzene was detected once at concentrations above its GA standard in one sample from MW25-3 (event 5) and in two samples from MW25-9 (events 1 and 4). In wells other than MW25-2, ethyl benzene was only detected at an elevated concentration once (MW25-9, event 1). Toluene and xylene, either as ortho- and meta-/para-isomers or total xylenes, were less frequently detected in the three primary site wells. The

majority of the noted exceedances for both of these aromatic VOCs are found in samples collected from well MW25-2. Chlorinated VOC COCs contaminant distributions are similar to those observed for the aromatic VOCs; in that the noted exceedances of groundwater standards were found in samples collected from MW25-2.

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 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 aromatic COC concentrations in each of the source wells has fallen to 50 µg/L or less except for benzene in event 7 (2010Q2) at MW25-2. Further, MW25-2 is the only well at the site where aromatic COCs were detected in all of the consecutive LTM events, suggesting that the overall groundwater impact has lessened and that aromatic COCs are not migrating.

Chlorinated VOC COCs contaminant distributions are similar to those observed for the aromatic VOCs. In this case, all of the noted exceedances of GA standards for the applicable chlorinated VOCs historically were observed at MW25-2.

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. Long-term groundwater monitoring has been performed since 2006 and 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 Addendum 1 in the *Land Use Control Remedial Design for SEAD 27, 66, 64A, Final* (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;
- Except for benzene and ethyl benzene at MW25-2, volatile organic compounds COCs were not detected above cleanup goals in eight of the nine other wells sampled during the 2013 LTM event;
- The VOC plumes at SEAD-25 are attenuating to levels close to or lower than applicable groundwater standards;
- Groundwater impacts are not noted beyond the immediate area of the former Fire Training and Demonstration Pad. Downgradient wells surrounding the former source area do not show evidence of BTEX or VOC contamination since the RA was completed;
- Based on evaluation of available LTM data, the soil excavation remedy at SEAD-25 has been effective; and
- Land and groundwater use restrictions imposed at SEAD-25 continue to be maintained, and there are no signs of unauthorized use or access.
- Based on the information and discussion provided above, it appears that BTEX concentrations observed at MW25-2 fluctuate in correlation with changes in water levels, indicating that the increase is not due to the release of additional contaminants. The removal of the source area present in 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.
- Overall, the general data 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 a upgradient or background well for comparison.

5.2 Recommendations

Based on the historical data and the results of this annual LTM event at SEAD-25, the Army recommends that:

- The monitoring schedule for SEAD-25 should continue to be performed on an annual basis. The sampling events should occur during a period when there is sufficient water to allow for sample collection at all wells (e.g., first or second quarter). Based on the 2013 LTM results, annual

monitoring should focus only on wells where historic information indicates that primary COCs were found, including source wells MW25-2, MW25-3, MW25-9, and wells MW25-10 and MW25-17. A complete effort of gauging at all well locations is recommended for each annual LTM event to evaluate the groundwater flow pattern across the site.

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 10)
Table 5	Summary of SEAD-25 Geochemical Parameters

Table 1
Summary of SEAD-25 Long-Term Monitoring Events
2013 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	05/09/12	03/07/14	Annual Report	

Notes:

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

Table 2
Monitoring Well Locations
2013 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

Note:

- (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
- * = Indicates well was decommissioned in September 2010.

Table 3
SEAD-25 Groundwater Elevation Data
2013 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Riser Elevation (ft) ³	Event 8 - February 7, 2011				Event 9 - February 27, 2012				Event 10 - May 6, 2013				LTM Rounds 1 through 10 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	7.74	1.76	5.98	737.02	7.73	1.80	5.93	737.07	7.71	1.48	6.23	736.77	737.35
MW25-2	746.36	11.28	4.47	6.81	739.55	11.26	6.20	5.06	741.30	11.25	5.28	5.97	740.39	741.61	738.54	3.07
MW25-3	746.34	9.80	2.92	6.88	739.46	9.79	4.86	4.93	741.41	9.80	3.64	6.16	740.18	741.41	737.58	3.83
MW25-6	744.44	14.22	6.31	7.91	736.53	14.23	8.64	5.59	738.85	14.26	7.81	6.45	737.99	740.19	735.89	4.30
MW25-8	742.46	5.46	0.30	5.16	737.30	5.41	2.52	2.89	739.57	5.43	1.60	3.83	738.63	740.66	737.30	3.36
MW25-9	742.36	5.40	0.81	4.59	737.77	5.39	2.59	2.80	739.56	5.39	1.48	3.91	738.45	740.58	737.35	3.23
MW25-10	743.01	6.37	0.28	6.09	736.92	6.36	1.37	4.99	738.02	6.38	0.58	5.80	737.21	739.83	736.92	2.91
MW25-13	739.64	5.48	0.38	5.10	734.54	5.46	1.33	4.13	735.51	5.48	0.30	5.18	734.46	736.20	734.46	1.74
MW25-15	741.00	7.20	0.63	6.57	734.43	7.19	2.56	4.63	736.37	7.18	1.53	5.65	735.35	737.89	734.10	3.79
MW25-17	743.94	11.30	4.63	6.67	737.27	11.23	7.14	4.09	739.85	11.25	6.36	4.89	739.05	740.69	736.49	4.20
MW25-18	744.35	11.18	4.60	6.58	737.77	11.15	5.74	5.41	738.94	11.20	5.23	5.97	738.38	744.20	737.13	7.07
MW25-19	741.95	12.00	3.89	8.11	733.84	11.98	6.70	5.28	736.67	12.00	6.13	5.87	736.08	738.30	732.92	5.38

Notes:

1. Groundwater levels were recorded in February 2011, February 2012, and May 2013.
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 10)
2013 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	
Loc ID		MW25-2	MW25-2	MW25-3	MW25-8	MW25-9	MW25-10	MW25-15	MW25-17	MW25-18	MW25-19					
Matrix		GW	GW	GW	GW	GW	GW	GW	GW	GW	GW					
Sample ID		25LM20101	25LM20102	25LM20097	25LM20103	25LM20104	25LM20105	25LM20107	25LM20098	25LM20099	25LM20100					
Sample Date		5/8/2013	5/8/2013	5/9/2013	5/7/2013	5/7/2013	5/7/2013	5/7/2013	5/8/2013	5/8/2013	5/7/2013					
QC Type		SA	DU	SA	SA	SA	SA	SA	SA	SA	SA					
Study ID		LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM					
Sample Round		10	10	10	10	10	10	10	10	10	10					
		Total	Total	Total	Total	Total	Total	Total	Total	Total	Total					
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value Q	Value Q	Value Q	Value Q	Value Q	Value Q	Value Q	Value Q
1,1,1-Trichloroethane	UG/L	0	0%	GA	5	0	0	10	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
1,1-Dichloroethane	UG/L	1.4	20%	GA	5	0	2	10	1.2	1.4	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Cis-1,2-Dichloroethane	UG/L	2.9	20%	GA	5	0	2	10	2.8	2.9	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Chloroform	UG/L	0	0%	GA	7	0	0	10	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Trichloroethene	UG/L	1.7	20%	GA	5	0	2	10	1.7	1.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Vinyl chloride	UG/L	0.67	20%	GA	2	0	2	10	0.66 J	0.67 J	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
TOTAL Chlorinated Organic COCs									6.5	6.81	ND	ND	ND	ND	ND	ND
Benzene	UG/L	20	40%	GA	1	2	4	10	19	20	0.82 J	0.25 U	0.34 J	0.25 U	0.25 U	0.25 U
Ethyl benzene	UG/L	11	20%	GA	5	2	2	10	10	11	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Toluene	UG/L	0.91	20%	GA	5	0	2	10	0.91 J	0.87 J	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total Xylenes	UG/L	1	20%	GA	5	0	2	10	1 J	1 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
TOTAL BTEX	UG/L								30.91	32.87	0.82 J	ND	0.34 J	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.

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

Table 5
Summary of SEAD-25 Geochemical Parameters
2013 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	2510 J	4730	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	666.5	5600 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	2600 J	6000 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	3460	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	15050	7100	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	2655	7800	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	1660	10300	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	13100	10200	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
MW25-3	1/31/06 ¹	1	1.19	79	4.3	2.2	7.1	0.49	81.2 J	12150	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	3820	11300 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	5540	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	1570	9000	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	7370	2.8	0.05 UJ	0.007 UJ	182 J	0.16 U	0.17 U	0.14 U	0.04
	8/4/10 ^{4,5}	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	7990	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	2200	8,900	1 U	0.019 J	0.01 U	100	0.55 U	0.5 U	0.29 U	0.03
	MW25-8	1/31/06	1	0.84	-70	4.1	2.4	7.3	0.494	329 J	5110	1.4	0.05 U	0.05 U	19.5	2 U	2 U	2 U
8/11/06		2	2.92	33.4	25.01	8.7	6.97	0.72	667	7060 J	0.73 J	0.13	0.05 U	28.2	2 U	2 U	2 U	0.09
3/4/08		4	2.21	61	2.7	5.1	7.46	0.427	349	4180	0.2 U	0.607 J	0.01 UJ	17.3	1 U	1 U	0.36 J	0.03
4/29/09 ^{2,3}		5	--	--	--	--	--	--	620	6000	3.2	0.05 U	0.016	20.7	1 U	1 U	16	0.01
1/12/10		6	2.67	230	4.7	2.2	7.36	0.342	408	9740	0.5 U	0.05 UJ	0.007 UJ	35.2 J	0.16 U	0.17 U	0.14 U	0.03
2/29/12		9	0.16	-133	3.9	0.8	7.29	0.462	411 J	6,650	1.3 J	0.017 J	0.022 J	12 J	0.58 U	0.69 U	4.7 J	0.03
5/7/13		10	0.08	-31	8.9	1.74	7.35	0.506	4200	8,100	1 U	0.041 J	0.01 U	12	0.81 U	0.73 U	1.1 J	0.09
MW25-9	1/31/06	1	5.33	91	4.8	2.49	7.15	0.535	56.9 J	14500	1.1	0.05 U	0.05 U	21.8	2 U	2 U	29	0.02
	8/9/06	2	5.22	62.5	23.11	3.38	7.15	0.718	12 U	16400 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	8380	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	--	--	--	--	--	--	9440	26000	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	16500	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	--	--	--	--	--	--	3580	29600	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	
MW25-10	1/31/06	1	4.22	107	5	1.09	6.97	0.464	62.8 J	8870	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	195	6.56	0.701	358	6530 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	6090	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	6420	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
MW25-13	1/31/06	1	0.94	38	3.8	21	7.27	0.492	320 J	40600	2.5	0.05 U	0.05 U	15.6	2 U	2 U	2 U	0.02
	8/9/06 ⁵	2	4.1	-22.2	23.42	100	6.98	0.699	--	--	--	--	--	--	--	--	--	--
	3/3/08 ⁵	4	4.79	97	3	16.4	7.52	0.639	--	--	--	--	--	--	--	--	--	0.01 U
	2/28/12	9	--	--	--	--	--	--	2,320 J	16,100	0.54 J	0.051	0.015 J	18	0.58 U	0.69 U	1.2 J	--
	5/8/2013 ⁷	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

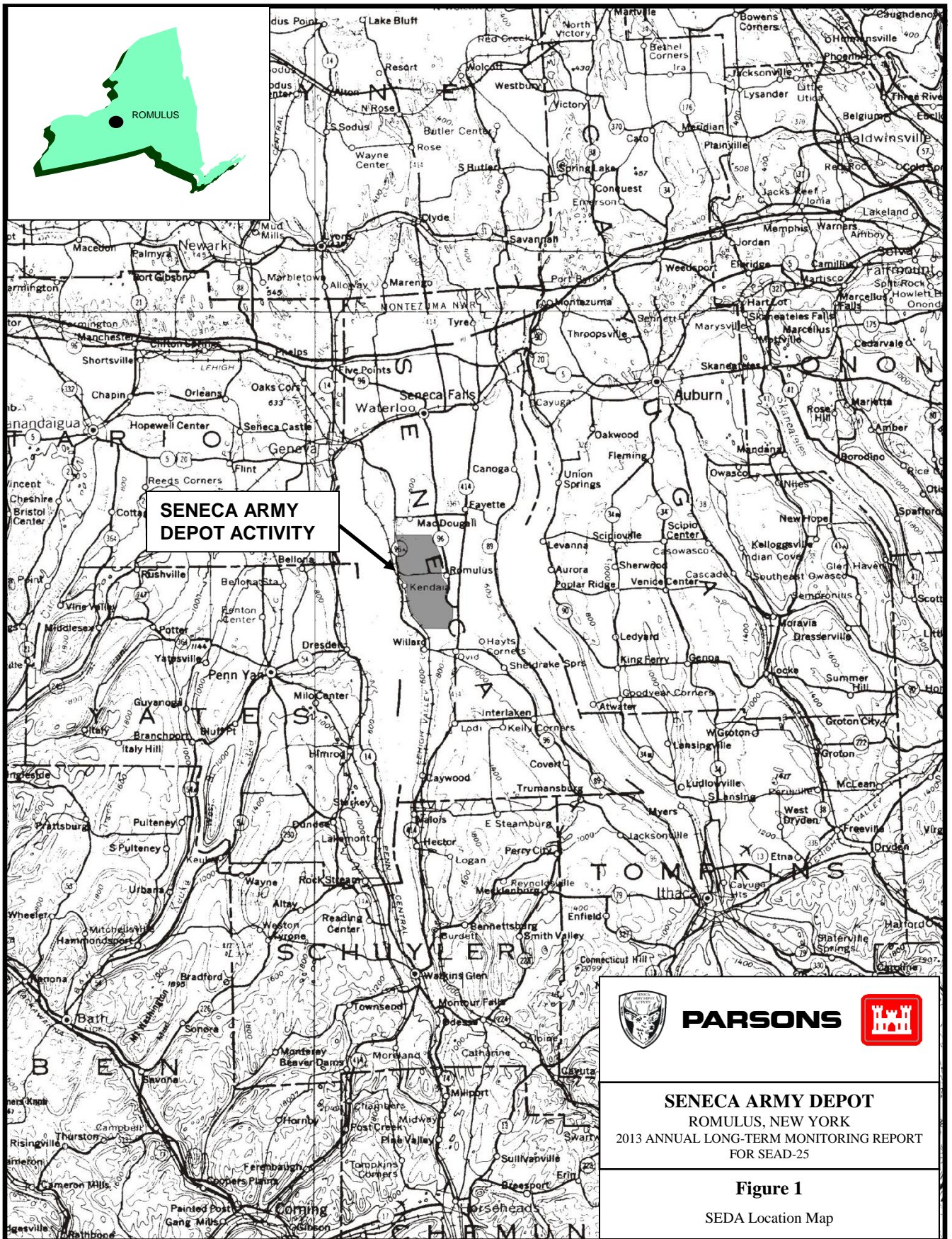
Table 5
Summary of SEAD-25 Geochemical Parameters
2013 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

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)	
MW25-15	1/31/06	1	2.93	82	5.3	1.1	7.2	0.36	56 J	3080	0.66	0.05 U	0.05 U	14.4	2 U	2 U	2 U	0.01 U	
	8/14/06	2	1.99	222.1	18.76	27.4	5.8	0.651	850	6630 J	1.4 J	0.05 U	0.087	17.9	2 U	2 U	2 U	0.8	
	3/3/08	4	4.57	139	4.7	3.58	7.25	0.477	100 U	6340	0.2 U	0.16 J	0.01 UJ	13.3	1 U	1 U	2 U	0.01 U	
	4/29/09 ³	5	--	--	--	--	--	--	30 J	3500	0.2 U	0.05 U	0.01 U	20.3	1 U	1 U	2 U	0.01 U	
	1/13/10 ³	6	--	213	6.1	1.5	7.23	0.38	769	3620	0.5 U	0.05 UJ	0.007 UJ	24.8 J	0.16 U	0.17 U	0.14 U	0.17	
	2/9/11 ^{2,5}	8	--	--	--	--	--	--	--	--	--	--	--	--	0.58 U	0.69 U	2.1 J	--	
	2/28/12	9	1.55	97	5.1	4.2	7	0.419	3,840 J	3,130	0.56 J	0.018 J	0.02 J	14 J	0.58 U	0.69 U	1.2 J	0.05	
	5/7/13	10	--	--	--	--	--	--	530	2,800	1 U	0.019 J	0.01 U	9.5	0.81 U	0.73 U	0.45 U	0.05	
	MW25-17	1/31/06	1	8.46	68	6.3	3.4	7.69	0.462	46.1	4240	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	8.8 U	5170 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	8500 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	4550	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	4700	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	86.9 J	4450	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	56.4 J	5650	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	15.9 J	4470	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	22.4 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	
MW25-18	1/31/06	1	3.99	63	7.2	31.8	7.62	0.494	462 J	22300	18.6	0.05 U	0.05 U	24.8	2 U	2 U	2 U	0.12	
	8/14/06	2	6.21	46	24.41	6.22	7.32	0.858	357	41900 J	55.6	0.32	0.05 U	30.1	2 U	2 U	2 U	0.02	
	6/6/07	3	0.96	98	13	11	7.15	0.54	500 J	37000 J	59	1.5 J	0.5	31	0.024 J	2	2	1.04	
	3/5/08	4	4.68	144	4.9	5.04	7.31	0.713	107	20400	18	0.199 J	0.01 UJ	16.8	1 U	1 U	2 U	0.01	
	4/28/09	5	4.43	150	7.1	11	7.3	0.385	100 J	19000	16.3	0.05 U	0.01 U	22.8	1 U	1 U	2 U	0.01 U	
	1/14/10	6	4.39	237	8	2.78	7.28	0.544	122	28400	51.7	0.2 J	0.007 UJ	26.8 J	0.16 U	0.17 U	0.14 U	0.06	
	8/5/10 ⁴	7	2.1	123	19.3	3.12	7.21	0.893	83.8 J	58100	97.9	0.18 J	--	40.2	0.16 U	0.17 U	0.14 U	0.01	
	2/10/11	8	3.52	187	6.3	0	7.3	0.83	250	41900	72	0.18	0.00321 U	32 J	0.58 U	0.69 U	1.3 J	0.03	
	2/29/12	9	3.89	70	6.7	3.66	7.16	0.548	446 J	27,300	20 J	0.13	0.022 J	21 J	0.58 U	0.69 U	1.9 J	0.01	
	5/8/13	10	5.26	48	7.6	7.55	7.81	0.566	440 J	22,000 J	16	0.18	0.01 U	27 J	4 U	3 U	2 U	0.05	
MW25-19	6/7/07	3	0.05	117	13.4	17	7.04	0.427	1200 J	3800 J	4.5	1.4 J	0.72 J	23	1.1	4.6	29	0.1	
	3/3/08	4	5.84	161	5.8	16.4	7.23	0.478	515	4520	0.2 U	0.194 J	0.01 UJ	24.3	1 U	1 U	2 U	0.01	
	4/28/09	5	3.75	134	7.1	1.3	7.15	0.379	20 J	3500	0.2 U	0.05 U	0.01 U	30.1	1 U	1 U	2 U	0.02	
	1/13/10	6	4.01	259	8	6.1	7.08	0.445	204	4350	2.3	0.113 J	0.007 UJ	31 J	0.16 U	0.17 U	0.14 U	0.02	
	8/4/10 ⁴	7	0.03	63	17.7	1.4	6.94	0.662	1310	4140	3.6	0.072 J	--	36.7	0.16 U	0.17 U	0.14 U	0.18	
	2/9/11	8	2.84	174	6.9	5.7	7.22	0.588	152	3340	1.7 J	0.064	0.00321 U	31 J	0.58 U	0.69 U	1.2 J	0.03	
	2/28/12	9	2.3	70	6.6	2.35	6.95	0.477	53.8 J	3,980	0.72 J	0.094	0.015 J	22 J	0.58 U	0.69 U	0.92 J	0.016	
	5/7/13	10	2.23	178	7.5	0.43	7.48	0.423	50 U	3,600	1 U	0.13	0.01 U	29	0.81 U	0.73 U	0.45 U	0.00	

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

FIGURES

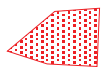
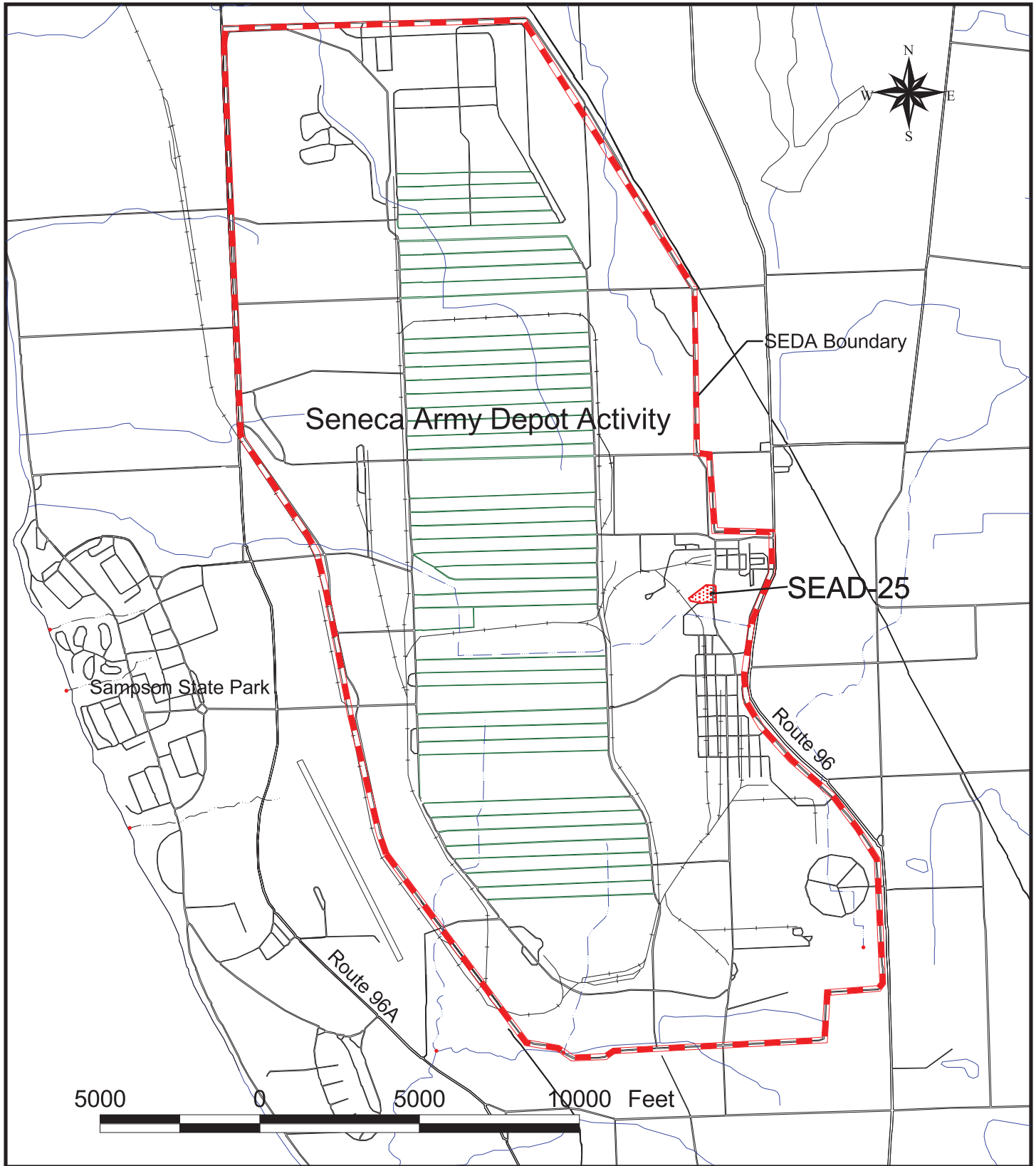
Figure 1	SEDA Location Map
Figure 2	SEDA Site Map and AOC Location
Figure 3	SEAD-25 Site Plan
Figure 4A	SEAD-25 Groundwater Elevations - Northern Profile
Figure 4B	SEAD-25 Groundwater Elevations - Southern Profile
Figure 5	SEAD-25 Groundwater Contours for the Till/Weathered Shale Saturated Zone – May 2013
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



PARSONS

SENECA ARMY DEPOT
 ROMULUS, NEW YORK
 2013 ANNUAL LONG-TERM MONITORING REPORT
 FOR SEAD-25

Figure 1
 SEDA Location Map



Approximate Boundary and extent of SEAD-25



Approximate Boundary of SEDA Site



PARSONS



CLIENT / PROJECT TITLE

**SENECA ARMY DEPOT
ROMULUS, NEW YORK**

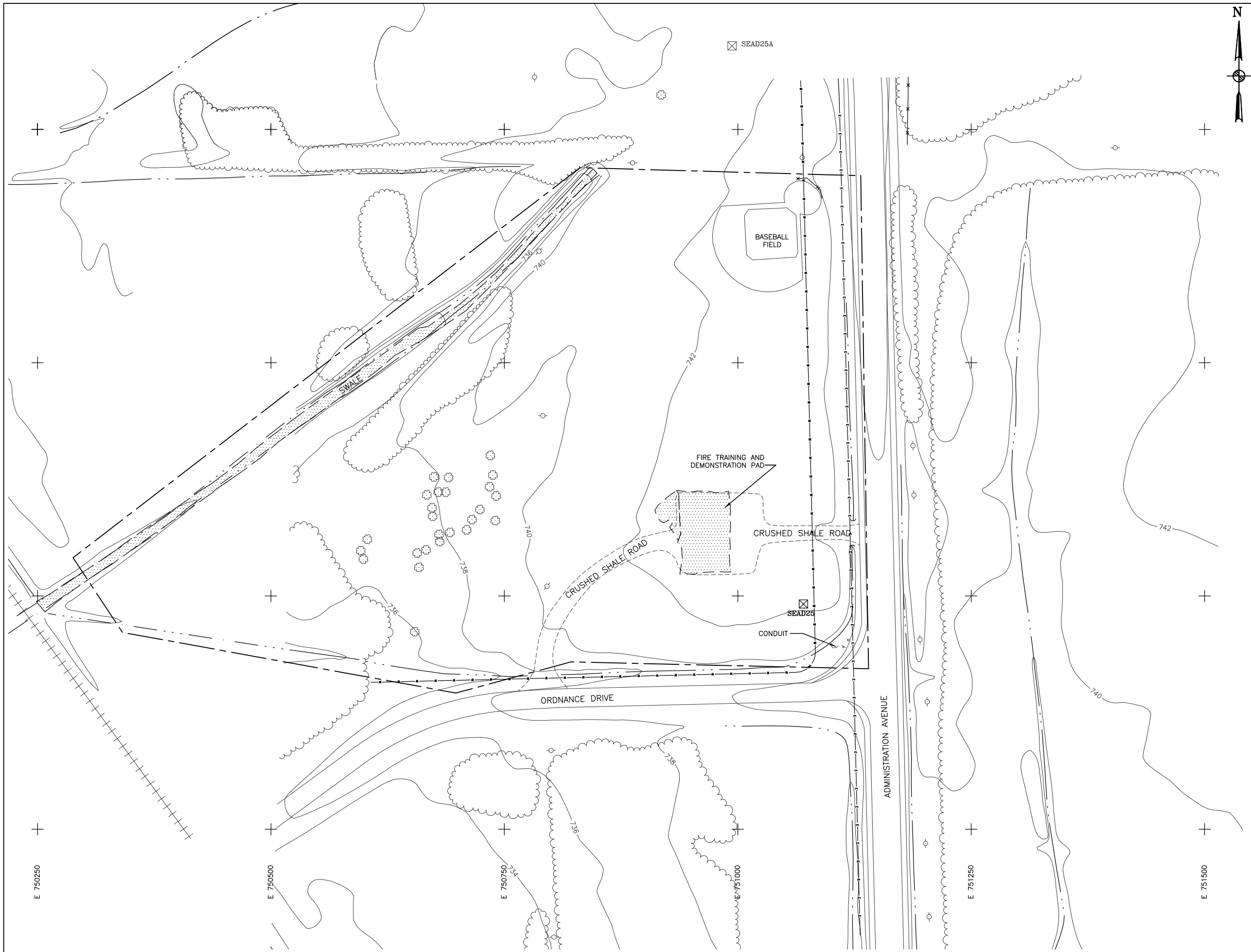
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DEPT: ENVIRONMENTAL REMEDIATION

Figure 2

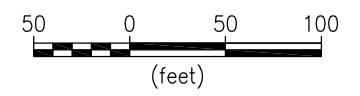
SEDA Site Map and AOC Location

DATE AUGUST 2005



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.



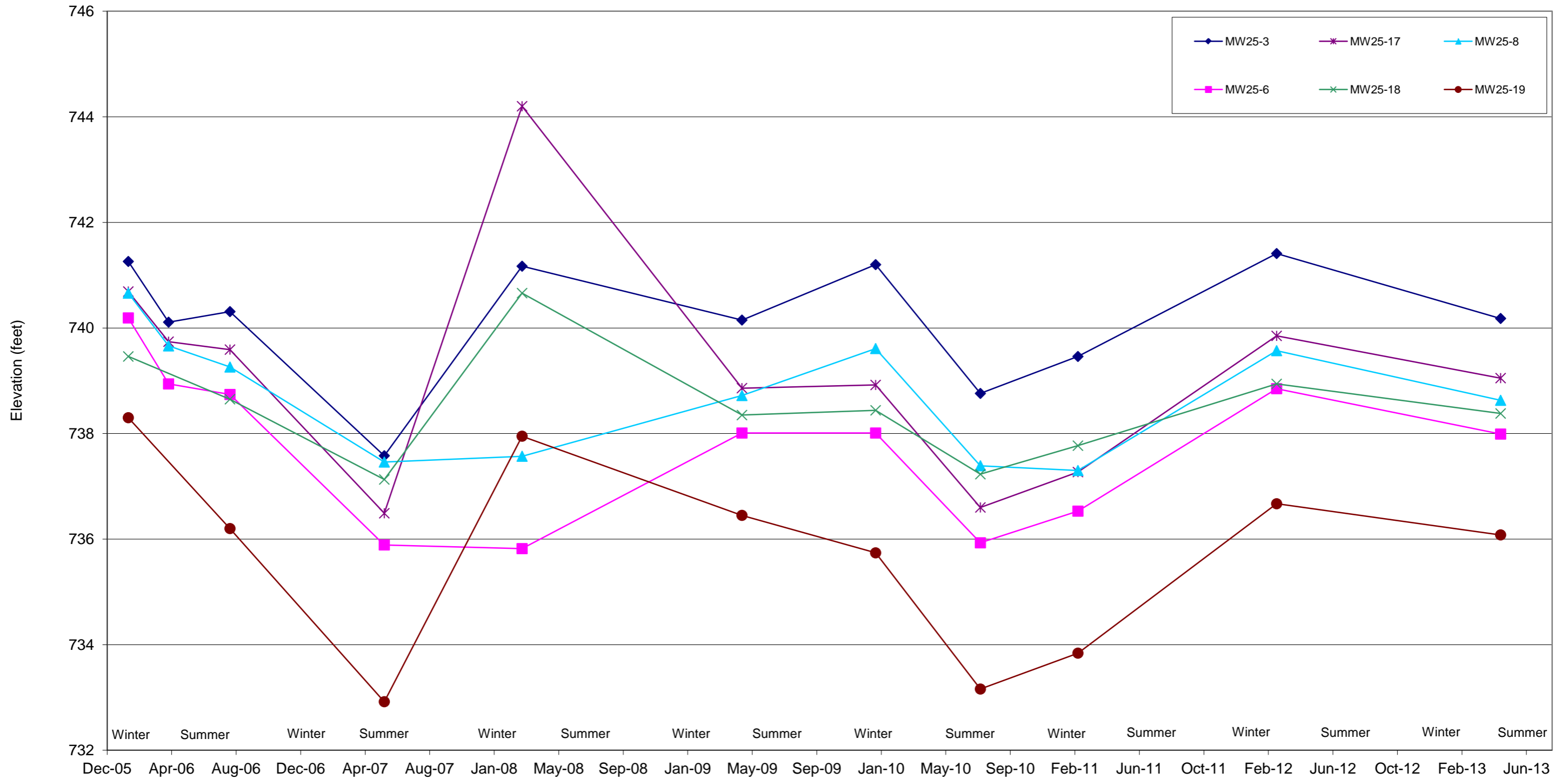
CLIENT/PROJECT TITLE
SENECA ARMY DEPOT
 ROMULUS, NEW YORK
 2013 ANNUAL LONG-TERM MONITORING REPORT FOR SEAD-25

DEPT. ENVIRONMENTAL ENGINEERING Dwg. No.

FIGURE 3
 SEAD-25 SITE PLAN

SCALE AS SHOWN	DATE MARCH 2014	REV
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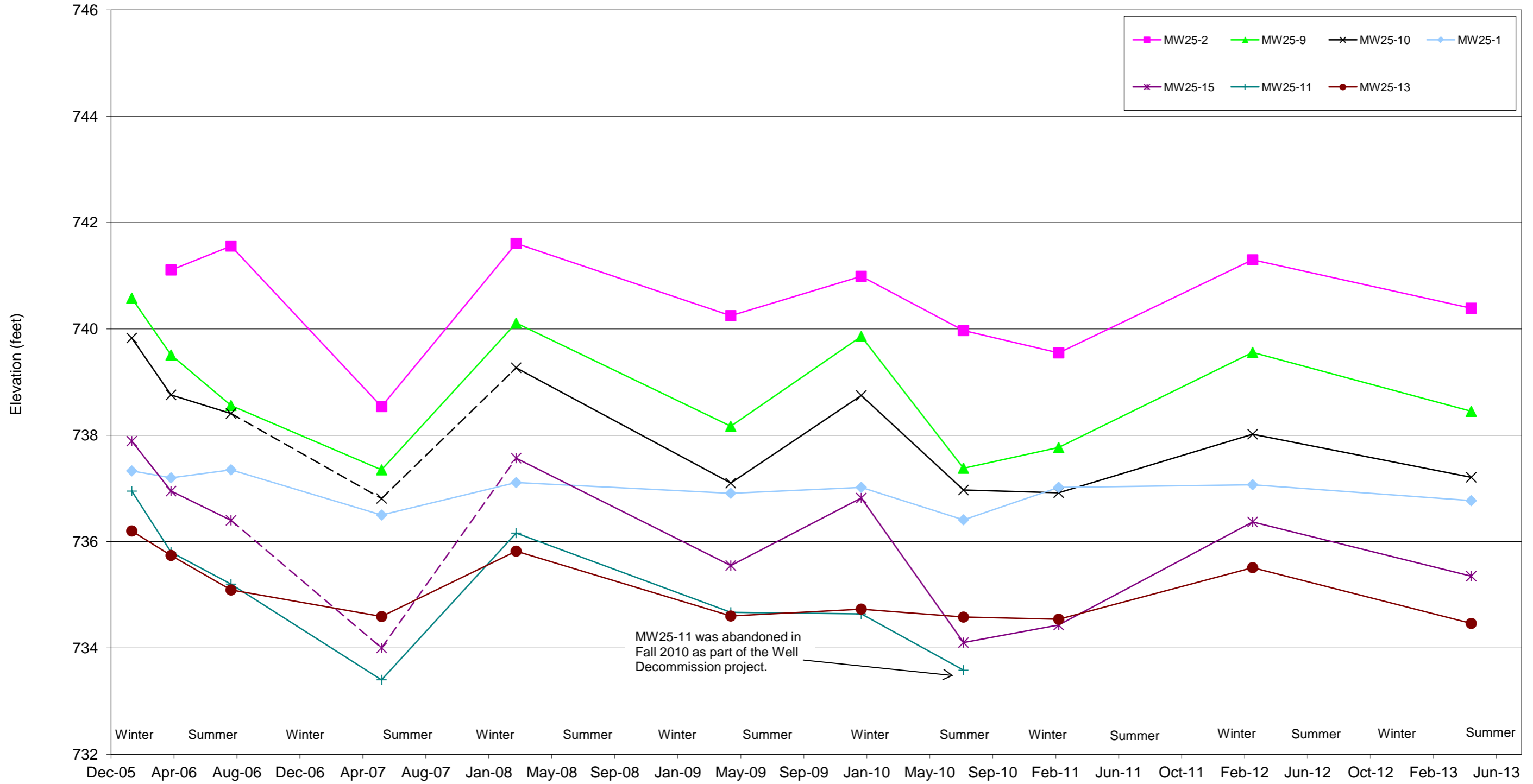
Figure 4A
 SEAD-25 Groundwater Elevations - Northern Profile
 2013 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity



Notes: 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; and May 6, 2013.

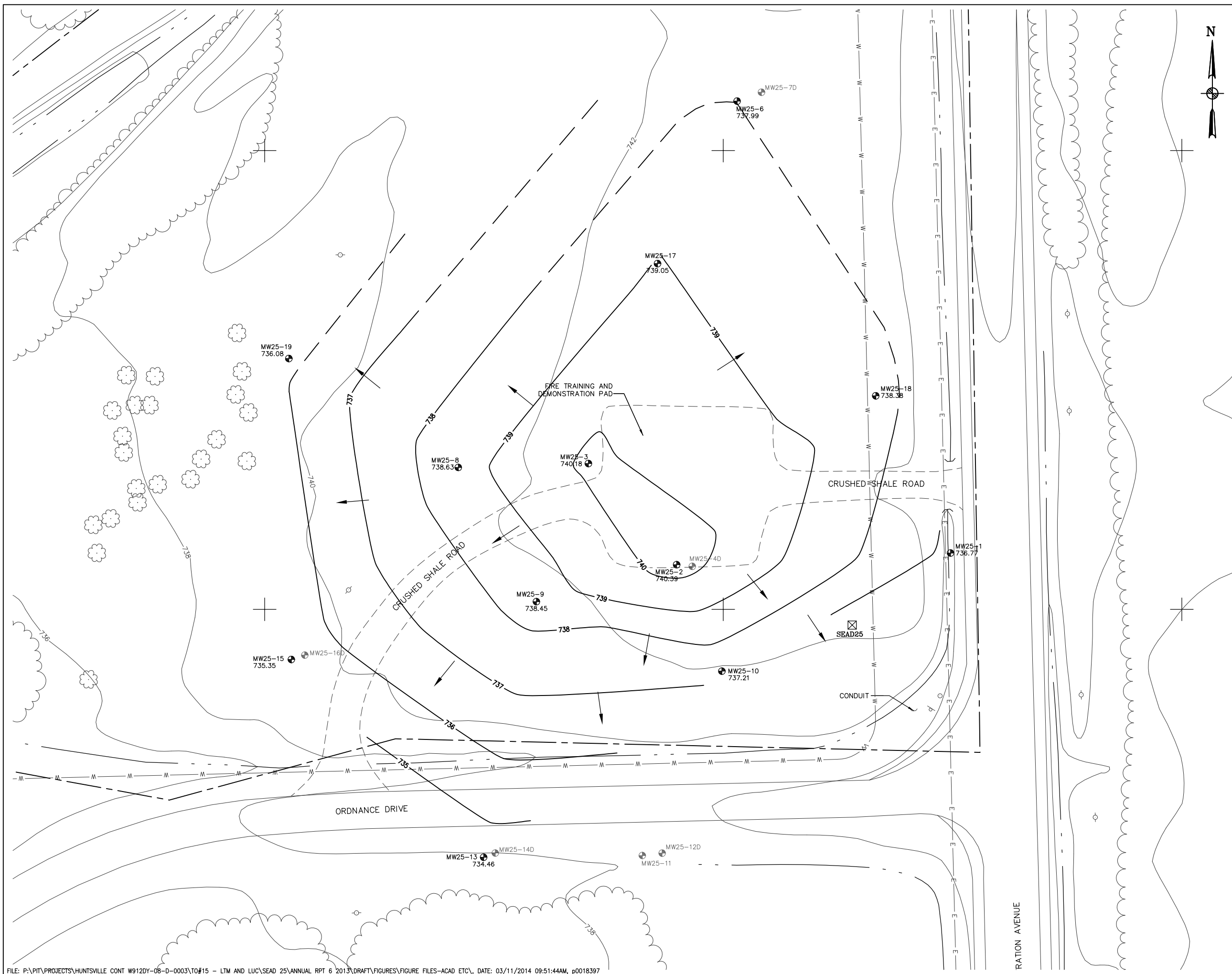
MW25-18 and MW25-19 groundwater elevations were not measured on April 4, 2006.

Figure 4B
 SEAD-25 Groundwater Elevations - Southern Profile
 2013 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity



Notes: 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; and May 6, 2013.

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..



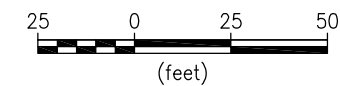
LEGEND

- 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
- 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

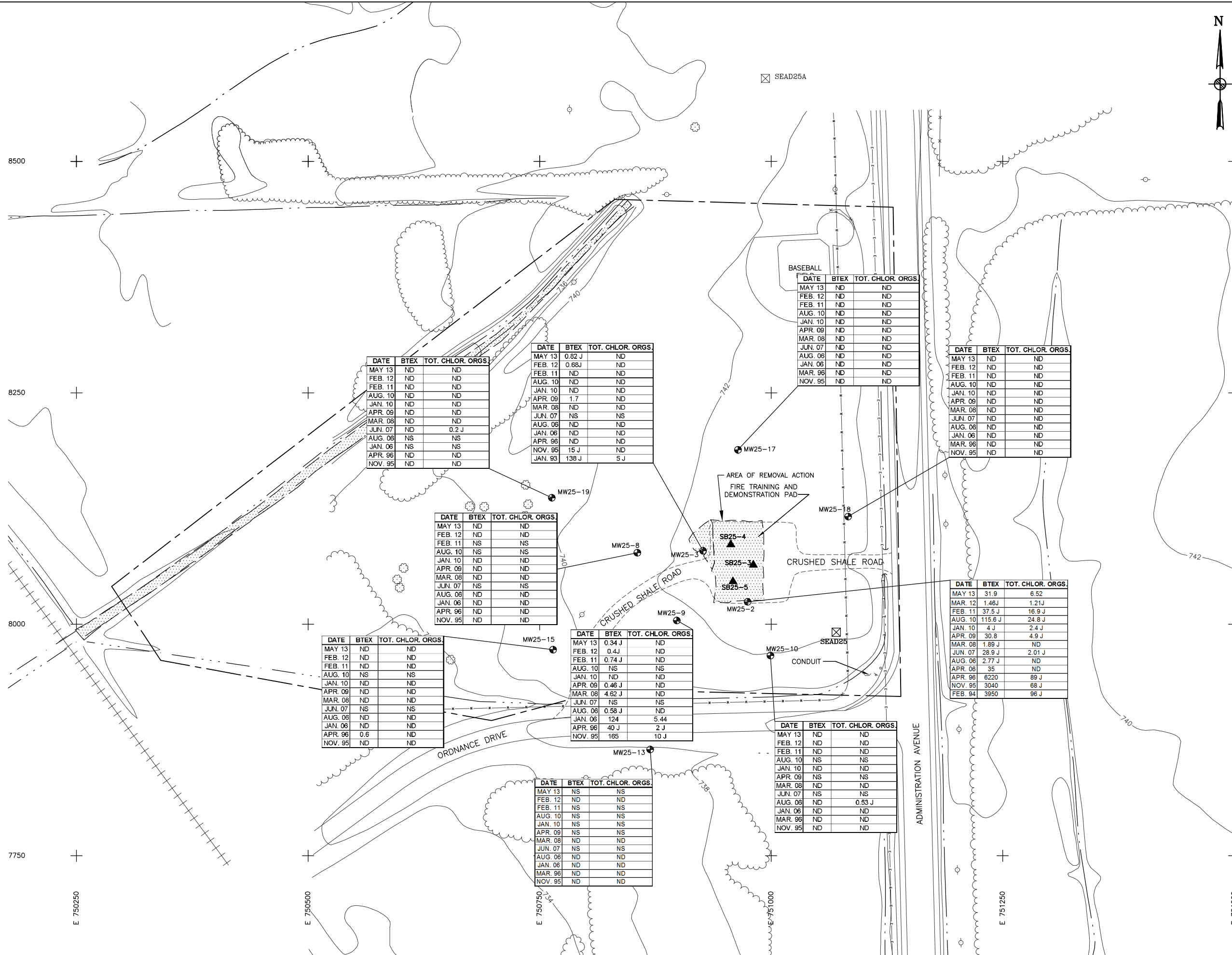


CLIENT/PROJECT TITLE
SENECA ARMY DEPOT
 ROMULUS, NEW YORK
 2013 ANNUAL LONG-TERM MONITORING REPORT FOR SEAD-25

DEPT. ENVIRONMENTAL ENGINEERING Dwg. No.

FIGURE 5
 SEAD-25 GROUNDWATER CONTOURS
 TILL/WEATHERED SHALE SATURATED ZONE
 MAY 2013

SCALE AS SHOWN DATE MARCH 2014 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
- SEAD-25 SURVEY MONUMENT
- MONITORING WELL DESIGNATION MW25-2
- NOV/DEC 2005 REMEDIATED AREAS SB25-3
- PRE-EXCAVATION SOIL SAMPLING BORING LOCATIONS SB25-3

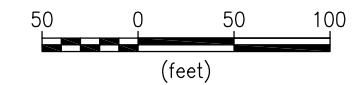
DATE	BTEX	TOT. CHLOR. ORGS.
JUN. 07	29.9	2.01
AUG. 06	3	ND
APR. 06	35	ND
NOV. 95	3040	68
FEB. 94	3950	71

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-DICHLOROETHENE TOTAL
 (OR 1,2-DICHLOROETHENE)
 - CIS-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

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.



PARSONS



CLIENT/PROJECT TITLE
SENECA ARMY DEPOT
 ROMULUS, NEW YORK
 2013 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 MARCH 2014 REV

Figure 7A
 Concentrations of BTEX over Time at MW25-2
 2013 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity

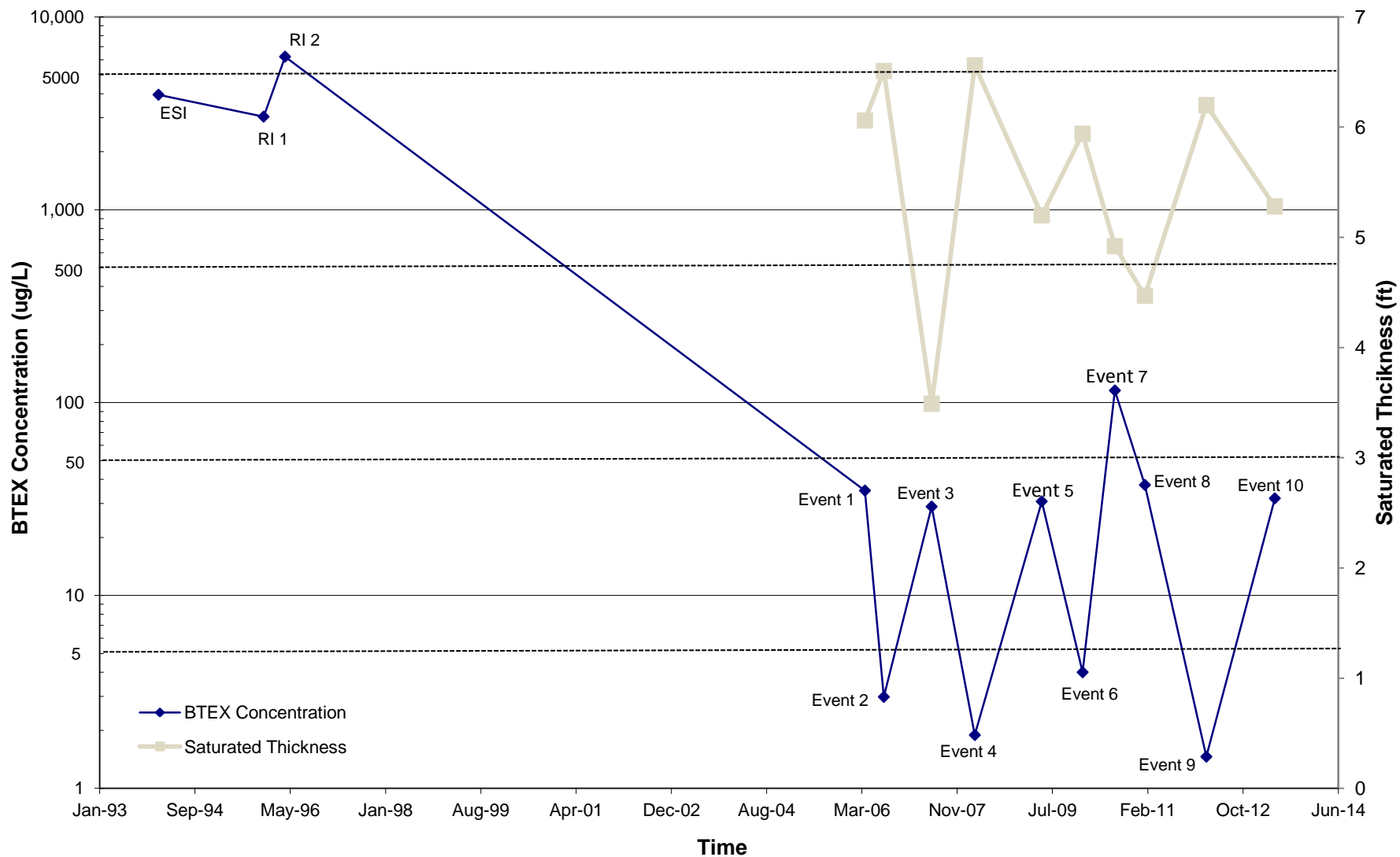


Figure 7B
 Concentrations of BTEX over Time at MW25-3
 2013 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity

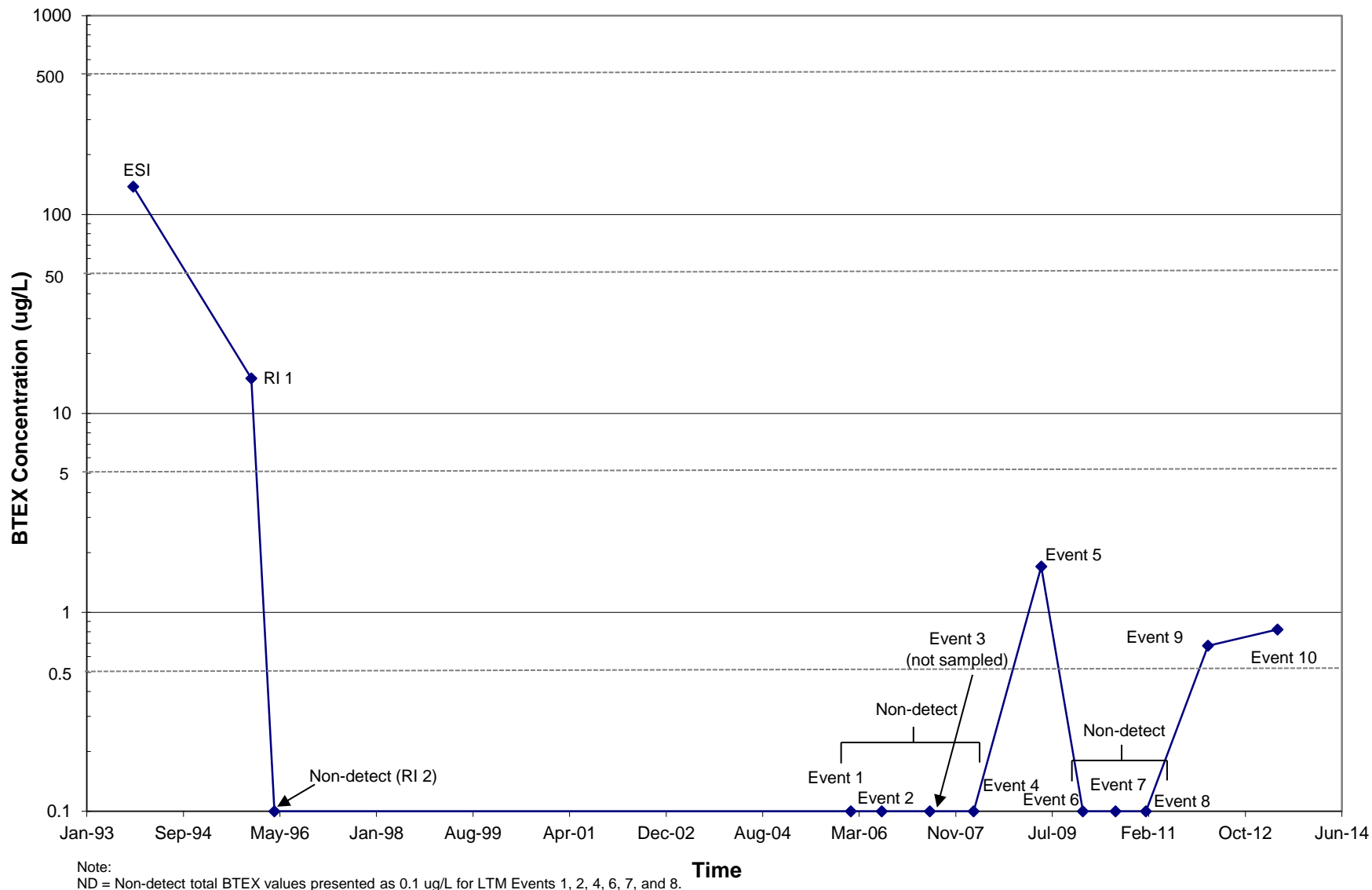
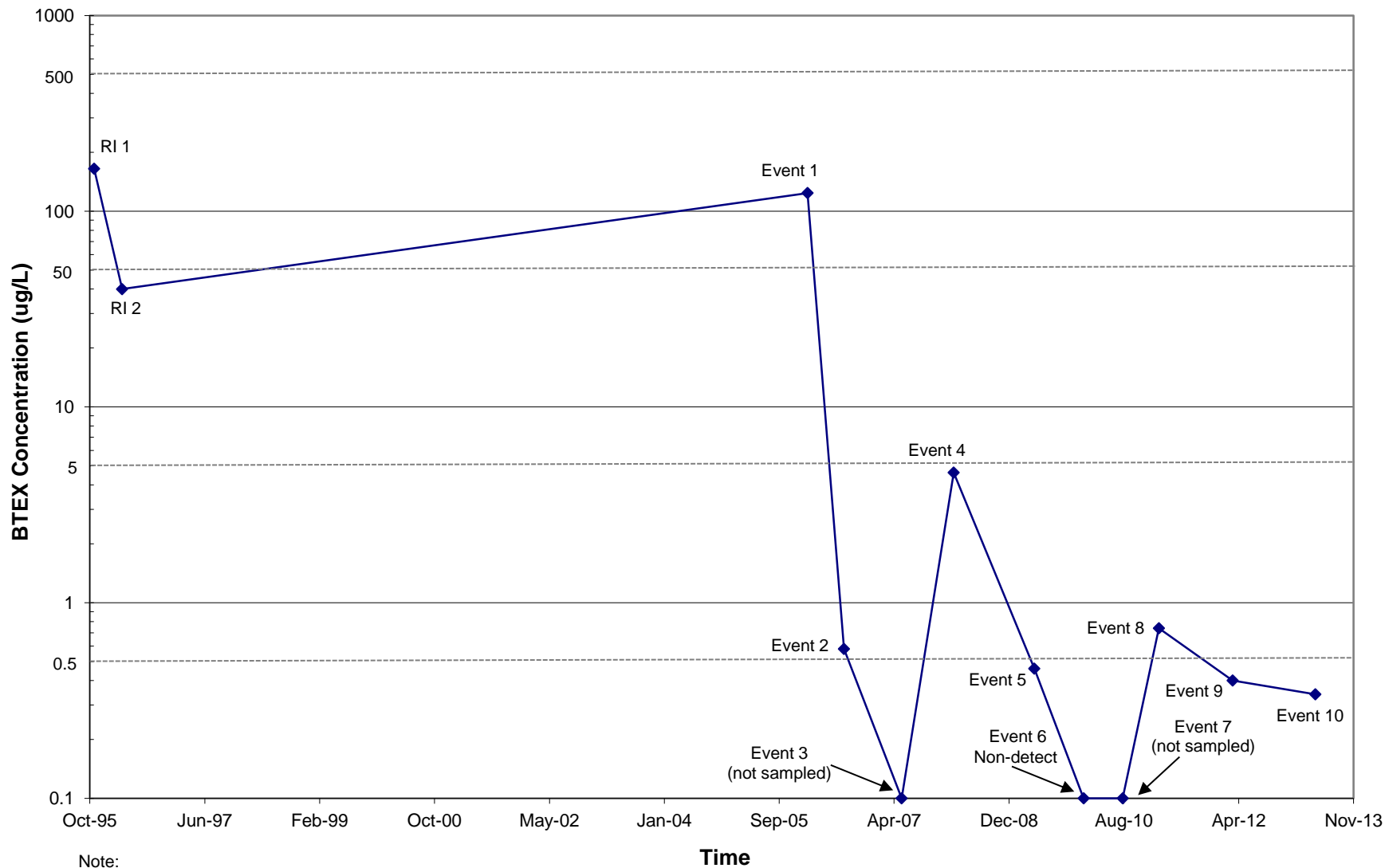
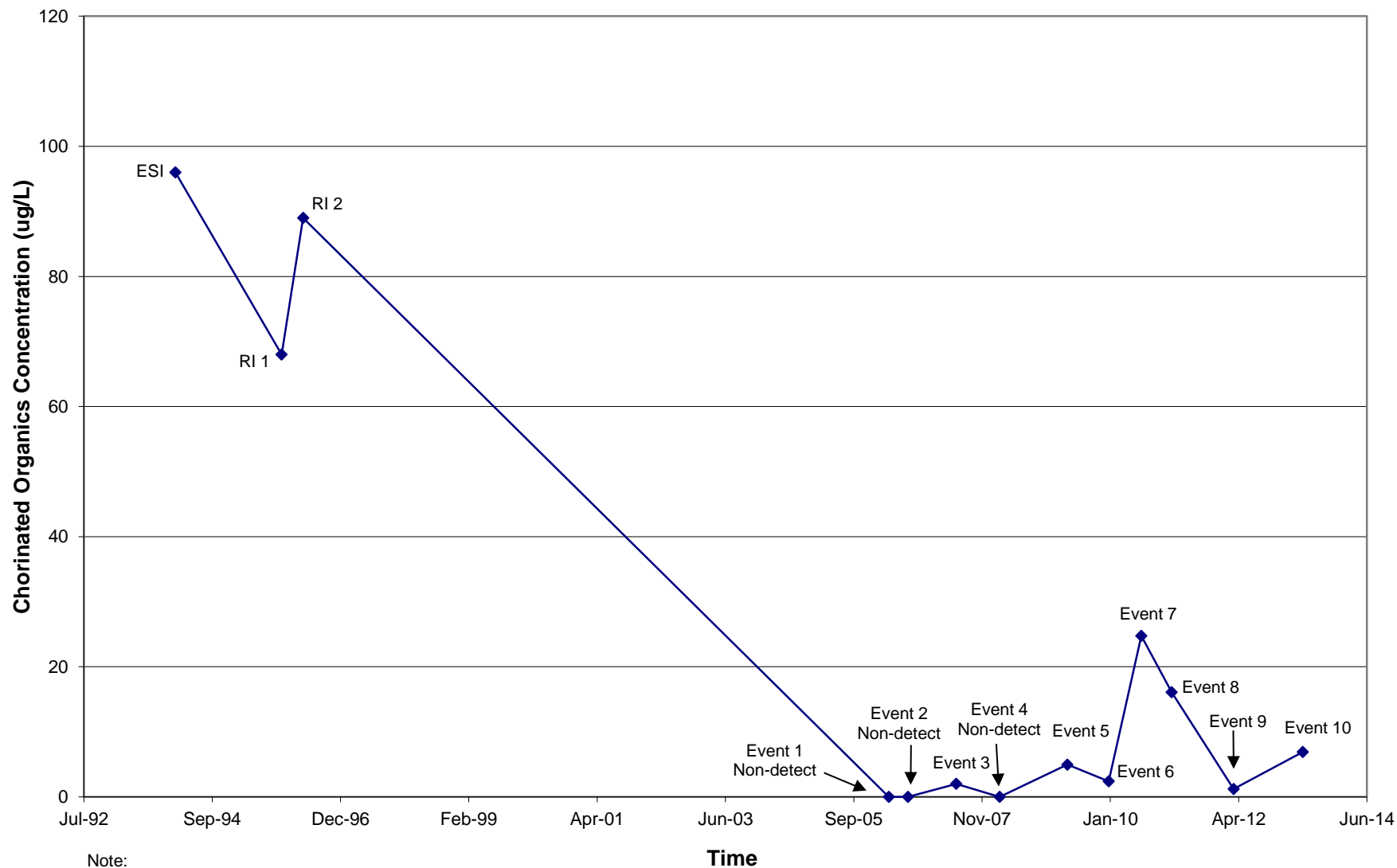


Figure 7C
 Concentrations of BTEX over Time at MW25-9
 2013 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity



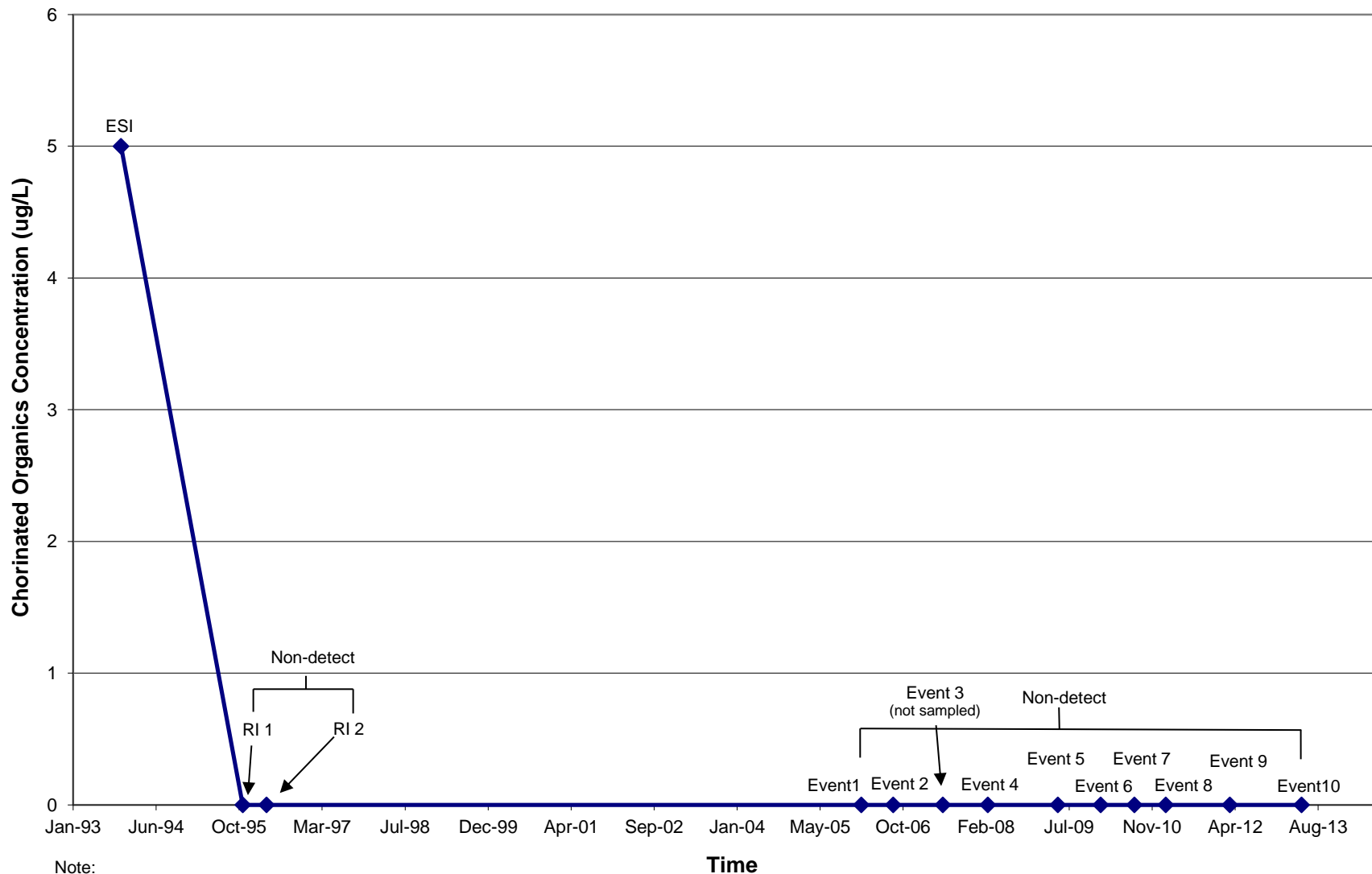
Note:
 ND = Non-detect total BTEX values presented as 0.1 ug/L for LTM Events 6 and 7.

Figure 8A
 Chlorinated VOC COC Concentrations at MW25-2
 2013 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity



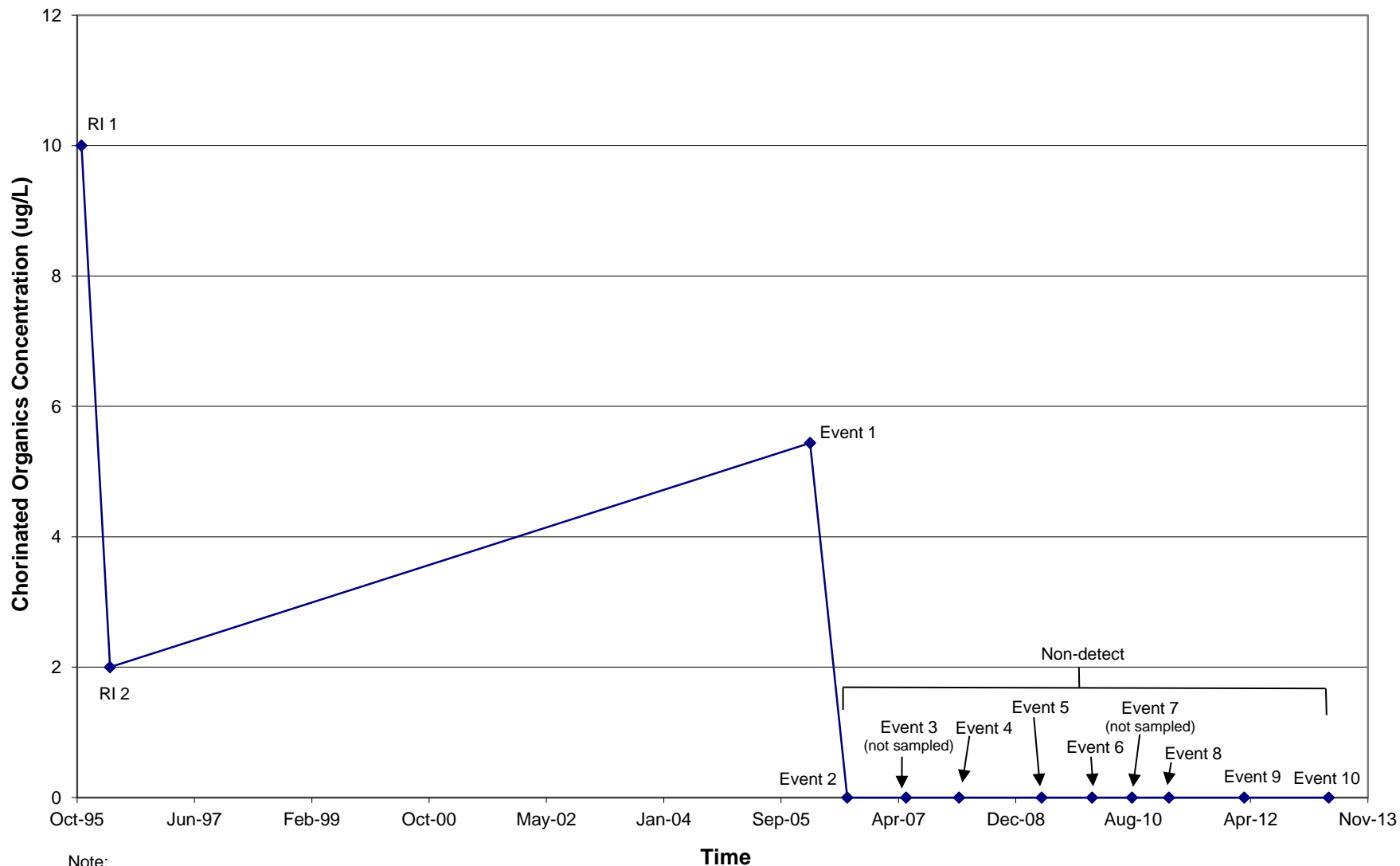
Note:
 Non-detect values presented as 0.0 ug/L as multiple analytes with varying detection levels constitute the total Chlorinated Organic concentrations.

Figure 8B
 Chlorinated VOC COC Concentrations at MW25-3
 2013 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
 2013 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.

Note: LTM 3 and 7 were not sampled

Figure 9A
 Concentrations of Detected Chemicals of Concern in MW25-2
 2013 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activiy

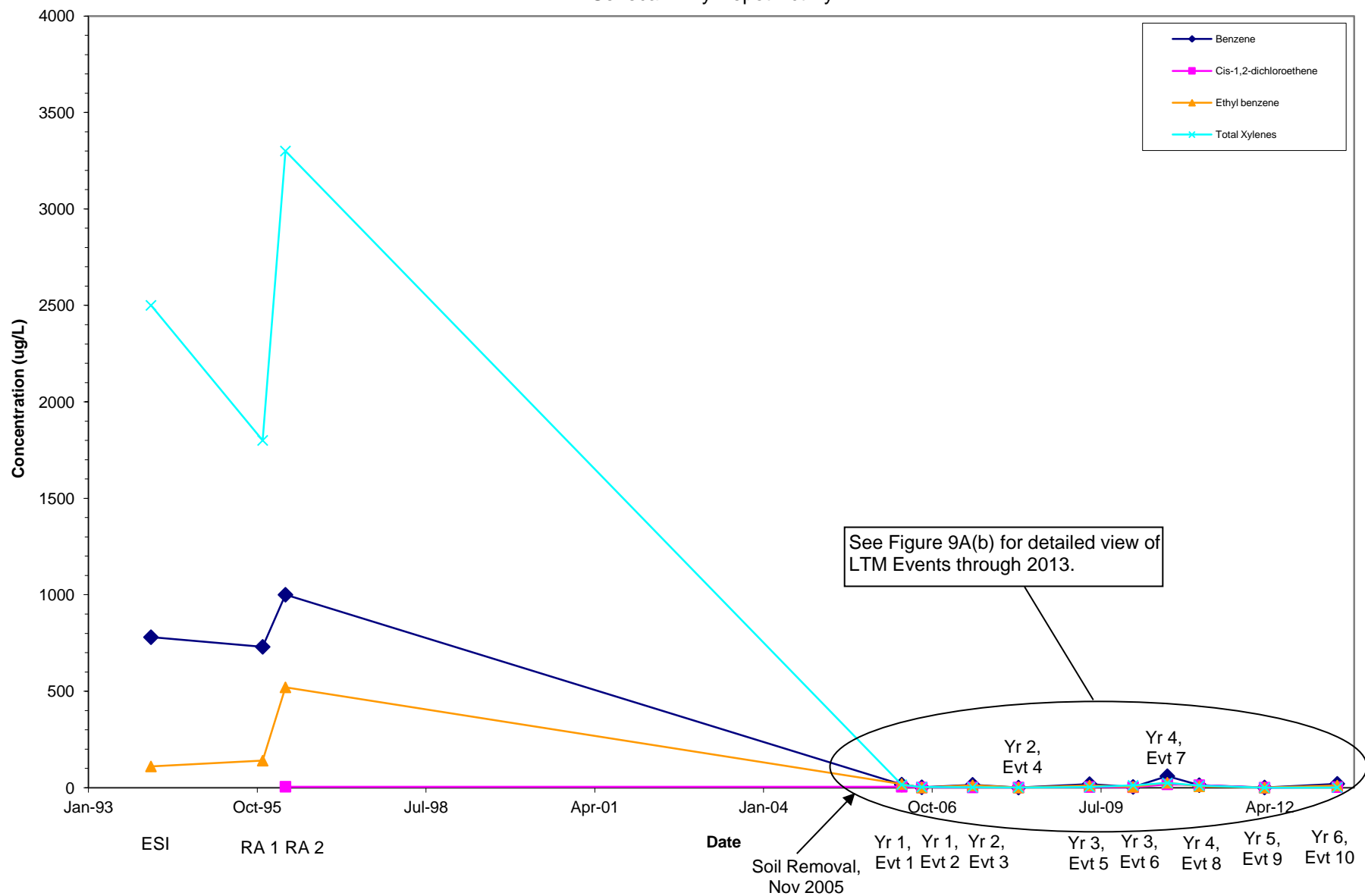


Figure 9A(b)
 Concentrations of Detected Chemicals of Concern in MW25-2
 2013 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activiy

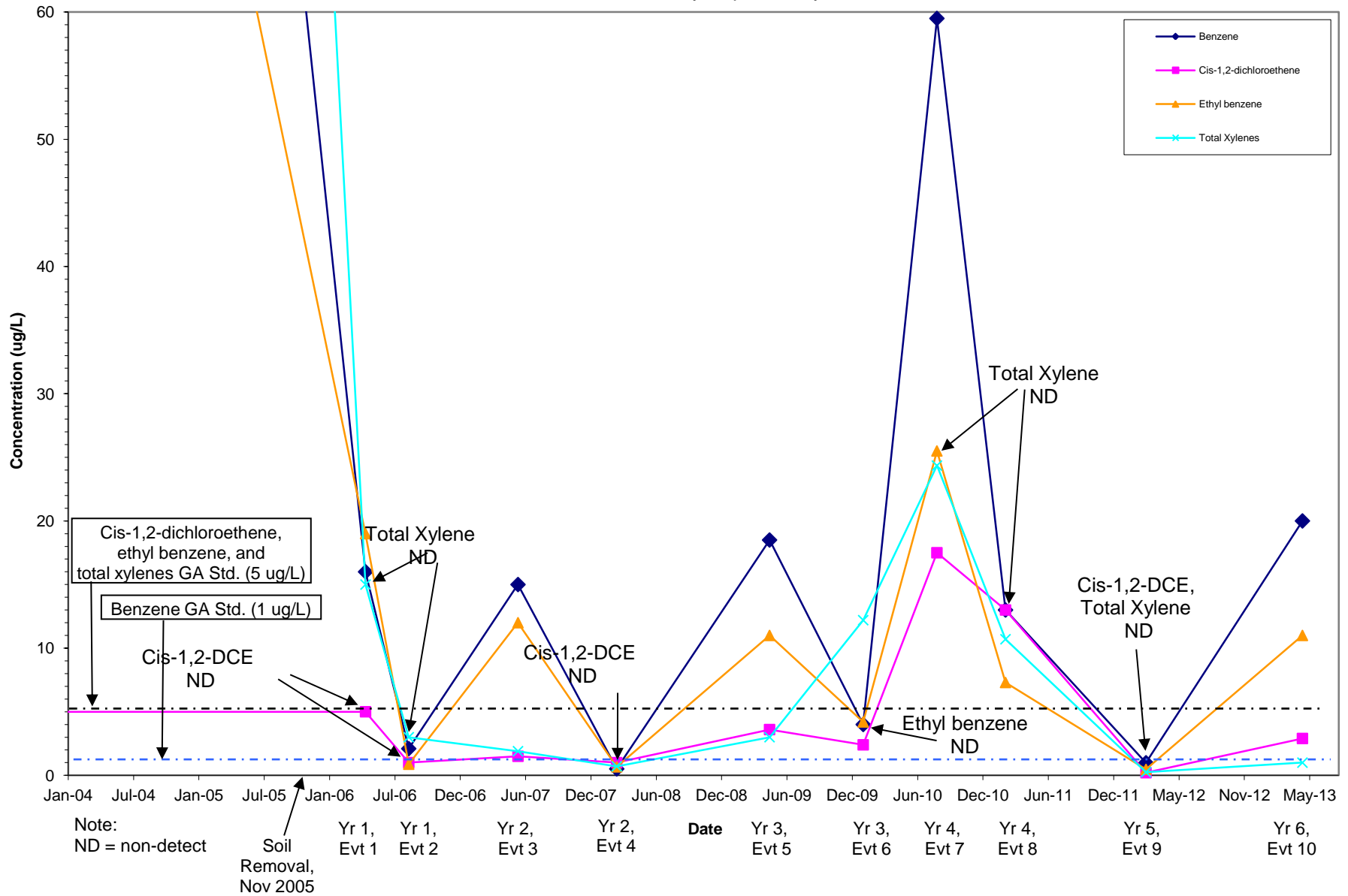


Figure 9B
 Concentrations of Detected Chemicals of Concern in MW25-3
 2013 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activiy

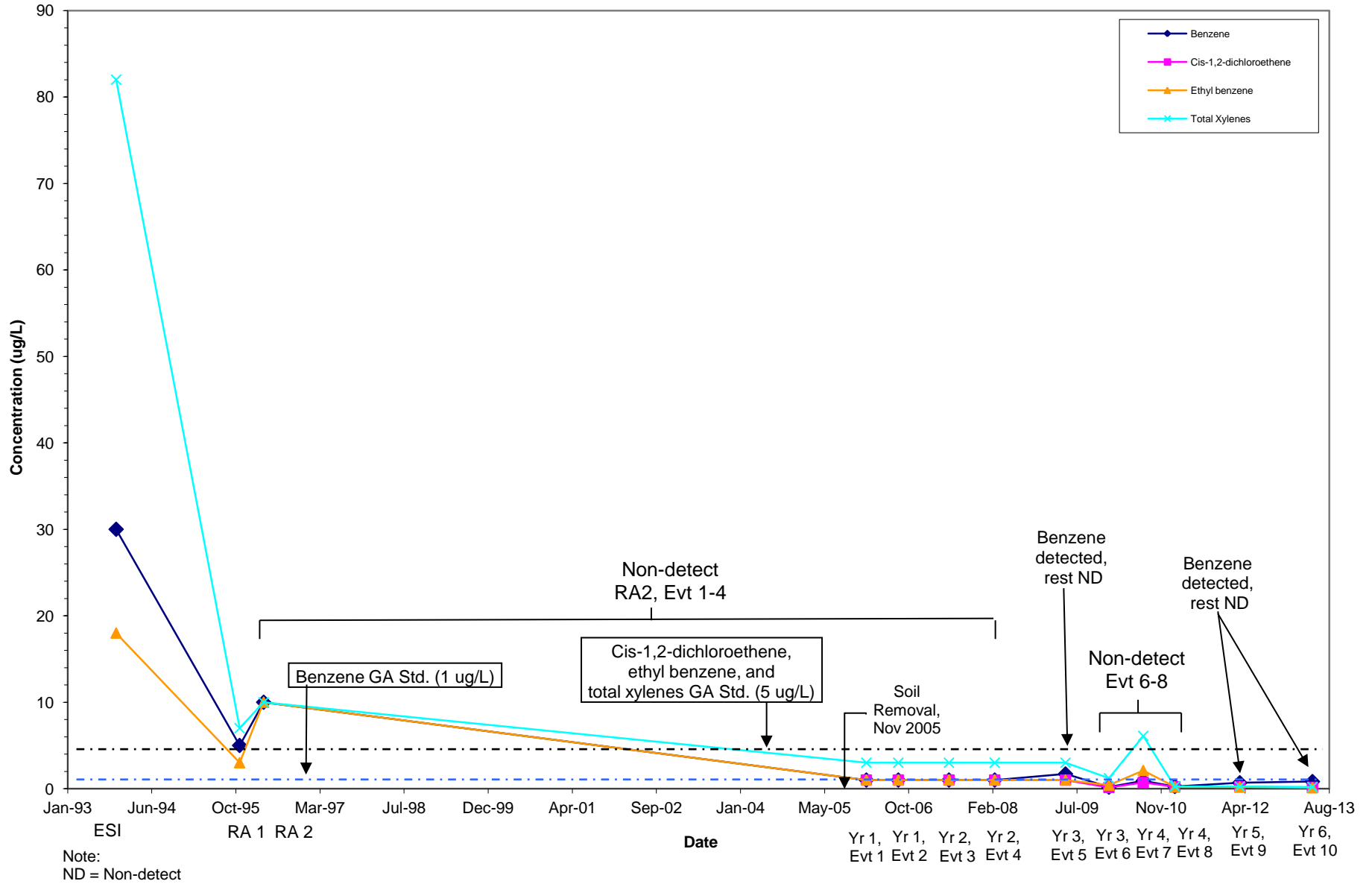
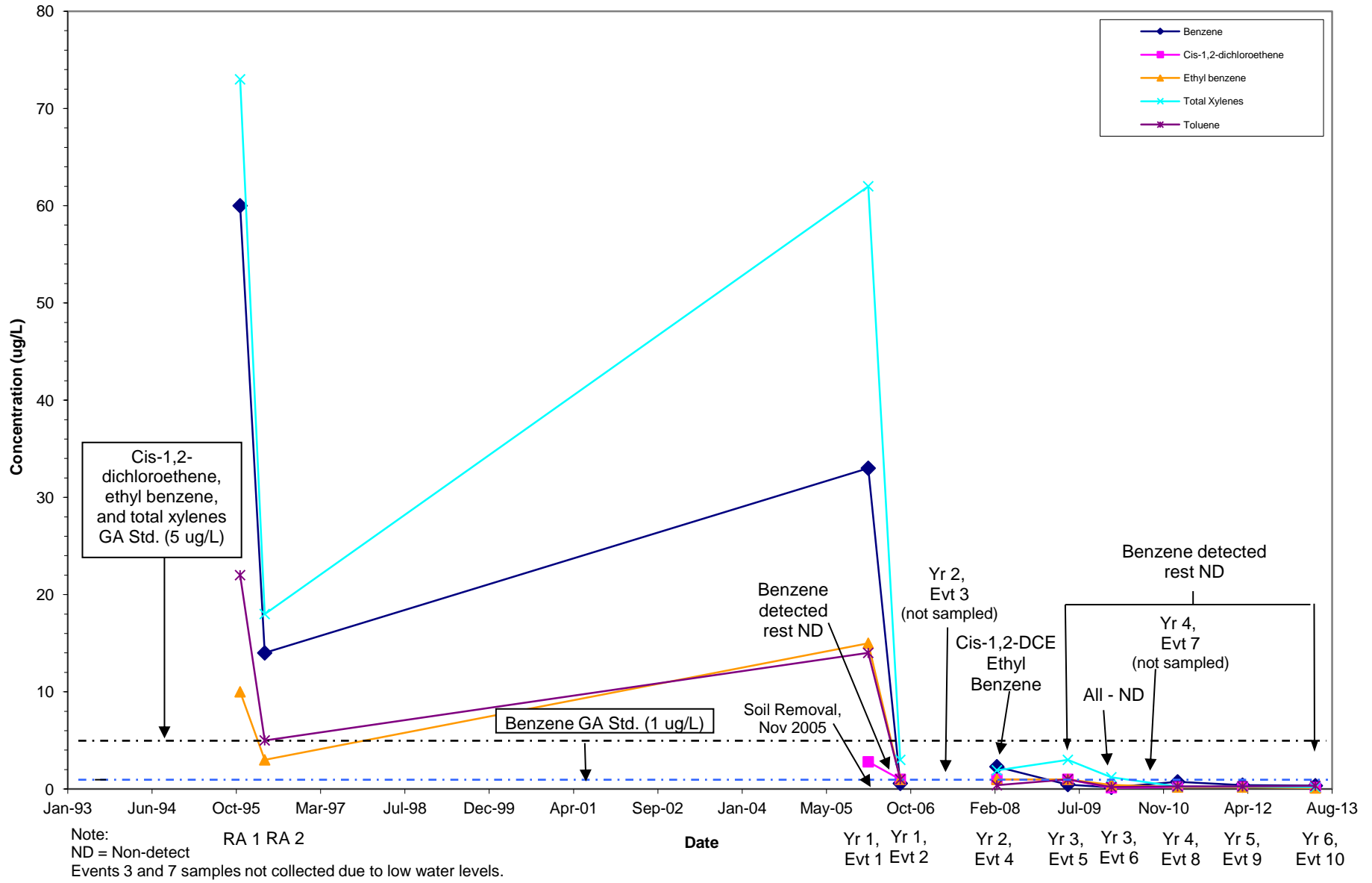


Figure 9C
 Concentrations of Detected Chemicals of Concern in MW25-9
 2013 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activiy



APPENDICES

- A Long Term Monitoring Event 2013 Field Forms
- B Long Term Monitoring Event 2013 Laboratory Reports
- C Historic Groundwater Elevations (Events 1 through 10)
- D Complete LTM Groundwater Analytical Data (Events 1 through 10)
- E Long Term Monitoring Event 2013 Data Validation Sheets

APPENDIX A
LONG TERM MONITORING EVENT 2013 FIELD FORMS

GROUNDWATER ELEVATION REPORT

PARSONS		CLIENT:				DATE: 5/6/13													
PROJECT: _____						PROJECT NO: _____													
LOCATION: _____						INSPECTOR: BBO & SD													
MONITORING EQUIPMENT:					WATER LEVEL INDICATOR:					COMMENTS:									
INSTRUMENT		DETECTOR		BGD		TIME		REMARKS							INSTRUMENT		CORRECTION FACTOR		
WELL	TIME	DEPTH TO <i>Well Dept</i>		CORRECTED	MEASURED	INSTALLED	PRODUCT	WELL STATUS / COMMENTS											
		WATER	PRODUCT									WATER LEVEL	POW	POW	SPEC. GRAV.				
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
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SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-Z
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PROJECT: SEAD-25 LTM Groundwater Sampling - Round 10	DATE: 10/8/13
LOCATION: ROMULUS, NY	INSPECTORS: BBO/SB
	PUMP #:

WEATHER / FIELD CONDITIONS CHECKLIST				(RECORD MAJOR CHANGES)		
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	WIND DIRECTION (0-360)	GROUND / SITE SURFACE CONDITIONS
1322	60	overcast scattered showers		0-5	E-7W	

SAMPLE ID #: 25LM20101/25LM20102

MONITORING	
INSTRUMENT	DETECTOR
OVM-580	PID

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
		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
			5/8/13 6.13'		

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1329	5.82	Bladder Pump & ISI probe in the well							
1330		Pump Started							
1351	6.30	116		0.14	8.6	1.10	7.30	-19	10.79
1358	6.48	110		0.21	8.7	1.10	7.26	-26	10.03
1403	6.63			0.39	8.8	1.02	7.27	-35	8.52
1408	6.74			0.54	8.9	0.966	7.26	-70	10.06
1413	6.88	100		0.25	8.9	0.930	7.26	-97	7.68
1418	7.00		~ 0.5 gals	0.13	8.9	0.870	7.29	-125	5.23
1423	7.09			0.11	8.9	0.864	7.30	-144	5.57
1428	7.19	98		0.08	8.9	0.852	7.29	-157	3.78
1433	7.29			0.11	8.8	0.856	7.26	-186	3.39
1438	7.38			0.11	8.8	0.855	7.27	-220	3.30
1443	7.50			0.11	8.7	0.859	7.25	-279	2.10
1448			~ 1.25 gals	0.07	8.7	0.858	7.25	-305	2.20
1455	7.72	70		0.10	8.6	0.872	7.23	-335	1.96
1500	7.82	88		0.10	8.6	0.873	7.23	-346	1.37
1505	7.95	108	~ 1.5 gals	0.10	8.5	0.881	7.22	-353	1.31
1510	8.09			0.11	8.5	0.888	7.21	-355	2.18
1515	8.25		~ 2.0 gals	0.11	8.5	0.897	7.21	-357	3.08
1520	8.39		~	0.11	8.4	0.907	7.20	-350	3.11
1530		Sample Collected Sulfide = 0.15 ~ 1/4							

Organic odor to purge water Filled 12x VOC VOA's (3x per sample)
 12x MEE VOA's "
 4x Plastic NO₂/NO₃ (1 per sample)
 4x Plastic Sulfate/CR 4/5/2/13
 2x Plastic Fe/Na "
 1640 insufficient water to fill last 2 bottles
 Samples 25LM20101 25LM20101MSD
 25LM20101MS 25LM20102
 L7 25LM20101MS & 25LM20102 only

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY			PARSONS			WELL # <u>MW25-2</u>				
PROJECT: <u>SEAD-25 LTM Groundwater Sampling - Round 10</u>						DATE: <u>5/9/13</u>				
LOCATION: <u>ROMULUS, NY</u>						INSPECTORS: <u>SD/BCO</u>				
						PUMP #: <u>15788</u>				
WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)						SAMPLE ID #: <u>A25LM20101/102</u>				
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM) VELOCITY (APPRX) DIRECTION (0 - 360)					GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT DETECTOR
							OVM-580	PID		
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	0.168	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		
		<u>11.25'</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>5/9/13</u> <u>8.96'</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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)	
<u>859</u>	<u>8.96'</u>	<u>GW level check</u>								
		<u>Connecting air compressor to bladder pump left in well overnight</u>								
		<u>will fill 25LM20101 & 25LM20101MSD Na/Fe bottles</u>								
<u>904</u>		<u>Samples Collected</u>								
		<u>Sample ID 25LM20101</u>				<u>1x Plastic</u>	<u>Fe/Na</u>			
		<u>25LM20101MSD</u>				<u>1x Plastic</u>	<u>Fe/Na</u>			

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY		PARSONS			WELL #: MW25-3			
PROJECT: <u>SEAD-25 LTM Groundwater Sampling - Round 10</u>				DATE: <u>5/9/13</u>				
LOCATION: <u>ROMULUS, NY</u>				INSPECTORS: <u>BB0/SD</u>				
				PUMP #: <u>8607</u>				
WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)				SAMPLE ID #: <u>25LM20097</u>				
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM)		GROUND / SITE SURFACE CONDITIONS		
				VELOCITY (APPRX)	DIRECTION (0 - 360)			
721	60°	Sunny & Partly Cloudy		5-10	SE → NW	overcast rain		
MONITORING								
				INSTRUMENT		DETECTOR		
				OVM-580	PID			
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
			6.15'					
RADIATION SCREENING DATA		PUMP PRIOR TO SAMPLING (cps)			PUMP AFTER SAMPLING (cps)			

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

LaMotte

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (µmhos)	pH	ORP (mV)	TURBIDITY (NTU)
726	6.01	Bladder pump & EST probe in the well							
726		Pump Started							
736	6.58	140		0.42	8.1	0.816	6.86	85	7.93
741	6.61			0.34	8.0	0.815	6.90	56	3.88
746	6.75	130		0.27	7.9	0.808	6.93	35	3.59
751	6.85	114	0.5 gals	0.33	7.9	0.801	6.94	21	3.70
756	6.99			0.45	7.9	0.797	6.95	9	2.81
800	7.06	90		0.45	8.0	0.797	6.97	-3	3.24
806	7.10		~1.0 gals	0.39	7.9	0.796	6.96	-6	2.80
811	7.10			0.40	7.9	0.792	6.95	-5	3.44
816	7.19	120	~1.25 gals	0.34	7.9	0.798	6.98	-15	3.44
821	7.26	94		0.41	7.9	0.802	6.98	-22	3.10
826	7.31	94	21.5 gals	0.42	7.9	0.805	6.98	-29	3.74
831	7.37	94		0.38	7.9	0.808	7.00	-47	2.21
836	7.49		~1.75 gals	0.37	7.9	0.806	7.00	-60	3.08
841	7.49	90		0.35	7.9	0.805	7.01	-66	2.18
846	7.54		~2.0 gals	0.29	7.9	0.802	7.00	-72	2.62
851	7.63	92		0.20	7.9	0.801	7.00	-77	2.60
856	7.65	70	~2.25 gals	0.24	7.9	0.800	7.00	-78	1.98
861	7.72	110	~2.3 gal	0.25	7.8	0.808	6.99	-79	1.50
869		Samples Collected							
						Sulfide = 0.03 mg/L			

~2.5 gals Total Purge

MnH = 0.03 mg/L

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY **PARSONS** WELL #: MW25-8

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 10
 LOCATION: ROMULUS, NY

DATE: 5/7/13
 INSPECTORS: TBO
 PUMP #: Peristaltic Pump

SAMPLE ID #: 25LM20103

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
1031	70	Sunny		0-5	SE → NW	dry	OVM-580	PID

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	0.162	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
		5.43'				
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	
			3.96'			
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 (µmhos)	pH	ORP (mV)	TURBIDITY (NTU)	Notes
1043	3.90	82								Bladder pump & YSI probe in the well, Peristaltic used so GeoParan could be collected.
1043										Pump started
1058	4.63	82		0.16	7.2	0.477	7.11	45	1.33	
1103	4.72	102		0.14	9.1	0.477	7.24	34	0.88	
1108	4.85	102		0.11	9.0	0.486	7.28	-4	0.90	
1113	5.05	100		0.09	8.9	0.495	7.29	-12	2.09	
1118	5.05			0.08	8.9	0.506	7.35	-31	1.74	
1122										DB Probe exposed, will purge well dry
1123	dry									~0.5 gals total purge, will allow well to recharge. → small amount of roots material on YSI probe when removed.
1528	4.25									GW Level check, enough water to sample & well has recharged 80%
1536										Samples Collected: 3X VOC VOAs 3X MEE VOAs 1x Plastic NO ₂ /NO ₃ 1x Plastic Sulfate / Cl 1x Plastic Fe/Na
5/8/13 833	4.1'									GW level check, will collect water vrs Boiler for back Test Sulfide = 0.09 mg/L back Test

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-9
PROJECT: SEAD-25 LTM Groundwater Sampling - Round 10	DATE: 5/7/13	
LOCATION: ROMULUS, NY	INSPECTORS: BBO	
	PUMP #: Peristaltic Pump	
	SAMPLE ID #: 25LM20104	

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)	
1204	70's	Sunny		0-5	SE-NW	dry

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)	5.39'	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
	DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	4.01'	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME
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	pH	ORP (mV)	TURBIDITY (NTU)
1216	3.93	Bladder Peristaltic pump	0.02	0.12	9.5	0.498	7.57	-62	4.93
1216		Pump Started, replaced water line							
1229	4.44	72		0.12	9.5				
1234	4.63	98		0.12	9.4	0.498	7.57	-62	4.93
1239	4.51			0.12	9.3	0.491	7.56	-69	
1250	4.84	100		0.14	9.2	0.508	7.54	-78	2.33
1255	4.93			0.16	9.1	0.502	7.50	-90	2.57
1300	4.90		Do probe exposed	1.17	10.1	0.511	7.56	-104	
1305	Dry		Do probe exposed, purging any remaining water & will let recharge ~ 0.5 gals purged in total						
1557	4.09		GW level check, ensure well has fully recovered						
1610			Samples Collected						
			3x VOC VOA's						
			3x MEE VOA's						
			1x Plastic NO ₂ /NO ₃						
			1x Plastic Sulfate/Cl						
			1x Plastic Fe/Na						
5/8/13 819	4.05		GW level check, will collect water for Hach Test via Bailer Sulfide = 0.03 mg/L Hach Test						

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY		PARSONS		WELL #: <u>MW25-10</u>		
PROJECT: <u>SEAD-25 LTM Groundwater Sampling - Round 10</u>				DATE: <u>5/8/13</u>		
LOCATION: <u>ROMULUS, NY</u>				INSPECTORS: <u>TBO/SD</u>		
				PUMP #: <u>Peristaltic / Barler</u>		
WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)				SAMPLE ID #: <u>25LM20105</u>		
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM)		GROUND / SITE SURFACE CONDITIONS
				VELOCITY (APPRX)	DIRECTION (0 - 360)	
MONITORING						
				INSTRUMENT: <u>OVM-580</u>		
				DETECTOR: <u>PID</u>		

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
	<u>6.38'</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>5.80'</u>	<u>5.86'</u>			<u>5/7/13</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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
<u>7</u> <u>5/8/13</u> 806	<u>5.86</u>	<u>Peristaltic pump started, purging well until dry and well allow to recharge overnight.</u>							
809		<u>Pump stopped, purged ~ 462ml</u>							
<u>1156</u>	<u>5.88</u>	<u>GW level check, GW has recharged to initial level.</u>							
1319	5.89	<u>GW level check</u>							
1326		<u>Collected samples via Telfon lined Bariler w/ single check ball filled 3x VOC VOA's 1x MEE VOA's filled.</u>							
		<u>-> will let well recharge</u>							
1619	5.91	<u>GW level check, will collect additional sample bottles</u>							
<u>169</u>		<u>Collected samples, filled 2x MEE VOA's 1x Plastic NO2/NO3</u>							
<u>5/8/13</u> 755	5.89	<u>GW level check, will collect remaining sample bottles</u>							
800		<u>Sample bottles collected 1x Plastic Sulfate/Cl 80% full Sulfide = 0.01 1x Plastic Fe/Na 45% full Hach Test ^{mg/L}</u>							
1343	5.94	<u>GW level check</u>							
1357		<u>Filled remaining space in Sulfate/Cl & Na/Fe bottles</u>							

SAMPLING RECORD - GROUNDWATER									
SENECA ARMY DEPOT ACTIVITY				PARSONS				WELL #: <u>MW25-13</u>	
PROJECT: <u>SEAD-25 LTM Groundwater Sampling - Round 10</u>							DATE: <u>5/6/13</u>		
LOCATION: <u>ROMULUS, NY</u>							INSPECTORS: <u>BBO/SD</u>		
							PUMP #: <u>Perstake / Baker</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: <u>OVM-580</u>		DETECTOR: <u>PID</u>
							SAMPLE ID #: <u>#25LM20106</u>		
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		
	5.48'								
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		
			5.18' 380 5.14'						
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)			5.14'		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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
5/7/13 753	5.14								
		Perstake pump started, purged well until dry and will allow to recharge over night.							
757	dry	Purged stopped ~ 204 ml removed, will allow well to recharge.							
1435	dry	GW level check.							
5/8/13 752	dry	GW level check, unable to collect samples							

5/7/13

5/8/13

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY **PARSONS** WELL #: MW25-15

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 10
 LOCATION: ROMULUS, NY

DATE: 5/7/13
 INSPECTORS: BPO
 PUMP #: 19095

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)	
929	62	sunny		0-5	SE-NW	dry

SAMPLE ID #: 25LM20107

MONITORING
 INSTRUMENT: OVM-580 DETECTOR: PID

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
		7.18'				
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	
		5.72'				
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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
936	5.38	Bladder pump & YSI probe in well							
941	5.38	Pump started							
945	5.84	Water Probe can't detect water, on top of bladder pump, insufficient water for flow cell.							
950		Stopped pumping, well will not recharge sufficiently to use flow cell. Removing bladder pump and well purge the well dry							
		5 lead purged in flow cell							
959	5.87	Peristaltic pump in the well							
1000		Pump started							
1012	dry	2220 ml purged, well allow well to recharge							
1054	6.10	GW level check							
1405		Collected samples via Telfer lined syle checkball Bailer							
		3x VOC VOA's							
		3x MBE VOA's							
		1x Plastic NO ₂ /NO ₃							
		1x Plastic Sulfate/Cl							
		1x Plastic Na/Fc							
		Sulfide = 0.05 mg/L							
		Hach							
		Sample ID: 25LM20107							
		Time 1405							

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY **PARSONS** WELL #: MW25-17

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 10
 LOCATION: ROMULUS, NY

DATE: 5/8/13
 INSPECTORS: BB0/SD
 PUMP #: 16358

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
852	60.5	Partly Sunny		0-5	E → W	scattered clouds	OVM-580	PID

SAMPLE ID #: 25LM20098

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
		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	
		5.08'				
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)			PUMP AFTER SAMPLING (cps)		

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

LaRoffo

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	YST TEMP (C)	SPEC. COND (µmhos/cm)	pH	ORP (mV)	TURBIDITY (NTU)
905	4.79	Bladder Pump & YST in the Well							
907		Pump Started							
915	5.77	112		6.77	7.9	0.564	7.46	196	4.26
920	6.10	~110		6.64	7.9	0.560	7.61	146	3.16
925	6.20	74		6.60	7.7	0.560	7.67	122	2.47
930	6.26	108		6.59	7.7	0.562	7.69	112	3.30
935	6.34	100	~0.5 gals	6.84	7.6	0.557	7.72	101	2.64
940	6.38			6.66	7.6	0.559	7.73	94	2.28
945	6.39	112		6.74	7.5	0.561	7.73	88	1.83
950	6.47			6.50	7.4	0.560	7.75	84	2.88
955	6.49	100	~1.0 gals	6.29	7.4	0.557	7.74	81	4.07
1000	6.50			6.22	7.4	0.560	7.76	79	1.63
1005	6.51	100	~1.25 gals	6.38	7.4	0.558	7.76	77	1.56
1010	6.55			6.30	7.4	0.558	7.77	73	2.86
1015	6.58	99		6.52	7.4	0.558	7.76	73	2.48
			~1.75 gals						
1022		Samples Collected							
		3x VOC VOAs				Sulfide = 0.01 mg/L Hach Test			
		3x MEE VOAs							
		1x Plastic NO ₂ /NO ₃							
		1x Plastic Sulfate/CL							
		1x Plastic Fe/Nu							

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY		PARSONS		WELL #: 4W25-19			
PROJECT: SEAD-25 LTM Groundwater Sampling - Round 10				DATE: 5/7/13			
LOCATION: ROMULUS, NY				INSPECTORS: SBA			
				PUMP #: 19097			
WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM) VELOCITY (APPRX)	GROUND / SITE SURFACE CONDITIONS		
					25LM 20100		
				MONITORING INSTRUMENT: OVM-580 DETECTOR: PID			
				02F0176 Y/E 13295 HORIBA			
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
	12.0						
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	
			5.98				
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 (umhos/cm)	pH	ORP (mV)	TURBIDITY (NTU)
		Bladder pump & YSI probe in the well							
		Pump started							
955	5.97	200	Start Pump	2.54	7.8	0.441	7.52	256	
1002	6.19	106		↓	↓	↓	↓	↓	
1007	6.15	100		2.49	7.7	0.434	7.48	253	
1012	6.18	90		2.59	7.7	0.430	7.48	251	
1017	6.19	108		2.47	7.6	0.428	7.46	246	1.38
1024	6.18	105		2.42	7.6	0.426	7.47	240	0.89
1029	6.15	108		2.44	7.6	0.426	7.47	236	2.00
1034	6.18	106		2.40	7.5	0.426	7.46	234	0.63
1039	6.15	106		2.39	7.5	0.426	7.46	230	0.82
1044	6.15	106		2.40	7.5	0.427	7.46	227	0.30
1049	6.18	106		2.43	7.5	0.426	7.46	222	0.12
1054	6.18	106		2.41	7.5	0.420	7.47	221	0.04
1059	6.19	100		2.31	7.5	0.424	7.46	216	0.22
1104	6.17	114	2 gal	2.32	7.5	0.424	7.46	213	0.53
1111	6.19	112		2.24	7.5	0.425	7.47	208	0.30
1116	6.18	114		2.28	7.5	0.427	7.46	208	1.21
1121	6.20	114		2.33	7.5	0.425	7.46	204	0.60
1126	6.21	112		2.27	7.5	0.422	7.47	202	0.11

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY		PARSONS		WELL #: <i>MW 25-19</i>		
PROJECT: <u>SEAD-25 LTM Groundwater Sampling - Round 10</u>				DATE: <u>5/7/73</u>		
LOCATION: <u>ROMULUS, NY</u>				INSPECTORS: <u>SBA</u>		
WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)				PUMP #: _____		
				SAMPLE ID #: _____		
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							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
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	
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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1131	6.22	116		2.28	7.5	0.425	7.46	198	
1137	6.20	116		2.21	7.5	0.425	7.48	195	0.34
1142	6.20	116		2.23	7.5	0.425	7.48	192	0.64
1147	6.20	116		2.28	7.5	0.426	7.47	188	0.20
1152	6.21	116	3.2 gal	2.23	7.5	0.426	7.47	185	0.28
1157	6.21	116		2.19	7.5	0.424	7.47	183	0.46
1202	6.21	116		2.28	7.5	0.422	7.48	181	0.41
1207	6.21	114		2.26	7.5	0.423	7.49	180	0.23
1214	6.21	116	4 gal	2.23	7.5	0.423	7.48	178	0.43
over 3 volumes purged, collect sample at 12:20									
SULFIDE - HACH TEST = 0.00 mg/L									
sampled for VOCs, MEE, Fe, Na, NO ₃ , +NO ₂ , Chloride, Sulfate									

SAMPLING RECORD - GROUNDWATER									
SENECA ARMY DEPOT ACTIVITY				PARSONS			WELL #: MW25-18		
PROJECT: SEAD-25 LTM Groundwater Sampling - Round 10						DATE: 5/8/13			
LOCATION: ROMULUS, NY						INSPECTORS: BBO/SD			
						PUMP #: 18731			
WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)						SAMPLE ID #: 25LM20099			
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM)		GROUND / SITE SURFACE CONDITIONS	MONITORING		
				VELOCITY (APPRX)	DIRECTION (0 - 360)		INSTRUMENT	DETECTOR	
1048	80° 60°	overcast		0-5	E→W		OVM-580	PID	
WELL VOLUME CALCULATION FACTORS DIAMETER (INCHES): 0.25 1 2 3 4 6 GALLONS / FOOT: 0.0026 0.041 0.167 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		
		11.20'							
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			
			6.05'						
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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1059	5.84	Bladder pump & Y&S probe in the well							
1100		Pump Started							
1107	6.25	100		4.54	8.2	0.573	7.95	67	8.55
1112	6.35	92		5.06	8.0	0.563	7.86	58	10.56
6.49 1117	6.49	100		5.21	7.9	0.567	7.84	54	8.19
1122	6.58	98		5.56	7.9	0.562	7.80	50	8.94
1124		Stopped pump, going to pull pump up and check seals for air line, a 1 mg/L increase over 15 min is unusual.							
	6.65								
1133	6.50	Pump restarted, cut air line ends & re-connected them							
1138	6.71	88		5.33	8.3	0.584	7.83	50	171
1143	6.80	98	~0.5 gals	5.28	8.2	0.566	7.82	51	436
1148	6.92			5.17	8.1	0.559	7.84	49	293
1153	7.08			5.09	8.0	0.559	7.83	49	175
1158				5.05	8.0	0.562	7.83	48	143
1205	7.24	90	~1.1 gals	5.18	7.8	0.560	7.83	50	83.9
1210	7.33	94		5.20	7.8	0.560	7.84	50	52.0
1215	7.36			5.09	7.7	0.576	7.82	45	34.2
1220	7.39	116	~1.5 gals	4.82	7.7	0.570	7.82	51	19.9
1225	7.50			5.29	7.6	0.560	7.82	51	11.2
1230	7.59	100	~1.75 gals	5.28	7.6	0.559	7.83	48	7.83

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY			PARSONS			WELL #: MW25-18			
PROJECT: SEAD-25 LTM Groundwater Sampling - Round 10						DATE: 5/8/13			
LOCATION: ROMULUS, NY						INSPECTORS: BBO/SD			
						PUMP #: 18731			
WEATHER / FIELD CONDITIONS CHECKLIST						(RECORD MAJOR CHANGES)			
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM)		GROUND / SITE SURFACE CONDITIONS	SAMPLE ID #: 25LM20099		
				VELOCITY (APPRX)	DIRECTION (0 - 360)		MONITORING		
							INSTRUMENT	DETECTOR	
							OVM-580	PID	
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	0.167	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		
	11.20'								
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		
RADIATION SCREENING DATA		PUMP PRIOR TO SAMPLING (cps)			PUMP AFTER SAMPLING (cps)				
MONITORING DATA COLLECTED DURING PURGING OPERATIONS Lwb/As									
TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND	pH	ORP (mV)	TURBIDITY (NTU)
1235	7.65	162	~1.9 gals	5.34	7.6	0.564	7.82	48	6.01
1240	7.70		~2.25 gals	5.26	7.6	0.566	7.81	48	7.55
1250	Samples Collected								
	Sample ID: 25LM20099								
	Sample Time: 1252								
	Hard Test - sulfide 0.05 mg/L								

APPENDIX B
LONG TERM MONITORING EVENT 2013 LABORATORY REPORTS

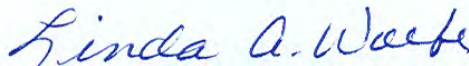
Laboratory Reports have been provided on the electronic (CD) version of this report.

ANALYTICAL REPORT

Job Number: 680-90076-1

Job Description: Seneca Army Depot - LTM Monitoring

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



Approved for release.
Linda Wolfe
Project Manager I
7/3/2013 9:46 AM

Linda Wolfe, Project Manager I
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3005
linda.wolfe@testamericainc.com
07/03/2013
Revision: 1

cc: Mr. Brendan Baranek-Olmstead

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.

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TestAmerica Laboratories, Inc.

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



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CASE NARRATIVE

Client: Parsons Corporation

Project: Seneca Army Depot - LTM Monitoring

Report Number: 680-90076-1

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

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

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

RECEIPT

The samples were received on 5/8/2013 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 25LM20107 (680-90076-1), 25LM20105 (680-90076-2), 25LM20100 (680-90076-3), 25LM20103 (680-90076-4), 25LM20104 (680-90076-5) and 25LM00023 (Trip Blank Lot 112012) (680-90076-6) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/18/2013.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

DISSOLVED GASES

Samples 25LM20107 (680-90076-1), 25LM20105 (680-90076-2), 25LM20100 (680-90076-3), 25LM20103 (680-90076-4) and 25LM20104 (680-90076-5) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 05/21/2013.

No difficulties were encountered during the dissolved gases analysis.

All quality control parameters were within the acceptance limits.

METALS (ICP)

Samples 25LM20107 (680-90076-1), 25LM20100 (680-90076-3), 25LM20103 (680-90076-4) and 25LM20104 (680-90076-5) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/10/2013 and analyzed on 05/16/2013.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

ANIONS BY IC

Samples 25LM20107 (680-90076-1), 25LM20100 (680-90076-3), 25LM20103 (680-90076-4) and 25LM20104 (680-90076-5) were analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were analyzed on 05/16/2013.

Samples 25LM20107 (680-90076-1)[5X], 25LM20100 (680-90076-3)[5X], 25LM20103 (680-90076-4)[5X] and 25LM20104 (680-90076-5) [5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Anions analysis.

All quality control parameters were within the acceptance limits.

NITRATE-NITRITE AS NITROGEN

Samples 25LM20107 (680-90076-1), 25LM20105 (680-90076-2), 25LM20100 (680-90076-3), 25LM20103 (680-90076-4) and 25LM20104 (680-90076-5) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 05/08/2013.

No difficulties were encountered during the nitrate-nitrite analysis.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Parsons Corporation

Job Number: 680-90076-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-90076-1	25LM20107	Water	05/07/2013 1405	05/08/2013 0945
680-90076-2	25LM20105	Water	05/07/2013 1326	05/08/2013 0945
680-90076-3	25LM20100	Water	05/07/2013 1220	05/08/2013 0945
680-90076-4	25LM20103	Water	05/07/2013 1536	05/08/2013 0945
680-90076-5	25LM20104	Water	05/07/2013 1610	05/08/2013 0945
680-90076-6	25LM00023 (Trip Blank Lot 112012)	Water	05/07/2013 1702	05/08/2013 0945

EXECUTIVE SUMMARY - Detections

Client: Parsons Corporation

Job Number: 680-90076-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
680-90076-1	25LM20107					
Iron		530		100	ug/L	6010C
Sodium		2800		1000	ug/L	6010C
Sulfate		9.5		5.0	mg/L	300.0
Nitrate as N		0.019	J	0.050	mg/L	353.2
680-90076-2	25LM20105					
Nitrate as N		0.026	J	0.050	mg/L	353.2
680-90076-3	25LM20100					
Sodium		3600		1000	ug/L	6010C
Sulfate		29		5.0	mg/L	300.0
Nitrate as N		0.13		0.050	mg/L	353.2
680-90076-4	25LM20103					
Iron		4200		100	ug/L	6010C
Sodium		8100		1000	ug/L	6010C
Sulfate		12		5.0	mg/L	300.0
Nitrate as N		0.041	J	0.050	mg/L	353.2
680-90076-5	25LM20104					
Acetone		11	J	25	ug/L	8260B
Benzene		0.34	J	1.0	ug/L	8260B
Iron		3000		100	ug/L	6010C
Sodium		34000		1000	ug/L	6010C
Sulfate		28		5.0	mg/L	300.0
Nitrate as N		0.033	J	0.050	mg/L	353.2

METHOD SUMMARY

Client: Parsons Corporation

Job Number: 680-90076-1

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

Lab References:

TAL BUR = TestAmerica Burlington

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: 680-90076-1

Method	Analyst	Analyst ID
SW846 8260B	McNamara, Alison J	AJMc
RSK RSK-175	Archer, Nicholas	NA
SW846 6010C	Bland, Brian	BCB
MCAWW 300.0	Thornton, Polly A	PAT
MCAWW 353.2	West, Ryan	RW

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20107

Lab Sample ID: 680-90076-1

Date Sampled: 05/07/2013 1405

Client Matrix: Water

Date Received: 05/08/2013 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277181	Instrument ID:	MSP
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	pe1832.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 1853			Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 1853				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.50	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	1.0
1,1,2-Trichloroethane	ND		0.13	1.0
1,1-Dichloroethane	ND		0.25	1.0
1,1-Dichloroethene	ND		0.11	1.0
1,2,4-Trichlorobenzene	ND		0.25	1.0
1,2-Dibromo-3-Chloropropane	ND		0.44	1.0
1,2-Dibromoethane	ND		0.25	1.0
1,2-Dichlorobenzene	ND		0.21	1.0
1,2-Dichloroethane	ND		0.10	1.0
1,2-Dichloropropane	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.25	1.0
1,4-Dichlorobenzene	ND		0.28	1.0
2-Butanone	ND		1.0	10
2-Hexanone	ND		1.0	10
4-Methyl-2-pentanone	ND		1.0	10
Acetone	ND		5.0	25
Benzene	ND		0.25	1.0
Bromodichloromethane	ND		0.25	1.0
Bromoform	ND		0.50	1.0
Bromomethane	ND		2.0	5.0
Carbon disulfide	ND		0.60	2.0
Carbon tetrachloride	ND		0.50	1.0
Chlorobenzene	ND		0.25	1.0
Chloroethane	ND		2.0	5.0
Chloroform	ND		0.14	1.0
Chloromethane	ND		0.33	1.0
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.11	1.0
Cyclohexane	ND		0.25	1.0
Dibromochloromethane	ND		0.10	1.0
Dichlorodifluoromethane	ND		0.25	1.0
Ethylbenzene	ND		0.11	1.0
Isopropylbenzene	ND		0.10	1.0
Methyl acetate	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.20	10
Methylcyclohexane	ND		0.10	1.0
Methylene Chloride	ND		1.0	5.0
Styrene	ND		0.11	1.0
Tetrachloroethene	ND		0.15	1.0
Toluene	ND		0.33	1.0
trans-1,2-Dichloroethene	ND		0.20	1.0
trans-1,3-Dichloropropene	ND		0.21	1.0
Trichloroethene	ND		0.13	1.0
Trichlorofluoromethane	ND		0.25	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20107

Lab Sample ID: 680-90076-1

Client Matrix: Water

Date Sampled: 05/07/2013 1405

Date Received: 05/08/2013 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277181	Instrument ID:	MSP
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	pe1832.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 1853			Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 1853				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.18	1.0
Xylenes, Total	ND		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20105

Lab Sample ID: 680-90076-2

Date Sampled: 05/07/2013 1326

Client Matrix: Water

Date Received: 05/08/2013 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277181	Instrument ID:	MSP
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	pe1834.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 1923			Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 1923				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.50	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	1.0
1,1,2-Trichloroethane	ND		0.13	1.0
1,1-Dichloroethane	ND		0.25	1.0
1,1-Dichloroethene	ND		0.11	1.0
1,2,4-Trichlorobenzene	ND		0.25	1.0
1,2-Dibromo-3-Chloropropane	ND		0.44	1.0
1,2-Dibromoethane	ND		0.25	1.0
1,2-Dichlorobenzene	ND		0.21	1.0
1,2-Dichloroethane	ND		0.10	1.0
1,2-Dichloropropane	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.25	1.0
1,4-Dichlorobenzene	ND		0.28	1.0
2-Butanone	ND		1.0	10
2-Hexanone	ND		1.0	10
4-Methyl-2-pentanone	ND		1.0	10
Acetone	ND		5.0	25
Benzene	ND		0.25	1.0
Bromodichloromethane	ND		0.25	1.0
Bromoform	ND		0.50	1.0
Bromomethane	ND		2.0	5.0
Carbon disulfide	ND		0.60	2.0
Carbon tetrachloride	ND		0.50	1.0
Chlorobenzene	ND		0.25	1.0
Chloroethane	ND		2.0	5.0
Chloroform	ND		0.14	1.0
Chloromethane	ND		0.33	1.0
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.11	1.0
Cyclohexane	ND		0.25	1.0
Dibromochloromethane	ND		0.10	1.0
Dichlorodifluoromethane	ND		0.25	1.0
Ethylbenzene	ND		0.11	1.0
Isopropylbenzene	ND		0.10	1.0
Methyl acetate	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.20	10
Methylcyclohexane	ND		0.10	1.0
Methylene Chloride	ND		1.0	5.0
Styrene	ND		0.11	1.0
Tetrachloroethene	ND		0.15	1.0
Toluene	ND		0.33	1.0
trans-1,2-Dichloroethene	ND		0.20	1.0
trans-1,3-Dichloropropene	ND		0.21	1.0
Trichloroethene	ND		0.13	1.0
Trichlorofluoromethane	ND		0.25	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20105

Lab Sample ID: 680-90076-2

Date Sampled: 05/07/2013 1326

Client Matrix: Water

Date Received: 05/08/2013 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277181	Instrument ID:	MSP
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	pe1834.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 1923			Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 1923				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.18	1.0
Xylenes, Total	ND		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20100

Lab Sample ID: 680-90076-3

Date Sampled: 05/07/2013 1220

Client Matrix: Water

Date Received: 05/08/2013 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277181	Instrument ID:	MSP
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	pe1836.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 1954			Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 1954				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.50	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	1.0
1,1,2-Trichloroethane	ND		0.13	1.0
1,1-Dichloroethane	ND		0.25	1.0
1,1-Dichloroethene	ND		0.11	1.0
1,2,4-Trichlorobenzene	ND		0.25	1.0
1,2-Dibromo-3-Chloropropane	ND		0.44	1.0
1,2-Dibromoethane	ND		0.25	1.0
1,2-Dichlorobenzene	ND		0.21	1.0
1,2-Dichloroethane	ND		0.10	1.0
1,2-Dichloropropane	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.25	1.0
1,4-Dichlorobenzene	ND		0.28	1.0
2-Butanone	ND		1.0	10
2-Hexanone	ND		1.0	10
4-Methyl-2-pentanone	ND		1.0	10
Acetone	ND		5.0	25
Benzene	ND		0.25	1.0
Bromodichloromethane	ND		0.25	1.0
Bromoform	ND		0.50	1.0
Bromomethane	ND		2.0	5.0
Carbon disulfide	ND		0.60	2.0
Carbon tetrachloride	ND		0.50	1.0
Chlorobenzene	ND		0.25	1.0
Chloroethane	ND		2.0	5.0
Chloroform	ND		0.14	1.0
Chloromethane	ND		0.33	1.0
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.11	1.0
Cyclohexane	ND		0.25	1.0
Dibromochloromethane	ND		0.10	1.0
Dichlorodifluoromethane	ND		0.25	1.0
Ethylbenzene	ND		0.11	1.0
Isopropylbenzene	ND		0.10	1.0
Methyl acetate	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.20	10
Methylcyclohexane	ND		0.10	1.0
Methylene Chloride	ND		1.0	5.0
Styrene	ND		0.11	1.0
Tetrachloroethene	ND		0.15	1.0
Toluene	ND		0.33	1.0
trans-1,2-Dichloroethene	ND		0.20	1.0
trans-1,3-Dichloropropene	ND		0.21	1.0
Trichloroethene	ND		0.13	1.0
Trichlorofluoromethane	ND		0.25	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20100

Lab Sample ID: 680-90076-3

Client Matrix: Water

Date Sampled: 05/07/2013 1220

Date Received: 05/08/2013 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277181	Instrument ID:	MSP
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	pe1836.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 1954			Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 1954				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.18	1.0
Xylenes, Total	ND		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20103

Lab Sample ID: 680-90076-4

Date Sampled: 05/07/2013 1536

Client Matrix: Water

Date Received: 05/08/2013 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277181	Instrument ID:	MSP
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	pe1838.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 2024			Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 2024				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.50	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	1.0
1,1,2-Trichloroethane	ND		0.13	1.0
1,1-Dichloroethane	ND		0.25	1.0
1,1-Dichloroethene	ND		0.11	1.0
1,2,4-Trichlorobenzene	ND		0.25	1.0
1,2-Dibromo-3-Chloropropane	ND		0.44	1.0
1,2-Dibromoethane	ND		0.25	1.0
1,2-Dichlorobenzene	ND		0.21	1.0
1,2-Dichloroethane	ND		0.10	1.0
1,2-Dichloropropane	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.25	1.0
1,4-Dichlorobenzene	ND		0.28	1.0
2-Butanone	ND		1.0	10
2-Hexanone	ND		1.0	10
4-Methyl-2-pentanone	ND		1.0	10
Acetone	ND		5.0	25
Benzene	ND		0.25	1.0
Bromodichloromethane	ND		0.25	1.0
Bromoform	ND		0.50	1.0
Bromomethane	ND		2.0	5.0
Carbon disulfide	ND		0.60	2.0
Carbon tetrachloride	ND		0.50	1.0
Chlorobenzene	ND		0.25	1.0
Chloroethane	ND		2.0	5.0
Chloroform	ND		0.14	1.0
Chloromethane	ND		0.33	1.0
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.11	1.0
Cyclohexane	ND		0.25	1.0
Dibromochloromethane	ND		0.10	1.0
Dichlorodifluoromethane	ND		0.25	1.0
Ethylbenzene	ND		0.11	1.0
Isopropylbenzene	ND		0.10	1.0
Methyl acetate	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.20	10
Methylcyclohexane	ND		0.10	1.0
Methylene Chloride	ND		1.0	5.0
Styrene	ND		0.11	1.0
Tetrachloroethene	ND		0.15	1.0
Toluene	ND		0.33	1.0
trans-1,2-Dichloroethene	ND		0.20	1.0
trans-1,3-Dichloropropene	ND		0.21	1.0
Trichloroethene	ND		0.13	1.0
Trichlorofluoromethane	ND		0.25	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20103

Lab Sample ID: 680-90076-4

Client Matrix: Water

Date Sampled: 05/07/2013 1536

Date Received: 05/08/2013 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277181	Instrument ID:	MSP
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	pe1838.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 2024			Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 2024				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.18	1.0
Xylenes, Total	ND		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	91		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20104

Lab Sample ID: 680-90076-5

Date Sampled: 05/07/2013 1610

Client Matrix: Water

Date Received: 05/08/2013 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277181	Instrument ID:	MSP
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	pe1840.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 2054			Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 2054				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.50	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	1.0
1,1,2-Trichloroethane	ND		0.13	1.0
1,1-Dichloroethane	ND		0.25	1.0
1,1-Dichloroethene	ND		0.11	1.0
1,2,4-Trichlorobenzene	ND		0.25	1.0
1,2-Dibromo-3-Chloropropane	ND		0.44	1.0
1,2-Dibromoethane	ND		0.25	1.0
1,2-Dichlorobenzene	ND		0.21	1.0
1,2-Dichloroethane	ND		0.10	1.0
1,2-Dichloropropane	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.25	1.0
1,4-Dichlorobenzene	ND		0.28	1.0
2-Butanone	ND		1.0	10
2-Hexanone	ND		1.0	10
4-Methyl-2-pentanone	ND		1.0	10
Acetone	11	J	5.0	25
Benzene	0.34	J	0.25	1.0
Bromodichloromethane	ND		0.25	1.0
Bromoform	ND		0.50	1.0
Bromomethane	ND		2.0	5.0
Carbon disulfide	ND		0.60	2.0
Carbon tetrachloride	ND		0.50	1.0
Chlorobenzene	ND		0.25	1.0
Chloroethane	ND		2.0	5.0
Chloroform	ND		0.14	1.0
Chloromethane	ND		0.33	1.0
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.11	1.0
Cyclohexane	ND		0.25	1.0
Dibromochloromethane	ND		0.10	1.0
Dichlorodifluoromethane	ND		0.25	1.0
Ethylbenzene	ND		0.11	1.0
Isopropylbenzene	ND		0.10	1.0
Methyl acetate	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.20	10
Methylcyclohexane	ND		0.10	1.0
Methylene Chloride	ND		1.0	5.0
Styrene	ND		0.11	1.0
Tetrachloroethene	ND		0.15	1.0
Toluene	ND		0.33	1.0
trans-1,2-Dichloroethene	ND		0.20	1.0
trans-1,3-Dichloropropene	ND		0.21	1.0
Trichloroethene	ND		0.13	1.0
Trichlorofluoromethane	ND		0.25	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20104

Lab Sample ID: 680-90076-5

Client Matrix: Water

Date Sampled: 05/07/2013 1610

Date Received: 05/08/2013 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277181	Instrument ID:	MSP
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	pe1840.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 2054			Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 2054				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.18	1.0
Xylenes, Total	ND		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM00023 (Trip Blank Lot 112012)

Lab Sample ID: 680-90076-6

Date Sampled: 05/07/2013 1702

Client Matrix: Water

Date Received: 05/08/2013 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277181	Instrument ID:	MSP
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	pe1830.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 1823			Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 1823				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.50	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	1.0
1,1,2-Trichloroethane	ND		0.13	1.0
1,1-Dichloroethane	ND		0.25	1.0
1,1-Dichloroethene	ND		0.11	1.0
1,2,4-Trichlorobenzene	ND		0.25	1.0
1,2-Dibromo-3-Chloropropane	ND		0.44	1.0
1,2-Dibromoethane	ND		0.25	1.0
1,2-Dichlorobenzene	ND		0.21	1.0
1,2-Dichloroethane	ND		0.10	1.0
1,2-Dichloropropane	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.25	1.0
1,4-Dichlorobenzene	ND		0.28	1.0
2-Butanone	ND		1.0	10
2-Hexanone	ND		1.0	10
4-Methyl-2-pentanone	ND		1.0	10
Acetone	ND		5.0	25
Benzene	ND		0.25	1.0
Bromodichloromethane	ND		0.25	1.0
Bromoform	ND		0.50	1.0
Bromomethane	ND		2.0	5.0
Carbon disulfide	ND		0.60	2.0
Carbon tetrachloride	ND		0.50	1.0
Chlorobenzene	ND		0.25	1.0
Chloroethane	ND		2.0	5.0
Chloroform	ND		0.14	1.0
Chloromethane	ND		0.33	1.0
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.11	1.0
Cyclohexane	ND		0.25	1.0
Dibromochloromethane	ND		0.10	1.0
Dichlorodifluoromethane	ND		0.25	1.0
Ethylbenzene	ND		0.11	1.0
Isopropylbenzene	ND		0.10	1.0
Methyl acetate	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.20	10
Methylcyclohexane	ND		0.10	1.0
Methylene Chloride	ND		1.0	5.0
Styrene	ND		0.11	1.0
Tetrachloroethene	ND		0.15	1.0
Toluene	ND		0.33	1.0
trans-1,2-Dichloroethene	ND		0.20	1.0
trans-1,3-Dichloropropene	ND		0.21	1.0
Trichloroethene	ND		0.13	1.0
Trichlorofluoromethane	ND		0.25	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM00023 (Trip Blank Lot 112012)

Lab Sample ID: 680-90076-6

Date Sampled: 05/07/2013 1702

Client Matrix: Water

Date Received: 05/08/2013 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277181	Instrument ID:	MSP
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	pe1830.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 1823			Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 1823				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.18	1.0
Xylenes, Total	ND		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20107

Lab Sample ID: 680-90076-1

Client Matrix: Water

Date Sampled: 05/07/2013 1405

Date Received: 05/08/2013 0945

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-55785	Instrument ID:	CH2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	05/21/2013 1344			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
Methane	ND		2.0	2.0
Ethane	ND		4.0	4.0
Ethylene	ND		3.0	3.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20105

Lab Sample ID: 680-90076-2

Date Sampled: 05/07/2013 1326

Client Matrix: Water

Date Received: 05/08/2013 0945

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-55785	Instrument ID:	CH2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	05/21/2013 1349			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
Methane	ND		2.0	2.0
Ethane	ND		4.0	4.0
Ethylene	ND		3.0	3.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20100

Lab Sample ID: 680-90076-3

Date Sampled: 05/07/2013 1220

Client Matrix: Water

Date Received: 05/08/2013 0945

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-55785	Instrument ID:	CH2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	05/21/2013 1354			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
Methane	ND		2.0	2.0
Ethane	ND		4.0	4.0
Ethylene	ND		3.0	3.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20103

Lab Sample ID: 680-90076-4

Client Matrix: Water

Date Sampled: 05/07/2013 1536

Date Received: 05/08/2013 0945

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-55785	Instrument ID:	CH2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	05/21/2013 1400			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
Methane	ND		2.0	2.0
Ethane	ND		4.0	4.0
Ethylene	ND		3.0	3.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20104

Lab Sample ID: 680-90076-5

Client Matrix: Water

Date Sampled: 05/07/2013 1610

Date Received: 05/08/2013 0945

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-55785	Instrument ID:	CH2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	05/21/2013 1405			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
Methane	ND		2.0	2.0
Ethane	ND		4.0	4.0
Ethylene	ND		3.0	3.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20107

Lab Sample ID: 680-90076-1

Client Matrix: Water

Date Sampled: 05/07/2013 1405

Date Received: 05/08/2013 0945

6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 680-277109

Instrument ID: ICPE

Prep Method: 3010A

Prep Batch: 680-276285

Lab File ID: E05162013AF.csv

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 05/16/2013 2059

Final Weight/Volume: 50 mL

Prep Date: 05/10/2013 1107

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	530		50	100
Sodium	2800		500	1000

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20100

Lab Sample ID: 680-90076-3

Client Matrix: Water

Date Sampled: 05/07/2013 1220

Date Received: 05/08/2013 0945

6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 680-277109

Instrument ID: ICPE

Prep Method: 3010A

Prep Batch: 680-276285

Lab File ID: E05162013AF.csv

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 05/16/2013 2115

Final Weight/Volume: 50 mL

Prep Date: 05/10/2013 1107

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	ND		50	100
Sodium	3600		500	1000

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20103

Lab Sample ID: 680-90076-4

Client Matrix: Water

Date Sampled: 05/07/2013 1536

Date Received: 05/08/2013 0945

6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 680-277109

Instrument ID: ICPE

Prep Method: 3010A

Prep Batch: 680-276285

Lab File ID: E05162013AF.csv

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 05/16/2013 2120

Final Weight/Volume: 50 mL

Prep Date: 05/10/2013 1107

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	4200		50	100
Sodium	8100		500	1000

Analytical Data

Client: Parsons Corporation

Job Number: 680-90076-1

Client Sample ID: 25LM20104

Lab Sample ID: 680-90076-5

Client Matrix: Water

Date Sampled: 05/07/2013 1610

Date Received: 05/08/2013 0945

6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 680-277109

Instrument ID: ICPE

Prep Method: 3010A

Prep Batch: 680-276285

Lab File ID: E05162013AF.csv

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 05/16/2013 2126

Final Weight/Volume: 50 mL

Prep Date: 05/10/2013 1107

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	3000		50	100
Sodium	34000		500	1000

Client: Parsons Corporation

Job Number: 680-90076-1

General Chemistry

Client Sample ID: 25LM20107

Lab Sample ID: 680-90076-1

Client Matrix: Water

Date Sampled: 05/07/2013 1405

Date Received: 05/08/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	ND		mg/L	1.0	5.0	5.0	300.0
	Analysis Batch: 680-277124			Analysis Date: 05/16/2013 1824			
Sulfate	9.5		mg/L	2.6	5.0	5.0	300.0
	Analysis Batch: 680-277124			Analysis Date: 05/16/2013 1824			
Nitrate as N	0.019	J	mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276026			Analysis Date: 05/08/2013 1626			
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276026			Analysis Date: 05/08/2013 1626			

Client: Parsons Corporation

Job Number: 680-90076-1

General Chemistry

Client Sample ID: 25LM20105

Lab Sample ID: 680-90076-2

Date Sampled: 05/07/2013 1326

Client Matrix: Water

Date Received: 05/08/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.026	J	mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276026	Analysis Date: 05/08/2013 1640					
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276026	Analysis Date: 05/08/2013 1640					

Client: Parsons Corporation

Job Number: 680-90076-1

General Chemistry

Client Sample ID: 25LM20100

Lab Sample ID: 680-90076-3

Client Matrix: Water

Date Sampled: 05/07/2013 1220

Date Received: 05/08/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	ND		mg/L	1.0	5.0	5.0	300.0
	Analysis Batch: 680-277124	Analysis Date: 05/16/2013 1836					
Sulfate	29		mg/L	2.6	5.0	5.0	300.0
	Analysis Batch: 680-277124	Analysis Date: 05/16/2013 1836					
Nitrate as N	0.13		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276026	Analysis Date: 05/08/2013 1629					
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276026	Analysis Date: 05/08/2013 1629					

Client: Parsons Corporation

Job Number: 680-90076-1

General Chemistry

Client Sample ID: 25LM20103

Lab Sample ID: 680-90076-4

Client Matrix: Water

Date Sampled: 05/07/2013 1536

Date Received: 05/08/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	ND		mg/L	1.0	5.0	5.0	300.0
	Analysis Batch: 680-277124			Analysis Date: 05/16/2013 1849			
Sulfate	12		mg/L	2.6	5.0	5.0	300.0
	Analysis Batch: 680-277124			Analysis Date: 05/16/2013 1849			
Nitrate as N	0.041	J	mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276026			Analysis Date: 05/08/2013 1632			
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276026			Analysis Date: 05/08/2013 1632			

Client: Parsons Corporation

Job Number: 680-90076-1

General Chemistry

Client Sample ID: 25LM20104

Lab Sample ID: 680-90076-5

Date Sampled: 05/07/2013 1610

Client Matrix: Water

Date Received: 05/08/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	ND		mg/L	1.0	5.0	5.0	300.0
	Analysis Batch: 680-277124	Analysis Date: 05/16/2013 1901					
Sulfate	28		mg/L	2.6	5.0	5.0	300.0
	Analysis Batch: 680-277124	Analysis Date: 05/16/2013 1901					
Nitrate as N	0.033	J	mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276026	Analysis Date: 05/08/2013 1630					
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276026	Analysis Date: 05/08/2013 1630					

Client: Parsons Corporation

Job Number: 680-90076-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	TOL %Rec	BFB %Rec
680-90076-1	25LM20107	97	101	90
680-90076-2	25LM20105	97	100	92
680-90076-3	25LM20100	96	101	92
680-90076-4	25LM20103	96	101	91
680-90076-5	25LM20104	98	100	93
680-90076-6	25LM00023 (Trip Blank Lot 112012)	96	100	90
MB 680-277181/7		99	99	94
LCS 680-277181/4		98	107	103
LCSD 680-277181/5		101	108	103

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

Method Blank - Batch: 680-277181

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

Lab Sample ID: MB 680-277181/7
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/18/2013 1451
 Prep Date: 05/18/2013 1451
 Leach Date: N/A

Analysis Batch: 680-277181
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: MSP
 Lab File ID: pe1816q.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.50	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	1.0
1,1,2-Trichloroethane	ND		0.13	1.0
1,1-Dichloroethane	ND		0.25	1.0
1,1-Dichloroethene	ND		0.11	1.0
1,2,4-Trichlorobenzene	ND		0.25	1.0
1,2-Dibromo-3-Chloropropane	ND		0.44	1.0
1,2-Dibromoethane	ND		0.25	1.0
1,2-Dichlorobenzene	ND		0.21	1.0
1,2-Dichloroethane	ND		0.10	1.0
1,2-Dichloropropane	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.25	1.0
1,4-Dichlorobenzene	ND		0.28	1.0
2-Butanone	ND		1.0	10
2-Hexanone	ND		1.0	10
4-Methyl-2-pentanone	ND		1.0	10
Acetone	ND		5.0	25
Benzene	ND		0.25	1.0
Bromodichloromethane	ND		0.25	1.0
Bromoform	ND		0.50	1.0
Bromomethane	ND		2.0	5.0
Carbon disulfide	ND		0.60	2.0
Carbon tetrachloride	ND		0.50	1.0
Chlorobenzene	ND		0.25	1.0
Chloroethane	ND		2.0	5.0
Chloroform	ND		0.14	1.0
Chloromethane	ND		0.33	1.0
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.11	1.0
Cyclohexane	ND		0.25	1.0
Dibromochloromethane	ND		0.10	1.0
Dichlorodifluoromethane	ND		0.25	1.0
Ethylbenzene	ND		0.11	1.0
Isopropylbenzene	ND		0.10	1.0
Methyl acetate	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.20	10
Methylcyclohexane	ND		0.10	1.0
Methylene Chloride	ND		1.0	5.0
Styrene	ND		0.11	1.0
Tetrachloroethene	ND		0.15	1.0
Toluene	ND		0.33	1.0
trans-1,2-Dichloroethene	ND		0.20	1.0
trans-1,3-Dichloropropene	ND		0.21	1.0
Trichloroethene	ND		0.13	1.0

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

Method Blank - Batch: 680-277181

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

Lab Sample ID: MB 680-277181/7
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/18/2013 1451
 Prep Date: 05/18/2013 1451
 Leach Date: N/A

Analysis Batch: 680-277181
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: MSP
 Lab File ID: pe1816q.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.25	1.0
Vinyl chloride	ND		0.18	1.0
Xylenes, Total	ND		0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	94	70 - 130
Dibromofluoromethane	99	70 - 130
Toluene-d8 (Surr)	99	70 - 130

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-277181**

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

LCS Lab Sample ID:	LCS 680-277181/4	Analysis Batch:	680-277181	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pe1806q.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 1219	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 1219				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 680-277181/5	Analysis Batch:	680-277181	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pe1808q.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 1249	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 1249				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1,1-Trichloroethane	114	112	76 - 126	2	30		
1,1,2,2-Tetrachloroethane	105	104	71 - 127	1	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	101	100	72 - 139	1	30		
1,1,2-Trichloroethane	113	113	69 - 127	0	30		
1,1-Dichloroethane	95	97	69 - 132	2	30		
1,1-Dichloroethene	100	102	73 - 134	3	30		
1,2,4-Trichlorobenzene	106	104	67 - 134	2	30		
1,2-Dibromo-3-Chloropropane	114	114	57 - 126	0	50		
1,2-Dibromoethane	110	109	75 - 127	1	30		
1,2-Dichlorobenzene	102	101	77 - 124	1	30		
1,2-Dichloroethane	112	110	75 - 120	2	30		
1,2-Dichloropropane	98	96	71 - 126	2	30		
1,3-Dichlorobenzene	102	101	79 - 123	1	30		
1,4-Dichlorobenzene	102	100	76 - 124	1	30		
2-Butanone	107	110	55 - 142	3	30		
2-Hexanone	111	110	52 - 149	1	30		
4-Methyl-2-pentanone	122	121	51 - 143	0	30		
Acetone	97	100	39 - 162	3	50		
Benzene	107	107	74 - 123	1	30		
Bromodichloromethane	114	113	72 - 129	1	30		
Bromoform	97	96	60 - 134	1	30		
Bromomethane	83	61	10 - 171	31	50		
Carbon disulfide	111	112	63 - 142	1	30		
Carbon tetrachloride	122	120	70 - 131	2	30		
Chlorobenzene	101	101	79 - 120	0	30		
Chloroethane	89	86	47 - 148	3	40		
Chloroform	98	101	76 - 128	3	30		
Chloromethane	91	95	47 - 151	4	30		
cis-1,2-Dichloroethene	95	97	78 - 127	2	30		
cis-1,3-Dichloropropene	101	99	73 - 128	1	30		
Cyclohexane	127	123	68 - 137	3	30		
Dibromochloromethane	109	109	63 - 134	0	50		
Dichlorodifluoromethane	119	114	41 - 165	4	50		
Ethylbenzene	103	101	78 - 125	1	30		
Isopropylbenzene	112	111	72 - 129	1	30		
Methyl acetate	102	104	26 - 182	2	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-277181**

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

LCS Lab Sample ID:	LCS 680-277181/4	Analysis Batch:	680-277181	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pe1806q.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 1219	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 1219				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 680-277181/5	Analysis Batch:	680-277181	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pe1808q.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	05/18/2013 1249	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	05/18/2013 1249				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	102	105	76 - 126	3	30		
Methylcyclohexane	117	114	72 - 133	2	30		
Methylene Chloride	102	104	79 - 124	1	30		
Styrene	103	104	75 - 129	0	30		
Tetrachloroethene	102	101	77 - 128	2	30		
Toluene	105	105	77 - 125	0	30		
trans-1,2-Dichloroethene	100	100	78 - 130	0	30		
trans-1,3-Dichloropropene	103	104	72 - 127	0	50		
Trichloroethene	102	102	80 - 120	0	30		
Trichlorofluoromethane	96	101	66 - 144	5	30		
Vinyl chloride	90	92	58 - 141	2	30		
Xylenes, Total	101	101	80 - 124	1	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	103		103		70 - 130		
Dibromofluoromethane	98		101		70 - 130		
Toluene-d8 (Surr)	107		108		70 - 130		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-277181**

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

LCS Lab Sample ID: LCS 680-277181/4 Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/18/2013 1219
 Prep Date: 05/18/2013 1219
 Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-277181/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/18/2013 1249
 Prep Date: 05/18/2013 1249
 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	56.8	55.8
1,1,2,2-Tetrachloroethane	50.0	50.0	52.4	51.8
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.0	50.5	50.1
1,1,2-Trichloroethane	50.0	50.0	56.3	56.3
1,1-Dichloroethane	50.0	50.0	47.5	48.5
1,1-Dichloroethene	50.0	50.0	49.8	51.2
1,2,4-Trichlorobenzene	50.0	50.0	53.2	52.2
1,2-Dibromo-3-Chloropropane	50.0	50.0	57.0	57.0
1,2-Dibromoethane	50.0	50.0	55.0	54.3
1,2-Dichlorobenzene	50.0	50.0	51.1	50.3
1,2-Dichloroethane	50.0	50.0	56.1	54.8
1,2-Dichloropropane	50.0	50.0	48.9	48.0
1,3-Dichlorobenzene	50.0	50.0	51.2	50.4
1,4-Dichlorobenzene	50.0	50.0	50.8	50.1
2-Butanone	100	100	107	110
2-Hexanone	100	100	111	110
4-Methyl-2-pentanone	100	100	122	121
Acetone	100	100	97.1	100
Benzene	50.0	50.0	53.6	53.3
Bromodichloromethane	50.0	50.0	57.1	56.6
Bromoform	50.0	50.0	48.4	47.9
Bromomethane	50.0	50.0	41.5	30.3
Carbon disulfide	50.0	50.0	55.3	56.1
Carbon tetrachloride	50.0	50.0	61.1	59.8
Chlorobenzene	50.0	50.0	50.6	50.7
Chloroethane	50.0	50.0	44.3	43.0
Chloroform	50.0	50.0	49.1	50.6
Chloromethane	50.0	50.0	45.7	47.6
cis-1,2-Dichloroethene	50.0	50.0	47.5	48.5
cis-1,3-Dichloropropene	50.0	50.0	50.3	49.7
Cyclohexane	50.0	50.0	63.5	61.4
Dibromochloromethane	50.0	50.0	54.7	54.6
Dichlorodifluoromethane	50.0	50.0	59.5	57.2
Ethylbenzene	50.0	50.0	51.3	50.6
Isopropylbenzene	50.0	50.0	56.0	55.6
Methyl acetate	50.0	50.0	51.0	52.2
Methyl tert-butyl ether	100	100	102	105
Methylcyclohexane	50.0	50.0	58.3	57.1
Methylene Chloride	50.0	50.0	51.2	51.9

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-277181**

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

LCS Lab Sample ID: LCS 680-277181/4 Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/18/2013 1219
 Prep Date: 05/18/2013 1219
 Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-277181/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/18/2013 1249
 Prep Date: 05/18/2013 1249
 Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Styrene	50.0	50.0	51.7	51.8
Tetrachloroethene	50.0	50.0	51.2	50.3
Toluene	50.0	50.0	52.5	52.4
trans-1,2-Dichloroethene	50.0	50.0	50.0	50.0
trans-1,3-Dichloropropene	50.0	50.0	51.5	51.8
Trichloroethene	50.0	50.0	51.0	50.9
Trichlorofluoromethane	50.0	50.0	48.2	50.4
Vinyl chloride	50.0	50.0	45.0	46.0
Xylenes, Total	150	150	152	151

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

Method Blank - Batch: 200-55785

Method: RSK-175

Preparation: N/A

Lab Sample ID: MB 200-55785/26
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/21/2013 1233
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-55785
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CH2866.i
 Lab File ID: MECAR004.D
 Initial Weight/Volume: 18 mL
 Final Weight/Volume: 18 mL
 Injection Volume:
 Column ID: PRIMARY

Analyte	Result	Qual	RL	RL
Methane	ND		2.0	2.0
Ethane	ND		4.0	4.0
Ethylene	ND		3.0	3.0

Lab Control Sample - Batch: 200-55785

Method: RSK-175

Preparation: N/A

Lab Sample ID: LCS 200-55785/3
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/21/2013 1222
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-55785
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CH2866.i
 Lab File ID: MECAR003.D
 Initial Weight/Volume: 18 mL
 Final Weight/Volume: 18 mL
 Injection Volume:
 Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Methane	72.4	69.7	96	70 - 130	
Ethane	137	130	95	70 - 130	
Ethylene	128	123	96	70 - 130	

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

Method Blank - Batch: 680-276285

Lab Sample ID: MB 680-276285/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/16/2013 2026
 Prep Date: 05/10/2013 1107
 Leach Date: N/A

Analysis Batch: 680-277109
 Prep Batch: 680-276285
 Leach Batch: N/A
 Units: ug/L

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

Instrument ID: ICPE
 Lab File ID: E05162013AF.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: 680-276285

Lab Sample ID: LCS 680-276285/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/16/2013 2032
 Prep Date: 05/10/2013 1107
 Leach Date: N/A

Analysis Batch: 680-277109
 Prep Batch: 680-276285
 Leach Batch: N/A
 Units: ug/L

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

Instrument ID: ICPE
 Lab File ID: E05162013AF.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	5000	4740	95	75 - 125	
Sodium	5000	4620	92	75 - 125	

**Matrix Spike/
 Matrix Spike Duplicate Recovery Report - Batch: 680-276285**

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

MS Lab Sample ID: 680-90039-B-9-B MS
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/16/2013 2042
 Prep Date: 05/10/2013 1107
 Leach Date: N/A

Analysis Batch: 680-277109
 Prep Batch: 680-276285
 Leach Batch: N/A

Instrument ID: ICPE
 Lab File ID: E05162013AF.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 680-90039-B-9-C MSD
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/16/2013 2048
 Prep Date: 05/10/2013 1107
 Leach Date: N/A

Analysis Batch: 680-277109
 Prep Batch: 680-276285
 Leach Batch: N/A

Instrument ID: ICPE
 Lab File ID: E05162013AF.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Iron	100	96	75 - 125	4	20		
Sodium	101	90	75 - 125	2	20	4	4

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-276285**

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

MS Lab Sample ID: 680-90039-B-9-B MS Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/16/2013 2042
 Prep Date: 05/10/2013 1107
 Leach Date: N/A

MSD Lab Sample ID: 680-90039-B-9-C MSD
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/16/2013 2048
 Prep Date: 05/10/2013 1107
 Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	51 J	5000	5000	5070	4850
Sodium	24000	5000	5000	28900 4	28400 4

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

Method Blank - Batch: 680-277124

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 680-277124/2	Analysis Batch:	680-277124	Instrument ID:	ICG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0018.d
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	05/16/2013 1511	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride	ND		1.0	5.0
Sulfate	ND		2.6	5.0

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-277124**

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 680-277124/3	Analysis Batch:	680-277124	Instrument ID:	ICG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0019.d
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	05/16/2013 1657	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 680-277124/4	Analysis Batch:	680-277124	Instrument ID:	ICG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0020.d
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	05/16/2013 1709	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				1 uL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Chloride	95	96	90 - 110	0	30		
Sulfate	99	101	90 - 110	1	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-277124**

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

LCS Lab Sample ID: LCS 680-277124/3 Units: mg/L
 Client Matrix: Water
 Dilution: 5.0
 Analysis Date: 05/16/2013 1657
 Prep Date: N/A
 Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-277124/4
 Client Matrix: Water
 Dilution: 5.0
 Analysis Date: 05/16/2013 1709
 Prep Date: N/A
 Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	50.0	50.0	47.7	47.8
Sulfate	50.0	50.0	49.7	50.4

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277124**

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

MS Lab Sample ID: 640-43553-D-1 MS
 Client Matrix: Water
 Dilution: 5.0
 Analysis Date: 05/16/2013 1734
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-277124
 Prep Batch: N/A
 Leach Batch: N/A

Instrument ID: ICG
 Lab File ID: 0022.d
 Initial Weight/Volume: 1 mL
 Final Weight/Volume: 5 mL
 1 uL

MSD Lab Sample ID: 640-43553-D-1 MSD
 Client Matrix: Water
 Dilution: 5.0
 Analysis Date: 05/16/2013 1747
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-277124
 Prep Batch: N/A
 Leach Batch: N/A

Instrument ID: ICG
 Lab File ID: 0023.d
 Initial Weight/Volume: 1 mL
 Final Weight/Volume: 5 mL
 1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chloride	99	98	90 - 110	0	30		
Sulfate	97	96	90 - 110	0	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277124**

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

MS Lab Sample ID: 640-43553-D-1 MS Units: mg/L
Client Matrix: Water
Dilution: 5.0
Analysis Date: 05/16/2013 1734
Prep Date: N/A
Leach Date: N/A

MSD Lab Sample ID: 640-43553-D-1 MSD
Client Matrix: Water
Dilution: 5.0
Analysis Date: 05/16/2013 1747
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	8.9	50.0	50.0	58.3	58.0
Sulfate	6.7	50.0	50.0	55.1	54.9

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

Method Blank - Batch: 680-276026

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 680-276026/13
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/08/2013 1623
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 680-276026
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: LACHAT2
Lab File ID: OM_5-8-2013_16-01-2
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

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: 680-276026

Method: 353.2
Preparation: N/A

Lab Sample ID: LCS 680-276026/14
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/08/2013 1624
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 680-276026
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: LACHAT2
Lab File ID: OM_5-8-2013_16-01-2
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N	0.500	0.496	99	90 - 110	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-276026**

Method: 353.2
Preparation: N/A

MS Lab Sample ID: 680-90076-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/08/2013 1627
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 680-276026
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: LACHAT2
Lab File ID: OM_5-8-2013_16-01-2
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

MSD Lab Sample ID: 680-90076-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/08/2013 1628
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 680-276026
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: LACHAT2
Lab File ID: OM_5-8-2013_16-01-2
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrite as N	102	102	90 - 110	0	10		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-276026**

**Method: 353.2
Preparation: N/A**

MS Lab Sample ID: 680-90076-1 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/08/2013 1627
Prep Date: N/A
Leach Date: N/A

MSD Lab Sample ID: 680-90076-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/08/2013 1628
Prep Date: N/A
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrite as N	ND	0.500	0.500	0.508	0.509

DATA REPORTING QUALIFIERS

Client: Parsons Corporation

Job Number: 680-90076-1

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.
Metals	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	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: 680-90076-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-277181					
LCS 680-277181/4	Lab Control Sample	T	Water	8260B	
LCSD 680-277181/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-277181/7	Method Blank	T	Water	8260B	
680-90076-1	25LM20107	T	Water	8260B	
680-90076-2	25LM20105	T	Water	8260B	
680-90076-3	25LM20100	T	Water	8260B	
680-90076-4	25LM20103	T	Water	8260B	
680-90076-5	25LM20104	T	Water	8260B	
680-90076-6	25LM00023 (Trip Blank Lot 112012)	T	Water	8260B	

Report Basis

T = Total

GC VOA

Analysis Batch:200-55785					
LCS 200-55785/3	Lab Control Sample	T	Water	RSK-175	
MB 200-55785/26	Method Blank	T	Water	RSK-175	
680-90076-1	25LM20107	T	Water	RSK-175	
680-90076-2	25LM20105	T	Water	RSK-175	
680-90076-3	25LM20100	T	Water	RSK-175	
680-90076-4	25LM20103	T	Water	RSK-175	
680-90076-5	25LM20104	T	Water	RSK-175	

Report Basis

T = Total

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-276285					
LCS 680-276285/2-A	Lab Control Sample	T	Water	3010A	
MB 680-276285/1-A	Method Blank	T	Water	3010A	
680-90039-B-9-B MS	Matrix Spike	T	Water	3010A	
680-90039-B-9-C MSD	Matrix Spike Duplicate	T	Water	3010A	
680-90076-1	25LM20107	T	Water	3010A	
680-90076-3	25LM20100	T	Water	3010A	
680-90076-4	25LM20103	T	Water	3010A	
680-90076-5	25LM20104	T	Water	3010A	
Analysis Batch:680-277109					
LCS 680-276285/2-A	Lab Control Sample	T	Water	6010C	680-276285
MB 680-276285/1-A	Method Blank	T	Water	6010C	680-276285
680-90039-B-9-B MS	Matrix Spike	T	Water	6010C	680-276285
680-90039-B-9-C MSD	Matrix Spike Duplicate	T	Water	6010C	680-276285
680-90076-1	25LM20107	T	Water	6010C	680-276285
680-90076-3	25LM20100	T	Water	6010C	680-276285
680-90076-4	25LM20103	T	Water	6010C	680-276285
680-90076-5	25LM20104	T	Water	6010C	680-276285

Report Basis

T = Total

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:680-276026					
LCS 680-276026/14	Lab Control Sample	T	Water	353.2	
MB 680-276026/13	Method Blank	T	Water	353.2	
680-90076-1	25LM20107	T	Water	353.2	
680-90076-1MS	Matrix Spike	T	Water	353.2	
680-90076-1MSD	Matrix Spike Duplicate	T	Water	353.2	
680-90076-2	25LM20105	T	Water	353.2	
680-90076-3	25LM20100	T	Water	353.2	
680-90076-4	25LM20103	T	Water	353.2	
680-90076-5	25LM20104	T	Water	353.2	
Analysis Batch:680-277124					
LCS 680-277124/3	Lab Control Sample	T	Water	300.0	
LCSD 680-277124/4	Lab Control Sample Duplicate	T	Water	300.0	
MB 680-277124/2	Method Blank	T	Water	300.0	
640-43553-D-1 MS	Matrix Spike	T	Water	300.0	
640-43553-D-1 MSD	Matrix Spike Duplicate	T	Water	300.0	
680-90076-1	25LM20107	T	Water	300.0	
680-90076-3	25LM20100	T	Water	300.0	
680-90076-4	25LM20103	T	Water	300.0	
680-90076-5	25LM20104	T	Water	300.0	

Report Basis

T = Total

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

Laboratory Chronicle

Lab ID: 680-90076-1

Client ID: 25LM20107

Sample Date/Time: 05/07/2013 14:05

Received Date/Time: 05/08/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-90076-D-1		680-277181		05/18/2013 18:53	1	TAL SAV	AJMc
A:8260B	680-90076-D-1		680-277181		05/18/2013 18:53	1	TAL SAV	AJMc
A:RSK-175	680-90076-D-1		200-55785		05/21/2013 13:44	1	TAL BUR	NA
P:3010A	680-90076-A-1-A		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	680-90076-A-1-A		680-277109	680-276285	05/16/2013 20:59	1	TAL SAV	BCB
A:300.0	680-90076-B-1		680-277124		05/16/2013 18:24	5	TAL SAV	PAT
A:353.2	680-90076-B-1		680-276026		05/08/2013 16:26	1	TAL SAV	RW

Lab ID: 680-90076-1 MS

Client ID: 25LM20107

Sample Date/Time: 05/07/2013 14:05

Received Date/Time: 05/08/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:353.2	680-90076-B-1 MS		680-276026		05/08/2013 16:27	1	TAL SAV	RW

Lab ID: 680-90076-1 MSD

Client ID: 25LM20107

Sample Date/Time: 05/07/2013 14:05

Received Date/Time: 05/08/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:353.2	680-90076-B-1 MSD		680-276026		05/08/2013 16:28	1	TAL SAV	RW

Lab ID: 680-90076-2

Client ID: 25LM20105

Sample Date/Time: 05/07/2013 13:26

Received Date/Time: 05/08/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-90076-B-2		680-277181		05/18/2013 19:23	1	TAL SAV	AJMc
A:8260B	680-90076-B-2		680-277181		05/18/2013 19:23	1	TAL SAV	AJMc
A:RSK-175	680-90076-B-2		200-55785		05/21/2013 13:49	1	TAL BUR	NA
A:353.2	680-90076-E-2		680-276026		05/08/2013 16:40	1	TAL SAV	RW

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

Laboratory Chronicle

Lab ID: 680-90076-3

Client ID: 25LM20100

Sample Date/Time: 05/07/2013 12:20

Received Date/Time: 05/08/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-90076-D-3		680-277181		05/18/2013 19:54	1	TAL SAV	AJMc
A:8260B	680-90076-D-3		680-277181		05/18/2013 19:54	1	TAL SAV	AJMc
A:RSK-175	680-90076-D-3		200-55785		05/21/2013 13:54	1	TAL BUR	NA
P:3010A	680-90076-A-3-A		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	680-90076-A-3-A		680-277109	680-276285	05/16/2013 21:15	1	TAL SAV	BCB
A:300.0	680-90076-B-3		680-277124		05/16/2013 18:36	5	TAL SAV	PAT
A:353.2	680-90076-B-3		680-276026		05/08/2013 16:29	1	TAL SAV	RW

Lab ID: 680-90076-4

Client ID: 25LM20103

Sample Date/Time: 05/07/2013 15:36

Received Date/Time: 05/08/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-90076-D-4		680-277181		05/18/2013 20:24	1	TAL SAV	AJMc
A:8260B	680-90076-D-4		680-277181		05/18/2013 20:24	1	TAL SAV	AJMc
A:RSK-175	680-90076-D-4		200-55785		05/21/2013 14:00	1	TAL BUR	NA
P:3010A	680-90076-A-4-A		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	680-90076-A-4-A		680-277109	680-276285	05/16/2013 21:20	1	TAL SAV	BCB
A:300.0	680-90076-B-4		680-277124		05/16/2013 18:49	5	TAL SAV	PAT
A:353.2	680-90076-B-4		680-276026		05/08/2013 16:32	1	TAL SAV	RW

Lab ID: 680-90076-5

Client ID: 25LM20104

Sample Date/Time: 05/07/2013 16:10

Received Date/Time: 05/08/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-90076-D-5		680-277181		05/18/2013 20:54	1	TAL SAV	AJMc
A:8260B	680-90076-D-5		680-277181		05/18/2013 20:54	1	TAL SAV	AJMc
A:RSK-175	680-90076-D-5		200-55785		05/21/2013 14:05	1	TAL BUR	NA
P:3010A	680-90076-A-5-A		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	680-90076-A-5-A		680-277109	680-276285	05/16/2013 21:26	1	TAL SAV	BCB
A:300.0	680-90076-B-5		680-277124		05/16/2013 19:01	5	TAL SAV	PAT
A:353.2	680-90076-B-5		680-276026		05/08/2013 16:30	1	TAL SAV	RW

Lab ID: 680-90076-6

Client ID: 25LM00023 (Trip Blank Lot 112012)

Sample Date/Time: 05/07/2013 17:02

Received Date/Time: 05/08/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-90076-A-6		680-277181		05/18/2013 18:23	1	TAL SAV	AJMc
A:8260B	680-90076-A-6		680-277181		05/18/2013 18:23	1	TAL SAV	AJMc

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

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 680-277181/7		680-277181		05/18/2013 14:51	1	TAL SAV	AJMc
A:8260B	MB 680-277181/7		680-277181		05/18/2013 14:51	1	TAL SAV	AJMc
A:RSK-175	MB 200-55785/26		200-55785		05/21/2013 12:33	1	TAL BUR	NA
P:3010A	MB 680-276285/1-A		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	MB 680-276285/1-A		680-277109	680-276285	05/16/2013 20:26	1	TAL SAV	BCB
A:300.0	MB 680-277124/2		680-277124		05/16/2013 15:11	5	TAL SAV	PAT
A:353.2	MB 680-276026/13		680-276026		05/08/2013 16:23	1	TAL SAV	RW

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 680-277181/4		680-277181		05/18/2013 12:19	1	TAL SAV	AJMc
A:8260B	LCS 680-277181/4		680-277181		05/18/2013 12:19	1	TAL SAV	AJMc
A:RSK-175	LCS 200-55785/3		200-55785		05/21/2013 12:22	1	TAL BUR	NA
P:3010A	LCS 680-276285/2-A		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	LCS 680-276285/2-A		680-277109	680-276285	05/16/2013 20:32	1	TAL SAV	BCB
A:300.0	LCS 680-277124/3		680-277124		05/16/2013 16:57	5	TAL SAV	PAT
A:353.2	LCS 680-276026/14		680-276026		05/08/2013 16:24	1	TAL SAV	RW

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 680-277181/5		680-277181		05/18/2013 12:49	1	TAL SAV	AJMc
A:8260B	LCSD 680-277181/5		680-277181		05/18/2013 12:49	1	TAL SAV	AJMc
A:300.0	LCSD 680-277124/4		680-277124		05/16/2013 17:09	5	TAL SAV	PAT

Lab ID: MS

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:3010A	680-90039-B-9-B MS		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	680-90039-B-9-B MS		680-277109	680-276285	05/16/2013 20:42	1	TAL SAV	BCB
A:300.0	640-43553-D-1 MS		680-277124		05/16/2013 17:34	5	TAL SAV	PAT

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90076-1

Laboratory Chronicle

Lab ID: MSD

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:3010A	680-90039-B-9-C MSD		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	680-90039-B-9-C MSD		680-277109	680-276285	05/16/2013 20:48	1	TAL SAV	BCB
A:300.0	640-43553-D-1 MSD		680-277124		05/16/2013 17:47	5	TAL SAV	PAT

Lab References:

TAL BUR = TestAmerica Burlington

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.: 680-90076-1

SDG No.: _____

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
25LM20107	680-90076-1	97	101	90
25LM20105	680-90076-2	97	100	92
25LM20100	680-90076-3	96	101	92
25LM20103	680-90076-4	96	101	91
25LM20104	680-90076-5	98	100	93
25LM00023 (Trip Blank Lot 112012)	680-90076-6	96	100	90
	MB 680-277181/7	99	99	94
	LCS 680-277181/4	98	107	103
	LCSD 680-277181/5	101	108	103

DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene

QC LIMITS
70-130
70-130
70-130

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: pe1806q.d
 Lab ID: LCS 680-277181/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	56.8	114	76-126	
1,1,2,2-Tetrachloroethane	50.0	52.4	105	71-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.5	101	72-139	
1,1,2-Trichloroethane	50.0	56.3	113	69-127	
1,1-Dichloroethane	50.0	47.5	95	69-132	
1,1-Dichloroethene	50.0	49.8	100	73-134	
1,2,4-Trichlorobenzene	50.0	53.2	106	67-134	
1,2-Dibromo-3-Chloropropane	50.0	57.0	114	57-126	
1,2-Dibromoethane	50.0	55.0	110	75-127	
1,2-Dichlorobenzene	50.0	51.1	102	77-124	
1,2-Dichloroethane	50.0	56.1	112	75-120	
1,2-Dichloropropane	50.0	48.9	98	71-126	
1,3-Dichlorobenzene	50.0	51.2	102	79-123	
1,4-Dichlorobenzene	50.0	50.8	102	76-124	
2-Butanone	100	107	107	55-142	
2-Hexanone	100	111	111	52-149	
4-Methyl-2-pentanone	100	122	122	51-143	
Acetone	100	97.1	97	39-162	
Benzene	50.0	53.6	107	74-123	
Bromodichloromethane	50.0	57.1	114	72-129	
Bromoform	50.0	48.4	97	60-134	
Bromomethane	50.0	41.5	83	10-171	
Carbon disulfide	50.0	55.3	111	63-142	
Carbon tetrachloride	50.0	61.1	122	70-131	
Chlorobenzene	50.0	50.6	101	79-120	
Chloroethane	50.0	44.3	89	47-148	
Chloroform	50.0	49.1	98	76-128	
Chloromethane	50.0	45.7	91	47-151	
cis-1,2-Dichloroethene	50.0	47.5	95	78-127	
cis-1,3-Dichloropropene	50.0	50.3	101	73-128	
Cyclohexane	50.0	63.5	127	68-137	
Dibromochloromethane	50.0	54.7	109	63-134	
Dichlorodifluoromethane	50.0	59.5	119	41-165	
Ethylbenzene	50.0	51.3	103	78-125	
Isopropylbenzene	50.0	56.0	112	72-129	
Methyl acetate	50.0	51.0	102	26-182	
Methyl tert-butyl ether	100	102	102	76-126	
Methylcyclohexane	50.0	58.3	117	72-133	
Methylene Chloride	50.0	51.2	102	79-124	
Styrene	50.0	51.7	103	75-129	
Tetrachloroethene	50.0	51.2	102	77-128	

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.: 680-90076-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: pe1806q.d
 Lab ID: LCS 680-277181/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	50.0	52.5	105	77-125	
trans-1,2-Dichloroethene	50.0	50.0	100	78-130	
trans-1,3-Dichloropropene	50.0	51.5	103	72-127	
Trichloroethene	50.0	51.0	102	80-120	
Trichlorofluoromethane	50.0	48.2	96	66-144	
Vinyl chloride	50.0	45.0	90	58-141	
Xylenes, Total	150	152	101	80-124	

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.: 680-90076-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: pe1808q.d

Lab ID: LCSD 680-277181/5

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	50.0	55.8	112	2	30	76-126	
1,1,2,2-Tetrachloroethane	50.0	51.8	104	1	30	71-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.1	100	1	30	72-139	
1,1,2-Trichloroethane	50.0	56.3	113	0	30	69-127	
1,1-Dichloroethane	50.0	48.5	97	2	30	69-132	
1,1-Dichloroethene	50.0	51.2	102	3	30	73-134	
1,2,4-Trichlorobenzene	50.0	52.2	104	2	30	67-134	
1,2-Dibromo-3-Chloropropane	50.0	57.0	114	0	50	57-126	
1,2-Dibromoethane	50.0	54.3	109	1	30	75-127	
1,2-Dichlorobenzene	50.0	50.3	101	1	30	77-124	
1,2-Dichloroethane	50.0	54.8	110	2	30	75-120	
1,2-Dichloropropane	50.0	48.0	96	2	30	71-126	
1,3-Dichlorobenzene	50.0	50.4	101	1	30	79-123	
1,4-Dichlorobenzene	50.0	50.1	100	1	30	76-124	
2-Butanone	100	110	110	3	30	55-142	
2-Hexanone	100	110	110	1	30	52-149	
4-Methyl-2-pentanone	100	121	121	0	30	51-143	
Acetone	100	100	100	3	50	39-162	
Benzene	50.0	53.3	107	1	30	74-123	
Bromodichloromethane	50.0	56.6	113	1	30	72-129	
Bromoform	50.0	47.9	96	1	30	60-134	
Bromomethane	50.0	30.3	61	31	50	10-171	
Carbon disulfide	50.0	56.1	112	1	30	63-142	
Carbon tetrachloride	50.0	59.8	120	2	30	70-131	
Chlorobenzene	50.0	50.7	101	0	30	79-120	
Chloroethane	50.0	43.0	86	3	40	47-148	
Chloroform	50.0	50.6	101	3	30	76-128	
Chloromethane	50.0	47.6	95	4	30	47-151	
cis-1,2-Dichloroethene	50.0	48.5	97	2	30	78-127	
cis-1,3-Dichloropropene	50.0	49.7	99	1	30	73-128	
Cyclohexane	50.0	61.4	123	3	30	68-137	
Dibromochloromethane	50.0	54.6	109	0	50	63-134	
Dichlorodifluoromethane	50.0	57.2	114	4	50	41-165	
Ethylbenzene	50.0	50.6	101	1	30	78-125	
Isopropylbenzene	50.0	55.6	111	1	30	72-129	
Methyl acetate	50.0	52.2	104	2	30	26-182	
Methyl tert-butyl ether	100	105	105	3	30	76-126	
Methylcyclohexane	50.0	57.1	114	2	30	72-133	
Methylene Chloride	50.0	51.9	104	1	30	79-124	
Styrene	50.0	51.8	104	0	30	75-129	
Tetrachloroethene	50.0	50.3	101	2	30	77-128	

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.: 680-90076-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: pe1808q.d
 Lab ID: LCSO 680-277181/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSO CONCENTRATION (ug/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	50.0	52.4	105	0	30	77-125	
trans-1,2-Dichloroethene	50.0	50.0	100	0	30	78-130	
trans-1,3-Dichloropropene	50.0	51.8	104	0	50	72-127	
Trichloroethene	50.0	50.9	102	0	30	80-120	
Trichlorofluoromethane	50.0	50.4	101	5	30	66-144	
Vinyl chloride	50.0	46.0	92	2	30	58-141	
Xylenes, Total	150	151	101	1	30	80-124	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Lab File ID: pe1816q.d Lab Sample ID: MB 680-277181/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: MSP Date Analyzed: 05/18/2013 14:51
 GC Column: DB-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 680-277181/4	pe1806q.d	05/18/2013 12:19
	LCSD 680-277181/5	pe1808q.d	05/18/2013 12:49
25LM00023 (Trip Blank Lot 112012)	680-90076-6	pe1830.d	05/18/2013 18:23
25LM20107	680-90076-1	pe1832.d	05/18/2013 18:53
25LM20105	680-90076-2	pe1834.d	05/18/2013 19:23
25LM20100	680-90076-3	pe1836.d	05/18/2013 19:54
25LM20103	680-90076-4	pe1838.d	05/18/2013 20:24
25LM20104	680-90076-5	pe1840.d	05/18/2013 20:54

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

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Lab File ID: pe0801t.d BFB Injection Date: 05/08/2013
 Instrument ID: MSP BFB Injection Time: 23:12
 Analysis Batch No.: 276064

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	18.6	
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	6.7	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120.0% of mass 95	70.6	
175	4.0 - 9.0 % of mass 174	5.4	(7.6) 1
176	93.0 - 101.0% of mass 174	69.0	(97.7) 1
177	5.0 - 9.0% of mass 176	4.8	(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
	IC 680-276064/2	pe0804q.d	05/08/2013	23:56
	IC 680-276064/3	pe0806q.d	05/09/2013	00:25
	IC 680-276064/4	pe0808q.d	05/09/2013	00:55
	IC 680-276064/5	pe0810q.d	05/09/2013	01:25
	IC 680-276064/6	pe0812q.d	05/09/2013	01:55
	ICIS 680-276064/7	pe0814q.d	05/09/2013	02:25
	IC 680-276064/8	pe0816q.d	05/09/2013	02:55
	IC 680-276064/9	pe0818q.d	05/09/2013	03:25

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

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Lab File ID: pe1801t.d BFB Injection Date: 05/18/2013
 Instrument ID: MSP BFB Injection Time: 11:03
 Analysis Batch No.: 277181

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	21.2	
75	30.0 - 66.0% of mass 95	50.0	
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	71.8	
175	4.0 - 9.0 % of mass 174	5.1	(7.1) 1
176	93.0 - 101.0% of mass 174	67.9	(94.6) 1
177	5.0 - 9.0% of mass 176	4.4	(6.5) 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 680-277181/3	pe1804q.d	05/18/2013	11:49
	LCS 680-277181/4	pe1806q.d	05/18/2013	12:19
	LCSD 680-277181/5	pe1808q.d	05/18/2013	12:49
	MB 680-277181/7	pe1816q.d	05/18/2013	14:51
25LM00023 (Trip Blank Lot 112012)	680-90076-6	pe1830.d	05/18/2013	18:23
25LM20107	680-90076-1	pe1832.d	05/18/2013	18:53
25LM20105	680-90076-2	pe1834.d	05/18/2013	19:23
25LM20100	680-90076-3	pe1836.d	05/18/2013	19:54
25LM20103	680-90076-4	pe1838.d	05/18/2013	20:24
25LM20104	680-90076-5	pe1840.d	05/18/2013	20:54

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

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Sample No.: CCVIS 680-277181/3 Date Analyzed: 05/18/2013 11:49
 Instrument ID: MSP GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): pe1804q.d Heated Purge: (Y/N) N
 Calibration ID: 17761

	12DCE		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	242814	3.63	566620	3.92	357266	6.12	
UPPER LIMIT	485628	4.13	1133240	4.42	714532	6.62	
LOWER LIMIT	121407	3.13	283310	3.42	178633	5.62	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 680-277181/4		250294	3.63	611335	3.92	380772	6.12
LCSD 680-277181/5		251144	3.63	636189	3.91	396264	6.12
MB 680-277181/7		293548	3.63	733355	3.92	433509	6.12
680-90076-6	25LM00023 (Trip Blank Lot 112012)	235519	3.63	540257	3.92	324179	6.12
680-90076-1	25LM20107	236360	3.63	547797	3.92	335211	6.12
680-90076-2	25LM20105	262907	3.63	621402	3.92	374261	6.12
680-90076-3	25LM20100	261697	3.63	613205	3.92	371826	6.12
680-90076-4	25LM20103	262021	3.63	606091	3.92	364291	6.12
680-90076-5	25LM20104	269262	3.63	642380	3.92	386952	6.12

12DCE = 1,2-Dichloroethane-d4 ISTD
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

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.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20107 Lab Sample ID: 680-90076-1
 Matrix: Water Lab File ID: pe1832.d
 Analysis Method: 8260B Date Collected: 05/07/2013 14:05
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 18:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.13
75-34-3	1,1-Dichloroethane	ND		1.0	0.25
75-35-4	1,1-Dichloroethene	ND		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.44
106-93-4	1,2-Dibromoethane	ND		1.0	0.25
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.21
107-06-2	1,2-Dichloroethane	ND		1.0	0.10
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.28
78-93-3	2-Butanone	ND		10	1.0
591-78-6	2-Hexanone	ND		10	1.0
108-10-1	4-Methyl-2-pentanone	ND		10	1.0
67-64-1	Acetone	ND		25	5.0
71-43-2	Benzene	ND		1.0	0.25
75-27-4	Bromodichloromethane	ND		1.0	0.25
75-25-2	Bromoform	ND		1.0	0.50
74-83-9	Bromomethane	ND		5.0	2.0
75-15-0	Carbon disulfide	ND		2.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.25
75-00-3	Chloroethane	ND		5.0	2.0
67-66-3	Chloroform	ND		1.0	0.14
74-87-3	Chloromethane	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.11
110-82-7	Cyclohexane	ND		1.0	0.25
124-48-1	Dibromochloromethane	ND		1.0	0.10
75-71-8	Dichlorodifluoromethane	ND		1.0	0.25
100-41-4	Ethylbenzene	ND		1.0	0.11
98-82-8	Isopropylbenzene	ND		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20107 Lab Sample ID: 680-90076-1
 Matrix: Water Lab File ID: pe1832.d
 Analysis Method: 8260B Date Collected: 05/07/2013 14:05
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 18:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		10	0.20
108-87-2	Methylcyclohexane	ND		1.0	0.10
75-09-2	Methylene Chloride	ND		5.0	1.0
100-42-5	Styrene	ND		1.0	0.11
127-18-4	Tetrachloroethene	ND		1.0	0.15
108-88-3	Toluene	ND		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.13
75-69-4	Trichlorofluoromethane	ND		1.0	0.25
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	90		70-130
1868-53-7	Dibromofluoromethane	97		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/lp051813.b/pe1832.d
Lab Smp Id: 680-90076-D-1 Client Smp ID: 25LM20107
Inj Date : 18-MAY-2013 18:53
Operator : ajmc Inst ID: MSP5973.i
Smp Info : 680-90076-D-1=[1P051813]
Misc Info : 680-90076-D-1
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSP5973.i/lp051813.b/P-18260B-m.m
Meth Date : 18-May-2013 12:08 mcnamara Quant Type: ISTD
Cal Date : 15-APR-2013 13:20 Cal File: pd1514q.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 40 DIBROMOFLUOROMETHANE		113	3.369	3.369	(0.928)	162083	48.3393	48
* 45 1,2-DICHLOROETHANE-d4 ISTD		65	3.631	3.631	(1.000)	236360	50.0000	
* 48 1,4-DIFLUOROBENZENE		114	3.917	3.917	(1.000)	547797	50.0000	
\$ 60 TOLUENE-d8		98	4.981	4.982	(1.272)	696270	50.6712	51
* 71 CHLOROBENZENE-d5		82	6.119	6.119	(1.000)	335211	50.0000	
\$ 82 4-BROMOFLUOROBENZENE		95	7.074	7.068	(1.156)	273549	45.1915	45

Data File: pe1832.d

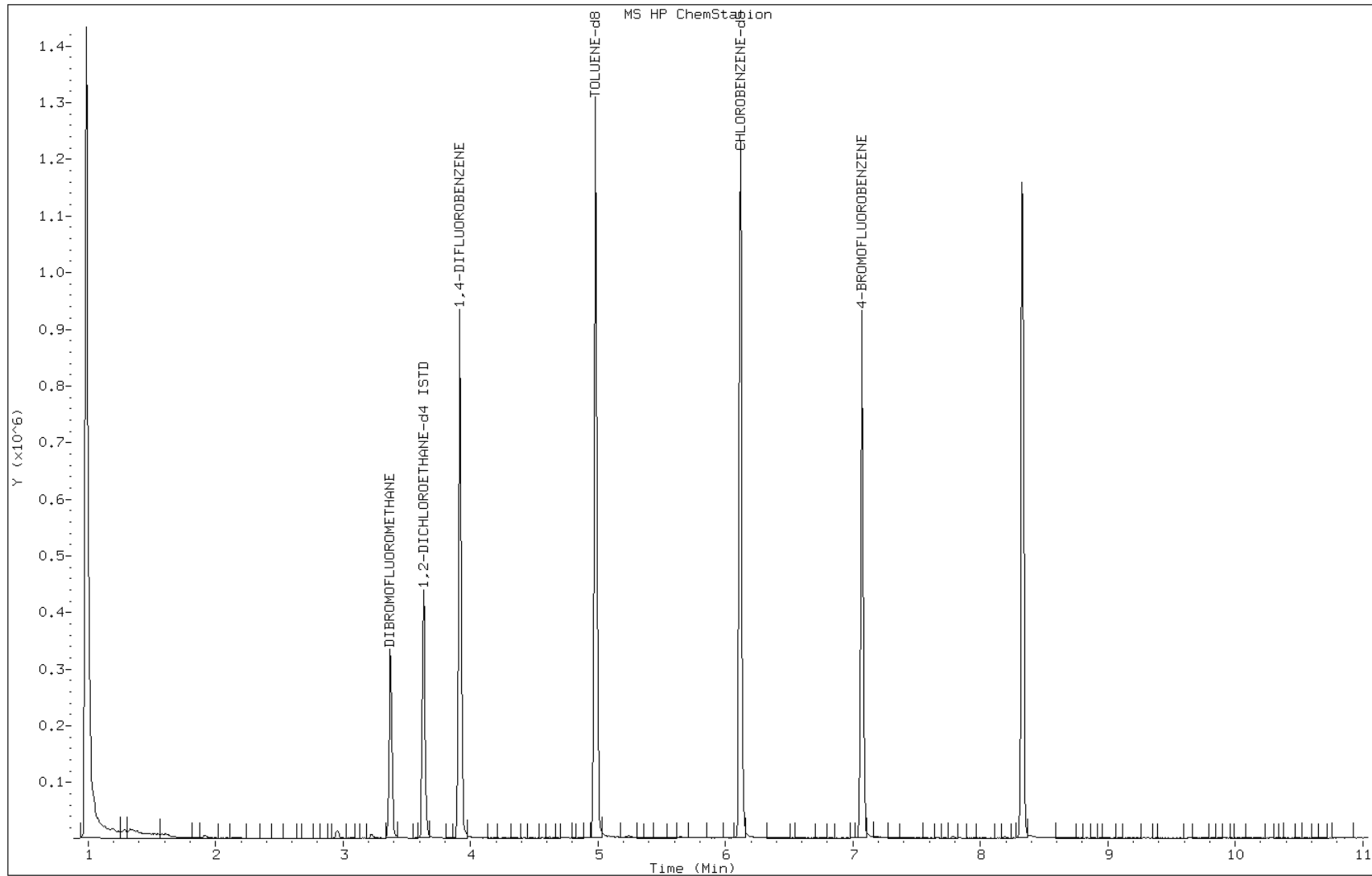
Date: 18-MAY-2013 18:53

Client ID: 25LM20107

Instrument: MSP5973.i

Sample Info: 680-90076-D-1=[1P051813]

Operator: ajmc



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20105 Lab Sample ID: 680-90076-2
 Matrix: Water Lab File ID: pe1834.d
 Analysis Method: 8260B Date Collected: 05/07/2013 13:26
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 19:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.13
75-34-3	1,1-Dichloroethane	ND		1.0	0.25
75-35-4	1,1-Dichloroethene	ND		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.44
106-93-4	1,2-Dibromoethane	ND		1.0	0.25
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.21
107-06-2	1,2-Dichloroethane	ND		1.0	0.10
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.28
78-93-3	2-Butanone	ND		10	1.0
591-78-6	2-Hexanone	ND		10	1.0
108-10-1	4-Methyl-2-pentanone	ND		10	1.0
67-64-1	Acetone	ND		25	5.0
71-43-2	Benzene	ND		1.0	0.25
75-27-4	Bromodichloromethane	ND		1.0	0.25
75-25-2	Bromoform	ND		1.0	0.50
74-83-9	Bromomethane	ND		5.0	2.0
75-15-0	Carbon disulfide	ND		2.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.25
75-00-3	Chloroethane	ND		5.0	2.0
67-66-3	Chloroform	ND		1.0	0.14
74-87-3	Chloromethane	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.11
110-82-7	Cyclohexane	ND		1.0	0.25
124-48-1	Dibromochloromethane	ND		1.0	0.10
75-71-8	Dichlorodifluoromethane	ND		1.0	0.25
100-41-4	Ethylbenzene	ND		1.0	0.11
98-82-8	Isopropylbenzene	ND		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20105 Lab Sample ID: 680-90076-2
 Matrix: Water Lab File ID: pe1834.d
 Analysis Method: 8260B Date Collected: 05/07/2013 13:26
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 19:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		10	0.20
108-87-2	Methylcyclohexane	ND		1.0	0.10
75-09-2	Methylene Chloride	ND		5.0	1.0
100-42-5	Styrene	ND		1.0	0.11
127-18-4	Tetrachloroethene	ND		1.0	0.15
108-88-3	Toluene	ND		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.13
75-69-4	Trichlorofluoromethane	ND		1.0	0.25
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	92		70-130
1868-53-7	Dibromofluoromethane	97		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/lp051813.b/pe1834.d
Lab Smp Id: 680-90076-B-2 Client Smp ID: 25LM20105
Inj Date : 18-MAY-2013 19:23
Operator : ajmc Inst ID: MSP5973.i
Smp Info : 680-90076-B-2=[1P051813]
Misc Info : 680-90076-B-2
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSP5973.i/lp051813.b/P-18260B-m.m
Meth Date : 18-May-2013 12:08 mcnamara Quant Type: ISTD
Cal Date : 15-APR-2013 13:20 Cal File: pd1514q.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 40 DIBROMOFLUOROMETHANE	113		3.369	3.369	(0.928)	180675	48.4432	48
* 45 1,2-DICHLOROETHANE-d4 ISTD	65		3.631	3.631	(1.000)	262907	50.0000	
* 48 1,4-DIFLUOROBENZENE	114		3.917	3.917	(1.000)	621402	50.0000	
\$ 60 TOLUENE-d8	98		4.982	4.982	(1.272)	780588	50.0786	50
* 71 CHLOROBENZENE-d5	82		6.119	6.119	(1.000)	374261	50.0000	
\$ 82 4-BROMOFLUOROBENZENE	95		7.068	7.068	(1.155)	311559	46.1005	46

Data File: pe1834.d

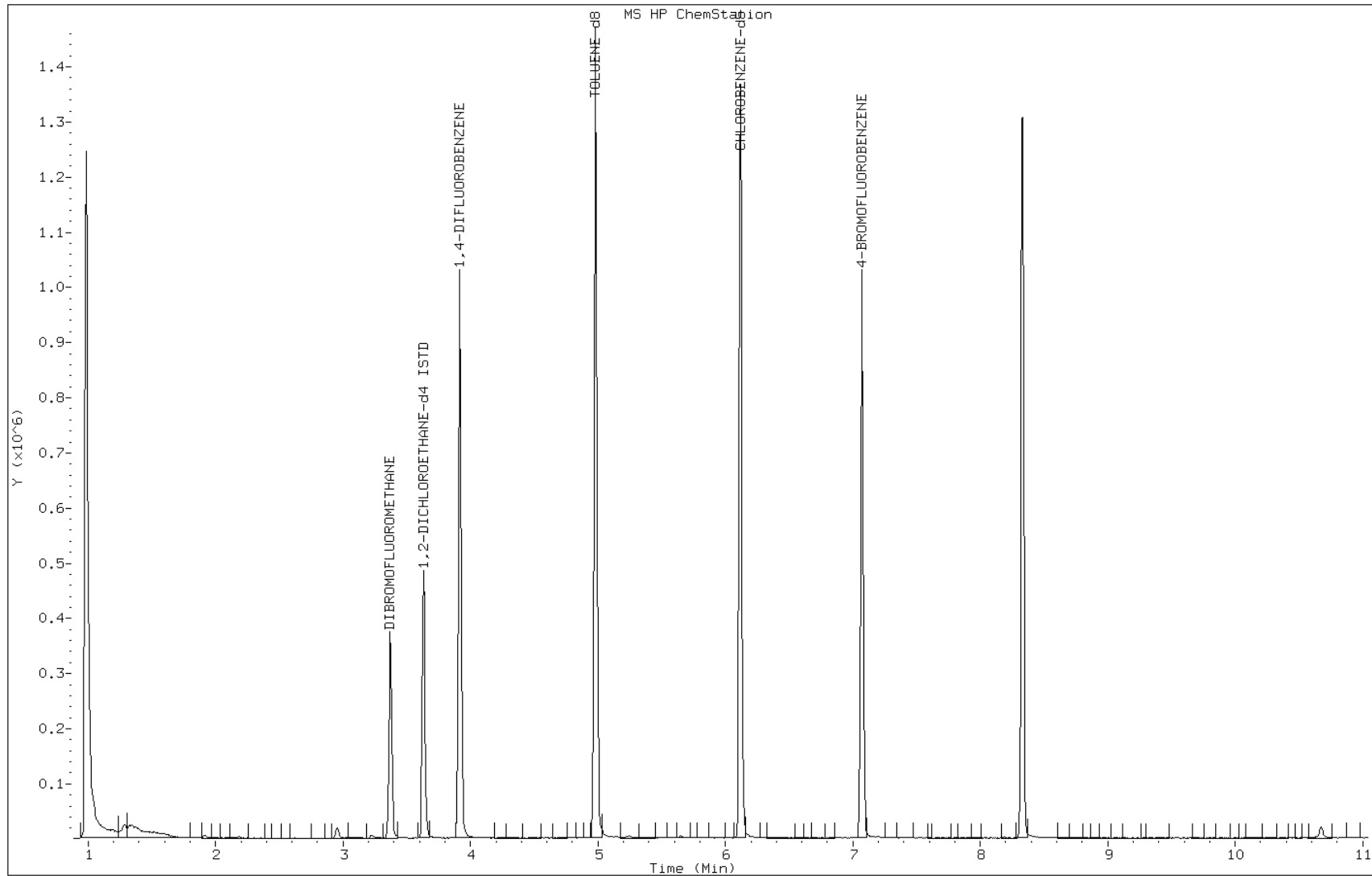
Date: 18-MAY-2013 19:23

Client ID: 25LM20105

Instrument: MSP5973.i

Sample Info: 680-90076-B-2=[1P051813]

Operator: ajmc



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20100 Lab Sample ID: 680-90076-3
 Matrix: Water Lab File ID: pe1836.d
 Analysis Method: 8260B Date Collected: 05/07/2013 12:20
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 19:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.13
75-34-3	1,1-Dichloroethane	ND		1.0	0.25
75-35-4	1,1-Dichloroethene	ND		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.44
106-93-4	1,2-Dibromoethane	ND		1.0	0.25
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.21
107-06-2	1,2-Dichloroethane	ND		1.0	0.10
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.28
78-93-3	2-Butanone	ND		10	1.0
591-78-6	2-Hexanone	ND		10	1.0
108-10-1	4-Methyl-2-pentanone	ND		10	1.0
67-64-1	Acetone	ND		25	5.0
71-43-2	Benzene	ND		1.0	0.25
75-27-4	Bromodichloromethane	ND		1.0	0.25
75-25-2	Bromoform	ND		1.0	0.50
74-83-9	Bromomethane	ND		5.0	2.0
75-15-0	Carbon disulfide	ND		2.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.25
75-00-3	Chloroethane	ND		5.0	2.0
67-66-3	Chloroform	ND		1.0	0.14
74-87-3	Chloromethane	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.11
110-82-7	Cyclohexane	ND		1.0	0.25
124-48-1	Dibromochloromethane	ND		1.0	0.10
75-71-8	Dichlorodifluoromethane	ND		1.0	0.25
100-41-4	Ethylbenzene	ND		1.0	0.11
98-82-8	Isopropylbenzene	ND		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20100 Lab Sample ID: 680-90076-3
 Matrix: Water Lab File ID: pe1836.d
 Analysis Method: 8260B Date Collected: 05/07/2013 12:20
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 19:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		10	0.20
108-87-2	Methylcyclohexane	ND		1.0	0.10
75-09-2	Methylene Chloride	ND		5.0	1.0
100-42-5	Styrene	ND		1.0	0.11
127-18-4	Tetrachloroethene	ND		1.0	0.15
108-88-3	Toluene	ND		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.13
75-69-4	Trichlorofluoromethane	ND		1.0	0.25
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	92		70-130
1868-53-7	Dibromofluoromethane	96		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/lp051813.b/pe1836.d
 Lab Smp Id: 680-90076-D-3 Client Smp ID: 25LM20100
 Inj Date : 18-MAY-2013 19:54
 Operator : ajmc Inst ID: MSP5973.i
 Smp Info : 680-90076-D-3=[1P051813]
 Misc Info : 680-90076-D-3
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSP5973.i/lp051813.b/P-18260B-m.m
 Meth Date : 18-May-2013 12:08 mcnamara Quant Type: ISTD
 Cal Date : 15-APR-2013 13:20 Cal File: pd1514q.d
 Als bottle: 18
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
35 TETRAHYDROFURAN	42	3.217	3.236	(0.886)	4360	0.94256	0.94(aH)
\$ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	178692	48.1331	48
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	261697	50.0000	
* 48 1,4-DIFLUOROENZENE	114	3.917	3.917	(1.000)	613205	50.0000	
\$ 60 TOLUENE-d8	98	4.981	4.982	(1.272)	775037	50.3872	50
* 71 CHLOROENZENE-d5	82	6.119	6.119	(1.000)	371826	50.0000	
\$ 82 4-BROMOFLUOROENZENE	95	7.074	7.068	(1.156)	309349	46.0733	46

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- H - Operator selected an alternate compound hit.

Data File: pe1836.d

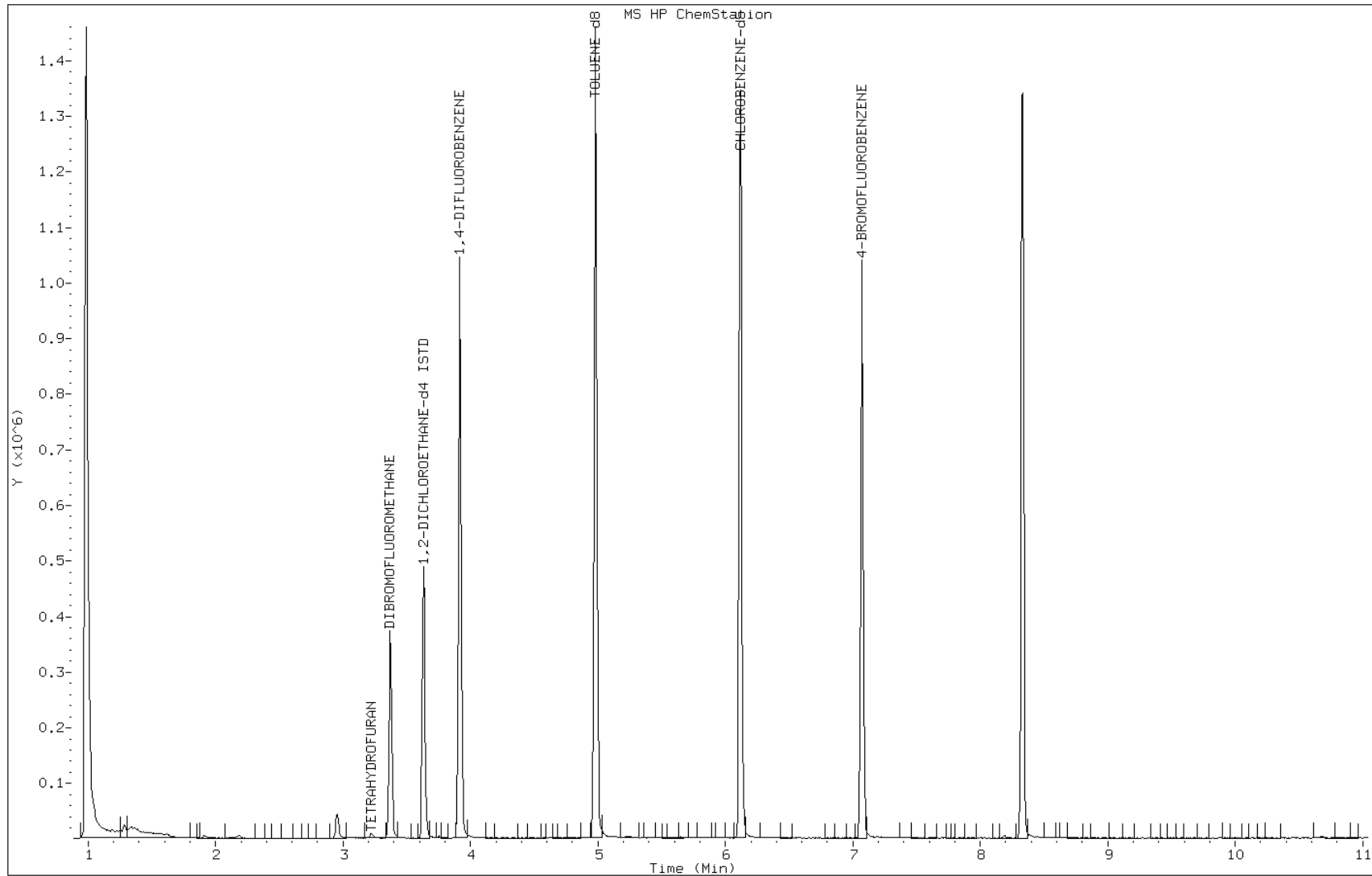
Date: 18-MAY-2013 19:54

Client ID: 25LM20100

Instrument: MSP5973.i

Sample Info: 680-90076-D-3=[1P051813]

Operator: ajmc



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20103 Lab Sample ID: 680-90076-4
 Matrix: Water Lab File ID: pe1838.d
 Analysis Method: 8260B Date Collected: 05/07/2013 15:36
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 20:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.13
75-34-3	1,1-Dichloroethane	ND		1.0	0.25
75-35-4	1,1-Dichloroethene	ND		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.44
106-93-4	1,2-Dibromoethane	ND		1.0	0.25
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.21
107-06-2	1,2-Dichloroethane	ND		1.0	0.10
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.28
78-93-3	2-Butanone	ND		10	1.0
591-78-6	2-Hexanone	ND		10	1.0
108-10-1	4-Methyl-2-pentanone	ND		10	1.0
67-64-1	Acetone	ND		25	5.0
71-43-2	Benzene	ND		1.0	0.25
75-27-4	Bromodichloromethane	ND		1.0	0.25
75-25-2	Bromoform	ND		1.0	0.50
74-83-9	Bromomethane	ND		5.0	2.0
75-15-0	Carbon disulfide	ND		2.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.25
75-00-3	Chloroethane	ND		5.0	2.0
67-66-3	Chloroform	ND		1.0	0.14
74-87-3	Chloromethane	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.11
110-82-7	Cyclohexane	ND		1.0	0.25
124-48-1	Dibromochloromethane	ND		1.0	0.10
75-71-8	Dichlorodifluoromethane	ND		1.0	0.25
100-41-4	Ethylbenzene	ND		1.0	0.11
98-82-8	Isopropylbenzene	ND		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20103 Lab Sample ID: 680-90076-4
 Matrix: Water Lab File ID: pe1838.d
 Analysis Method: 8260B Date Collected: 05/07/2013 15:36
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 20:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		10	0.20
108-87-2	Methylcyclohexane	ND		1.0	0.10
75-09-2	Methylene Chloride	ND		5.0	1.0
100-42-5	Styrene	ND		1.0	0.11
127-18-4	Tetrachloroethene	ND		1.0	0.15
108-88-3	Toluene	ND		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.13
75-69-4	Trichlorofluoromethane	ND		1.0	0.25
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	91		70-130
1868-53-7	Dibromofluoromethane	96		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/lp051813.b/pe1838.d
Lab Smp Id: 680-90076-D-4 Client Smp ID: 25LM20103
Inj Date : 18-MAY-2013 20:24
Operator : ajmc Inst ID: MSP5973.i
Smp Info : 680-90076-D-4=[1P051813]
Misc Info : 680-90076-D-4
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSP5973.i/lp051813.b/P-18260B-m.m
Meth Date : 18-May-2013 12:08 mcnamara Quant Type: ISTD
Cal Date : 15-APR-2013 13:20 Cal File: pd1514q.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 40 DIBROMOFLUOROMETHANE	113		3.369	3.369	(0.928)	179332	48.2457	48
* 45 1,2-DICHLOROETHANE-d4 ISTD	65		3.631	3.631	(1.000)	262021	50.0000	
* 48 1,4-DIFLUOROBENZENE	114		3.917	3.917	(1.000)	606091	50.0000	
\$ 60 TOLUENE-d8	98		4.981	4.982	(1.272)	764500	50.2855	50
* 71 CHLOROBENZENE-d5	82		6.119	6.119	(1.000)	364291	50.0000	
\$ 82 4-BROMOFLUOROBENZENE	95		7.074	7.068	(1.156)	299952	45.5977	46

Data File: pe1838.d

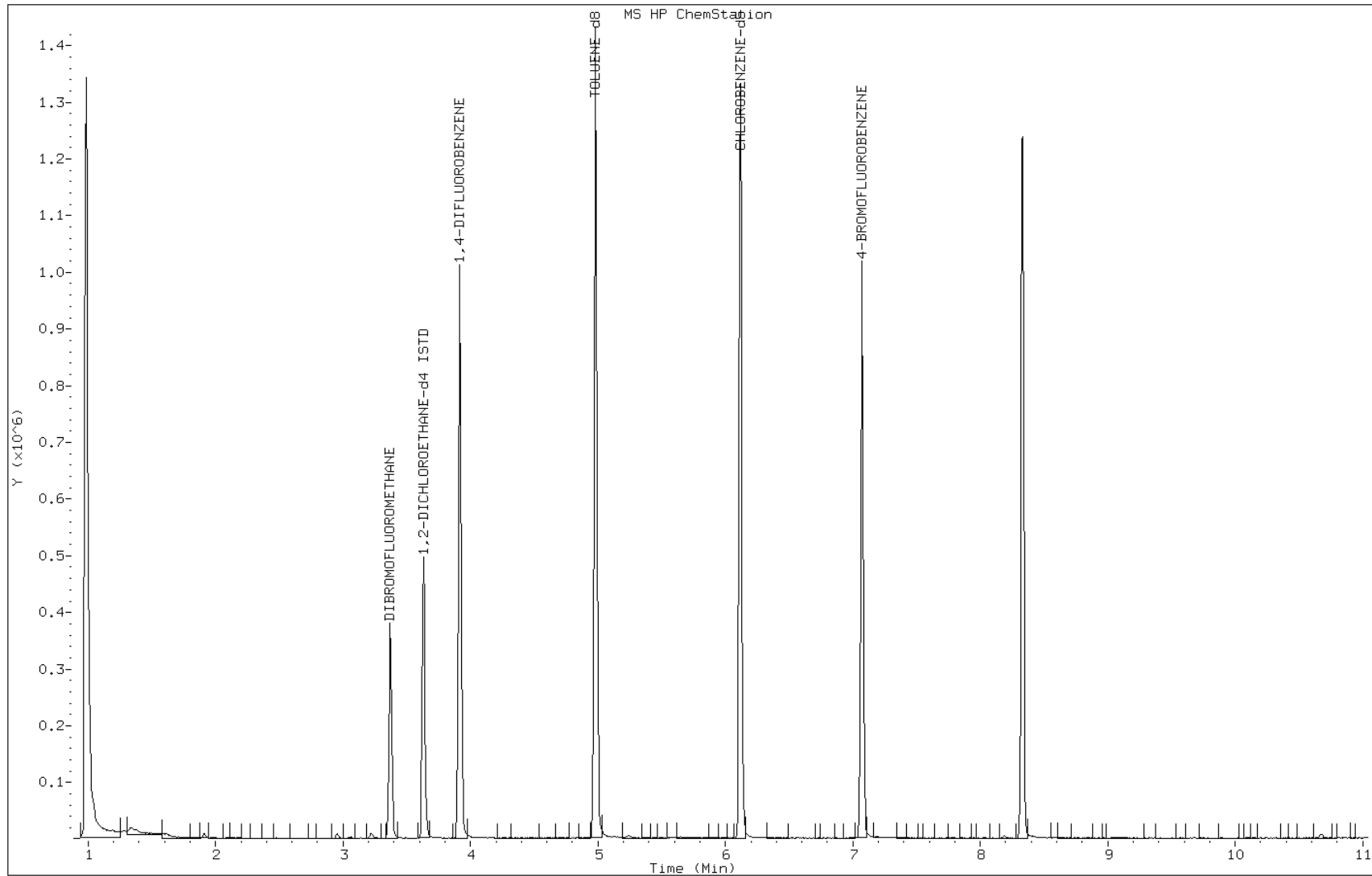
Date: 18-MAY-2013 20:24

Client ID: 25LM20103

Instrument: MSP5973.i

Sample Info: 680-90076-D-4=[1P051813]

Operator: ajmc



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20104 Lab Sample ID: 680-90076-5
 Matrix: Water Lab File ID: pe1840.d
 Analysis Method: 8260B Date Collected: 05/07/2013 16:10
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 20:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.13
75-34-3	1,1-Dichloroethane	ND		1.0	0.25
75-35-4	1,1-Dichloroethene	ND		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.44
106-93-4	1,2-Dibromoethane	ND		1.0	0.25
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.21
107-06-2	1,2-Dichloroethane	ND		1.0	0.10
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.28
78-93-3	2-Butanone	ND		10	1.0
591-78-6	2-Hexanone	ND		10	1.0
108-10-1	4-Methyl-2-pentanone	ND		10	1.0
67-64-1	Acetone	11	J	25	5.0
71-43-2	Benzene	0.34	J	1.0	0.25
75-27-4	Bromodichloromethane	ND		1.0	0.25
75-25-2	Bromoform	ND		1.0	0.50
74-83-9	Bromomethane	ND		5.0	2.0
75-15-0	Carbon disulfide	ND		2.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.25
75-00-3	Chloroethane	ND		5.0	2.0
67-66-3	Chloroform	ND		1.0	0.14
74-87-3	Chloromethane	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.11
110-82-7	Cyclohexane	ND		1.0	0.25
124-48-1	Dibromochloromethane	ND		1.0	0.10
75-71-8	Dichlorodifluoromethane	ND		1.0	0.25
100-41-4	Ethylbenzene	ND		1.0	0.11
98-82-8	Isopropylbenzene	ND		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20104 Lab Sample ID: 680-90076-5
 Matrix: Water Lab File ID: pe1840.d
 Analysis Method: 8260B Date Collected: 05/07/2013 16:10
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 20:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		10	0.20
108-87-2	Methylcyclohexane	ND		1.0	0.10
75-09-2	Methylene Chloride	ND		5.0	1.0
100-42-5	Styrene	ND		1.0	0.11
127-18-4	Tetrachloroethene	ND		1.0	0.15
108-88-3	Toluene	ND		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.13
75-69-4	Trichlorofluoromethane	ND		1.0	0.25
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	93		70-130
1868-53-7	Dibromofluoromethane	98		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/lp051813.b/pe1840.d
 Lab Smp Id: 680-90076-D-5 Client Smp ID: 25LM20104
 Inj Date : 18-MAY-2013 20:54
 Operator : ajmc Inst ID: MSP5973.i
 Smp Info : 680-90076-D-5=[1P051813]
 Misc Info : 680-90076-D-5
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSP5973.i/lp051813.b/P-18260B-m.m
 Meth Date : 18-May-2013 12:08 mcnamara Quant Type: ISTD
 Cal Date : 15-APR-2013 13:20 Cal File: pd1514q.d
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
14 ACETONE	58	1.915	1.915	(0.528)	6859	10.7306	11(aH)
35 TETRAHYDROFURAN	42	3.217	3.236	(0.886)	3180	0.66815	0.67(a)
\$ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	186509	48.8272	49
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	269262	50.0000	
44 BENZENE	78	3.619	3.619	(0.924)	6002	0.33940	0.34(a)
* 48 1,4-DIFLUOROBENZENE	114	3.917	3.917	(1.000)	642380	50.0000	
\$ 60 TOLUENE-d8	98	4.981	4.982	(1.272)	807450	50.1103	50
* 71 CHLOROBENZENE-d5	82	6.119	6.119	(1.000)	386952	50.0000	
\$ 82 4-BROMOFLUOROBENZENE	95	7.074	7.068	(1.156)	323336	46.2740	46

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- H - Operator selected an alternate compound hit.

Data File: pe1840.d

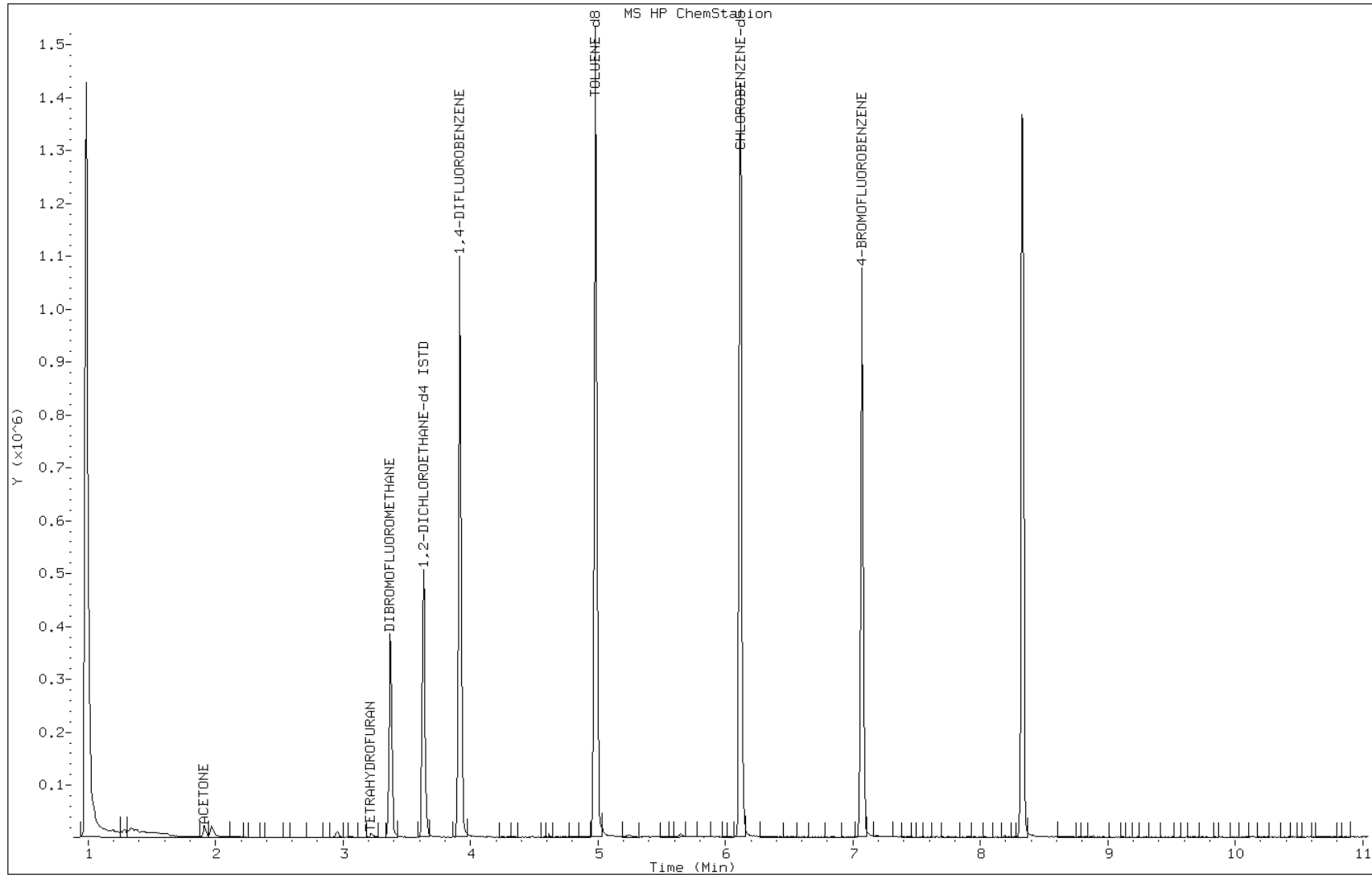
Date: 18-MAY-2013 20:54

Client ID: 25LM20104

Instrument: MSP5973.i

Sample Info: 680-90076-D-5=[1P051813]

Operator: ajmc



Data File: pe1840.d

Date: 18-MAY-2013 20:54

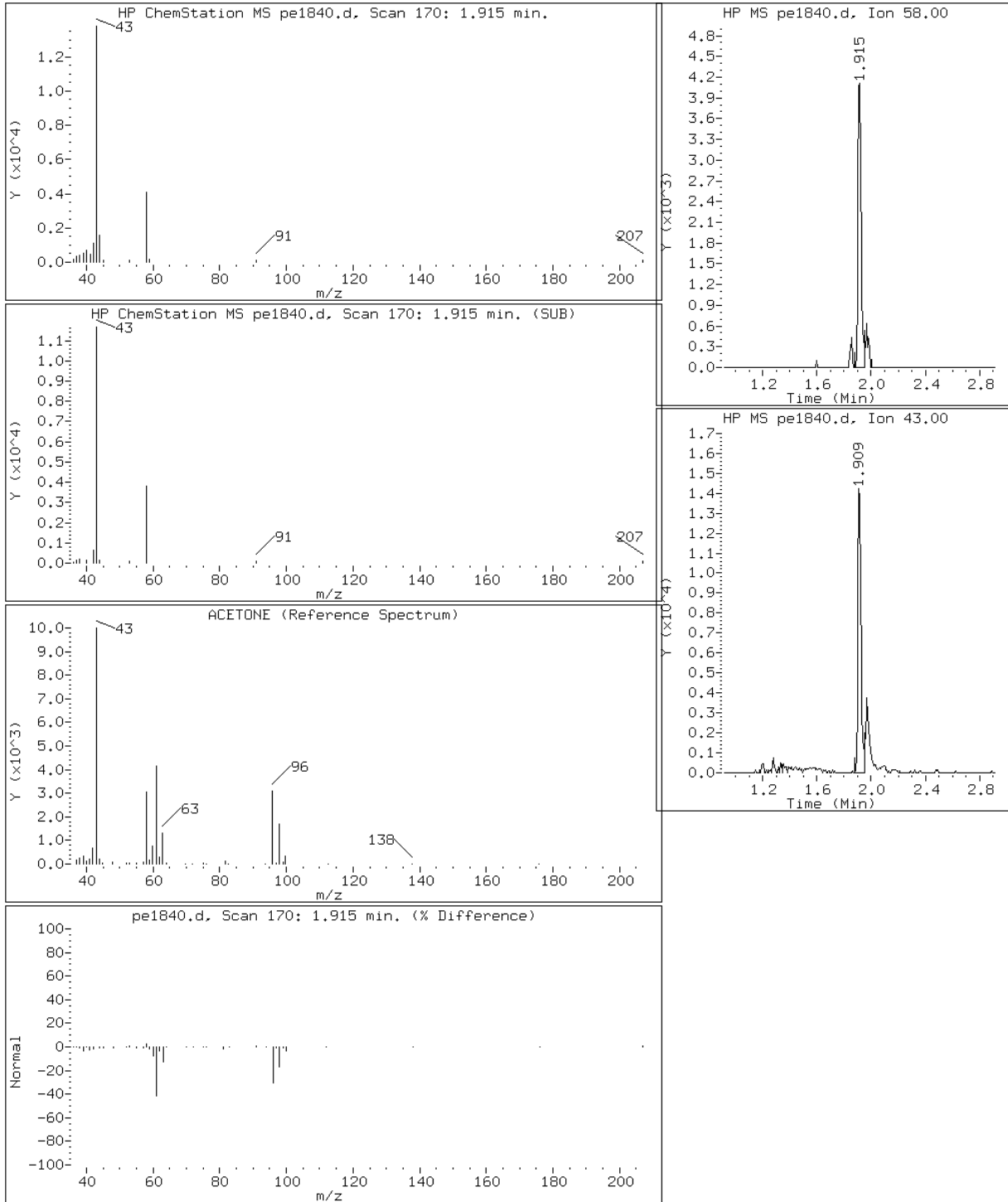
Client ID: 25LM20104

Instrument: MSP5973.i

Sample Info: 680-90076-D-5=[1P051813]

Operator: ajmc

14 ACETONE



Data File: pe1840.d

Date: 18-MAY-2013 20:54

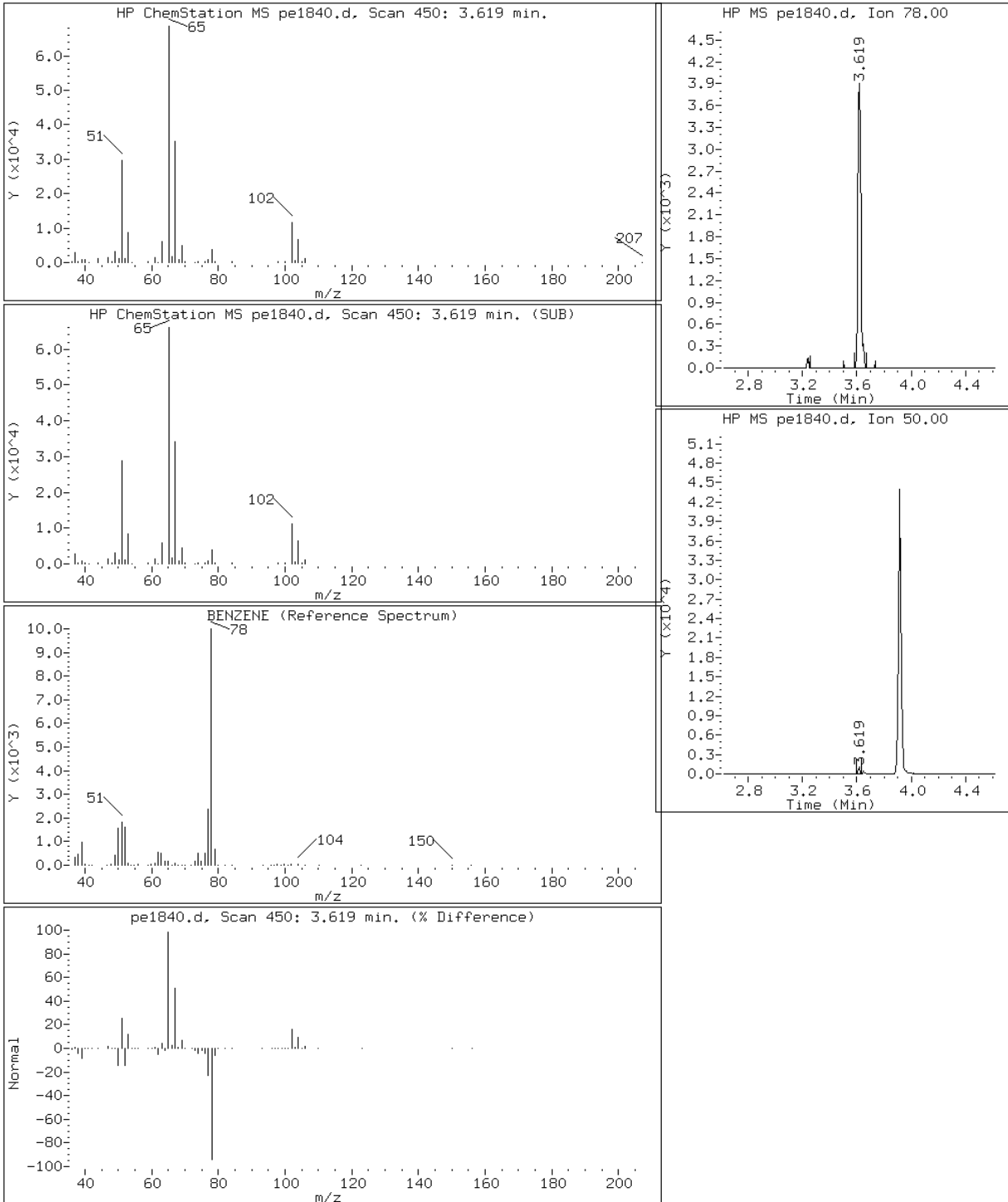
Client ID: 25LM20104

Instrument: MSP5973.i

Sample Info: 680-90076-D-5=[1P051813]

Operator: ajmc

44 BENZENE



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM00023 (Trip Blank Lot) Lab Sample ID: 680-90076-6
 Matrix: Water Lab File ID: pe1830.d
 Analysis Method: 8260B Date Collected: 05/07/2013 17:02
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 18:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.13
75-34-3	1,1-Dichloroethane	ND		1.0	0.25
75-35-4	1,1-Dichloroethene	ND		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.44
106-93-4	1,2-Dibromoethane	ND		1.0	0.25
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.21
107-06-2	1,2-Dichloroethane	ND		1.0	0.10
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.28
78-93-3	2-Butanone	ND		10	1.0
591-78-6	2-Hexanone	ND		10	1.0
108-10-1	4-Methyl-2-pentanone	ND		10	1.0
67-64-1	Acetone	ND		25	5.0
71-43-2	Benzene	ND		1.0	0.25
75-27-4	Bromodichloromethane	ND		1.0	0.25
75-25-2	Bromoform	ND		1.0	0.50
74-83-9	Bromomethane	ND		5.0	2.0
75-15-0	Carbon disulfide	ND		2.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.25
75-00-3	Chloroethane	ND		5.0	2.0
67-66-3	Chloroform	ND		1.0	0.14
74-87-3	Chloromethane	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.11
110-82-7	Cyclohexane	ND		1.0	0.25
124-48-1	Dibromochloromethane	ND		1.0	0.10
75-71-8	Dichlorodifluoromethane	ND		1.0	0.25
100-41-4	Ethylbenzene	ND		1.0	0.11
98-82-8	Isopropylbenzene	ND		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM00023 (Trip Blank Lot) Lab Sample ID: 680-90076-6
 Matrix: Water Lab File ID: pe1830.d
 Analysis Method: 8260B Date Collected: 05/07/2013 17:02
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 18:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		10	0.20
108-87-2	Methylcyclohexane	ND		1.0	0.10
75-09-2	Methylene Chloride	ND		5.0	1.0
100-42-5	Styrene	ND		1.0	0.11
127-18-4	Tetrachloroethene	ND		1.0	0.15
108-88-3	Toluene	ND		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.13
75-69-4	Trichlorofluoromethane	ND		1.0	0.25
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	90		70-130
1868-53-7	Dibromofluoromethane	96		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/lp051813.b/pe1830.d
 Lab Smp Id: 680-90076-A-6 Client Smp ID: 25LM00023 (Trip Bla
 Inj Date : 18-MAY-2013 18:23
 Operator : ajmc Inst ID: MSP5973.i
 Smp Info : 680-90076-A-6=[1P051813]
 Misc Info : 680-90076-A-6
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSP5973.i/lp051813.b/P-18260B-m.m
 Meth Date : 18-May-2013 12:08 mcnamara Quant Type: ISTD
 Cal Date : 15-APR-2013 13:20 Cal File: pd1514q.d
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	160233	47.9582	48	
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	235519	50.0000		
* 48 1,4-DIFLUOROBENZENE	114	3.917	3.917	(1.000)	540257	50.0000		
\$ 60 TOLUENE-d8	98	4.981	4.982	(1.272)	674995	49.8085	50	
* 71 CHLOROBENZENE-d5	82	6.119	6.119	(1.000)	324179	50.0000		
\$ 82 4-BROMOFLUOROBENZENE	95	7.074	7.068	(1.156)	262847	44.9012	45	

Data File: pe1830.d

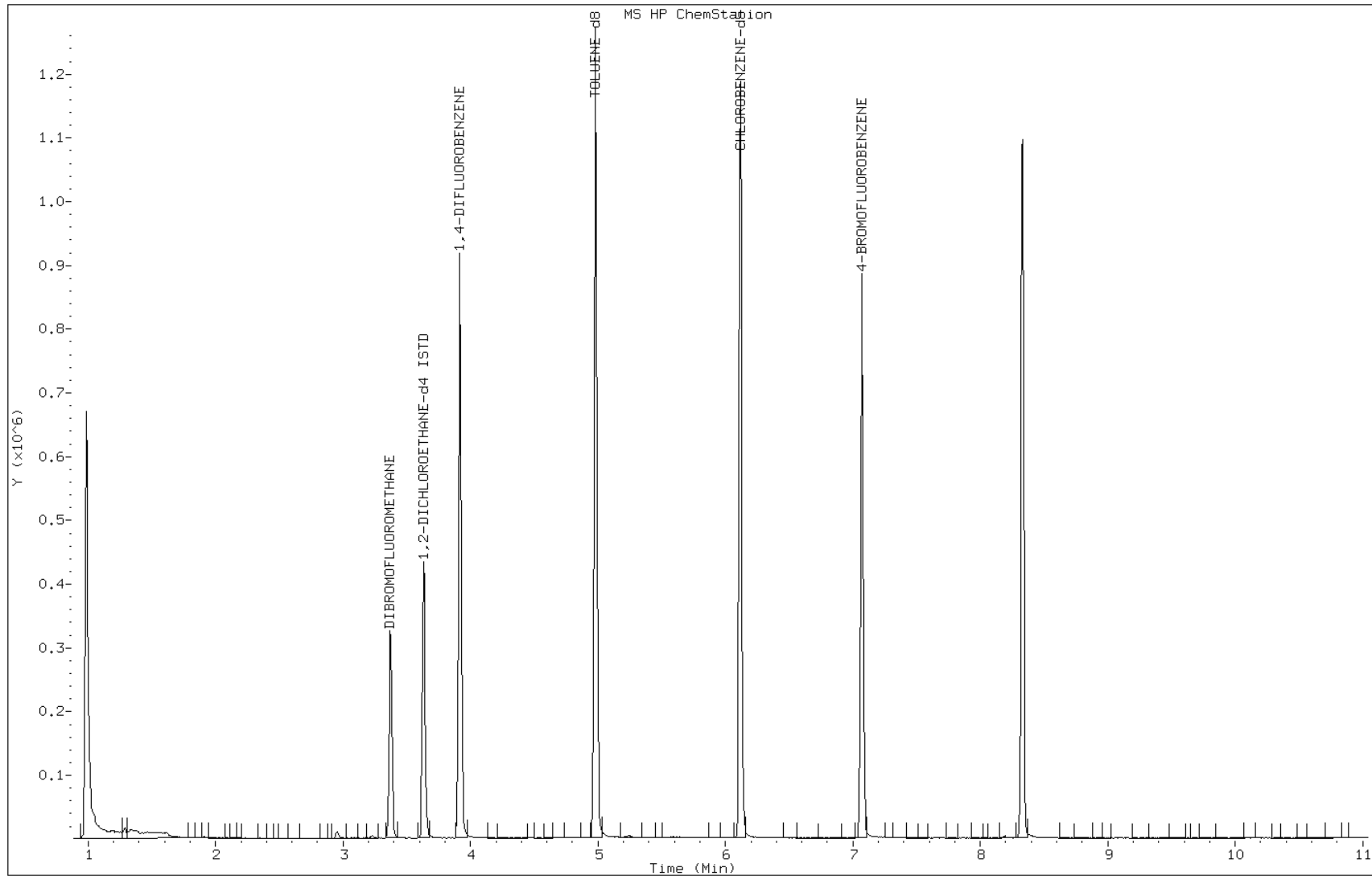
Date: 18-MAY-2013 18:23

Client ID: 25LM00023 (Trip Bla

Instrument: MSP5973.i

Sample Info: 680-90076-A-6=[1P051813]

Operator: ajmc



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

Lab Name: TestAmerica Savannah Job No.: 680-90076-1 Analy Batch No.: 276064

SDG No.: _____

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

Calibration Start Date: 05/08/2013 23:56 Calibration End Date: 05/09/2013 03:25 Calibration ID: 17761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-276064/2	pe0804q.d
Level 2	IC 680-276064/3	pe0806q.d
Level 3	IC 680-276064/4	pe0808q.d
Level 4	IC 680-276064/5	pe0810q.d
Level 5	IC 680-276064/6	pe0812q.d
Level 6	ICIS 680-276064/7	pe0814q.d
Level 7	IC 680-276064/8	pe0816q.d
Level 8	IC 680-276064/9	pe0818q.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.9572	0.7904 0.9059	0.9515 0.9277	0.9564	0.9880	Ave		0.9253			7.0		15.0				
Chloromethane	1.1184	1.1037 1.0604	1.1348 1.1467	1.1528	1.2094	Ave		1.1323		0.1000	4.1		15.0				
Vinyl chloride	1.3476 1.1416	1.0940 1.0715	1.1409 1.1391	1.1730	1.1865	Ave		1.1618			7.2		15.0				
1,3-Butadiene	0.9951	0.8240 0.9640	0.9703 1.0312	1.0004	1.0394	Ave		0.9749			7.4		15.0				
Bromomethane	0.2190	0.1875 0.2160	0.2269 0.1650	0.2268	0.1870	Ave		0.2040			11.8		15.0				
Chloroethane	0.3743	0.3338 0.3583	0.3977 0.3605	0.4185	0.3996	Ave		0.3775			7.8		15.0				
Trichlorofluoromethane	1.0669	0.9114 1.0239	1.0576 1.0701	1.1078	1.1376	Ave		1.0536			6.9		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.7648	0.6494 0.7271	0.7715 0.7426	0.7861	0.8115	Ave		0.7504			7.0		15.0				
1,1-Dichloroethene	0.6958	0.6088 0.6741	0.6965 0.7023	0.7176	0.7289	Ave		0.6891			5.7		15.0				
Acetone	0.1161	0.1109	0.1137 0.1201	0.1244	0.1269	Ave		0.1187			5.2		15.0				
Carbon disulfide	2.1967	1.9549 2.1400	1.9745 2.2522	2.0732	2.1972	Ave		2.1127			5.5		15.0				
Methyl acetate	1.2567	1.5158 1.2240	1.2549 1.2172	1.3416	1.3196	Ave		1.3042			8.0		15.0				
Methylene Chloride	0.8195	0.9258 0.7829	0.8628 0.7940	0.8708	0.8534	Ave		0.8442			5.9		15.0				
Methyl tert-butyl ether	2.5925	2.6894 2.5758	2.5678 2.5868	2.7356	2.7327	Ave		2.6401			2.9		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.: 680-90076-1 Analy Batch No.: 276064

SDG No.: _____

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

Calibration Start Date: 05/08/2013 23:56 Calibration End Date: 05/09/2013 03:25 Calibration ID: 17761

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														
trans-1,2-Dichloroethene	0.7791	0.7223 0.7524	0.7981 0.7666	0.8267	0.8215	Ave		0.7810			4.8		15.0				
1,1-Dichloroethane	1.5137	1.5685 1.4693	1.4917 1.4595	1.5646	1.5745	Ave		1.5203		0.1000	3.2		15.0				
Vinyl acetate	1.5588	1.5956 1.5653	1.5097 1.5163	1.6400	1.6500	Ave		1.5765			3.5		15.0				
2,2-Dichloropropane	1.0552	0.9319 1.0682	1.0291 1.0519	1.0661	1.0893	Ave		1.0417			5.0		15.0				
cis-1,2-Dichloroethene	0.9034	0.9343 0.9035	0.9188 0.8937	0.9357	0.9368	Ave		0.9180			2.0		15.0				
2-Butanone	0.5889	0.6843 0.6081	0.5566 0.5869	0.6054	0.6300	Ave		0.6086			6.6		15.0				
Bromochloromethane	0.9120	0.9272 0.9590	0.8657 0.8952	0.9285	0.9287	Ave		0.9166			3.2		15.0				
Chloroform	1.4407	1.3427 1.4879	1.4097 1.4226	1.4669	1.4690	Ave		1.4342			3.4		15.0				
Cyclohexane	0.5998	0.5204 0.6361	0.5766 0.6017	0.5943	0.6073	Ave		0.5909			6.1		15.0				
1,1,1-Trichloroethane	0.4266	0.3591 0.4497	0.4130 0.4395	0.4279	0.4341	Ave		0.4214			7.1		15.0				
Carbon tetrachloride	0.3545	0.2753 0.3704	0.3079 0.3766	0.3314	0.3446	Ave		0.3372			10.6		15.0				
1,1-Dichloropropene	0.4955	0.4217 0.5094	0.4699 0.5044	0.4904	0.4819	Ave		0.4819			6.2		15.0				
Benzene	1.3616	1.3718 1.3919	1.3425 1.4385	1.3722	1.3569	Ave		1.3765			2.3		15.0				
1,2-Dichloroethane	0.4194	0.4638 0.4327	0.4349 0.4300	0.4364	0.4309	Ave		0.4354			3.1		15.0				
Trichloroethene	0.3193	0.2829 0.3150	0.3115 0.3229	0.3150	0.3138	Ave		0.3115			4.2		15.0				
Methylcyclohexane	0.6659	0.5455 0.6527	0.6048 0.6579	0.6323	0.6386	Ave		0.6283			6.6		15.0				
1,2-Dichloropropane	0.4286	0.4011 0.4206	0.3998 0.4288	0.4066	0.4139	Ave		0.4142			3.0		15.0				
Dibromomethane	0.2024	0.2084 0.2017	0.1906 0.2052	0.1953	0.1970	Ave		0.2001			3.1		15.0				
Bromodichloromethane	0.4198	0.3415 0.4275	0.3570 0.4418	0.3747	0.3907	Ave		0.3933			9.6		15.0				
2-Chloroethyl vinyl ether	0.2868	0.2602 0.2843	0.2479 0.2901	0.2647	0.2698	Ave		0.2720			5.8		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.: 680-90076-1 Analy Batch No.: 276064

SDG No.: _____

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

Calibration Start Date: 05/08/2013 23:56 Calibration End Date: 05/09/2013 03:25 Calibration ID: 17761

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														
cis-1,3-Dichloropropene	0.6508	0.5656 0.6570	0.5397 0.6777	0.5878	0.6086	Ave	0.6125				8.4	15.0					
4-Methyl-2-pentanone	0.4645	0.4617	0.3960 0.4621	0.4263	0.4325	Ave	0.4405				6.2	15.0					
Toluene	0.9234	0.9595 0.9015	0.8630 0.9329	0.8901	0.9002	Ave	0.9101				3.5	15.0					
trans-1,3-Dichloropropene	0.6029	0.5086 0.6167	0.4989 0.6433	0.5359	0.5678	Ave	0.5677				9.8	15.0					
1,1,2-Trichloroethane	0.2937	0.2914 0.2922	0.2769 0.2948	0.2864	0.2906	Ave	0.2894				2.1	15.0					
Tetrachloroethene	0.4567	0.4153 0.4556	0.4717 0.4624	0.4685	0.4648	Ave	0.4564				4.2	15.0					
1,3-Dichloropropane	0.6631	0.6757 0.6653	0.6205 0.6636	0.6647	0.6521	Ave	0.6579				2.7	15.0					
2-Hexanone	0.5849	0.5144 0.5985	0.5144 0.6026	0.5626	0.5653	Ave	0.5714				5.7	15.0					
Dibromochloromethane	0.5251	0.4434 0.5641	0.4393 0.5852	0.4812	0.5081	Ave	0.5066				11.1	15.0					
1,2-Dibromoethane	0.3383	0.3468 0.3436	0.3029 0.3488	0.3307	0.3317	Ave	0.3347				4.7	15.0					
Chlorobenzene	1.6311	1.6951 1.6616	1.6755 1.6895	1.6977	1.6879	Ave	1.6769			0.3000	1.4	15.0					
Ethylbenzene	3.1663	2.8678 3.2533	2.9820 3.3221	3.1170	3.1659	Ave	3.1249				5.0	15.0					
1,1,1,2-Tetrachloroethane	0.5204	0.4784 0.5393	0.4857 0.5519	0.5135	0.5251	Ave	0.5163				5.2	15.0					
m-Xylene & p-Xylene	1.2112	1.1222 1.2262	1.1829 1.2267	1.2055	1.2208	Ave	1.1994				3.1	15.0					
o-Xylene	1.1899	1.1167 1.2059	1.1458 1.2159	1.1935	1.1938	Ave	1.1802				3.0	15.0					
Styrene	1.9940	1.7346 2.0643	1.8663 2.0956	1.9432	2.0064	Ave	1.9578				6.3	15.0					
Bromoform	0.3406	0.2584 0.3819	0.2842 0.4017	0.3076	0.3270	LinF	0.3949			0.1000				0.9972		0.9900	
Isopropylbenzene	2.8111	2.3862 2.8432	2.6611 2.8706	2.7600	2.8454	Ave	2.7397				6.2	15.0					
Bromobenzene	0.6934	0.6739 0.7086	0.7070 0.7116	0.7197	0.7156	Ave	0.7043				2.2	15.0					
1,1,2,2-Tetrachloroethane	0.8215	0.8585 0.8513	0.7827 0.8547	0.8392	0.8494	Ave	0.8367			0.3000	3.2	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.: 680-90076-1 Analy Batch No.: 276064

SDG No.: _____

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

Calibration Start Date: 05/08/2013 23:56 Calibration End Date: 05/09/2013 03:25 Calibration ID: 17761

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	0.8725	0.7138 0.8949	0.8291 0.8819	0.8847	0.9004	Ave		0.8539			7.7		15.0				
1,2,3-Trichloropropane	0.2591	0.3071 0.2667	0.2491 0.2637	0.2783	0.2729	Ave		0.2710			6.8		15.0				
2-Chlorotoluene	0.7199	0.6742 0.7352	0.7234 0.7300	0.7493	0.7425	Ave		0.7249			3.4		15.0				
1,3,5-Trimethylbenzene	2.7449	2.3427 2.8598	2.6287 2.8409	2.7539	2.7699	Ave		2.7058			6.5		15.0				
4-Chlorotoluene	0.7275	0.6647 0.7420	0.7545 0.7342	0.7716	0.7620	Ave		0.7367			4.8		15.0				
tert-Butylbenzene	2.3249	2.0572 2.3579	2.2970 2.3529	2.3770	2.3875	Ave		2.3078			5.0		15.0				
1,2,4-Trimethylbenzene	2.6873	2.5071 2.8150	2.6472 2.8220	2.7873	2.7571	Ave		2.7176			4.2		15.0				
sec-Butylbenzene	3.5207	2.9216 3.5992	3.3501 3.5741	3.5145	3.5629	Ave		3.4347			7.0		15.0				
p-Isopropyltoluene	2.8110	2.3295 2.9088	2.6011 2.8813	2.8314	2.8266	Ave		2.7414			7.6		15.0				
1,3-Dichlorobenzene	1.4474	1.5210 1.4734	1.4824 1.4491	1.5147	1.5008	Ave		1.4841			2.0		15.0				
1,4-Dichlorobenzene	1.4328	1.5671 1.4535	1.4330 1.4536	1.4685	1.4804	Ave		1.4698			3.1		15.0				
n-Butylbenzene	2.7181	2.1319 2.8302	2.4690 2.8373	2.6089	2.6882	Ave		2.6119			9.5		15.0				
1,2-Dichlorobenzene	1.3367	1.3670 1.3695	1.3888 1.3642	1.4365	1.3849	Ave		1.3782			2.2		15.0				
1,2-Dibromo-3-Chloropropane	0.1368	0.1341 0.1500	0.1150 0.1535	0.1349	0.1357	Ave		0.1372			9.1		15.0				
1,2,4-Trichlorobenzene	0.6955	0.7634 0.7580	0.6662 0.7660	0.7154	0.7441	Ave		0.7298			5.3		15.0				
Hexachlorobutadiene	0.3186	0.3683 0.3233	0.3461 0.3166	0.3412	0.3313	Ave		0.3350			5.5		15.0				
Naphthalene	1.6446	1.4624 1.8698	1.3167 1.8691	1.5797	1.6293	Ave		1.6245			12.4		15.0				
1,2,3-Trichlorobenzene	0.6184	0.6456 0.6683	0.5918 0.6688	0.6572	0.6494	Ave		0.6428			4.4		15.0				
1,3-Dichloropropene, Total	0.6269	0.5371 0.6369	0.5193 0.6605	0.5619	0.5882	Ave		0.5901			9.0		15.0				
a-Methylstyrene TIC	1.4329	1.1346 1.4836	1.2412 1.4897	1.3749	1.4278	Ave		1.3693			9.7		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.: 680-90076-1 Analy Batch No.: 276064

SDG No.: _____

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

Calibration Start Date: 05/08/2013 23:56 Calibration End Date: 05/09/2013 03:25 Calibration ID: 17761

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														
Dibromofluoromethane	0.7078	0.6856 0.7220	0.6785 0.7206	0.7240	0.7267	Ave		0.7093			2.8		15.0				
Toluene-d8 (Surr)	1.2981	1.1755 1.2622	1.2056 1.3039	1.2650	1.2691	Ave		1.2542			3.8		15.0				
4-Bromofluorobenzene	0.8909	0.9305 0.9072	0.8748 0.9162	0.8946	0.9060	Ave		0.9029			2.0		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.: 680-90076-1

Analy Batch No.: 276064

SDG No.: _____

Instrument ID: MSP

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 23:56

Calibration End Date: 05/09/2013 03:25

Calibration ID: 17761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-276064/2	pe0804q.d
Level 2	IC 680-276064/3	pe0806q.d
Level 3	IC 680-276064/4	pe0808q.d
Level 4	IC 680-276064/5	pe0810q.d
Level 5	IC 680-276064/6	pe0812q.d
Level 6	ICIS 680-276064/7	pe0814q.d
Level 7	IC 680-276064/8	pe0816q.d
Level 8	IC 680-276064/9	pe0818q.d

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	12DC E	Ave	269710	4004 527909	25077 1111908	49108	103590	50.0	1.00 100	5.00 200	10.0	20.0
Chloromethane	12DC E	Ave	315136	5591 617905	29909 1374445	59193	126811	50.0	1.00 100	5.00 200	10.0	20.0
Vinyl chloride	12DC E	Ave	3531 321657	5542 624391	30069 1365374	60230	124406	0.500 50.0	1.00 100	5.00 200	10.0	20.0
1,3-Butadiene	12DC E	Ave	280379	4174 561720	25574 1235942	51366	108988	50.0	1.00 100	5.00 200	10.0	20.0
Bromomethane	12DC E	Ave	61704	950 125850	5979 197774	11646	19605	50.0	1.00 100	5.00 200	10.0	20.0
Chloroethane	12DC E	Ave	105474	1691 208759	10481 432083	21487	41895	50.0	1.00 100	5.00 200	10.0	20.0
Trichlorofluoromethane	12DC E	Ave	300620	4617 596660	27873 1282574	56880	119284	50.0	1.00 100	5.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	12DC E	Ave	215486	3290 423666	20334 890048	40362	85090	50.0	1.00 100	5.00 200	10.0	20.0
1,1-Dichloroethene	12DC E	Ave	196054	3084 392786	18358 841756	36849	76430	50.0	1.00 100	5.00 200	10.0	20.0
Acetone	12DC E	Ave	65416	5995 129300	12776 287849	26616	100	200	10.0 400	20.0	40.0	
Carbon disulfide	12DC E	Ave	618956	9903 1247023	52041 2699507	106451	230377	50.0	1.00 100	5.00 200	10.0	20.0
Methyl acetate	12DC E	Ave	354087	7679 713219	33073 1458900	68888	138360	50.0	1.00 100	5.00 200	10.0	20.0
Methylene Chloride	12DC E	Ave	230919	4690 456205	22741 951688	44715	89480	50.0	1.00 100	5.00 200	10.0	20.0
Methyl tert-butyl ether	12DC E	Ave	1460959	27248 3001953	135353 6200933	280933	573049	100	2.00 200	10.0 400	20.0	40.0
trans-1,2-Dichloroethene	12DC E	Ave	219512	3659 438458	21035 918861	42448	86133	50.0	1.00 100	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.: 680-90076-1 Analy Batch No.: 276064

SDG No.: _____

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

Calibration Start Date: 05/08/2013 23:56 Calibration End Date: 05/09/2013 03:25 Calibration ID: 17761

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,1-Dichloroethane	12DC E	Ave	426524	7946 856200	39315 1749316	80339	165085	50.0	1.00 100	5.00 200	10.0	20.0
Vinyl acetate	12DC E	Ave	878415	16166 1824252	79579 3634769	168417	346016	100	2.00 200	10.0 400	20.0	40.0
2,2-Dichloropropane	12DC E	Ave	297321	4721 622439	27123 1260779	54743	114214	50.0	1.00 100	5.00 200	10.0	20.0
cis-1,2-Dichloroethene	12DC E	Ave	254561	4733 526469	24216 1071143	48044	98222	50.0	1.00 100	5.00 200	10.0	20.0
2-Butanone	12DC E	Ave	331881	6933 708690	29339 1407019	62175	132116	100	2.00 200	10.0 400	20.0	40.0
Bromochloromethane	12DC E	Ave	256961	4697 558821	22817 1073008	47678	97374	50.0	1.00 100	5.00 200	10.0	20.0
Chloroform	12DC E	Ave	405951	6802 867048	37155 1705114	75320	154027	50.0	1.00 100	5.00 200	10.0	20.0
Cyclohexane	DFB	Ave	481463	7208 1030263	42284 2044661	85132	180209	50.0	1.00 100	5.00 200	10.0	20.0
1,1,1-Trichloroethane	DFB	Ave	342486	4974 728253	30286 1493285	61286	128809	50.0	1.00 100	5.00 200	10.0	20.0
Carbon tetrachloride	DFB	Ave	284573	3813 599917	22579 1279583	47469	102258	50.0	1.00 100	5.00 200	10.0	20.0
1,1-Dichloropropene	DFB	Ave	397732	5841 824957	34458 1713857	70245	143001	50.0	1.00 100	5.00 200	10.0	20.0
Benzene	DFB	Ave	1092996	19000 2254236	98451 4887933	196548	402670	50.0	1.00 100	5.00 200	10.0	20.0
1,2-Dichloroethane	DFB	Ave	336638	6424 700854	31896 1461042	62509	127863	50.0	1.00 100	5.00 200	10.0	20.0
Trichloroethene	DFB	Ave	256298	3919 510111	22844 1097240	45119	93131	50.0	1.00 100	5.00 200	10.0	20.0
Methylcyclohexane	DFB	Ave	534552	7556 1057137	44356 2235346	90574	189509	50.0	1.00 100	5.00 200	10.0	20.0
1,2-Dichloropropane	DFB	Ave	344096	5555 681119	29317 1457024	58238	122818	50.0	1.00 100	5.00 200	10.0	20.0
Dibromomethane	DFB	Ave	162453	2887 326695	13975 697182	27975	58468	50.0	1.00 100	5.00 200	10.0	20.0
Bromodichloromethane	DFB	Ave	336977	4730 692394	26179 1501121	53676	115947	50.0	1.00 100	5.00 200	10.0	20.0
2-Chloroethyl vinyl ether	DFB	Ave	460511	7207 920876	36357 1971621	75844	160121	100	2.00 200	10.0 400	20.0	40.0
cis-1,3-Dichloropropene	DFB	Ave	522455	7834 1064109	39580 2302679	84195	180609	50.0	1.00 100	5.00 200	10.0	20.0
4-Methyl-2-pentanone	DFB	Ave	745832	58083 1495674	3140327	122114	256679	100	200	10.0 400	20.0	40.0

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

Lab Name: TestAmerica Savannah Job No.: 680-90076-1 Analy Batch No.: 276064

SDG No.: _____

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

Calibration Start Date: 05/08/2013 23:56 Calibration End Date: 05/09/2013 03:25 Calibration ID: 17761

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Toluene	DFB	Ave		13290	63290	127500	267137		1.00	5.00	10.0	20.0
			741222	1460013	3170061			50.0	100	200		
trans-1,3-Dichloropropene	DFB	Ave		7045	36588	76763	168501		1.00	5.00	10.0	20.0
			483977	998810	2185842			50.0	100	200		
1,1,2-Trichloroethane	DFB	Ave		4036	20305	41024	86226		1.00	5.00	10.0	20.0
			235742	473188	1001865			50.0	100	200		
Tetrachloroethene	CBZ	Ave		3368	19862	39108	81089		1.00	5.00	10.0	20.0
			221589	433476	931142			50.0	100	200		
1,3-Dichloropropane	DFB	Ave		9359	45504	95217	193520		1.00	5.00	10.0	20.0
			532309	1077439	2254746			50.0	100	200		
2-Hexanone	CBZ	Ave		43318		93926	197240			10.0	20.0	40.0
			567585	1139048	2426857			100	200	400		
Dibromochloromethane	CBZ	Ave		3596	18494	40167	88641		1.00	5.00	10.0	20.0
			254792	536723	1178372			50.0	100	200		
1,2-Dibromoethane	DFB	Ave		4803	22211	47375	98421		1.00	5.00	10.0	20.0
			271553	556552	1185040			50.0	100	200		
Chlorobenzene	CBZ	Ave		13748	70543	141716	294444		1.00	5.00	10.0	20.0
			791444	1581032	3401933			50.0	100	200		
Ethylbenzene	CBZ	Ave		23260	125551	260189	552295		1.00	5.00	10.0	20.0
			1536351	3095646	6689296			50.0	100	200		
1,1,1,2-Tetrachloroethane	CBZ	Ave		3880	20450	42867	91607		1.00	5.00	10.0	20.0
			252511	513158	1111315			50.0	100	200		
m-Xylene & p-Xylene	CBZ	Ave		18203	99612	201248	425936		2.00	10.0	20.0	40.0
			1175363	2333520	4940127			100	200	400		
o-Xylene	CBZ	Ave		9057	48243	99625	208250		1.00	5.00	10.0	20.0
			577353	1147420	2448294			50.0	100	200		
Styrene	CBZ	Ave		14069	78576	162201	350014		1.00	5.00	10.0	20.0
			967520	1964229	4219513			50.0	100	200		
Bromoform	CBZ	LinF		2096	11966	25675	57037		1.00	5.00	10.0	20.0
			165242	363359	808865			50.0	100	200		
Isopropylbenzene	CBZ	Ave		19354	112040	230385	496380		1.00	5.00	10.0	20.0
			1364007	2705383	5780061			50.0	100	200		
Bromobenzene	CBZ	Ave		5466	29766	60075	124844		1.00	5.00	10.0	20.0
			336429	674266	1432927			50.0	100	200		
1,1,2,2-Tetrachloroethane	CBZ	Ave		6963	32953	70052	148170		1.00	5.00	10.0	20.0
			398615	810015	1720959			50.0	100	200		
N-Propylbenzene	CBZ	Ave		5789	34907	73848	157066		1.00	5.00	10.0	20.0
			423349	851577	1775689			50.0	100	200		
1,2,3-Trichloropropane	CBZ	Ave		2491	10487	23229	47603		1.00	5.00	10.0	20.0
			125696	253750	530906			50.0	100	200		
2-Chlorotoluene	CBZ	Ave		5468	30458	62550	129527		1.00	5.00	10.0	20.0
			349321	699535	1469797			50.0	100	200		

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

Lab Name: TestAmerica Savannah

Job No.: 680-90076-1

Analy Batch No.: 276064

SDG No.: _____

Instrument ID: MSP

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 23:56

Calibration End Date: 05/09/2013 03:25

Calibration ID: 17761

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,3,5-Trimethylbenzene	CBZ	Ave		19001	110679	229874	483209		1.00	5.00	10.0	20.0
			1331883	2721234	5720387			50.0	100	200		
4-Chlorotoluene	CBZ	Ave		5391	31767	64411	132937		1.00	5.00	10.0	20.0
			352986	706046	1478371			50.0	100	200		
tert-Butylbenzene	CBZ	Ave		16685	96710	198417	416488		1.00	5.00	10.0	20.0
			1128070	2243680	4737756			50.0	100	200		
1,2,4-Trimethylbenzene	CBZ	Ave		20334	111456	232666	480972		1.00	5.00	10.0	20.0
			1303927	2678620	5682142			50.0	100	200		
sec-Butylbenzene	CBZ	Ave		23696	141050	293364	621552		1.00	5.00	10.0	20.0
			1708299	3424745	7196692			50.0	100	200		
p-Isopropyltoluene	CBZ	Ave		18894	109514	236348	493097		1.00	5.00	10.0	20.0
			1363961	2767812	5801619			50.0	100	200		
1,3-Dichlorobenzene	CBZ	Ave		12336	62413	126438	261812		1.00	5.00	10.0	20.0
			702327	1401975	2917778			50.0	100	200		
1,4-Dichlorobenzene	CBZ	Ave		12710	60336	122582	258253		1.00	5.00	10.0	20.0
			695210	1383052	2926951			50.0	100	200		
n-Butylbenzene	CBZ	Ave		17291	103953	217770	468945		1.00	5.00	10.0	20.0
			1318860	2693022	5713100			50.0	100	200		
1,2-Dichlorobenzene	CBZ	Ave		11087	58475	119909	241601		1.00	5.00	10.0	20.0
			648608	1303111	2746841			50.0	100	200		
1,2-Dibromo-3-Chloropropane	CBZ	Ave		1088	4842	11262	23680		1.00	5.00	10.0	20.0
			66359	142752	309110			50.0	100	200		
1,2,4-Trichlorobenzene	CBZ	Ave		6192	28048	59714	129810		1.00	5.00	10.0	20.0
			337453	721279	1542462			50.0	100	200		
Hexachlorobutadiene	CBZ	Ave		2987	14572	28478	57788		1.00	5.00	10.0	20.0
			154605	307641	637410			50.0	100	200		
Naphthalene	CBZ	Ave		11861	55438	131865	284222		1.00	5.00	10.0	20.0
			797987	1779155	3763494			50.0	100	200		
1,2,3-Trichlorobenzene	CBZ	Ave		5236	24918	54860	113293		1.00	5.00	10.0	20.0
			300059	635895	1346704			50.0	100	200		
1,3-Dichloropropene, Total	DFB	Ave		14879	76169	160959	349111		2.00	10.0	20.0	40.0
			1006432	2062919	4488522			100	200	400		
a-Methylstyrene TIC	CBZ	Ave		9202	52260	114769	249085		1.00	5.00	10.0	20.0
			695289	1411747	2999513			50.0	100	200		
Dibromofluoromethane	12DC E	Ave		3473	17883	37173	76198		1.00	5.00	10.0	20.0
			199439	420722	863650			50.0	100	200		
Toluene-d8 (Surr)	DFB	Ave		16281	88414	181199	376625		1.00	5.00	10.0	20.0
			1042083	2044206	4430412			50.0	100	200		
4-Bromofluorobenzene	CBZ	Ave		7547	36832	74675	158057		1.00	5.00	10.0	20.0
			432282	863205	1844716			50.0	100	200		

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

Lab Name: TestAmerica Savannah Job No.: 680-90076-1 Analy Batch No.: 276064

SDG No.: _____

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

Calibration Start Date: 05/08/2013 23:56 Calibration End Date: 05/09/2013 03:25 Calibration ID: 17761

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/4p050813.b/pe0804q.d
 Lab Smp Id: IC; 8260-0005 Client Smp ID: 8260-0005
 Inj Date : 08-MAY-2013 23:56
 Operator : ajmc Inst ID: MSP5973.i
 Smp Info : IC; 8260-0005=[4P050813]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSP5973.i/4p050813.b/P-18260B-m.m
 Meth Date : 09-May-2013 08:57 mcnamara Quant Type: ISTD
 Cal Date : 08-MAY-2013 23:56 Cal File: pe0804q.d
 Als bottle: 2 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85		1.064	1.064	(0.293)	1937	0.50000	0.32
2 CHLOROMETHANE	50		1.179	1.179	(0.325)	3510	0.50000	0.62
3 VINYL CHLORIDE	62		1.216	1.216	(0.335)	3531	0.50000	0.58
4 BUTADIENE	54		1.228	1.228	(0.338)	2866	0.50000	0.58
5 BROMOMETHANE	96		1.374	1.374	(0.378)	962	0.50000	3.0
6 CHLOROETHANE	64		1.423	1.423	(0.392)	1800	0.50000	0.74
7 TRICHLOROFLUOROMETHANE	101		1.538	1.538	(0.424)	3077	0.50000	0.56
11 TRICHLOROTRIFLUOROETHANE(113)	101		1.806	1.806	(0.497)	2145	0.50000	0.47
13 1 1-DICHLOROETHENE	96		1.842	1.842	(0.507)	1954	0.50000	0.44
14 ACETONE	58		1.916	1.916	(0.528)	907	0.50000	1.4
16 CARBON DISULFIDE	76		1.989	1.989	(0.548)	6894	0.50000	0.47
18 METHYL ACETATE	43		2.092	2.092	(0.576)	4049	0.50000	0.45
20 METHYLENE CHLORIDE	84		2.183	2.183	(0.601)	2736	0.50000	0.51

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.305	2.305	(0.635)	14388	0.50000	0.88
23 trans-1,2-DICHLOROETHENE	96	2.323	2.323	(0.640)	2293	0.50000	0.47
27 1,1-DICHLOROETHANE	63	2.639	2.639	(0.727)	4075	0.50000	0.49
28 VINYL ACETATE	43	2.652	2.652	(0.730)	8486	0.50000	1.2
32 2-BUTANONE	43	3.059	3.059	(0.842)	3832	0.50000	1.2
30 2,2-DICHLOROPROPANE	77	3.017	3.017	(0.831)	3135	0.50000	0.50
31 cis-1,2-DICHLOROETHENE	96	3.041	3.041	(0.837)	2464	0.50000	0.45
34 BROMOCHLOROMETHANE	49	3.211	3.211	(0.884)	1989	0.50000	0.38
37 CHLOROFORM	83	3.254	3.254	(0.896)	4126	0.50000	0.49
§ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	2015	0.50000	0.47
39 1,1,1-TRICHLOROETHANE	97	3.357	3.357	(0.857)	3316	0.50000	0.56
38 CYCLOHEXANE	56	3.339	3.339	(0.852)	4842	0.50000	0.54
41 CARBON TETRACHLORIDE	117	3.449	3.449	(0.880)	2334	0.50000	0.45
42 1,1-DICHLOROPROPENE	75	3.473	3.473	(0.887)	3789	0.50000	0.62
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	262028	50.00000	
44 BENZENE	78	3.613	3.613	(0.922)	11015	0.50000	0.56
46 1,2-DICHLOROETHANE	62	3.686	3.686	(0.941)	3212	0.50000	0.57
* 48 1,4-DIFLUOROENZENE	114	3.917	3.917	(1.000)	726445	50.00000	
49 TRICHLOROETHENE	130	4.081	4.081	(1.042)	2524	0.50000	0.54
51 METHYL CYCLOHEXANE	83	4.166	4.166	(1.064)	4803	0.50000	0.49
52 1,2-DICHLOROPROPANE	63	4.288	4.288	(1.095)	2989	0.50000	0.57
55 DIBROMOMETHANE	93	4.373	4.373	(1.116)	1431	0.50000	0.48
56 BROMODICHLOROMETHANE	83	4.483	4.483	(1.144)	2634	0.50000	0.46
57 2-CHLOROETHYL VINYL ETHER	63	4.714	4.714	(1.203)	3671	0.50000	0.89
58 cis-1,3-DICHLOROPROPENE	75	4.817	4.817	(1.230)	4047	0.50000	0.50
59 4-METHYL-2-PENTANONE (MIBK)	43	4.927	4.927	(1.258)	6027	0.50000	0.96
§ 60 TOLUENE-d8	98	4.982	4.982	(1.272)	9949	0.50000	0.53
61 TOLUENE	92	5.030	5.030	(1.284)	8695	0.50000	0.66
62 trans-1,3-DICHLOROPROPENE	75	5.261	5.261	(1.343)	3659	0.50000	0.47
64 1,1,2-TRICHLOROETHANE	83	5.395	5.395	(1.377)	1967	0.50000	0.45
65 TETRACHLOROETHENE	164	5.432	5.432	(0.888)	2318	0.50000	0.52
66 1,3-DICHLOROPROPANE	76	5.535	5.535	(1.413)	4683	0.50000	0.55
67 2-HEXANONE	43	5.572	5.572	(0.911)	4550	0.50000	0.96
68 DIBROMOCHLOROMETHANE	129	5.681	5.681	(0.928)	1879	0.50000	0.38
69 1,2-DIBROMOETHANE	107	5.785	5.785	(1.477)	2518	0.50000	0.50
* 71 CHLOROBENZENE-d5	82	6.119	6.119	(1.000)	419167	50.00000	
72 CHLOROBENZENE	112	6.138	6.138	(1.003)	7468	0.50000	0.48
73 ETHYL BENZENE	91	6.198	6.198	(1.013)	13477	0.50000	0.49
74 1,1,1,2-TETRACHLOROETHANE	131	6.211	6.211	(1.015)	2022	0.50000	0.42
76 m,p-XYLENE	106	6.296	6.296	(1.029)	10498	0.50000	0.96
77 o-XYLENE	106	6.618	6.618	(1.082)	4910	0.50000	0.46
78 STYRENE	104	6.642	6.642	(1.085)	7791	0.50000	0.43
79 BROMOFORM	173	6.813	6.813	(1.113)	1205	0.50000	0.33
80 ISOPROPYLBENZENE	105	6.904	6.904	(1.128)	11289	0.50000	0.42
§ 82 4-BROMOFLUOROENZENE	95	7.068	7.068	(1.155)	5397	0.50000	0.65
83 BROMOBENZENE	156	7.184	7.184	(1.174)	3066	0.50000	0.45
84 1,1,2,2-TETRACHLOROETHANE	83	7.214	7.214	(1.179)	3346	0.50000	0.44

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
86 1 2 3-TRICHLOROPROPANE	110	7.263	7.263	(1.187)	1120	0.50000	0.50
85 n-PROPYLBENZENE	120	7.245	7.245	(1.184)	3689	0.50000	0.46
88 2-CHLOROTOLUENE	126	7.336	7.336	(1.199)	3315	0.50000	0.48
89 1 3 5-TRIMETHYLBENZENE	105	7.391	7.391	(1.208)	11033	0.50000	0.45
90 4-CHLOROTOLUENE	126	7.427	7.427	(1.214)	3357	0.50000	0.47
91 a-Methylstyrene TIC	118	7.585	7.585	(1.240)	4930	0.50000	0.37(a)
92 tert-BUTYLBENZENE	119	7.646	7.646	(1.250)	9420	0.50000	0.44
94 1 2 4-TRIMETHYLBENZENE	105	7.701	7.701	(1.258)	10878	0.50000	0.44
95 sec-BUTYLBENZENE	105	7.829	7.829	(1.279)	13621	0.50000	0.43
97 1 3-DICHLOROBENZENE	146	7.950	7.950	(1.299)	6792	0.50000	0.48
96 p-ISOPROPYLTOLUENE	119	7.950	7.950	(1.299)	11050	0.50000	0.42
98 1 4-DICHLOROBENZENE	146	8.036	8.036	(1.313)	7128	0.50000	0.51
99 n-BUTYLBENZENE	91	8.291	8.291	(1.355)	9989	0.50000	0.41
100 1 2-DICHLOROBENZENE	146	8.346	8.346	(1.364)	6344	0.50000	0.48
101 1 2-DIBROMO-3-CHLOROPROPANE	157	9.015	9.015	(1.473)	570	0.50000	0.36
102 1 2 4-TRICHLOROBENZENE	180	9.678	9.678	(1.582)	3705	0.50000	0.46
103 HEXACHLOROBUTADIENE	225	9.775	9.775	(1.597)	1749	0.50000	0.51
104 NAPHTHALENE	128	9.891	9.891	(1.616)	8090	0.50000	0.39
105 1 2 3-TRICHLOROBENZENE	180	10.098	10.098	(1.650)	3245	0.50000	0.45
M 106 1,2-DICHLOROETHENE (total)	96				4757	0.50000	0.92
M 107 1,3-DICHLOROPROPENE (total)	75				7707	0.50000	0.97
M 108 XYLENE (total)	106				15408	0.50000	1.4

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: pe0804q.d

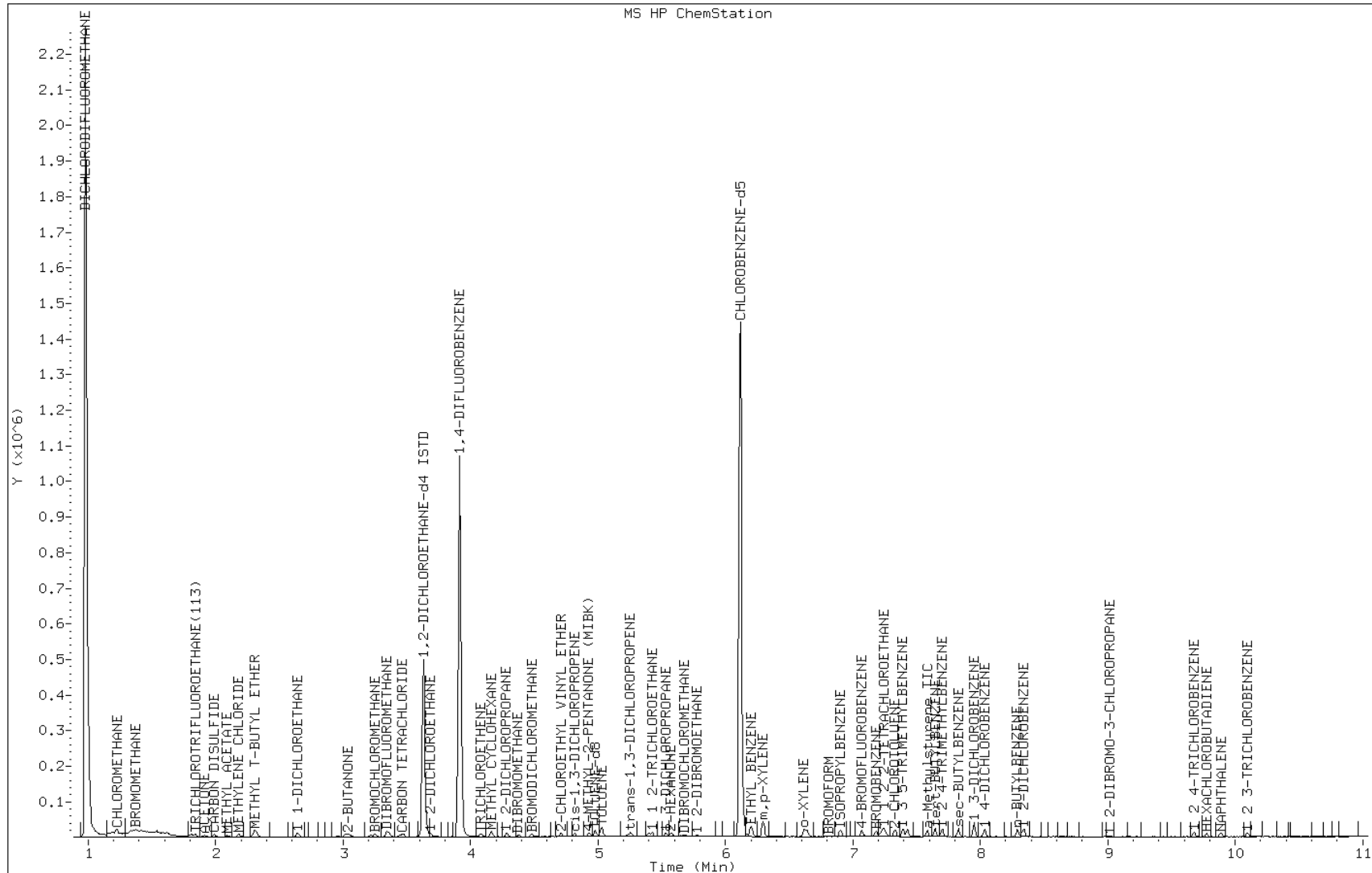
Date: 08-MAY-2013 23:56

Client ID: 8260-0005

Instrument: MSP5973.i

Sample Info: IC; 8260-0005=[4P050813]

Operator: ajmc



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/4p050813.b/pe0806q.d
Lab Smp Id: IC; 8260-001 Client Smp ID: 8260-001
Inj Date : 09-MAY-2013 00:25
Operator : ajmc Inst ID: MSP5973.i
Smp Info : IC; 8260-001=[4P050813]
Misc Info :
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSP5973.i/4p050813.b/P-18260B-m.m
Meth Date : 09-May-2013 08:58 mcnamara Quant Type: ISTD
Cal Date : 15-APR-2013 11:20 Cal File: pd1506q.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
1 DICHLORODIFLUOROMETHANE	85	1.064	1.064 (0.293)	4004	1.00000	0.70	
2 CHLOROMETHANE	50	1.167	1.167 (0.321)	5591	1.00000	1.0	
3 VINYL CHLORIDE	62	1.210	1.210 (0.333)	5542	1.00000	0.94	
4 BUTADIENE	54	1.222	1.222 (0.336)	4174	1.00000	0.87	
5 BROMOMETHANE	96	1.368	1.368 (0.377)	950	1.00000	3.2	
6 CHLOROETHANE	64	1.416	1.416 (0.390)	1691	1.00000	0.76	
7 TRICHLOROFUOROMETHANE	101	1.532	1.532 (0.422)	4617	1.00000	0.87	
11 TRICHLOROTRIFLUOROETHANE(113)	101	1.806	1.806 (0.497)	3290	1.00000	0.75	
13 1 1-DICHLOROETHENE	96	1.842	1.842 (0.507)	3084	1.00000	0.74	
14 ACETONE	58	1.915	1.915 (0.528)	1707	2.00000	2.8	
16 CARBON DISULFIDE	76	1.988	1.988 (0.548)	9903	1.00000	0.74	
18 METHYL ACETATE	43	2.092	2.092 (0.576)	7679	1.00000	0.89	
20 METHYLENE CHLORIDE	84	2.177	2.177 (0.600)	4690	1.00000	0.92	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.305	2.305	(0.635)	27248	2.00000	1.7
23 trans-1,2-DICHLOROETHENE	96	2.323	2.323	(0.640)	3659	1.00000	0.80
27 1,1-DICHLOROETHANE	63	2.633	2.633	(0.725)	7946	1.00000	0.98
28 VINYL ACETATE	43	2.645	2.645	(0.729)	16166	2.00000	2.3
32 2-BUTANONE	43	3.059	3.059	(0.842)	6933	2.00000	2.2
30 2,2-DICHLOROPROPANE	77	3.016	3.016	(0.831)	4721	1.00000	0.80
31 cis-1,2-DICHLOROETHENE	96	3.041	3.041	(0.837)	4733	1.00000	0.90
34 BROMOCHLOROMETHANE	49	3.205	3.205	(0.883)	4697	1.00000	0.93
37 CHLOROFORM	83	3.248	3.248	(0.894)	6802	1.00000	0.86
§ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	3473	1.00000	0.84
39 1,1,1-TRICHLOROETHANE	97	3.357	3.357	(0.857)	4974	1.00000	0.87
38 CYCLOHEXANE	56	3.345	3.345	(0.854)	7208	1.00000	0.86
41 CARBON TETRACHLORIDE	117	3.442	3.442	(0.879)	3813	1.00000	0.77
42 1,1-DICHLOROPROPENE	75	3.467	3.467	(0.885)	5841	1.00000	0.98
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	253292	50.00000	
44 BENZENE	78	3.619	3.619	(0.924)	19000	1.00000	1.0
46 1,2-DICHLOROETHANE	62	3.686	3.686	(0.941)	6424	1.00000	1.2
* 48 1,4-DIFLUOROENZENE	114	3.917	3.917	(1.000)	692532	50.00000	
49 TRICHLOROETHENE	130	4.081	4.081	(1.042)	3919	1.00000	0.88
51 METHYL CYCLOHEXANE	83	4.166	4.166	(1.064)	7556	1.00000	0.81
52 1,2-DICHLOROPROPANE	63	4.282	4.282	(1.093)	5555	1.00000	1.1
55 DIBROMOMETHANE	93	4.373	4.373	(1.116)	2887	1.00000	1.0
56 BROMODICHLOROMETHANE	83	4.476	4.476	(1.143)	4730	1.00000	0.87
57 2-CHLOROETHYL VINYL ETHER	63	4.708	4.708	(1.202)	7207	2.00000	1.8
58 cis-1,3-DICHLOROPROPENE	75	4.817	4.817	(1.230)	7834	1.00000	0.99
59 4-METHYL-2-PENTANONE (MIBK)	43	4.927	4.927	(1.258)	11667	2.00000	2.0
§ 60 TOLUENE-d8	98	4.975	4.975	(1.270)	16281	1.00000	0.92
61 TOLUENE	92	5.030	5.030	(1.284)	13290	1.00000	1.0
62 trans-1,3-DICHLOROPROPENE	75	5.261	5.261	(1.343)	7045	1.00000	0.95
64 1,1,2-TRICHLOROETHANE	83	5.401	5.401	(1.379)	4036	1.00000	0.98
65 TETRACHLOROETHENE	164	5.425	5.425	(0.887)	3368	1.00000	0.81
66 1,3-DICHLOROPROPANE	76	5.535	5.535	(1.413)	9359	1.00000	1.1
67 2-HEXANONE	43	5.571	5.571	(0.911)	8701	2.00000	1.9
68 DIBROMOCHLOROMETHANE	129	5.675	5.675	(0.927)	3596	1.00000	0.76
69 1,2-DIBROMOETHANE	107	5.778	5.778	(1.475)	4803	1.00000	0.99
* 71 CHLOROBENZENE-d5	82	6.119	6.119	(1.000)	405532	50.00000	
72 CHLOROBENZENE	112	6.143	6.143	(1.004)	13748	1.00000	0.93
73 ETHYL BENZENE	91	6.198	6.198	(1.013)	23260	1.00000	0.88
74 1,1,1,2-TETRACHLOROETHANE	131	6.210	6.210	(1.015)	3880	1.00000	0.85
76 m,p-XYLENE	106	6.295	6.295	(1.029)	18203	2.00000	1.7
77 o-XYLENE	106	6.618	6.618	(1.082)	9057	1.00000	0.89
78 STYRENE	104	6.642	6.642	(1.085)	14069	1.00000	0.82
79 BROMOFORM	173	6.813	6.813	(1.113)	2096	1.00000	0.62
80 ISOPROPYLBENZENE	105	6.904	6.904	(1.128)	19354	1.00000	0.76
§ 82 4-BROMOFLUOROENZENE	95	7.068	7.068	(1.155)	7547	1.00000	0.97
83 BROMOBENZENE	156	7.184	7.184	(1.174)	5466	1.00000	0.86
84 1,1,2,2-TETRACHLOROETHANE	83	7.220	7.220	(1.180)	6963	1.00000	0.97

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
86 1 2 3-TRICHLOROPROPANE	110	7.257	7.257	(1.186)	2491	1.00000	1.1
85 n-PROPYLBENZENE	120	7.238	7.238	(1.183)	5789	1.00000	0.76
88 2-CHLOROTOLUENE	126	7.330	7.330	(1.198)	5468	1.00000	0.84
89 1 3 5-TRIMETHYLBENZENE	105	7.390	7.390	(1.208)	19001	1.00000	0.82
90 4-CHLOROTOLUENE	126	7.427	7.427	(1.214)	5391	1.00000	0.81
91 a-Methylstyrene TIC	118	7.585	7.585	(1.240)	9202	1.00000	0.74(a)
92 tert-BUTYLBENZENE	119	7.646	7.646	(1.250)	16685	1.00000	0.83
94 1 2 4-TRIMETHYLBENZENE	105	7.701	7.701	(1.258)	20334	1.00000	0.87
95 sec-BUTYLBENZENE	105	7.828	7.828	(1.279)	23696	1.00000	0.79
97 1 3-DICHLOROBENZENE	146	7.956	7.956	(1.300)	12336	1.00000	0.93
96 p-ISOPROPYLTOLUENE	119	7.950	7.950	(1.299)	18894	1.00000	0.77
98 1 4-DICHLOROBENZENE	146	8.035	8.035	(1.313)	12710	1.00000	0.95
99 n-BUTYLBENZENE	91	8.291	8.291	(1.355)	17291	1.00000	0.75
100 1 2-DICHLOROBENZENE	146	8.346	8.346	(1.364)	11087	1.00000	0.90
101 1 2-DIBROMO-3-CHLOROPROPANE	157	9.015	9.015	(1.473)	1088	1.00000	0.75
102 1 2 4-TRICHLOROBENZENE	180	9.678	9.678	(1.582)	6192	1.00000	0.84
103 HEXACHLOROBUTADIENE	225	9.775	9.775	(1.598)	2987	1.00000	0.93
104 NAPHTHALENE	128	9.891	9.891	(1.616)	11861	1.00000	0.63
105 1 2 3-TRICHLOROBENZENE	180	10.098	10.098	(1.650)	5236	1.00000	0.81
M 106 1,2-DICHLOROETHENE (total)	96				8393	2.00000	1.7
M 107 1,3-DICHLOROPROPENE (total)	75				14879	2.00000	1.9
M 108 XYLENE (total)	106				27260	3.00000	2.6

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: pe0806q.d

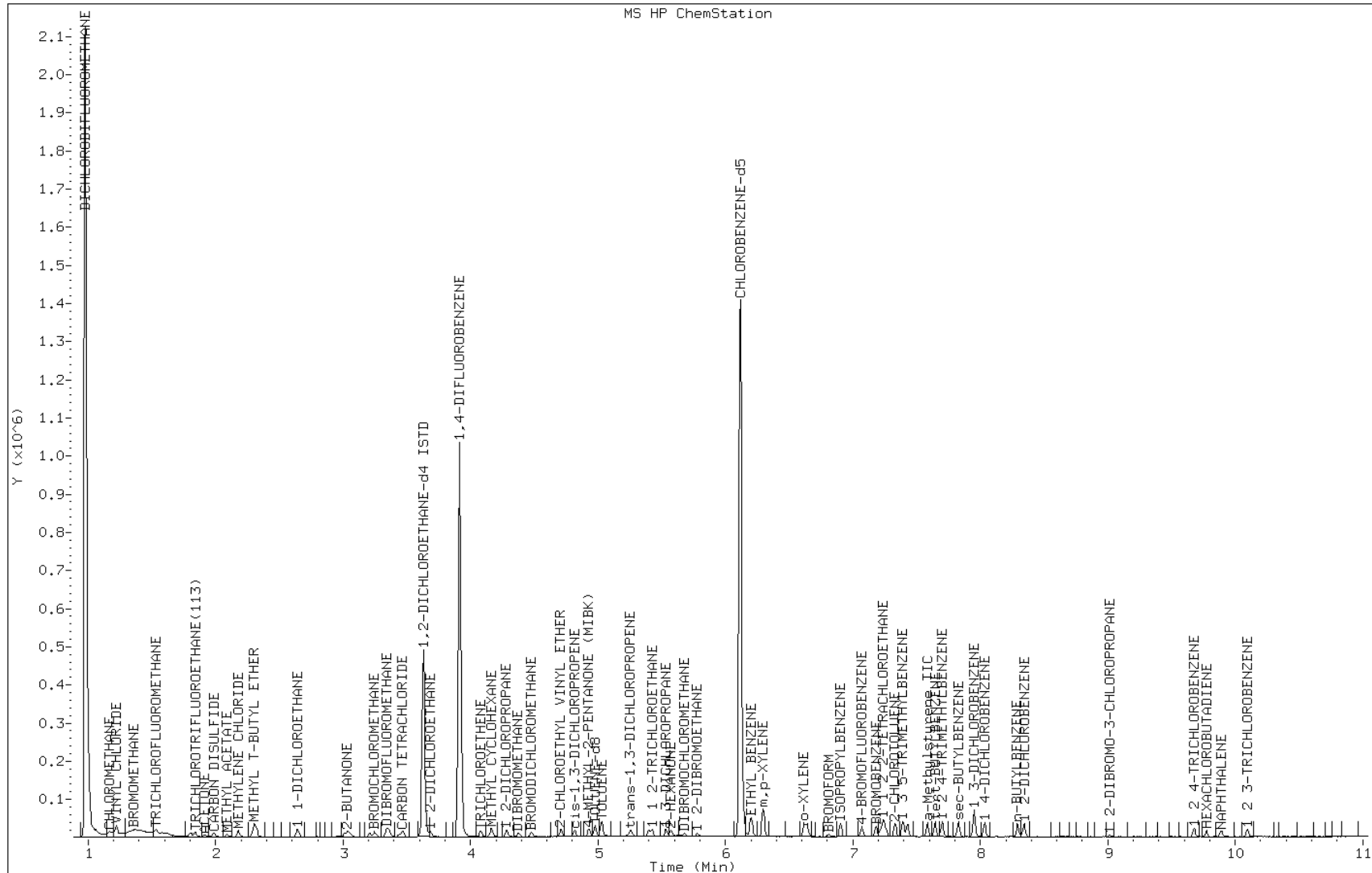
Date: 09-MAY-2013 00:25

Client ID: 8260-001

Instrument: MSP5973.i

Sample Info: IC; 8260-001=[4P050813]

Operator: ajmc



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/4p050813.b/pe0808q.d
Lab Smp Id: IC; 8260-005 Client Smp ID: 8260-005
Inj Date : 09-MAY-2013 00:55
Operator : ajmc Inst ID: MSP5973.i
Smp Info : IC; 8260-005=[4P050813]
Misc Info :
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSP5973.i/4p050813.b/P-18260B-m.m
Meth Date : 09-May-2013 08:58 mcnamara Quant Type: ISTD
Cal Date : 15-APR-2013 11:50 Cal File: pd1508q.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.064	1.064	(0.293)	25077	5.00000	4.4
2 CHLOROMETHANE	50	1.173	1.173	(0.323)	29909	5.00000	5.2
3 VINYL CHLORIDE	62	1.210	1.210	(0.333)	30069	5.00000	4.9
4 BUTADIENE	54	1.228	1.228	(0.338)	25574	5.00000	5.1
5 BROMOMETHANE	96	1.368	1.368	(0.377)	5979	5.00000	6.0
6 CHLOROETHANE	64	1.423	1.423	(0.392)	10481	5.00000	4.7
7 TRICHLOROFLUOROMETHANE	101	1.538	1.538	(0.424)	27873	5.00000	5.1
11 TRICHLOROTRIFLUOROETHANE(113)	101	1.806	1.806	(0.497)	20334	5.00000	4.6
13 1 1-DICHLOROETHENE	96	1.843	1.843	(0.507)	18358	5.00000	4.4
14 ACETONE	58	1.916	1.916	(0.528)	5995	10.0000	9.3
16 CARBON DISULFIDE	76	1.989	1.989	(0.548)	52041	5.00000	3.9
18 METHYL ACETATE	43	2.092	2.092	(0.576)	33073	5.00000	3.8
20 METHYLENE CHLORIDE	84	2.183	2.183	(0.601)	22741	5.00000	4.4

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.305	2.305	(0.635)	135353	10.0000	8.6
23 trans-1 2-DICHLOROETHENE	96	2.323	2.323	(0.640)	21035	5.00000	4.5
27 1 1-DICHLOROETHANE	63	2.639	2.639	(0.727)	39315	5.00000	4.7
28 VINYL ACETATE	43	2.646	2.646	(0.729)	79579	10.0000	11
32 2-BUTANONE	43	3.059	3.059	(0.842)	29339	10.0000	9.0
30 2 2-DICHLOROPROPANE	77	3.017	3.017	(0.831)	27123	5.00000	4.5
31 cis-1 2-DICHLOROETHENE	96	3.041	3.041	(0.837)	24216	5.00000	4.5
34 BROMOCHLOROMETHANE	49	3.211	3.211	(0.884)	22817	5.00000	4.4
37 CHLOROFORM	83	3.254	3.254	(0.896)	37155	5.00000	4.6
§ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	17883	5.00000	4.3
39 1 1 1-TRICHLOROETHANE	97	3.357	3.357	(0.857)	30286	5.00000	5.1
38 CYCLOHEXANE	56	3.345	3.345	(0.854)	42284	5.00000	4.8
41 CARBON TETRACHLORIDE	117	3.442	3.442	(0.879)	22579	5.00000	4.4
42 1 1-DICHLOROPROPENE	75	3.473	3.473	(0.887)	34458	5.00000	5.4
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	263560	50.0000	
44 BENZENE	78	3.619	3.619	(0.924)	98451	5.00000	5.0
46 1 2-DICHLOROETHANE	62	3.686	3.686	(0.941)	31896	5.00000	5.4
* 48 1,4-DIFLUOROENZENE	114	3.917	3.917	(1.000)	733352	50.0000	
49 TRICHLOROETHENE	130	4.081	4.081	(1.042)	22844	5.00000	4.9
51 METHYL CYCLOHEXANE	83	4.166	4.166	(1.064)	44356	5.00000	4.6
52 1 2-DICHLOROPROPANE	63	4.282	4.282	(1.093)	29317	5.00000	5.4
55 DIBROMOMETHANE	93	4.373	4.373	(1.116)	13975	5.00000	4.7
56 BROMODICHLOROMETHANE	83	4.477	4.477	(1.143)	26179	5.00000	4.6
57 2-CHLOROETHYL VINYL ETHER	63	4.708	4.708	(1.202)	36357	10.0000	9.0
58 cis-1,3-DICHLOROPROPENE	75	4.817	4.817	(1.230)	39580	5.00000	4.7
59 4-METHYL-2-PENTANONE (MIBK)	43	4.927	4.927	(1.258)	58083	10.0000	9.3
§ 60 TOLUENE-d8	98	4.976	4.976	(1.270)	88414	5.00000	4.8
61 TOLUENE	92	5.030	5.030	(1.284)	63290	5.00000	4.8
62 trans-1,3-DICHLOROPROPENE	75	5.261	5.261	(1.343)	36588	5.00000	4.7
64 1 1 2-TRICHLOROETHANE	83	5.395	5.395	(1.377)	20305	5.00000	4.7
65 TETRACHLOROETHENE	164	5.426	5.426	(0.887)	19862	5.00000	4.7
66 1 3-DICHLOROPROPANE	76	5.529	5.529	(1.412)	45504	5.00000	5.2
67 2-HEXANONE	43	5.572	5.572	(0.911)	43318	10.0000	9.3
68 DIBROMOCHLOROMETHANE	129	5.681	5.681	(0.928)	18494	5.00000	3.9
69 1 2-DIBROMOETHANE	107	5.779	5.779	(1.475)	22211	5.00000	4.4
* 71 CHLOROBENZENE-d5	82	6.119	6.119	(1.000)	421034	50.0000	
72 CHLOROBENZENE	112	6.138	6.138	(1.003)	70543	5.00000	4.7
73 ETHYL BENZENE	91	6.198	6.198	(1.013)	125551	5.00000	4.7
74 1,1,1,2-TETRACHLOROETHANE	131	6.211	6.211	(1.015)	20450	5.00000	4.5
76 m,p-XYLENE	106	6.296	6.296	(1.029)	99612	10.0000	9.4
77 o-XYLENE	106	6.618	6.618	(1.082)	48243	5.00000	4.7
78 STYRENE	104	6.642	6.642	(1.085)	78576	5.00000	4.5
79 BROMOFORM	173	6.813	6.813	(1.113)	11966	5.00000	3.6
80 ISOPROPYLBENZENE	105	6.904	6.904	(1.128)	112040	5.00000	4.4
§ 82 4-BROMOFLUOROENZENE	95	7.068	7.068	(1.155)	36832	5.00000	4.7
83 BROMOBENZENE	156	7.184	7.184	(1.174)	29766	5.00000	4.6
84 1 1 2 2-TETRACHLOROETHANE	83	7.220	7.220	(1.180)	32953	5.00000	4.5

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
86 1 2 3-TRICHLOROPROPANE	110	7.263	7.263	(1.187)	10487	5.00000	4.7
85 n-PROPYLBENZENE	120	7.239	7.239	(1.183)	34907	5.00000	4.6
88 2-CHLOROTOLUENE	126	7.336	7.336	(1.199)	30458	5.00000	4.6
89 1 3 5-TRIMETHYLBENZENE	105	7.397	7.397	(1.209)	110679	5.00000	4.7
90 4-CHLOROTOLUENE	126	7.427	7.427	(1.214)	31767	5.00000	4.7
91 a-Methylstyrene TIC	118	7.585	7.585	(1.240)	52260	5.00000	4.2(a)
92 tert-BUTYLBENZENE	119	7.646	7.646	(1.250)	96710	5.00000	4.7
94 1 2 4-TRIMETHYLBENZENE	105	7.701	7.701	(1.258)	111456	5.00000	4.7
95 sec-BUTYLBENZENE	105	7.829	7.829	(1.279)	141050	5.00000	4.6
97 1 3-DICHLOROBENZENE	146	7.950	7.950	(1.299)	62413	5.00000	4.7
96 p-ISOPROPYLTOLUENE	119	7.950	7.950	(1.299)	109514	5.00000	4.4
98 1 4-DICHLOROBENZENE	146	8.036	8.036	(1.313)	60336	5.00000	4.5
99 n-BUTYLBENZENE	91	8.291	8.291	(1.355)	103953	5.00000	4.5
100 1 2-DICHLOROBENZENE	146	8.346	8.346	(1.364)	58475	5.00000	4.7
101 1 2-DIBROMO-3-CHLOROPROPANE	157	9.021	9.021	(1.474)	4842	5.00000	3.4
102 1 2 4-TRICHLOROBENZENE	180	9.678	9.678	(1.582)	28048	5.00000	3.8
103 HEXACHLOROBUTADIENE	225	9.775	9.775	(1.597)	14572	5.00000	4.5
104 NAPHTHALENE	128	9.891	9.891	(1.616)	55438	5.00000	3.1
105 1 2 3-TRICHLOROBENZENE	180	10.098	10.098	(1.650)	24918	5.00000	3.9
M 106 1,2-DICHLOROETHENE (total)	96				45252	10.0000	9.0
M 107 1,3-DICHLOROPROPENE (total)	75				76169	10.0000	9.4
M 108 XYLENE (total)	106				147855	15.0000	14

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: pe0808q.d

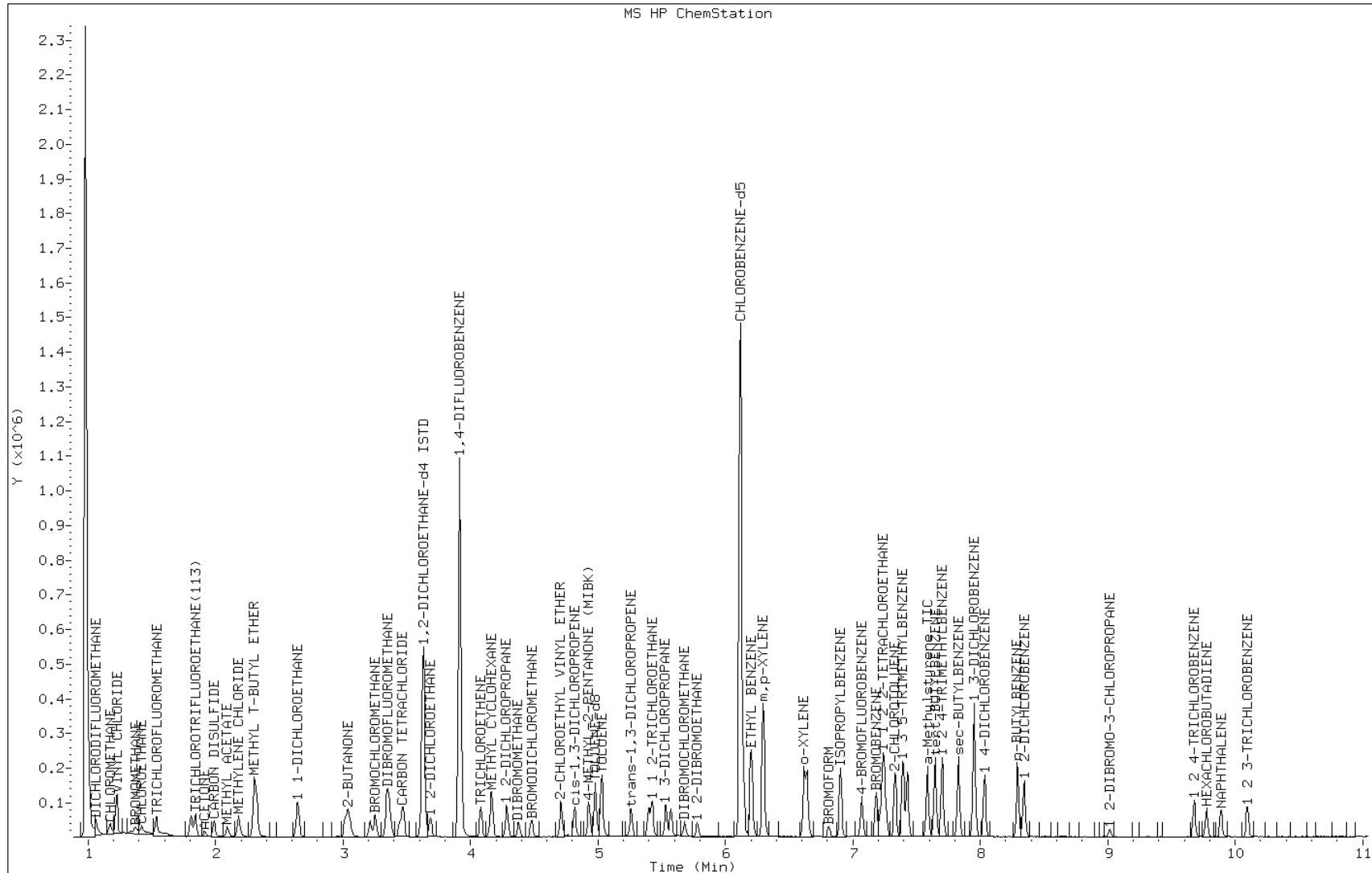
Date: 09-MAY-2013 00:55

Client ID: 8260-005

Instrument: MSP5973.i

Sample Info: IC; 8260-005=[4P050813]

Operator: ajmc



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/4p050813.b/pe0810q.d
 Lab Smp Id: IC; 8260-010 Client Smp ID: 8260-010
 Inj Date : 09-MAY-2013 01:25
 Operator : ajmc Inst ID: MSP5973.i
 Smp Info : IC; 8260-010=[4P050813]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSP5973.i/4p050813.b/P-18260B-m.m
 Meth Date : 09-May-2013 08:58 mcnamara Quant Type: ISTD
 Cal Date : 15-APR-2013 12:20 Cal File: pd1510q.d
 Als bottle: 5 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85		1.064	1.064	(0.293)	49108	10.0000	9.1
2 CHLOROMETHANE	50		1.173	1.173	(0.323)	59193	10.0000	10
3 VINYL CHLORIDE	62		1.210	1.210	(0.333)	60230	10.0000	10
4 BUTADIENE	54		1.228	1.228	(0.338)	51366	10.0000	10
5 BROMOMETHANE	96		1.368	1.368	(0.377)	11646	10.0000	9.7
6 CHLOROETHANE	64		1.417	1.417	(0.390)	21487	10.0000	10
7 TRICHLOROFLUOROMETHANE	101		1.538	1.538	(0.424)	56880	10.0000	11
11 TRICHLOROTRIFLUOROETHANE(113)	101		1.806	1.806	(0.497)	40362	10.0000	9.5
13 1 1-DICHLOROETHENE	96		1.842	1.842	(0.507)	36849	10.0000	9.3
14 ACETONE	58		1.915	1.915	(0.528)	12776	20.0000	20
16 CARBON DISULFIDE	76		1.988	1.988	(0.548)	106451	10.0000	8.5
18 METHYL ACETATE	43		2.092	2.092	(0.576)	68888	10.0000	8.6
20 METHYLENE CHLORIDE	84		2.177	2.177	(0.600)	44715	10.0000	9.2

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.305	2.305	(0.635)	280933	20.0000	19
23 trans-1,2-DICHLOROETHENE	96	2.323	2.323	(0.640)	42448	10.0000	9.6
27 1,1-DICHLOROETHANE	63	2.639	2.639	(0.727)	80339	10.0000	10
28 VINYL ACETATE	43	2.645	2.645	(0.729)	168417	20.0000	22
32 2-BUTANONE	43	3.059	3.059	(0.842)	62175	20.0000	20
30 2,2-DICHLOROPROPANE	77	3.016	3.016	(0.831)	54743	10.0000	9.6
31 cis-1,2-DICHLOROETHENE	96	3.041	3.041	(0.837)	48044	10.0000	9.4
34 BROMOCHLOROMETHANE	49	3.211	3.211	(0.884)	47678	10.0000	9.7
37 CHLOROFORM	83	3.254	3.254	(0.896)	75320	10.0000	9.7
§ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	37173	10.0000	9.4
39 1,1,1-TRICHLOROETHANE	97	3.357	3.357	(0.857)	61286	10.0000	10
38 CYCLOHEXANE	56	3.345	3.345	(0.854)	85132	10.0000	10
41 CARBON TETRACHLORIDE	117	3.442	3.442	(0.879)	47469	10.0000	9.7
42 1,1-DICHLOROPROPENE	75	3.473	3.473	(0.887)	70245	10.0000	11
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	256736	50.0000	
44 BENZENE	78	3.619	3.619	(0.924)	196548	10.0000	10
46 1,2-DICHLOROETHANE	62	3.686	3.686	(0.941)	62509	10.0000	11
* 48 1,4-DIFLUOROENZENE	114	3.917	3.917	(1.000)	716198	50.0000	
49 TRICHLOROETHENE	130	4.081	4.081	(1.042)	45119	10.0000	10
51 METHYL CYCLOHEXANE	83	4.166	4.166	(1.064)	90574	10.0000	9.8
52 1,2-DICHLOROPROPANE	63	4.282	4.282	(1.093)	58238	10.0000	11
55 DIBROMOMETHANE	93	4.373	4.373	(1.116)	27975	10.0000	9.8
56 BROMODICHLOROMETHANE	83	4.477	4.477	(1.143)	53676	10.0000	9.7
57 2-CHLOROETHYL VINYL ETHER	63	4.708	4.708	(1.202)	75844	20.0000	19
58 cis-1,3-DICHLOROPROPENE	75	4.817	4.817	(1.230)	84195	10.0000	10
59 4-METHYL-2-PENTANONE (MIBK)	43	4.927	4.927	(1.258)	122114	20.0000	20
§ 60 TOLUENE-d8	98	4.981	4.981	(1.272)	181199	10.0000	10
61 TOLUENE	92	5.030	5.030	(1.284)	127500	10.0000	9.9
62 trans-1,3-DICHLOROPROPENE	75	5.261	5.261	(1.343)	76763	10.0000	10
64 1,1,2-TRICHLOROETHANE	83	5.395	5.395	(1.377)	41024	10.0000	9.9
65 TETRACHLOROETHENE	164	5.426	5.426	(0.887)	39108	10.0000	9.6
66 1,3-DICHLOROPROPANE	76	5.535	5.535	(1.413)	95217	10.0000	11
67 2-HEXANONE	43	5.572	5.572	(0.911)	93926	20.0000	20
68 DIBROMOCHLOROMETHANE	129	5.681	5.681	(0.928)	40167	10.0000	8.9
69 1,2-DIBROMOETHANE	107	5.778	5.778	(1.475)	47375	10.0000	9.8
* 71 CHLOROBENZENE-d5	82	6.119	6.119	(1.000)	417365	50.0000	
72 CHLOROBENZENE	112	6.137	6.137	(1.003)	141716	10.0000	9.7
73 ETHYL BENZENE	91	6.198	6.198	(1.013)	260189	10.0000	9.9
74 1,1,1,2-TETRACHLOROETHANE	131	6.210	6.210	(1.015)	42867	10.0000	9.6
76 m,p-XYLENE	106	6.296	6.296	(1.029)	201248	20.0000	20
77 o-XYLENE	106	6.618	6.618	(1.082)	99625	10.0000	9.9
78 STYRENE	104	6.642	6.642	(1.085)	162201	10.0000	9.6
79 BROMOFORM	173	6.813	6.813	(1.113)	25675	10.0000	8.2
80 ISOPROPYLBENZENE	105	6.904	6.904	(1.128)	230385	10.0000	9.4
§ 82 4-BROMOFLUOROENZENE	95	7.068	7.068	(1.155)	74675	10.0000	9.7
83 BROMOBENZENE	156	7.184	7.184	(1.174)	60075	10.0000	9.6
84 1,1,2,2-TETRACHLOROETHANE	83	7.220	7.220	(1.180)	70052	10.0000	9.8

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
86 1 2 3-TRICHLOROPROPANE	110	7.263	7.263	(1.187)	23229	10.0000	10
85 n-PROPYLBENZENE	120	7.238	7.238	(1.183)	73848	10.0000	10
88 2-CHLOROTOLUENE	126	7.336	7.336	(1.199)	62550	10.0000	9.8
89 1 3 5-TRIMETHYLBENZENE	105	7.391	7.391	(1.208)	229874	10.0000	9.9
90 4-CHLOROTOLUENE	126	7.427	7.427	(1.214)	64411	10.0000	9.9
91 a-Methylstyrene TIC	118	7.585	7.585	(1.240)	114769	10.0000	9.5
92 tert-BUTYLBENZENE	119	7.646	7.646	(1.250)	198417	10.0000	9.9
94 1 2 4-TRIMETHYLBENZENE	105	7.701	7.701	(1.258)	232666	10.0000	10
95 sec-BUTYLBENZENE	105	7.829	7.829	(1.279)	293364	10.0000	9.9
97 1 3-DICHLOROBENZENE	146	7.956	7.956	(1.300)	126438	10.0000	9.7
96 p-ISOPROPYLTOLUENE	119	7.950	7.950	(1.299)	236348	10.0000	9.8
98 1 4-DICHLOROBENZENE	146	8.035	8.035	(1.313)	122582	10.0000	9.4
99 n-BUTYLBENZENE	91	8.291	8.291	(1.355)	217770	10.0000	9.7
100 1 2-DICHLOROBENZENE	146	8.346	8.346	(1.364)	119909	10.0000	9.8
101 1 2-DIBROMO-3-CHLOROPROPANE	157	9.015	9.015	(1.473)	11262	10.0000	8.4
102 1 2 4-TRICHLOROBENZENE	180	9.678	9.678	(1.582)	59714	10.0000	8.6
103 HEXACHLOROBUTADIENE	225	9.775	9.775	(1.597)	28478	10.0000	9.2
104 NAPHTHALENE	128	9.891	9.891	(1.616)	131865	10.0000	8.0
105 1 2 3-TRICHLOROBENZENE	180	10.098	10.098	(1.650)	54860	10.0000	9.0
M 106 1,2-DICHLOROETHENE (total)	96				90492	20.0000	19
M 107 1,3-DICHLOROPROPENE (total)	75				160959	20.0000	20
M 108 XYLENE (total)	106				300874	30.0000	29

Data File: pe0810q.d

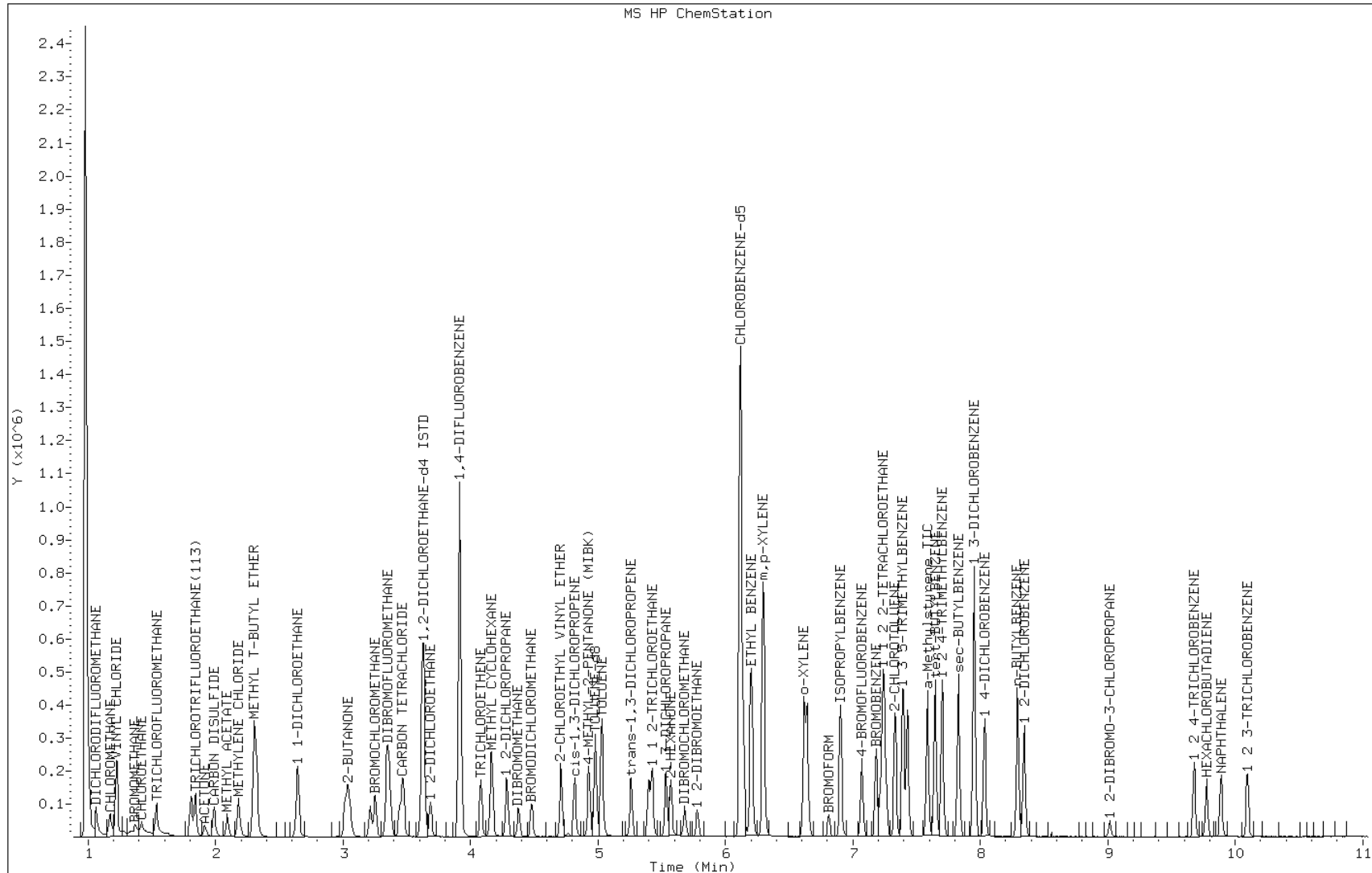
Date: 09-MAY-2013 01:25

Client ID: 8260-010

Instrument: MSP5973.i

Sample Info: IC; 8260-010=[4P050813]

Operator: ajmc



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/4p050813.b/pe0812q.d
 Lab Smp Id: IC; 8260-020 Client Smp ID: 8260-020
 Inj Date : 09-MAY-2013 01:55
 Operator : ajmc Inst ID: MSP5973.i
 Smp Info : IC; 8260-020=[4P050813]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSP5973.i/4p050813.b/P-18260B-m.m
 Meth Date : 09-May-2013 08:58 mcnamara Quant Type: ISTD
 Cal Date : 15-APR-2013 12:50 Cal File: pd1512q.d
 Als bottle: 6 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.064	1.064	(0.293)	103590	20.0000	20
2 CHLOROMETHANE	50	1.167	1.167	(0.321)	126811	20.0000	22
3 VINYL CHLORIDE	62	1.210	1.210	(0.333)	124406	20.0000	20
4 BUTADIENE	54	1.222	1.222	(0.336)	108988	20.0000	22
5 BROMOMETHANE	96	1.368	1.368	(0.377)	19605	20.0000	15
6 CHLOROETHANE	64	1.417	1.417	(0.390)	41895	20.0000	20
7 TRICHLOROFUOROMETHANE	101	1.532	1.532	(0.422)	119284	20.0000	21
11 TRICHLOROTRIFLUOROETHANE(113)	101	1.806	1.806	(0.497)	85090	20.0000	20
13 1 1-DICHLOROETHENE	96	1.842	1.842	(0.507)	76430	20.0000	19
14 ACETONE	58	1.915	1.915	(0.528)	26616	40.0000	41
16 CARBON DISULFIDE	76	1.988	1.988	(0.548)	230377	20.0000	19
18 METHYL ACETATE	43	2.092	2.092	(0.576)	138360	20.0000	18
20 METHYLENE CHLORIDE	84	2.177	2.177	(0.600)	89480	20.0000	19

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.305	2.305	(0.635)	573049	40.0000	39
23 trans-1 2-DICHLOROETHENE	96	2.323	2.323	(0.640)	86133	20.0000	20
27 1 1-DICHLOROETHANE	63	2.633	2.633	(0.725)	165085	20.0000	20
28 VINYL ACETATE	43	2.645	2.645	(0.729)	346016	40.0000	44
32 2-BUTANONE	43	3.059	3.059	(0.842)	132116	40.0000	41
30 2 2-DICHLOROPROPANE	77	3.016	3.016	(0.831)	114214	20.0000	20
31 cis-1 2-DICHLOROETHENE	96	3.041	3.041	(0.837)	98222	20.0000	19
34 BROMOCHLOROMETHANE	49	3.211	3.211	(0.884)	97374	20.0000	20
37 CHLOROFORM	83	3.248	3.248	(0.894)	154027	20.0000	20
§ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	76198	20.0000	19
39 1 1 1-TRICHLOROETHANE	97	3.357	3.357	(0.857)	128809	20.0000	21
38 CYCLOHEXANE	56	3.345	3.345	(0.854)	180209	20.0000	21
41 CARBON TETRACHLORIDE	117	3.442	3.442	(0.879)	102258	20.0000	20
42 1 1-DICHLOROPROPENE	75	3.467	3.467	(0.885)	143001	20.0000	21
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	262130	50.0000	
44 BENZENE	78	3.613	3.613	(0.922)	402670	20.0000	20
46 1 2-DICHLOROETHANE	62	3.686	3.686	(0.941)	127863	20.0000	21
* 48 1,4-DIFLUOROENZENE	114	3.917	3.917	(1.000)	741892	50.0000	
49 TRICHLOROETHENE	130	4.081	4.081	(1.042)	93131	20.0000	20
51 METHYL CYCLOHEXANE	83	4.160	4.160	(1.062)	189509	20.0000	20
52 1 2-DICHLOROPROPANE	63	4.282	4.282	(1.093)	122818	20.0000	21
55 DIBROMOMETHANE	93	4.373	4.373	(1.116)	58468	20.0000	20
56 BROMODICHLOROMETHANE	83	4.477	4.477	(1.143)	115947	20.0000	20
57 2-CHLOROETHYL VINYL ETHER	63	4.708	4.708	(1.202)	160121	40.0000	40
58 cis-1,3-DICHLOROPROPENE	75	4.817	4.817	(1.230)	180609	20.0000	21
59 4-METHYL-2-PENTANONE (MIBK)	43	4.927	4.927	(1.258)	256679	40.0000	41
§ 60 TOLUENE-d8	98	4.981	4.981	(1.272)	376625	20.0000	20
61 TOLUENE	92	5.030	5.030	(1.284)	267137	20.0000	20
62 trans-1,3-DICHLOROPROPENE	75	5.261	5.261	(1.343)	168501	20.0000	21
64 1 1 2-TRICHLOROETHANE	83	5.395	5.395	(1.377)	86226	20.0000	20
65 TETRACHLOROETHENE	164	5.426	5.426	(0.887)	81089	20.0000	20
66 1 3-DICHLOROPROPANE	76	5.529	5.529	(1.412)	193520	20.0000	21
67 2-HEXANONE	43	5.572	5.572	(0.911)	197240	40.0000	41
68 DIBROMOCHLOROMETHANE	129	5.681	5.681	(0.928)	88641	20.0000	19
69 1 2-DIBROMOETHANE	107	5.778	5.778	(1.475)	98421	20.0000	20
* 71 CHLOROBENZENE-d5	82	6.119	6.119	(1.000)	436122	50.0000	
72 CHLOROBENZENE	112	6.143	6.143	(1.004)	294444	20.0000	20
73 ETHYL BENZENE	91	6.198	6.198	(1.013)	552295	20.0000	20
74 1,1,1,2-TETRACHLOROETHANE	131	6.210	6.210	(1.015)	91607	20.0000	20
76 m,p-XYLENE	106	6.296	6.296	(1.029)	425936	40.0000	40
77 o-XYLENE	106	6.618	6.618	(1.082)	208250	20.0000	20
78 STYRENE	104	6.642	6.642	(1.085)	350014	20.0000	20
79 BROMOFORM	173	6.813	6.813	(1.113)	57037	20.0000	18
80 ISOPROPYLBENZENE	105	6.904	6.904	(1.128)	496380	20.0000	20
§ 82 4-BROMOFLUOROENZENE	95	7.068	7.068	(1.155)	158057	20.0000	20
83 BROMOBENZENE	156	7.184	7.184	(1.174)	124844	20.0000	20
84 1 1 2 2-TETRACHLOROETHANE	83	7.220	7.220	(1.180)	148170	20.0000	20

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
86 1 2 3-TRICHLOROPROPANE	110	7.263	7.263	(1.187)	47603	20.0000	20
85 n-PROPYLBENZENE	120	7.245	7.245	(1.184)	157066	20.0000	21
88 2-CHLOROTOLUENE	126	7.336	7.336	(1.199)	129527	20.0000	20
89 1 3 5-TRIMETHYLBENZENE	105	7.397	7.397	(1.209)	483209	20.0000	20
90 4-CHLOROTOLUENE	126	7.433	7.433	(1.215)	132937	20.0000	20
91 a-Methylstyrene TIC	118	7.585	7.585	(1.240)	249085	20.0000	20
92 tert-BUTYLBENZENE	119	7.646	7.646	(1.250)	416488	20.0000	20
94 1 2 4-TRIMETHYLBENZENE	105	7.701	7.701	(1.258)	480972	20.0000	20
95 sec-BUTYLBENZENE	105	7.829	7.829	(1.279)	621552	20.0000	20
97 1 3-DICHLOROBENZENE	146	7.956	7.956	(1.300)	261812	20.0000	20
96 p-ISOPROPYLTOLUENE	119	7.950	7.950	(1.299)	493097	20.0000	20
98 1 4-DICHLOROBENZENE	146	8.035	8.035	(1.313)	258253	20.0000	19
99 n-BUTYLBENZENE	91	8.291	8.291	(1.355)	468945	20.0000	20
100 1 2-DICHLOROBENZENE	146	8.346	8.346	(1.364)	241601	20.0000	19
101 1 2-DIBROMO-3-CHLOROPROPANE	157	9.021	9.021	(1.474)	23680	20.0000	18
102 1 2 4-TRICHLOROBENZENE	180	9.678	9.678	(1.582)	129810	20.0000	19
103 HEXACHLOROBUTADIENE	225	9.775	9.775	(1.597)	57788	20.0000	18
104 NAPHTHALENE	128	9.891	9.891	(1.616)	284222	20.0000	18
105 1 2 3-TRICHLOROBENZENE	180	10.098	10.098	(1.650)	113293	20.0000	19
M 106 1,2-DICHLOROETHENE (total)	96				184356	40.0000	39
M 107 1,3-DICHLOROPROPENE (total)	75				349111	40.0000	42
M 108 XYLENE (total)	106				634186	60.0000	60

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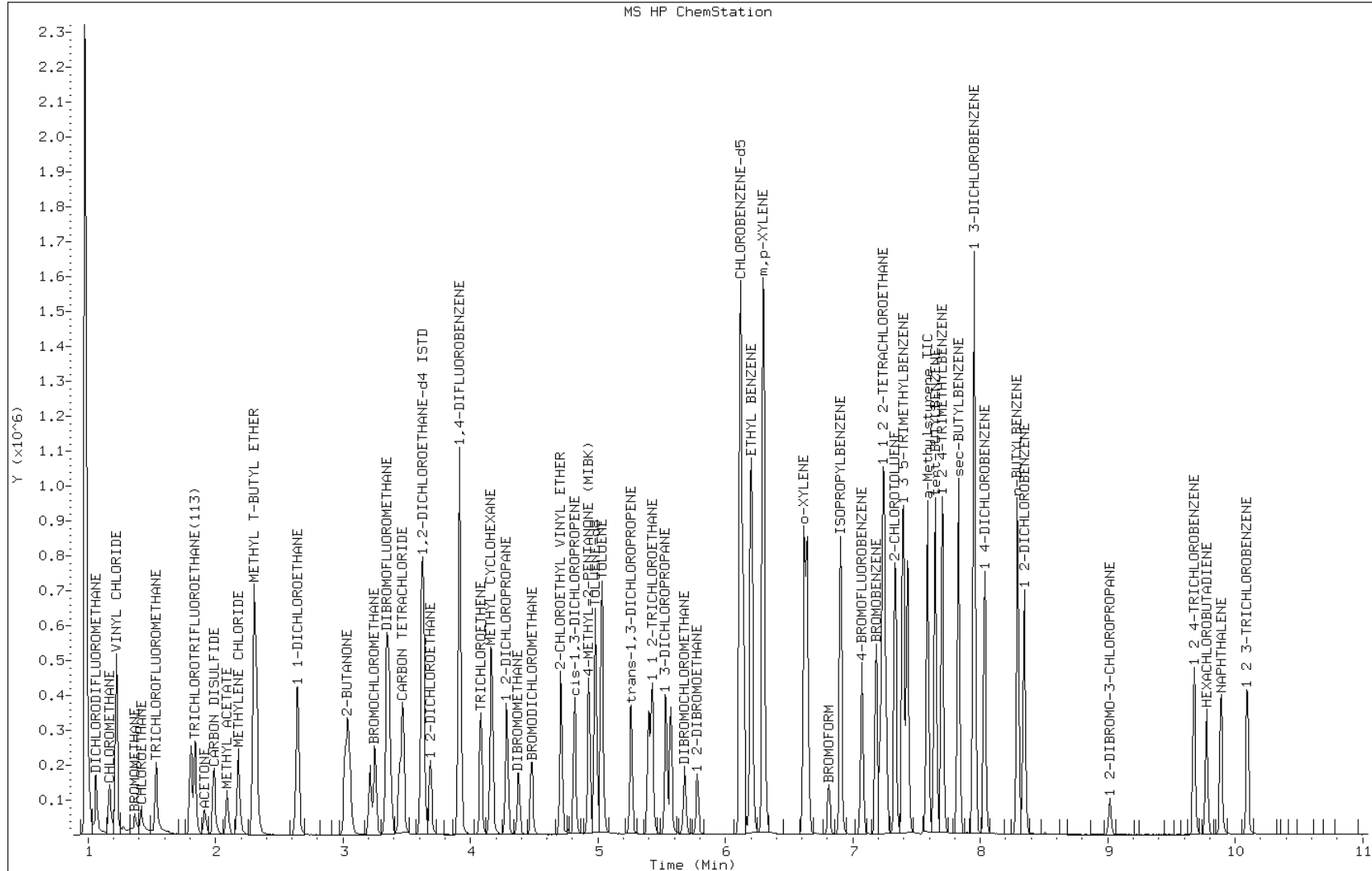
Date: 09-MAY-2013 01:55

Client ID: 8260-020

Instrument: MSP5973.i

Sample Info: IC; 8260-020=[4P050813]

Operator: ajmc



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/4p050813.b/pe0814q.d
 Lab Smp Id: ICIS; 8260-050 Client Smp ID: 8260-050
 Inj Date : 09-MAY-2013 02:25
 Operator : ajmc Inst ID: MSP5973.i
 Smp Info : ICIS; 8260-050=[4P050813]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSP5973.i/4p050813.b/P-18260B-m.m
 Meth Date : 09-May-2013 09:05 mcnamara Quant Type: ISTD
 Cal Date : 15-APR-2013 13:20 Cal File: pd1514q.d
 Als bottle: 7 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.064	1.064	(0.293)	269710	50.0000	52
2 CHLOROMETHANE	50	1.173	1.173	(0.323)	315136	50.0000	49
3 VINYL CHLORIDE	62	1.210	1.210	(0.333)	321657	50.0000	49
4 BUTADIENE	54	1.228	1.228	(0.338)	280379	50.0000	51
5 BROMOMETHANE	96	1.368	1.368	(0.377)	61704	50.0000	54
6 CHLOROETHANE	64	1.423	1.423	(0.392)	105474	50.0000	50
7 TRICHLOROFLUOROMETHANE	101	1.538	1.538	(0.424)	300620	50.0000	51
11 TRICHLOROTRIFLUOROETHANE(113)	101	1.806	1.806	(0.497)	215486	50.0000	51
13 1 1-DICHLOROETHENE	96	1.842	1.842	(0.507)	196054	50.0000	50
14 ACETONE	58	1.915	1.915	(0.528)	65416	100.000	98
16 CARBON DISULFIDE	76	1.988	1.988	(0.548)	618956	50.0000	52
18 METHYL ACETATE	43	2.092	2.092	(0.576)	354087	50.0000	48
20 METHYLENE CHLORIDE	84	2.177	2.177	(0.600)	230919	50.0000	49

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.305	2.305	(0.635)	1460959	100.000	98
23 trans-1 2-DICHLOROETHENE	96	2.323	2.323	(0.640)	219512	50.0000	50
27 1 1-DICHLOROETHANE	63	2.639	2.639	(0.727)	426524	50.0000	50
28 VINYL ACETATE	43	2.645	2.645	(0.729)	878415	100.000	99
32 2-BUTANONE	43	3.059	3.059	(0.842)	331881	100.000	97
30 2 2-DICHLOROPROPANE	77	3.016	3.016	(0.831)	297321	50.0000	51
31 cis-1 2-DICHLOROETHENE	96	3.041	3.041	(0.837)	254561	50.0000	49
34 BROMOCHLOROMETHANE	49	3.211	3.211	(0.884)	256961	50.0000	50
37 CHLOROFORM	83	3.254	3.254	(0.896)	405951	50.0000	50
§ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	199439	50.0000	50
39 1 1 1-TRICHLOROETHANE	97	3.357	3.357	(0.857)	342486	50.0000	51
38 CYCLOHEXANE	56	3.345	3.345	(0.854)	481463	50.0000	51
41 CARBON TETRACHLORIDE	117	3.442	3.442	(0.879)	284573	50.0000	53
42 1 1-DICHLOROPROPENE	75	3.473	3.473	(0.887)	397732	50.0000	51
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	281767	50.0000	
44 BENZENE	78	3.619	3.619	(0.924)	1092996	50.0000	49
46 1 2-DICHLOROETHANE	62	3.686	3.686	(0.941)	336638	50.0000	48
* 48 1,4-DIFLUOROEBENZENE	114	3.917	3.917	(1.000)	802752	50.0000	
49 TRICHLOROETHENE	130	4.081	4.081	(1.042)	256298	50.0000	51
51 METHYL CYCLOHEXANE	83	4.166	4.166	(1.064)	534552	50.0000	53
52 1 2-DICHLOROPROPANE	63	4.282	4.282	(1.093)	344096	50.0000	52
55 DIBROMOMETHANE	93	4.373	4.373	(1.116)	162453	50.0000	51
56 BROMODICHLOROMETHANE	83	4.483	4.483	(1.144)	336977	50.0000	53
57 2-CHLOROETHYL VINYL ETHER	63	4.708	4.708	(1.202)	460511	100.000	110
58 cis-1,3-DICHLOROPROPENE	75	4.817	4.817	(1.230)	522455	50.0000	53
59 4-METHYL-2-PENTANONE (MIBK)	43	4.927	4.927	(1.258)	745832	100.000	110
§ 60 TOLUENE-d8	98	4.981	4.981	(1.272)	1042083	50.0000	52
61 TOLUENE	92	5.030	5.030	(1.284)	741222	50.0000	51
62 trans-1,3-DICHLOROPROPENE	75	5.261	5.261	(1.343)	483977	50.0000	53
64 1 1 2-TRICHLOROETHANE	83	5.395	5.395	(1.377)	235742	50.0000	51
65 TETRACHLOROETHENE	164	5.426	5.426	(0.887)	221589	50.0000	50
66 1 3-DICHLOROPROPANE	76	5.535	5.535	(1.413)	532309	50.0000	50
67 2-HEXANONE	43	5.572	5.572	(0.911)	567585	100.000	100
68 DIBROMOCHLOROMETHANE	129	5.681	5.681	(0.928)	254792	50.0000	52
69 1 2-DIBROMOETHANE	107	5.778	5.778	(1.475)	271553	50.0000	51
* 71 CHLOROBENZENE-d5	82	6.119	6.119	(1.000)	485219	50.0000	
72 CHLOROBENZENE	112	6.137	6.137	(1.003)	791444	50.0000	49
73 ETHYL BENZENE	91	6.198	6.198	(1.013)	1536351	50.0000	51
74 1,1,1,2-TETRACHLOROETHANE	131	6.210	6.210	(1.015)	252511	50.0000	50
76 m,p-XYLENE	106	6.296	6.296	(1.029)	1175363	100.000	100
77 o-XYLENE	106	6.618	6.618	(1.082)	577353	50.0000	50
78 STYRENE	104	6.642	6.642	(1.085)	967520	50.0000	51
79 BROMOFORM	173	6.813	6.813	(1.113)	165242	50.0000	43
80 ISOPROPYLBENZENE	105	6.904	6.904	(1.128)	1364007	50.0000	51
§ 82 4-BROMOFLUOROBENZENE	95	7.068	7.068	(1.155)	432282	50.0000	49
83 BROMOBENZENE	156	7.184	7.184	(1.174)	336429	50.0000	49
84 1 1 2 2-TETRACHLOROETHANE	83	7.220	7.220	(1.180)	398615	50.0000	49

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
86 1 2 3-TRICHLOROPROPANE	110	7.263	7.263	(1.187)	125696	50.0000	48
85 n-PROPYLBENZENE	120	7.238	7.238	(1.183)	423349	50.0000	51
88 2-CHLOROTOLUENE	126	7.336	7.336	(1.199)	349321	50.0000	50
89 1 3 5-TRIMETHYLBENZENE	105	7.397	7.397	(1.209)	1331883	50.0000	51
90 4-CHLOROTOLUENE	126	7.433	7.433	(1.215)	352986	50.0000	49
91 a-Methylstyrene TIC	118	7.585	7.585	(1.240)	695289	50.0000	52
92 tert-BUTYLBENZENE	119	7.646	7.646	(1.250)	1128070	50.0000	50
94 1 2 4-TRIMETHYLBENZENE	105	7.701	7.701	(1.258)	1303927	50.0000	49
95 sec-BUTYLBENZENE	105	7.829	7.829	(1.279)	1708299	50.0000	51
97 1 3-DICHLOROBENZENE	146	7.956	7.956	(1.300)	702327	50.0000	49
96 p-ISOPROPYLTOLUENE	119	7.950	7.950	(1.299)	1363961	50.0000	51
98 1 4-DICHLOROBENZENE	146	8.035	8.035	(1.313)	695210	50.0000	49
99 n-BUTYLBENZENE	91	8.291	8.291	(1.355)	1318860	50.0000	52
100 1 2-DICHLOROBENZENE	146	8.346	8.346	(1.364)	648608	50.0000	48
101 1 2-DIBROMO-3-CHLOROPROPANE	157	9.021	9.021	(1.474)	66359	50.0000	50
102 1 2 4-TRICHLOROBENZENE	180	9.678	9.678	(1.582)	337453	50.0000	48
103 HEXACHLOROBUTADIENE	225	9.775	9.775	(1.597)	154605	50.0000	48
104 NAPHTHALENE	128	9.891	9.891	(1.616)	797987	50.0000	51
105 1 2 3-TRICHLOROBENZENE	180	10.098	10.098	(1.650)	300059	50.0000	48
M 106 1,2-DICHLOROETHENE (total)	96				474073	100.000	99
M 107 1,3-DICHLOROPROPENE (total)	75				1006432	100.000	110
M 108 XYLENE (total)	106				1752716	150.000	150

Data File: pe0814q.d

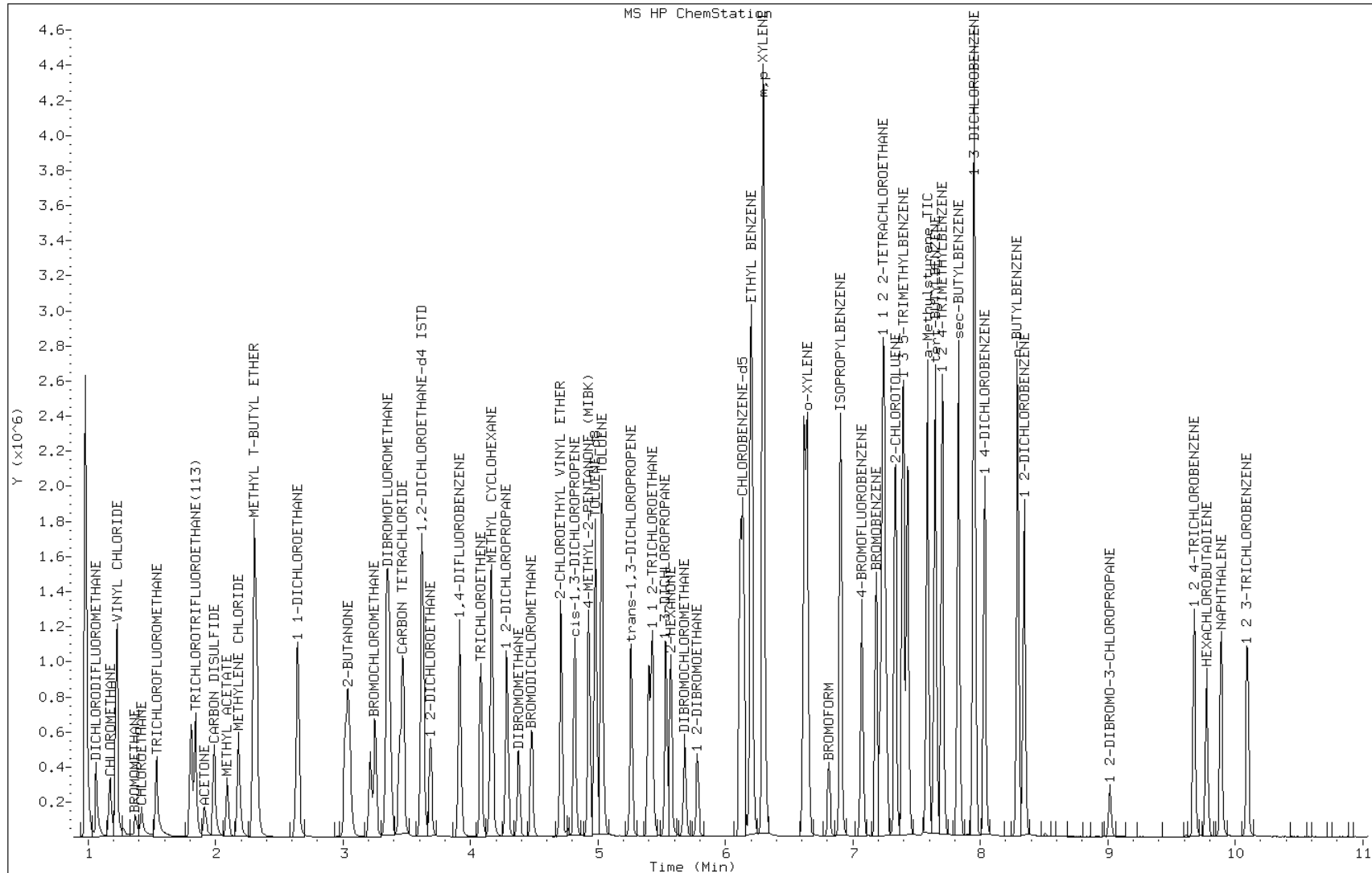
Date: 09-MAY-2013 02:25

Client ID: 8260-050

Instrument: MSP5973.i

Sample Info: ICIS; 8260-050=[4P050813]

Operator: ajmc



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/4p050813.b/pe0816q.d
 Lab Smp Id: IC; 8260-100 Client Smp ID: 8260-100
 Inj Date : 09-MAY-2013 02:55
 Operator : ajmc Inst ID: MSP5973.i
 Smp Info : IC; 8260-100=[4P050813]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSP5973.i/4p050813.b/P-18260B-m.m
 Meth Date : 09-May-2013 08:59 mcnamara Quant Type: ISTD
 Cal Date : 15-APR-2013 13:50 Cal File: pd1516q.d
 Als bottle: 8 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85		1.064	1.064	(0.293)	527909	100.000	93
2 CHLOROMETHANE	50		1.173	1.173	(0.323)	617905	100.000	94
3 VINYL CHLORIDE	62		1.210	1.210	(0.333)	624391	100.000	92
4 BUTADIENE	54		1.228	1.228	(0.338)	561720	100.000	100
5 BROMOMETHANE	96		1.368	1.368	(0.377)	125850	100.000	65
6 CHLOROETHANE	64		1.423	1.423	(0.392)	208759	100.000	91
7 TRICHLOROFLUOROMETHANE	101		1.538	1.538	(0.424)	596660	100.000	97
11 TRICHLOROTRIFLUOROETHANE(113)	101		1.806	1.806	(0.497)	423666	100.000	93
13 1 1-DICHLOROETHENE	96		1.842	1.842	(0.507)	392786	100.000	94
14 ACETONE	58		1.915	1.915	(0.528)	129300	200.000	180
16 CARBON DISULFIDE	76		1.988	1.988	(0.548)	1247023	100.000	96
18 METHYL ACETATE	43		2.092	2.092	(0.576)	713219	100.000	88
20 METHYLENE CHLORIDE	84		2.177	2.177	(0.600)	456205	100.000	89

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.305	2.305	(0.635)	3001953	200.000	190
23 trans-1 2-DICHLOROETHENE	96	2.323	2.323	(0.640)	438458	100.000	93
27 1 1-DICHLOROETHANE	63	2.639	2.639	(0.727)	856200	100.000	96
28 VINYL ACETATE	43	2.645	2.645	(0.729)	1824252	200.000	200
32 2-BUTANONE	43	3.059	3.059	(0.842)	708690	200.000	200
30 2 2-DICHLOROPROPANE	77	3.017	3.017	(0.831)	622439	100.000	100
31 cis-1 2-DICHLOROETHENE	96	3.041	3.041	(0.837)	526469	100.000	95
34 BROMOCHLOROMETHANE	49	3.211	3.211	(0.884)	558821	100.000	100
37 CHLOROFORM	83	3.254	3.254	(0.896)	867048	100.000	100
§ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	420722	100.000	99
39 1 1 1-TRICHLOROETHANE	97	3.357	3.357	(0.857)	728253	100.000	110
38 CYCLOHEXANE	56	3.345	3.345	(0.854)	1030263	100.000	110
41 CARBON TETRACHLORIDE	117	3.448	3.448	(0.880)	599917	100.000	110
42 1 1-DICHLOROPROPENE	75	3.473	3.473	(0.887)	824957	100.000	110
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	291358	50.0000	
44 BENZENE	78	3.619	3.619	(0.924)	2254236	100.000	100
46 1 2-DICHLOROETHANE	62	3.686	3.686	(0.941)	700854	100.000	100
* 48 1,4-DIFLUOROENZENE	114	3.917	3.917	(1.000)	809791	50.0000	
49 TRICHLOROETHENE	130	4.081	4.081	(1.042)	510111	100.000	100
51 METHYL CYCLOHEXANE	83	4.166	4.166	(1.064)	1057137	100.000	100
52 1 2-DICHLOROPROPANE	63	4.282	4.282	(1.093)	681119	100.000	100
55 DIBROMOMETHANE	93	4.373	4.373	(1.116)	326695	100.000	100
56 BROMODICHLOROMETHANE	83	4.477	4.477	(1.143)	692394	100.000	110
57 2-CHLOROETHYL VINYL ETHER	63	4.708	4.708	(1.202)	920876	200.000	210
58 cis-1,3-DICHLOROPROPENE	75	4.817	4.817	(1.230)	1064109	100.000	110
59 4-METHYL-2-PENTANONE (MIBK)	43	4.927	4.927	(1.258)	1495674	200.000	210
§ 60 TOLUENE-d8	98	4.982	4.982	(1.272)	2044206	100.000	100
61 TOLUENE	92	5.030	5.030	(1.284)	1460013	100.000	100
62 trans-1,3-DICHLOROPROPENE	75	5.261	5.261	(1.343)	998810	100.000	110
64 1 1 2-TRICHLOROETHANE	83	5.401	5.401	(1.379)	473188	100.000	100
65 TETRACHLOROETHENE	164	5.426	5.426	(0.887)	433476	100.000	98
66 1 3-DICHLOROPROPANE	76	5.535	5.535	(1.413)	1077439	100.000	100
67 2-HEXANONE	43	5.572	5.572	(0.911)	1139048	200.000	210
68 DIBROMOCHLOROMETHANE	129	5.681	5.681	(0.928)	536723	100.000	110
69 1 2-DIBROMOETHANE	107	5.778	5.778	(1.475)	556552	100.000	100
* 71 CHLOROBENZENE-d5	82	6.119	6.119	(1.000)	475770	50.0000	
72 CHLOROBENZENE	112	6.143	6.143	(1.004)	1581032	100.000	98
73 ETHYL BENZENE	91	6.198	6.198	(1.013)	3095646	100.000	100
74 1,1,1,2-TETRACHLOROETHANE	131	6.210	6.210	(1.015)	513158	100.000	100
76 m,p-XYLENE	106	6.296	6.296	(1.029)	2333520	200.000	200
77 o-XYLENE	106	6.618	6.618	(1.082)	1147420	100.000	100
78 STYRENE	104	6.642	6.642	(1.085)	1964229	100.000	100
79 BROMOFORM	173	6.813	6.813	(1.113)	363359	100.000	110
80 ISOPROPYLBENZENE	105	6.904	6.904	(1.128)	2705383	100.000	100
§ 82 4-BROMOFLUOROBENZENE	95	7.068	7.068	(1.155)	863205	100.000	100
83 BROMOBENZENE	156	7.184	7.184	(1.174)	674266	100.000	99
84 1 1 2 2-TETRACHLOROETHANE	83	7.220	7.220	(1.180)	810015	100.000	100

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
86 1 2 3-TRICHLOROPROPANE	110	7.263	7.263	(1.187)	253750	100.000	99
85 n-PROPYLBENZENE	120	7.245	7.245	(1.184)	851577	100.000	100
88 2-CHLOROTOLUENE	126	7.336	7.336	(1.199)	699535	100.000	100
89 1 3 5-TRIMETHYLBENZENE	105	7.397	7.397	(1.209)	2721234	100.000	110
90 4-CHLOROTOLUENE	126	7.433	7.433	(1.215)	706046	100.000	99
91 a-Methylstyrene TIC	118	7.585	7.585	(1.240)	1411747	100.000	110
92 tert-BUTYLBENZENE	119	7.646	7.646	(1.250)	2243680	100.000	100
94 1 2 4-TRIMETHYLBENZENE	105	7.701	7.701	(1.258)	2678620	100.000	100
95 sec-BUTYLBENZENE	105	7.829	7.829	(1.279)	3424745	100.000	100
97 1 3-DICHLOROBENZENE	146	7.956	7.956	(1.300)	1401975	100.000	98
96 p-ISOPROPYLTOLUENE	119	7.950	7.950	(1.299)	2767812	100.000	100
98 1 4-DICHLOROBENZENE	146	8.035	8.035	(1.313)	1383052	100.000	97
99 n-BUTYLBENZENE	91	8.291	8.291	(1.355)	2693022	100.000	110
100 1 2-DICHLOROBENZENE	146	8.346	8.346	(1.364)	1303111	100.000	97
101 1 2-DIBROMO-3-CHLOROPROPANE	157	9.021	9.021	(1.474)	142752	100.000	100
102 1 2 4-TRICHLOROBENZENE	180	9.678	9.678	(1.582)	721279	100.000	99
103 HEXACHLOROBUTADIENE	225	9.775	9.775	(1.597)	307641	100.000	93
104 NAPHTHALENE	128	9.891	9.891	(1.616)	1779155	100.000	110
105 1 2 3-TRICHLOROBENZENE	180	10.098	10.098	(1.650)	635895	100.000	99
M 106 1,2-DICHLOROETHENE (total)	96				964927	200.000	190
M 107 1,3-DICHLOROPROPENE (total)	75				2062919	200.000	220
M 108 XYLENE (total)	106				3480941	300.000	310

Data File: pe0816q.d

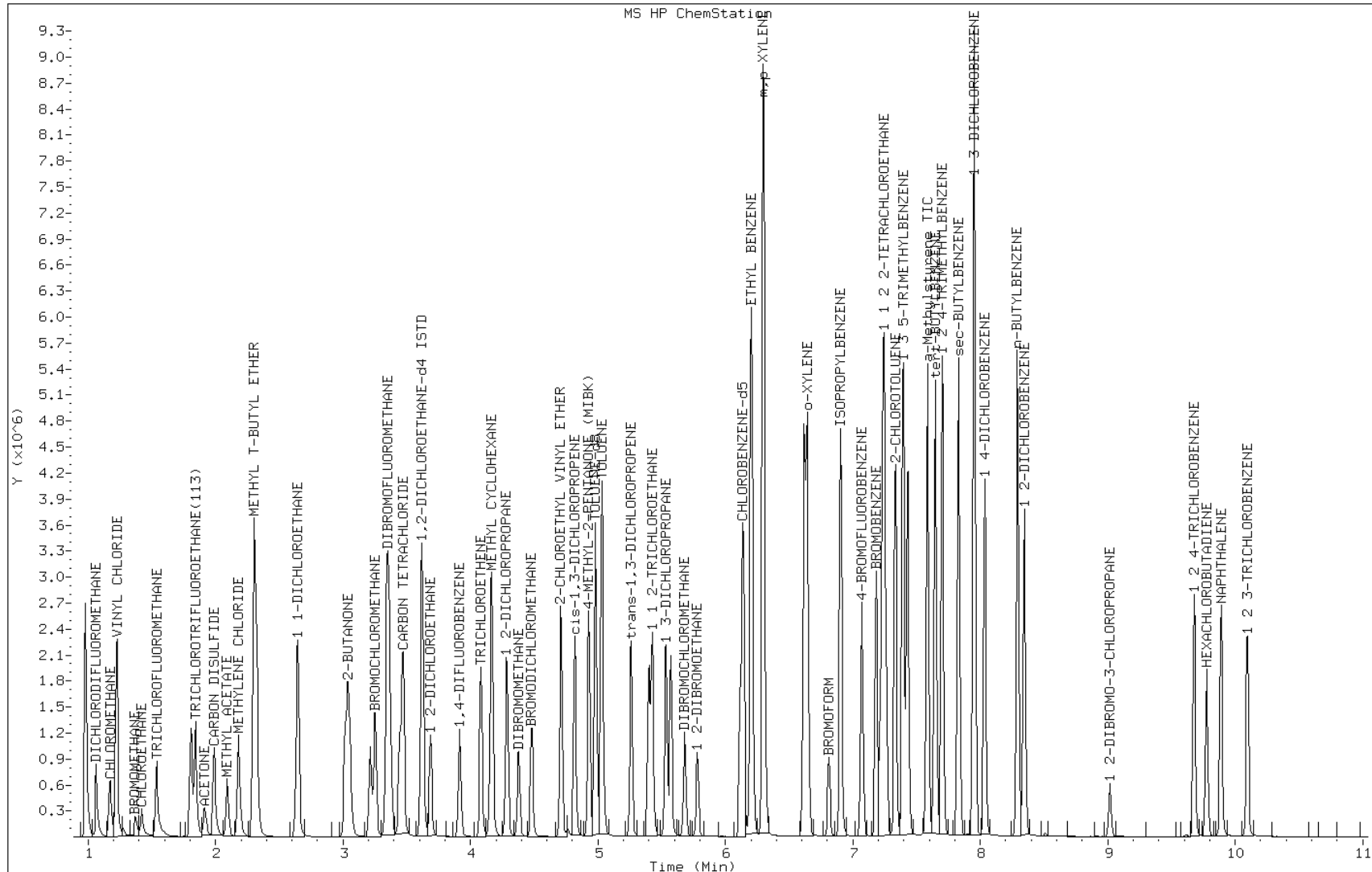
Date: 09-MAY-2013 02:55

Client ID: 8260-100

Instrument: MSP5973.i

Sample Info: IC; 8260-100=[4P050813]

Operator: ajmc



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/4p050813.b/pe0818q.d
 Lab Smp Id: IC; 8260-200 Client Smp ID: 8260-200
 Inj Date : 09-MAY-2013 03:25
 Operator : ajmc Inst ID: MSP5973.i
 Smp Info : IC; 8260-200=[4P050813]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSP5973.i/4p050813.b/P-18260B-m.m
 Meth Date : 09-May-2013 08:59 mcnamara Quant Type: ISTD
 Cal Date : 15-APR-2013 14:20 Cal File: pd1518q.d
 Als bottle: 9 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85		1.058	1.058	(0.291)	1111908	200.000	200
2 CHLOROMETHANE	50		1.167	1.167	(0.321)	1374445	200.000	200
3 VINYL CHLORIDE	62		1.210	1.210	(0.333)	1365374	200.000	200
4 BUTADIENE	54		1.222	1.222	(0.336)	1235942	200.000	210
5 BROMOMETHANE	96		1.368	1.368	(0.377)	197774	200.000	180
6 CHLOROETHANE	64		1.417	1.417	(0.390)	432083	200.000	190
7 TRICHLOROFUOROMETHANE	101		1.532	1.532	(0.422)	1282574	200.000	200
11 TRICHLOROTRIFLUOROETHANE(113)	101		1.806	1.806	(0.497)	890048	200.000	200
13 1 1-DICHLOROETHENE	96		1.842	1.842	(0.507)	841756	200.000	200
14 ACETONE	58		1.909	1.909	(0.526)	287849	400.000	380
16 CARBON DISULFIDE	76		1.982	1.982	(0.546)	2699507	200.000	210
18 METHYL ACETATE	43		2.086	2.086	(0.574)	1458900	200.000	190
20 METHYLENE CHLORIDE	84		2.177	2.177	(0.600)	951688	200.000	190

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.299	2.299	(0.633)	6200933	400.000	390
23 trans-1,2-DICHLOROETHENE	96	2.323	2.323	(0.640)	918861	200.000	200
27 1,1-DICHLOROETHANE	63	2.633	2.633	(0.725)	1749316	200.000	190
28 VINYL ACETATE	43	2.645	2.645	(0.729)	3634769	400.000	380
32 2-BUTANONE	43	3.053	3.053	(0.841)	1407019	400.000	390
30 2,2-DICHLOROPROPANE	77	3.017	3.017	(0.831)	1260779	200.000	200
31 cis-1,2-DICHLOROETHENE	96	3.035	3.035	(0.836)	1071143	200.000	190
34 BROMOCHLOROMETHANE	49	3.211	3.211	(0.884)	1073008	200.000	200
37 CHLOROFORM	83	3.248	3.248	(0.894)	1705114	200.000	200
§ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	863650	200.000	200
39 1,1,1-TRICHLOROETHANE	97	3.357	3.357	(0.857)	1493285	200.000	210
38 CYCLOHEXANE	56	3.345	3.345	(0.854)	2044661	200.000	200
41 CARBON TETRACHLORIDE	117	3.442	3.442	(0.879)	1279583	200.000	220
42 1,1-DICHLOROPROPENE	75	3.467	3.467	(0.885)	1713857	200.000	210
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	299648	50.0000	
44 BENZENE	78	3.619	3.619	(0.924)	4887933	200.000	210
46 1,2-DICHLOROETHANE	62	3.686	3.686	(0.941)	1461042	200.000	200
* 48 1,4-DIFLUOROENZENE	114	3.917	3.917	(1.000)	849486	50.0000	
49 TRICHLOROETHENE	130	4.081	4.081	(1.042)	1097240	200.000	210
51 METHYL CYCLOHEXANE	83	4.166	4.166	(1.064)	2235346	200.000	210
52 1,2-DICHLOROPROPANE	63	4.282	4.282	(1.093)	1457024	200.000	210
55 DIBROMOMETHANE	93	4.373	4.373	(1.116)	697182	200.000	210
56 BROMODICHLOROMETHANE	83	4.477	4.477	(1.143)	1501121	200.000	220
57 2-CHLOROETHYL VINYL ETHER	63	4.708	4.708	(1.202)	1971621	400.000	430
58 cis-1,3-DICHLOROPROPENE	75	4.817	4.817	(1.230)	2302679	200.000	220
59 4-METHYL-2-PENTANONE (MIBK)	43	4.927	4.927	(1.258)	3140327	400.000	420
§ 60 TOLUENE-d8	98	4.982	4.982	(1.272)	4430412	200.000	210
61 TOLUENE	92	5.030	5.030	(1.284)	3170061	200.000	210
62 trans-1,3-DICHLOROPROPENE	75	5.261	5.261	(1.343)	2185842	200.000	230
64 1,1,2-TRICHLOROETHANE	83	5.401	5.401	(1.379)	1001865	200.000	200
65 TETRACHLOROETHENE	164	5.426	5.426	(0.887)	931142	200.000	200
66 1,3-DICHLOROPROPANE	76	5.535	5.535	(1.413)	2254746	200.000	200
67 2-HEXANONE	43	5.572	5.572	(0.911)	2426857	400.000	420
68 DIBROMOCHLOROMETHANE	129	5.681	5.681	(0.928)	1178372	200.000	230
69 1,2-DIBROMOETHANE	107	5.778	5.778	(1.475)	1185040	200.000	210
* 71 CHLOROBENZENE-d5	82	6.119	6.119	(1.000)	503387	50.0000	
72 CHLOROBENZENE	112	6.143	6.143	(1.004)	3401933	200.000	200
73 ETHYL BENZENE	91	6.204	6.204	(1.014)	6689296	200.000	210
74 1,1,1,2-TETRACHLOROETHANE	131	6.210	6.210	(1.015)	1111315	200.000	210
76 m,p-XYLENE	106	6.302	6.302	(1.030)	4940127	400.000	410
77 o-XYLENE	106	6.618	6.618	(1.082)	2448294	200.000	210
78 STYRENE	104	6.642	6.642	(1.085)	4219513	200.000	210
79 BROMOFORM	173	6.813	6.813	(1.113)	808865	200.000	240
80 ISOPROPYLBENZENE	105	6.904	6.904	(1.128)	5780061	200.000	210
§ 82 4-BROMOFLUOROBENZENE	95	7.074	7.074	(1.156)	1844716	200.000	200
83 BROMOBENZENE	156	7.184	7.184	(1.174)	1432927	200.000	200
84 1,1,2,2-TETRACHLOROETHANE	83	7.220	7.220	(1.180)	1720959	200.000	200

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
86 1 2 3-TRICHLOROPROPANE	110	7.263	7.263	(1.187)	530906	200.000	190
85 n-PROPYLBENZENE	120	7.245	7.245	(1.184)	1775689	200.000	210
88 2-CHLOROTOLUENE	126	7.336	7.336	(1.199)	1469797	200.000	200
89 1 3 5-TRIMETHYLBENZENE	105	7.397	7.397	(1.209)	5720387	200.000	210
90 4-CHLOROTOLUENE	126	7.433	7.433	(1.215)	1478371	200.000	200
91 a-Methylstyrene TIC	118	7.585	7.585	(1.240)	2999513	200.000	220(A)
92 tert-BUTYLBENZENE	119	7.646	7.646	(1.250)	4737756	200.000	200
94 1 2 4-TRIMETHYLBENZENE	105	7.701	7.701	(1.258)	5682142	200.000	210
95 sec-BUTYLBENZENE	105	7.829	7.829	(1.279)	7196692	200.000	210
97 1 3-DICHLOROBENZENE	146	7.956	7.956	(1.300)	2917778	200.000	200
96 p-ISOPROPYLTOLUENE	119	7.956	7.956	(1.300)	5801619	200.000	210
98 1 4-DICHLOROBENZENE	146	8.035	8.035	(1.313)	2926951	200.000	200
99 n-BUTYLBENZENE	91	8.291	8.291	(1.355)	5713100	200.000	220
100 1 2-DICHLOROBENZENE	146	8.346	8.346	(1.364)	2746841	200.000	200
101 1 2-DIBROMO-3-CHLOROPROPANE	157	9.021	9.021	(1.474)	309110	200.000	220
102 1 2 4-TRICHLOROBENZENE	180	9.678	9.678	(1.582)	1542462	200.000	210
103 HEXACHLOROBUTADIENE	225	9.775	9.775	(1.597)	637410	200.000	190
104 NAPHTHALENE	128	9.891	9.891	(1.616)	3763494	200.000	230
105 1 2 3-TRICHLOROBENZENE	180	10.098	10.098	(1.650)	1346704	200.000	210
M 106 1,2-DICHLOROETHENE (total)	96				1990004	400.000	390
M 107 1,3-DICHLOROPROPENE (total)	75				4488522	400.000	450
M 108 XYLENE (total)	106				7388421	600.000	620

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: pe0818q.d

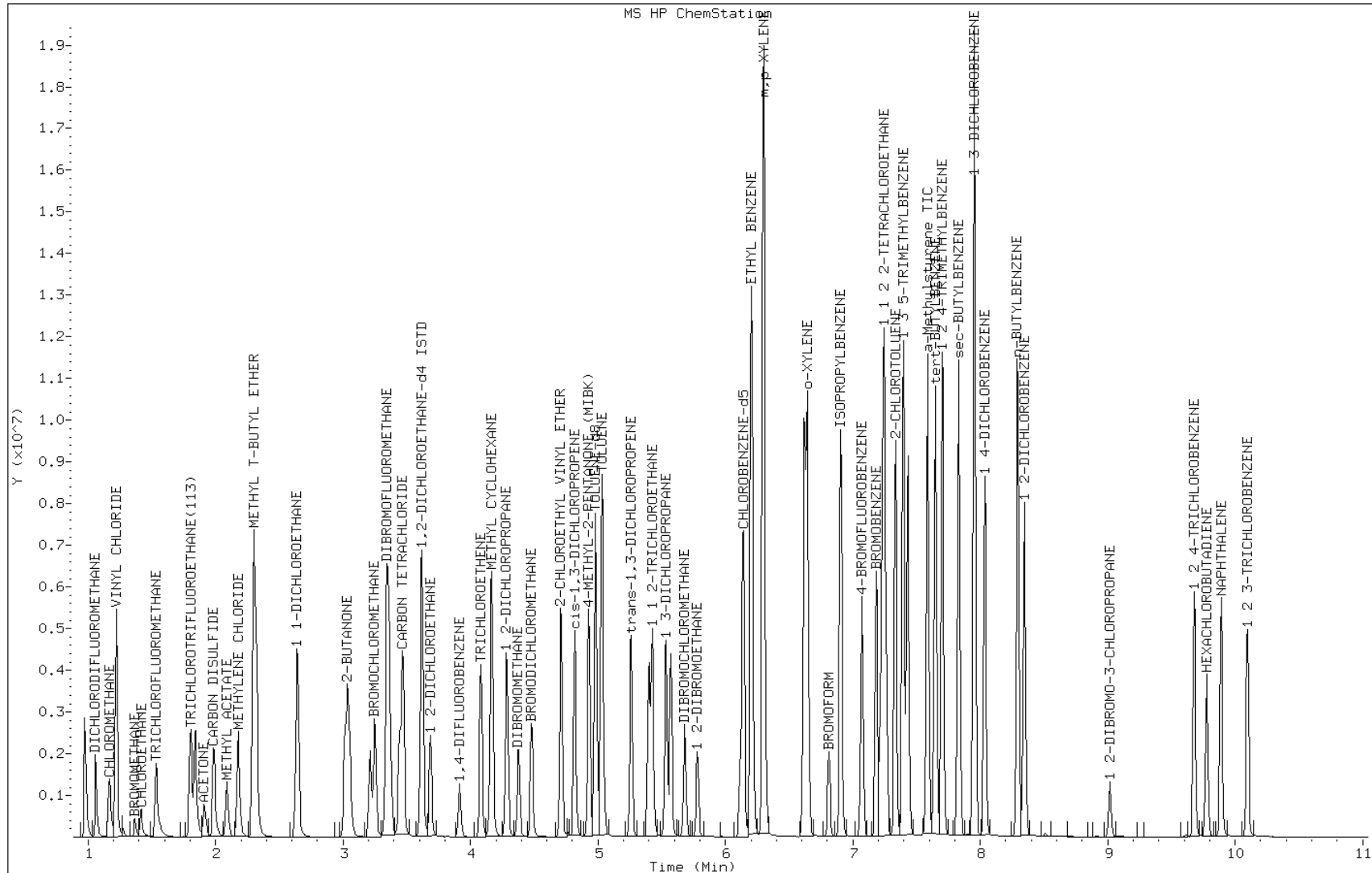
Date: 09-MAY-2013 03:25

Client ID: 8260-200

Instrument: MSP5973.i

Sample Info: IC; 8260-200=[4P050813]

Operator: ajmc



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-277181/3 Calibration Date: 05/18/2013 11:49
 Instrument ID: MSP Calib Start Date: 05/08/2013 23:56
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/09/2013 03:25
 Lab File ID: pe1804q.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	0.9253	0.9946		53.7	50.0	7.5	60.0
Chloromethane	Ave	1.132	1.020	0.1000	45.0	50.0	-9.9	60.0
Vinyl chloride	Ave	1.162	1.017		43.8	50.0	-12.4	20.0
1,3-Butadiene	Ave	0.9749	0.8740		44.8	50.0	-10.3	60.0
Bromomethane	Ave	0.2040	0.2165		53.1	50.0	6.1	60.0
Chloroethane	Ave	0.3775	0.3935		52.1	50.0	4.2	60.0
Trichlorofluoromethane	Ave	1.054	1.071		50.8	50.0	1.6	60.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.7504	0.7651		51.0	50.0	2.0	60.0
1,1-Dichloroethene	Ave	0.6891	0.6597		47.9	50.0	-4.3	20.0
Acetone	Ave	0.1187	0.1104		93.0	100	-7.0	60.0
Carbon disulfide	Ave	2.113	2.144		50.7	50.0	1.5	60.0
Methyl acetate	Ave	1.304	1.396		53.5	50.0	7.0	60.0
Methylene Chloride	Ave	0.8442	0.8032		47.6	50.0	-4.9	60.0
Methyl tert-butyl ether	Ave	2.640	2.593		98.2	100	-1.8	60.0
trans-1,2-Dichloroethene	Ave	0.7810	0.7556		48.4	50.0	-3.2	60.0
1,1-Dichloroethane	Ave	1.520	1.528	0.1000	50.3	50.0	0.5	60.0
Vinyl acetate	Ave	1.577	1.728		110	100	9.6	60.0
2,2-Dichloropropane	Ave	1.042	1.146		55.0	50.0	10.0	60.0
cis-1,2-Dichloroethene	Ave	0.9180	0.8532		46.5	50.0	-7.1	60.0
2-Butanone	Ave	0.6086	0.6289		103	100	3.3	60.0
Bromochloromethane	Ave	0.9166	0.9447		51.5	50.0	3.1	60.0
Chloroform	Ave	1.434	1.426		49.7	50.0	-0.6	20.0
Cyclohexane	Ave	0.5909	0.6910		58.5	50.0	16.9	60.0
1,1,1-Trichloroethane	Ave	0.4214	0.5062		60.1	50.0	20.1	60.0
Carbon tetrachloride	Ave	0.3372	0.4243		62.9	50.0	25.8	60.0
1,1-Dichloropropene	Ave	0.4819	0.5517		57.2	50.0	14.5	60.0
Benzene	Ave	1.376	1.510		54.8	50.0	9.7	60.0
1,2-Dichloroethane	Ave	0.4354	0.5203		59.7	50.0	19.5	60.0
Trichloroethene	Ave	0.3115	0.3378		54.2	50.0	8.5	60.0
Methylcyclohexane	Ave	0.6283	0.7081		56.4	50.0	12.7	60.0
1,2-Dichloropropane	Ave	0.4142	0.4650		56.1	50.0	12.3	20.0
Dibromomethane	Ave	0.2001	0.2278		56.9	50.0	13.8	60.0
Bromodichloromethane	Ave	0.3933	0.4756		60.5	50.0	20.9	60.0
2-Chloroethyl vinyl ether	Ave	0.2720	0.3119		115	100	14.7	60.0
cis-1,3-Dichloropropene	Ave	0.6125	0.7161		58.5	50.0	16.9	60.0
4-Methyl-2-pentanone	Ave	0.4405	0.5284		120	100	19.9	60.0
Toluene	Ave	0.9101	0.9670		53.1	50.0	6.3	20.0
trans-1,3-Dichloropropene	Ave	0.5677	0.6848		60.3	50.0	20.6	60.0
1,1,2-Trichloroethane	Ave	0.2894	0.3206		55.4	50.0	10.8	60.0
Tetrachloroethene	Ave	0.4564	0.4681		51.3	50.0	2.5	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-277181/3 Calibration Date: 05/18/2013 11:49
 Instrument ID: MSP Calib Start Date: 05/08/2013 23:56
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/09/2013 03:25
 Lab File ID: pe1804q.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
1,3-Dichloropropane	Ave	0.6579	0.7355		55.9	50.0	11.8	60.0
2-Hexanone	Ave	0.5714	0.6069		106	100	6.2	60.0
Dibromochloromethane	Ave	0.5066	0.5657		55.8	50.0	11.7	60.0
1,2-Dibromoethane	Ave	0.3347	0.3690		55.1	50.0	10.2	60.0
Chlorobenzene	Ave	1.677	1.690	0.3000	50.4	50.0	0.8	60.0
Ethylbenzene	Ave	3.125	3.289		52.6	50.0	5.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5163	0.5638		54.6	50.0	9.2	60.0
m-Xylene & p-Xylene	Ave	1.199	1.236		103	100	3.0	60.0
o-Xylene	Ave	1.180	1.193		50.6	50.0	1.1	60.0
Styrene	Ave	1.958	2.039		52.1	50.0	4.2	60.0
Bromoform	LinF	0.3288	0.3750	0.1000	47.5	50.0	-5.1	60.0
Isopropylbenzene	Ave	2.740	2.860		52.2	50.0	4.4	60.0
Bromobenzene	Ave	0.7043	0.7191		51.1	50.0	2.1	60.0
1,1,2,2-Tetrachloroethane	Ave	0.8367	0.9072	0.3000	54.2	50.0	8.4	60.0
N-Propylbenzene	Ave	0.8539	0.9092		53.2	50.0	6.5	60.0
1,2,3-Trichloropropane	Ave	0.2710	0.2877		53.1	50.0	6.2	60.0
2-Chlorotoluene	Ave	0.7249	0.7566		52.2	50.0	4.4	60.0
1,3,5-Trimethylbenzene	Ave	2.706	2.928		54.1	50.0	8.2	60.0
4-Chlorotoluene	Ave	0.7367	0.7648		51.9	50.0	3.8	60.0
tert-Butylbenzene	Ave	2.308	2.438		52.8	50.0	5.7	60.0
1,2,4-Trimethylbenzene	Ave	2.718	2.958		54.4	50.0	8.8	60.0
sec-Butylbenzene	Ave	3.435	3.735		54.4	50.0	8.7	60.0
p-Isopropyltoluene	Ave	2.741	3.002		54.7	50.0	9.5	60.0
1,3-Dichlorobenzene	Ave	1.484	1.552		52.3	50.0	4.6	60.0
1,4-Dichlorobenzene	Ave	1.470	1.537		52.3	50.0	4.6	60.0
n-Butylbenzene	Ave	2.612	2.986		57.2	50.0	14.3	60.0
1,2-Dichlorobenzene	Ave	1.378	1.446		52.4	50.0	4.9	60.0
1,2-Dibromo-3-Chloropropane	Ave	0.1372	0.1506		54.9	50.0	9.8	60.0
1,2,4-Trichlorobenzene	Ave	0.7298	0.7713		52.8	50.0	5.7	60.0
Hexachlorobutadiene	Ave	0.3350	0.3408		50.9	50.0	1.7	60.0
Naphthalene	Ave	1.625	1.908		58.7	50.0	17.5	60.0
1,2,3-Trichlorobenzene	Ave	0.6428	0.6741		52.4	50.0	4.9	60.0
1,3-Dichloropropene, Total	Ave	0.5901	0.7004		119	100	18.7	60.0
Dibromofluoromethane	Ave	0.7093	0.6698		47.2	50.0	-5.6	60.0
Toluene-d8 (Surr)	Ave	1.254	1.374		54.8	50.0	9.6	60.0
4-Bromofluorobenzene	Ave	0.9029	0.9174		50.8	50.0	1.6	60.0

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/lp051813.b/pe1804q.d
Lab Smp Id: CCVIS;8260-050 Client Smp ID: 8260-050
Inj Date : 18-MAY-2013 11:49
Operator : ajmc Inst ID: MSP5973.i
Smp Info : CCVIS;8260-050=[1P051813]
Misc Info :
Comment : PURGE & TRAP ANALYSIS
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Meth Date : 18-May-2013 12:08 mcnamara Quant Type: ISTD
Cal Date : 15-APR-2013 13:20 Cal File: pd1514q.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85		1.064	1.064	(0.293)	241498	50.0000	54
2 CHLOROMETHANE	50		1.173	1.173	(0.323)	247680	50.0000	45
3 VINYL CHLORIDE	62		1.216	1.216	(0.335)	247024	50.0000	44
4 BUTADIENE	54		1.228	1.228	(0.338)	212225	50.0000	45
5 BROMOMETHANE	96		1.374	1.374	(0.378)	52565	50.0000	53
6 CHLOROETHANE	64		1.423	1.423	(0.392)	95552	50.0000	52
7 TRICHLOROFLUOROMETHANE	101		1.538	1.538	(0.424)	259958	50.0000	51
11 TRICHLOROTRIFLUOROETHANE(113)	101		1.806	1.806	(0.497)	185782	50.0000	51
13 1 1-DICHLOROETHENE	96		1.842	1.842	(0.507)	160174	50.0000	48
14 ACETONE	58		1.915	1.915	(0.528)	53631	100.000	93
16 CARBON DISULFIDE	76		1.988	1.988	(0.548)	520555	50.0000	51
18 METHYL ACETATE	43		2.092	2.092	(0.576)	338896	50.0000	54
20 METHYLENE CHLORIDE	84		2.183	2.183	(0.601)	195018	50.0000	48

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.305	2.305	(0.635)	1259313	100.000	98
23 trans-1 2-DICHLOROETHENE	96	2.323	2.323	(0.640)	183475	50.0000	48
27 1 1-DICHLOROETHANE	63	2.639	2.639	(0.727)	370988	50.0000	50
28 VINYL ACETATE	43	2.645	2.645	(0.729)	839362	100.000	110
32 2-BUTANONE	43	3.059	3.059	(0.842)	305386	100.000	100
30 2 2-DICHLOROPROPANE	77	3.017	3.017	(0.831)	278301	50.0000	55
31 cis-1 2-DICHLOROETHENE	96	3.041	3.041	(0.837)	207171	50.0000	46
34 BROMOCHLOROMETHANE	49	3.211	3.211	(0.884)	229380	50.0000	52
37 CHLOROFORM	83	3.254	3.254	(0.896)	346246	50.0000	50
§ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	162625	50.0000	47
39 1 1 1-TRICHLOROETHANE	97	3.357	3.357	(0.857)	286838	50.0000	60
38 CYCLOHEXANE	56	3.345	3.345	(0.854)	391508	50.0000	58
41 CARBON TETRACHLORIDE	117	3.449	3.449	(0.880)	240429	50.0000	63
42 1 1-DICHLOROPROPENE	75	3.473	3.473	(0.887)	312588	50.0000	57
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	242814	50.0000	
44 BENZENE	78	3.619	3.619	(0.924)	855568	50.0000	55
46 1 2-DICHLOROETHANE	62	3.686	3.686	(0.941)	294827	50.0000	60
* 48 1,4-DIFLUOROEBENZENE	114	3.917	3.917	(1.000)	566620	50.0000	
49 TRICHLOROETHENE	130	4.081	4.081	(1.042)	191426	50.0000	54
51 METHYL CYCLOHEXANE	83	4.166	4.166	(1.064)	401196	50.0000	56
52 1 2-DICHLOROPROPANE	63	4.282	4.282	(1.093)	263493	50.0000	56
55 DIBROMOMETHANE	93	4.379	4.379	(1.118)	129054	50.0000	57
56 BROMODICHLOROMETHANE	83	4.483	4.483	(1.144)	269485	50.0000	60
57 2-CHLOROETHYL VINYL ETHER	63	4.708	4.708	(1.202)	353429	100.000	110
58 cis-1,3-DICHLOROPROPENE	75	4.817	4.817	(1.230)	405729	50.0000	58
59 4-METHYL-2-PENTANONE (MIBK)	43	4.927	4.927	(1.258)	598759	100.000	120
§ 60 TOLUENE-d8	98	4.982	4.982	(1.272)	778593	50.0000	55
61 TOLUENE	92	5.030	5.030	(1.284)	547925	50.0000	53
62 trans-1,3-DICHLOROPROPENE	75	5.261	5.261	(1.343)	388023	50.0000	60
64 1 1 2-TRICHLOROETHANE	83	5.395	5.395	(1.377)	181664	50.0000	55
65 TETRACHLOROETHENE	164	5.426	5.426	(0.887)	167220	50.0000	51
66 1 3-DICHLOROPROPANE	76	5.535	5.535	(1.413)	416734	50.0000	56
67 2-HEXANONE	43	5.572	5.572	(0.911)	433616	100.000	110
68 DIBROMOCHLOROMETHANE	129	5.681	5.681	(0.928)	202116	50.0000	56
69 1 2-DIBROMOETHANE	107	5.779	5.779	(1.475)	209063	50.0000	55
* 71 CHLOROBENZENE-d5	82	6.119	6.119	(1.000)	357266	50.0000	
72 CHLOROBENZENE	112	6.137	6.137	(1.003)	603889	50.0000	50
73 ETHYL BENZENE	91	6.198	6.198	(1.013)	1175116	50.0000	53
74 1,1,1,2-TETRACHLOROETHANE	131	6.210	6.210	(1.015)	201412	50.0000	55
76 m,p-XYLENE	106	6.296	6.296	(1.029)	882841	100.000	100
77 o-XYLENE	106	6.618	6.618	(1.082)	426336	50.0000	51
78 STYRENE	104	6.642	6.642	(1.085)	728536	50.0000	52
79 BROMOFORM	173	6.813	6.813	(1.113)	133967	50.0000	47
80 ISOPROPYLBENZENE	105	6.904	6.904	(1.128)	1021867	50.0000	52
§ 82 4-BROMOFLUOROBENZENE	95	7.068	7.068	(1.155)	327760	50.0000	51
83 BROMOBENZENE	156	7.184	7.184	(1.174)	256897	50.0000	51
84 1 1 2 2-TETRACHLOROETHANE	83	7.220	7.220	(1.180)	324117	50.0000	54

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
86 1 2 3-TRICHLOROPROPANE	110	7.263	7.263	(1.187)	102789	50.0000	53
85 n-PROPYLBENZENE	120	7.239	7.239	(1.183)	324826	50.0000	53
88 2-CHLOROTOLUENE	126	7.336	7.336	(1.199)	270297	50.0000	52
89 1 3 5-TRIMETHYLBENZENE	105	7.391	7.391	(1.208)	1045930	50.0000	54
90 4-CHLOROTOLUENE	126	7.433	7.433	(1.215)	273245	50.0000	52
91 a-Methylstyrene TIC	118	7.585	7.585	(1.240)	528737	50.0000	54
92 tert-BUTYLBENZENE	119	7.646	7.646	(1.250)	871112	50.0000	53
94 1 2 4-TRIMETHYLBENZENE	105	7.701	7.701	(1.258)	1056813	50.0000	54
95 sec-BUTYLBENZENE	105	7.829	7.829	(1.279)	1334430	50.0000	54
97 1 3-DICHLOROBENZENE	146	7.956	7.956	(1.300)	554611	50.0000	52
96 p-ISOPROPYLTOLUENE	119	7.950	7.950	(1.299)	1072342	50.0000	55
98 1 4-DICHLOROBENZENE	146	8.036	8.036	(1.313)	549052	50.0000	52
99 n-BUTYLBENZENE	91	8.291	8.291	(1.355)	1066753	50.0000	57
100 1 2-DICHLOROBENZENE	146	8.346	8.346	(1.364)	516476	50.0000	52
101 1 2-DIBROMO-3-CHLOROPROPANE	157	9.021	9.021	(1.474)	53819	50.0000	55
102 1 2 4-TRICHLOROBENZENE	180	9.678	9.678	(1.582)	275545	50.0000	53
103 HEXACHLOROBUTADIENE	225	9.775	9.775	(1.597)	121753	50.0000	51
104 NAPHTHALENE	128	9.891	9.891	(1.616)	681741	50.0000	59
105 1 2 3-TRICHLOROBENZENE	180	10.098	10.098	(1.650)	240827	50.0000	52
M 106 1,2-DICHLOROETHENE (total)	96				390647	100.000	95
M 107 1,3-DICHLOROPROPENE (total)	75				793752	100.000	120
M 108 XYLENE (total)	106				1309178	150.000	150

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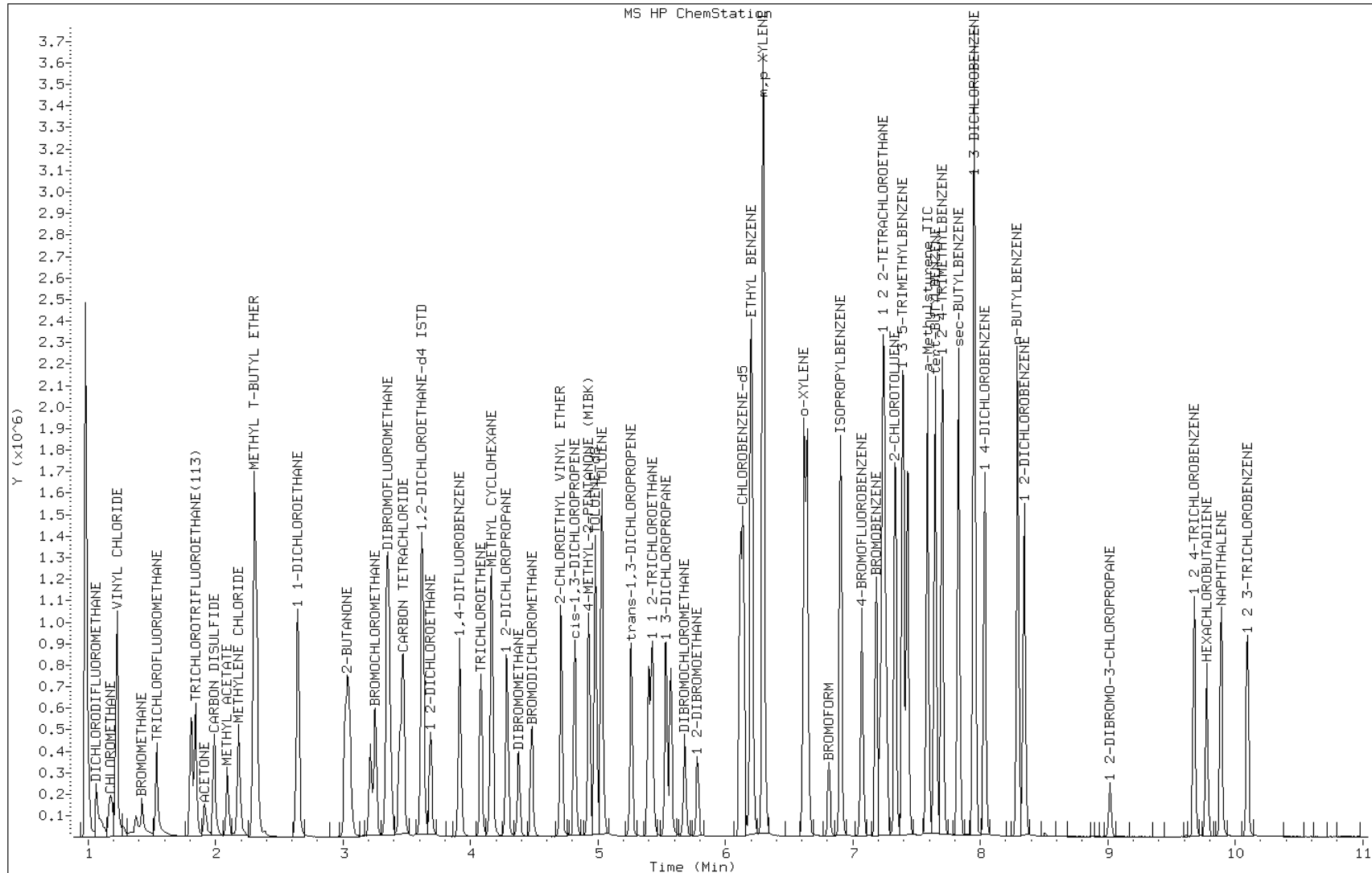
Date: 18-MAY-2013 11:49

Client ID: 8260-050

Instrument: MSP5973.i

Sample Info: CCVIS;8260-050=[1P051813]

Operator: ajmc



TESTAMERICA SAVANNAH

Data file : /chem/VM/MSP5973C2.i/4p050813.b/pe0801t.d
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Inj Date : 08-MAY-2013 23:12
Operator : ajmc Inst ID: MSP5973C2.i
Smp Info : BFB-TUNE=[4P050813]
Misc Info :
Comment :
Method : /chem/VM/MSP5973C2.i/4p050813.b/P-lbfb-m.m
Meth Date : 04-Mar-2013 14:15 cowartj Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem2

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
RT	EXP RT (REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
			ON-COL (ug/L)	FINAL (ug/L)			
1	BFB						CAS #: 460-00-4
7.054	7.048 (0.000)	95	80536		0.00- 100.00	100.00	
7.054	7.048 (0.000)	50	14971		8.00- 40.00	18.59	
7.054	7.048 (0.000)	75	37760		30.00- 66.00	46.89	
7.054	7.048 (0.000)	96	5402		5.00- 9.00	6.71	
7.054	7.048 (0.000)	173	0		0.00- 2.00	0.00	
7.054	7.048 (0.000)	174	56872		50.00- 120.00	70.62	
7.054	7.048 (0.000)	175	4344		4.00- 9.00	7.64	
7.054	7.048 (0.000)	176	55584		93.00- 101.00	97.74	
7.054	7.048 (0.000)	177	3896		5.00- 9.00	7.01	

Data File: pe0801t.d

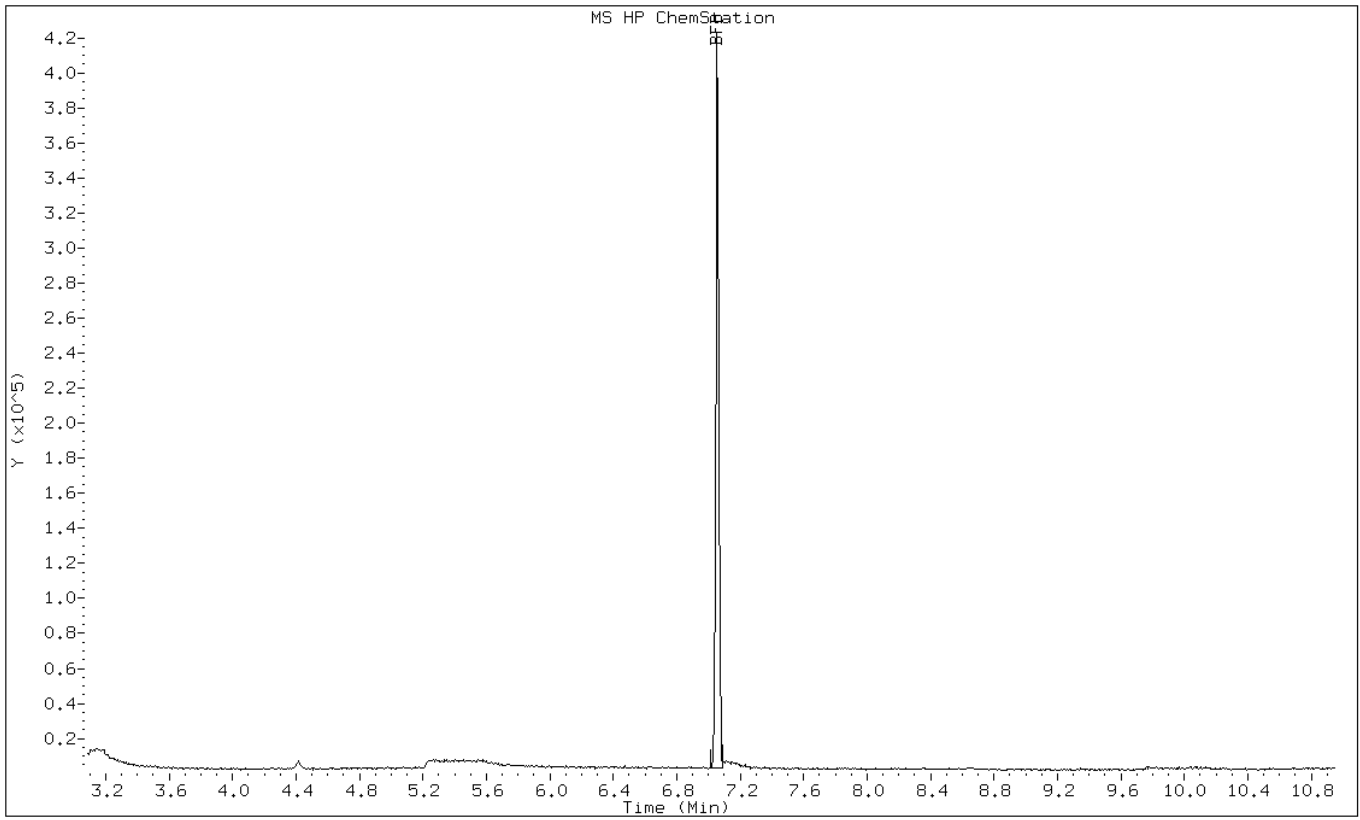
Date: 08-MAY-2013 23:12

Client ID: BFB

Instrument: MSP5973.i

Sample Info: BFB-TUNE=[4P050813]

Operator: ajmc



Data File: pe0801t.d

Date: 08-MAY-2013 23:12

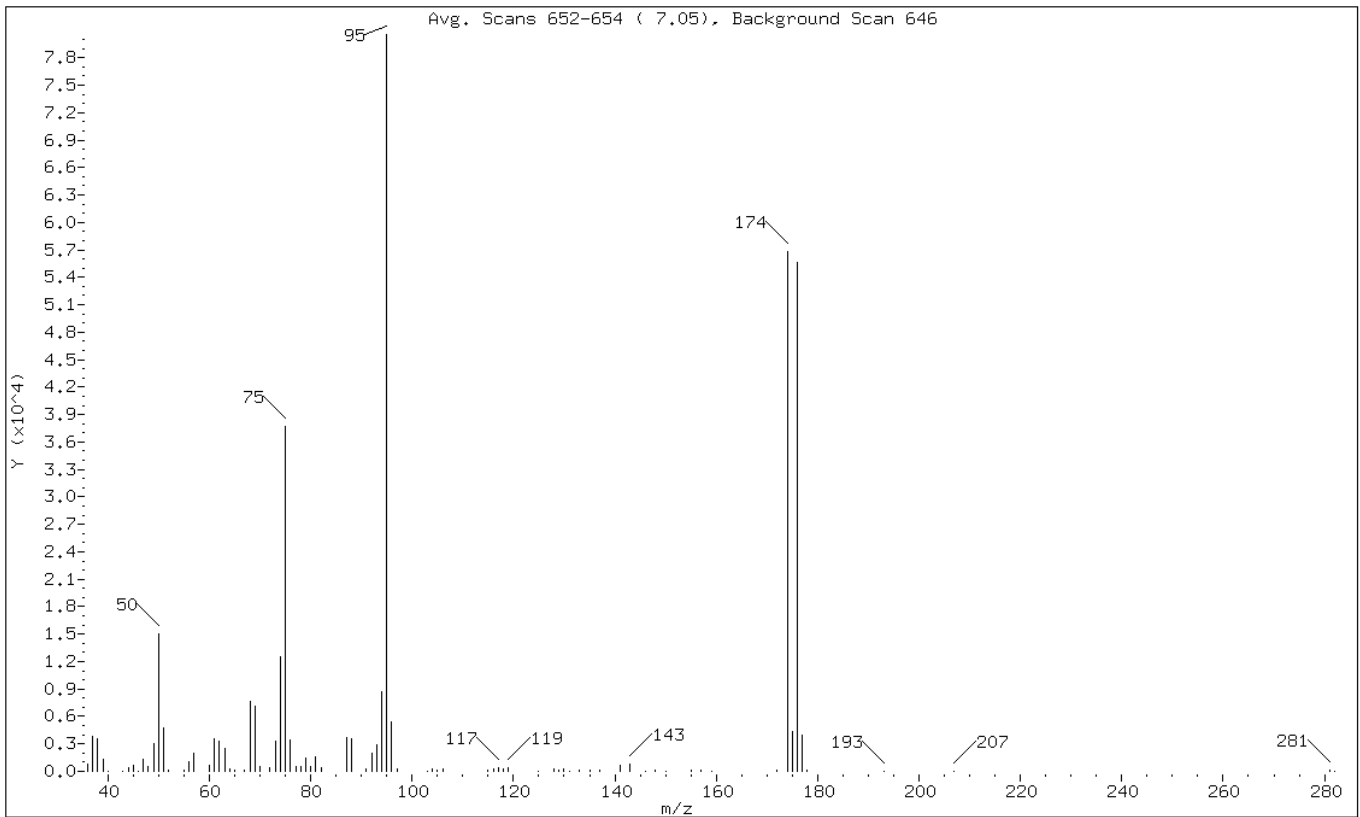
Client ID: BFB

Instrument: MSP5973.i

Sample Info: BFB-TUNE=[4P050813]

Operator: ajmc

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	18.59
75	30.00 - 66.00% of mass 95	46.89
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	70.62
175	4.00 - 9.00% of mass 174	5.39 (7.64)
176	93.00 - 101.00% of mass 174	69.02 (97.74)
177	5.00 - 9.00% of mass 176	4.84 (7.01)

Data File: pe0801t.d

Date: 08-MAY-2013 23:12

Client ID: BFB

Instrument: MSP5973.i

Sample Info: BFB-TUNE=[4P050813]

Operator: ajmc

Data File: /chem/VM/MSP5973.i/4p050813.b/pe0801t.d

Spectrum: Avg. Scans 652-654 (7.05), Background Scan 646

Location of Maximum: 95.00

Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	752	63.00	2558	92.00	2040	135.00	139
37.00	3777	64.00	224	93.00	2956	137.00	94
38.00	3583	65.00	158	94.00	8636	141.00	612
39.00	1358	67.00	109	95.00	80536	143.00	746
40.00	55	68.00	7605	96.00	5402	146.00	45
43.00	34	69.00	7176	97.00	234	148.00	155
44.00	351	70.00	587	103.00	36	150.00	58
45.00	703	72.00	420	104.00	245	155.00	157
46.00	36	73.00	3333	105.00	162	157.00	152
47.00	1298	74.00	12478	106.00	249	159.00	56
48.00	523	75.00	37760	115.00	130	172.00	87
49.00	3081	76.00	3413	116.00	240	174.00	56872
50.00	14971	77.00	469	117.00	398	175.00	4344
51.00	4784	78.00	467	118.00	213	176.00	55584
52.00	170	79.00	1432	119.00	371	177.00	3896
55.00	193	80.00	507	125.00	37	178.00	110
56.00	1054	81.00	1559	128.00	244	193.00	36
57.00	1994	82.00	354	129.00	134	207.00	40
60.00	653	87.00	3677	130.00	262	281.00	151
61.00	3494	88.00	3495	131.00	36	282.00	33
62.00	3307	91.00	243	133.00	151		

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Data file : /chem/VM/MSP5973C2.i/1p051813.b/pe1801t.d
 Lab Smp Id: BFB Client Smp ID: BFB
 Inj Date : 18-MAY-2013 11:03
 Operator : ajmc Inst ID: MSP5973C2.i
 Smp Info : BFB-TUNE=[1P051813]
 Misc Info :
 Comment :
 Method : /chem/VM/MSP5973C2.i/1p051813.b/P-1bfb-m.m
 Meth Date : 04-Mar-2013 14:15 cowartj Quant Type: ISTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: savchem2

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
RT	EXP RT (REL RT)	MASS	ON-COL		TARGET RANGE	RATIO	
			RESPONSE (ug/L)	FINAL (ug/L)			
1	BFB						CAS #: 460-00-4
7.060	7.048 (0.000)	95	34784		0.00- 100.00	100.00	
7.060	7.048 (0.000)	50	7390		8.00- 40.00	21.25	
7.060	7.048 (0.000)	75	17392		30.00- 66.00	50.00	
7.060	7.048 (0.000)	96	2407		5.00- 9.00	6.92	
7.060	7.048 (0.000)	173	0		0.00- 2.00	0.00	
7.060	7.048 (0.000)	174	24992		50.00- 120.00	71.85	
7.060	7.048 (0.000)	175	1786		4.00- 9.00	7.15	
7.060	7.048 (0.000)	176	23632		93.00- 101.00	94.56	
7.060	7.048 (0.000)	177	1541		5.00- 9.00	6.52	

Data File: pe1801t.d

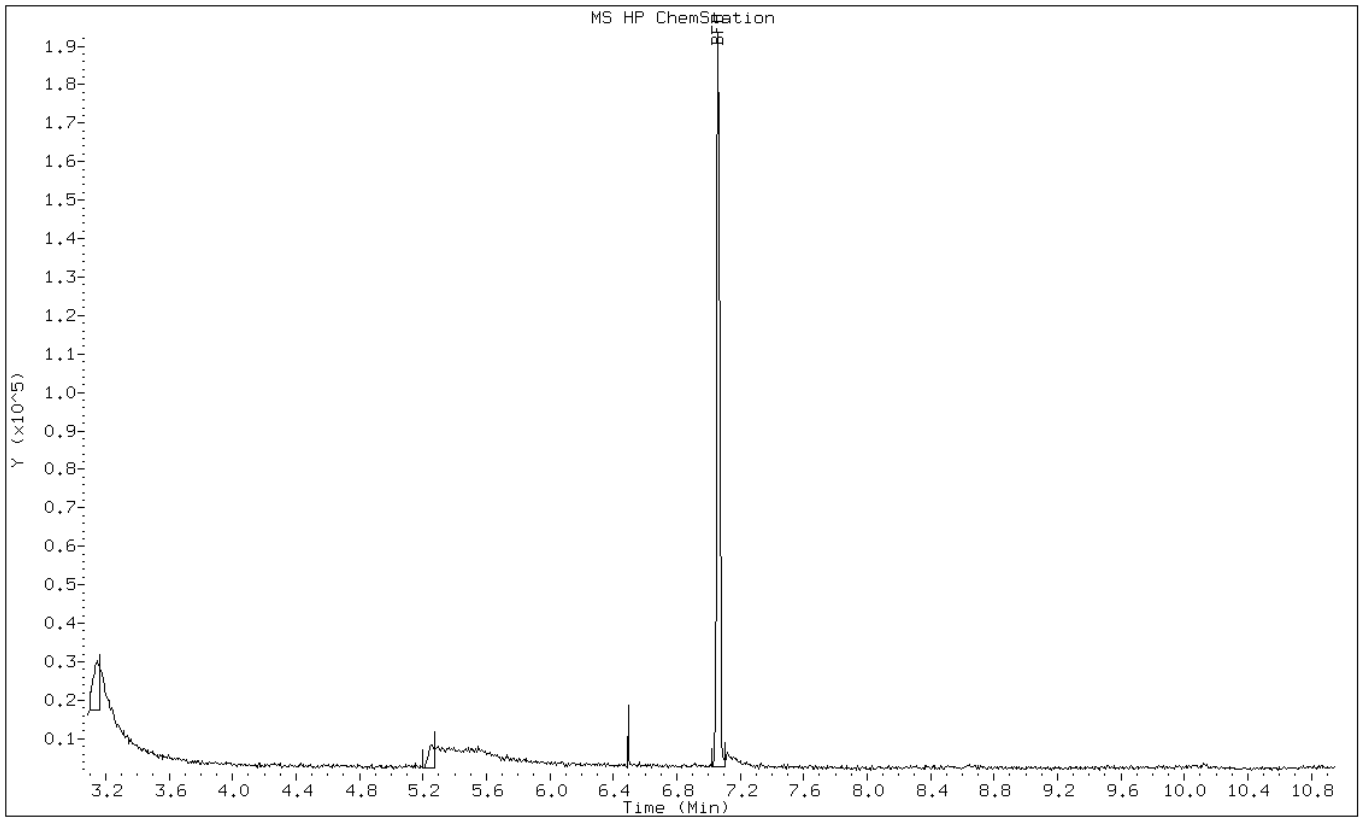
Date: 18-MAY-2013 11:03

Client ID: BFB

Instrument: MSP5973.i

Sample Info: BFB-TUNE=[1P051813]

Operator: ajmc



Data File: pe1801t.d

Date: 18-MAY-2013 11:03

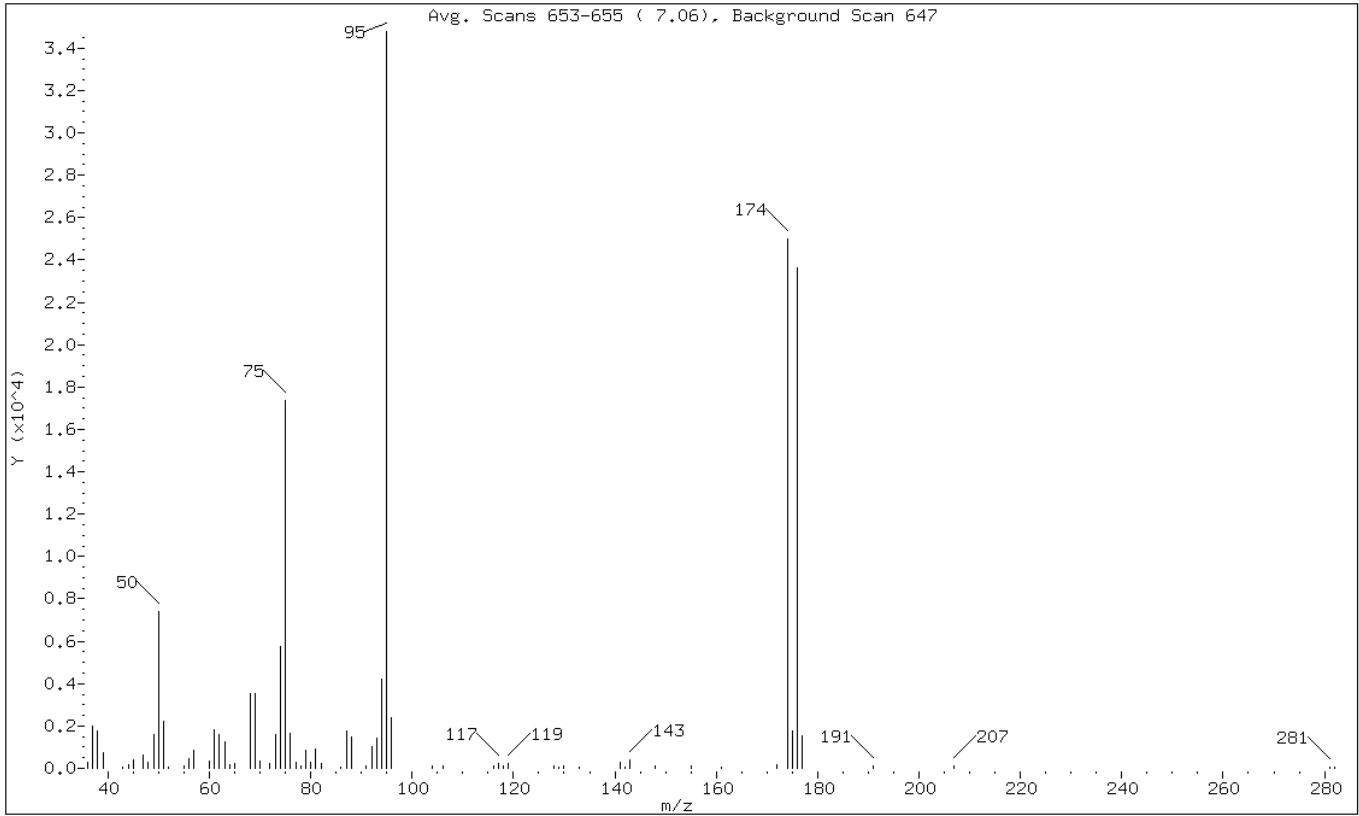
Client ID: BFB

Instrument: MSP5973.i

Sample Info: BFB-TUNE=[1P051813]

Operator: ajmc

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.25
75	30.00 - 66.00% of mass 95	50.00
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	71.85
175	4.00 - 9.00% of mass 174	5.13 (7.15)
176	93.00 - 101.00% of mass 174	67.94 (94.56)
177	5.00 - 9.00% of mass 176	4.43 (6.52)

Data File: pe1801t.d

Date: 18-MAY-2013 11:03

Client ID: BFB

Instrument: MSP5973.i

Sample Info: BFB-TUNE=[1P051813]

Operator: ajmc

Data File: /chem/VM/MSP5973.i/1p051813.b/pe1801t.d

Spectrum: Avg. Scans 653-655 (7.06), Background Scan 647

Location of Maximum: 95.00

Number of points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	274	62.00	1616	86.00	55	133.00	36
37.00	2001	63.00	1259	87.00	1775	141.00	291
38.00	1754	64.00	176	88.00	1460	142.00	40
39.00	723	65.00	221	91.00	86	143.00	374
43.00	34	68.00	3541	92.00	1026	148.00	99
44.00	143	69.00	3517	93.00	1426	155.00	89
45.00	385	70.00	327	94.00	4203	161.00	33
47.00	633	72.00	228	95.00	34784	172.00	160
48.00	291	73.00	1599	96.00	2407	174.00	24992
49.00	1617	74.00	5732	104.00	133	175.00	1786
50.00	7390	75.00	17392	106.00	140	176.00	23632
51.00	2199	76.00	1648	116.00	128	177.00	1541
52.00	75	77.00	309	117.00	204	191.00	132
55.00	88	78.00	97	118.00	138	207.00	93
56.00	474	79.00	868	119.00	230	281.00	40
57.00	844	80.00	261	128.00	105	282.00	33
60.00	352	81.00	912	129.00	34		
61.00	1829	82.00	230	130.00	119		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-277181/7
 Matrix: Water Lab File ID: pe1816q.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 14:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.13
75-34-3	1,1-Dichloroethane	ND		1.0	0.25
75-35-4	1,1-Dichloroethene	ND		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.44
106-93-4	1,2-Dibromoethane	ND		1.0	0.25
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.21
107-06-2	1,2-Dichloroethane	ND		1.0	0.10
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.28
78-93-3	2-Butanone	ND		10	1.0
591-78-6	2-Hexanone	ND		10	1.0
108-10-1	4-Methyl-2-pentanone	ND		10	1.0
67-64-1	Acetone	ND		25	5.0
71-43-2	Benzene	ND		1.0	0.25
75-27-4	Bromodichloromethane	ND		1.0	0.25
75-25-2	Bromoform	ND		1.0	0.50
74-83-9	Bromomethane	ND		5.0	2.0
75-15-0	Carbon disulfide	ND		2.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.25
75-00-3	Chloroethane	ND		5.0	2.0
67-66-3	Chloroform	ND		1.0	0.14
74-87-3	Chloromethane	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.11
110-82-7	Cyclohexane	ND		1.0	0.25
124-48-1	Dibromochloromethane	ND		1.0	0.10
75-71-8	Dichlorodifluoromethane	ND		1.0	0.25
100-41-4	Ethylbenzene	ND		1.0	0.11
98-82-8	Isopropylbenzene	ND		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-277181/7
 Matrix: Water Lab File ID: pe1816q.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 14:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		10	0.20
108-87-2	Methylcyclohexane	ND		1.0	0.10
75-09-2	Methylene Chloride	ND		5.0	1.0
100-42-5	Styrene	ND		1.0	0.11
127-18-4	Tetrachloroethene	ND		1.0	0.15
108-88-3	Toluene	ND		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.13
75-69-4	Trichlorofluoromethane	ND		1.0	0.25
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	94		70-130
1868-53-7	Dibromofluoromethane	99		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

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SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/lp051813.b/pe1816q.d
Lab Smp Id: MB Client Smp ID: lp051813MB
Inj Date : 18-MAY-2013 14:51
Operator : ajmc Inst ID: MSP5973.i
Smp Info : MB=[1P051813]
Misc Info :
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSP5973.i/lp051813.b/P-18260B-m.m
Meth Date : 18-May-2013 12:08 mcnamara Quant Type: ISTD
Cal Date : 15-APR-2013 13:20 Cal File: pd1514q.d
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 40 DIBROMOFLUOROMETHANE	113		3.369	3.369	(0.928)	206042	49.4782	49
* 45 1,2-DICHLOROETHANE-d4 ISTD	65		3.631	3.631	(1.000)	293548	50.0000	
* 48 1,4-DIFLUOROBENZENE	114		3.917	3.917	(1.000)	733355	50.0000	
\$ 60 TOLUENE-d8	98		4.981	4.982	(1.272)	914337	49.7045	50
* 71 CHLOROBENZENE-d5	82		6.119	6.119	(1.000)	433509	50.0000	
\$ 82 4-BROMOFLUOROBENZENE	95		7.068	7.068	(1.155)	367530	46.9499	47

Data File: pe1816q.d

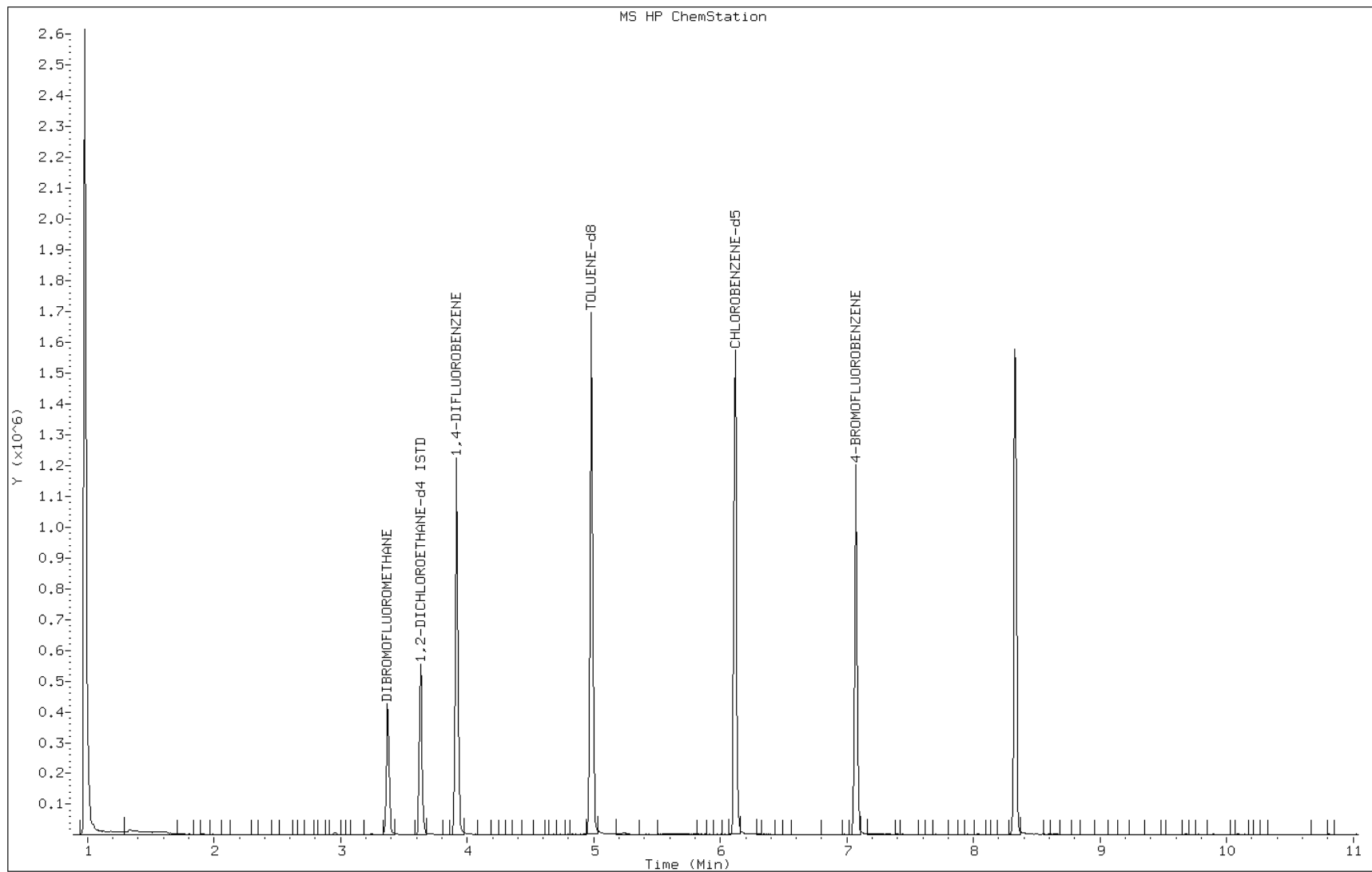
Date: 18-MAY-2013 14:51

Client ID: lp051813MB

Instrument: MSP5973.i

Sample Info: MB=[1P051813]

Operator: ajmc



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-277181/4
 Matrix: Water Lab File ID: pe1806q.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 12:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	56.8		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	52.4		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50.5		1.0	0.50
79-00-5	1,1,2-Trichloroethane	56.3		1.0	0.13
75-34-3	1,1-Dichloroethane	47.5		1.0	0.25
75-35-4	1,1-Dichloroethene	49.8		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	53.2		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	57.0		1.0	0.44
106-93-4	1,2-Dibromoethane	55.0		1.0	0.25
95-50-1	1,2-Dichlorobenzene	51.1		1.0	0.21
107-06-2	1,2-Dichloroethane	56.1		1.0	0.10
78-87-5	1,2-Dichloropropane	48.9		1.0	0.13
541-73-1	1,3-Dichlorobenzene	51.2		1.0	0.25
106-46-7	1,4-Dichlorobenzene	50.8		1.0	0.28
78-93-3	2-Butanone	107		10	1.0
591-78-6	2-Hexanone	111		10	1.0
108-10-1	4-Methyl-2-pentanone	122		10	1.0
67-64-1	Acetone	97.1		25	5.0
71-43-2	Benzene	53.6		1.0	0.25
75-27-4	Bromodichloromethane	57.1		1.0	0.25
75-25-2	Bromoform	48.4		1.0	0.50
74-83-9	Bromomethane	41.5		5.0	2.0
75-15-0	Carbon disulfide	55.3		2.0	0.60
56-23-5	Carbon tetrachloride	61.1		1.0	0.50
108-90-7	Chlorobenzene	50.6		1.0	0.25
75-00-3	Chloroethane	44.3		5.0	2.0
67-66-3	Chloroform	49.1		1.0	0.14
74-87-3	Chloromethane	45.7		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	47.5		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	50.3		1.0	0.11
110-82-7	Cyclohexane	63.5		1.0	0.25
124-48-1	Dibromochloromethane	54.7		1.0	0.10
75-71-8	Dichlorodifluoromethane	59.5		1.0	0.25
100-41-4	Ethylbenzene	51.3		1.0	0.11
98-82-8	Isopropylbenzene	56.0		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-277181/4
 Matrix: Water Lab File ID: pe1806q.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 12:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	51.0		1.0	0.19
1634-04-4	Methyl tert-butyl ether	102		10	0.20
108-87-2	Methylcyclohexane	58.3		1.0	0.10
75-09-2	Methylene Chloride	51.2		5.0	1.0
100-42-5	Styrene	51.7		1.0	0.11
127-18-4	Tetrachloroethene	51.2		1.0	0.15
108-88-3	Toluene	52.5		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	50.0		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	51.5		1.0	0.21
79-01-6	Trichloroethene	51.0		1.0	0.13
75-69-4	Trichlorofluoromethane	48.2		1.0	0.25
75-01-4	Vinyl chloride	45.0		1.0	0.18
1330-20-7	Xylenes, Total	152		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	103		70-130
1868-53-7	Dibromofluoromethane	98		70-130
2037-26-5	Toluene-d8 (Surr)	107		70-130

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SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/lp051813.b/pe1806q.d
Lab Smp Id: LCS Client Smp ID: lp051813MBLCS
Inj Date : 18-MAY-2013 12:19
Operator : ajmc Inst ID: MSP5973.i
Smp Info : LCS=[1P051813]
Misc Info :
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSP5973.i/lp051813.b/P-18260B-m.m
Meth Date : 18-May-2013 12:08 mcnamara Quant Type: ISTD
Cal Date : 15-APR-2013 13:20 Cal File: pd1514q.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.064	1.064	(0.293)	275612	59.5029	60
2 CHLOROMETHANE	50	1.179	1.173	(0.325)	259255	45.7381	46
3 VINYL CHLORIDE	62	1.210	1.216	(0.333)	261666	44.9932	45
4 BUTADIENE	54	1.228	1.228	(0.338)	225545	46.2161	46
5 BROMOMETHANE	96	1.368	1.374	(0.377)	42402	41.5177	42
6 CHLOROETHANE	64	1.417	1.423	(0.390)	83653	44.2661	44
7 TRICHLOROFLUOROMETHANE	101	1.532	1.538	(0.422)	254100	48.1776	48
8 Ethanol	46	1.690	1.678	(0.466)	45939	1560.70	1600(Q)
9 DIETHYL ETHER	59	1.696	1.696	(0.467)	199998	49.4043	49
10 FURAN	68	1.733	1.733	(0.477)	333404	42.9018	43
11 TRICHLOROTRIFLUOROETHANE(113)	101	1.806	1.806	(0.497)	189810	50.5282	51
13 1 1-DICHLOROETHENE	96	1.842	1.842	(0.507)	171794	49.7982	50
14 ACETONE	58	1.915	1.915	(0.528)	57704	97.1170	97

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
15 IODOMETHANE	142	1.964	1.958	(0.541)	6262	1.15169	1.2
16 CARBON DISULFIDE	76	1.988	1.988	(0.548)	585040	55.3190	55
18 METHYL ACETATE	43	2.092	2.092	(0.576)	332855	50.9820	51
20 METHYLENE CHLORIDE	84	2.177	2.183	(0.600)	216267	51.1765	51
21 TERT BUTYL ALCOHOL	59	2.238	2.232	(0.616)	26879	51.0276	51
22 METHYL T-BUTYL ETHER	73	2.305	2.305	(0.635)	1346636	101.895	100
23 trans-1 2-DICHLOROETHENE	96	2.323	2.323	(0.640)	195374	49.9760	50
27 1 1-DICHLOROETHANE	63	2.639	2.639	(0.727)	361407	47.4894	47
28 VINYL ACETATE	43	2.645	2.645	(0.729)	1087817	137.841	140
26 ISOPROPYL ETHER	45	2.609	2.609	(0.719)	787835	48.4782	48
32 2-BUTANONE	43	3.059	3.059	(0.842)	325312	106.777	110
30 2 2-DICHLOROPROPANE	77	3.017	3.017	(0.831)	271576	52.0811	52
31 cis-1 2-DICHLOROETHENE	96	3.041	3.041	(0.837)	218280	47.4988	47
35 TETRAHYDROFURAN	42	3.217	3.236	(0.886)	98223	22.2015	22
34 BROMOCHLOROMETHANE	49	3.211	3.211	(0.884)	248489	54.1551	54
37 CHLOROFORM	83	3.254	3.254	(0.896)	352251	49.0629	49
§ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	173423	48.8420	49
39 1 1 1-TRICHLOROETHANE	97	3.357	3.357	(0.857)	292398	56.7512	57
38 CYCLOHEXANE	56	3.345	3.345	(0.854)	458427	63.4535	63
41 CARBON TETRACHLORIDE	117	3.442	3.449	(0.879)	252065	61.1322	61
42 1 1-DICHLOROPROPENE	75	3.473	3.473	(0.887)	286163	48.5710	49
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	250294	50.0000	
44 BENZENE	78	3.619	3.619	(0.924)	901684	53.5773	54
46 1 2-DICHLOROETHANE	62	3.686	3.686	(0.941)	298866	56.1358	56
* 48 1,4-DIFLUOROBENZENE	114	3.917	3.917	(1.000)	611335	50.0000	
49 TRICHLOROETHENE	130	4.081	4.081	(1.042)	194347	51.0301	51
51 METHYL CYCLOHEXANE	83	4.166	4.166	(1.064)	447603	58.2705	58
52 1 2-DICHLOROPROPANE	63	4.282	4.282	(1.093)	247607	48.8948	49
55 DIBROMOMETHANE	93	4.373	4.379	(1.116)	136372	55.7446	56
54 1,4-DIOXANE	88	4.379	4.379	(1.206)	38476	508.554	510
56 BROMODICHLOROMETHANE	83	4.477	4.483	(1.143)	274419	57.0689	57
57 2-CHLOROETHYL VINYL ETHER	63	4.708	4.708	(1.202)	385855	116.034	120
58 cis-1,3-DICHLOROPROPENE	75	4.817	4.817	(1.230)	376330	50.2550	50
59 4-METHYL-2-PENTANONE (MIBK)	43	4.927	4.927	(1.258)	656669	121.919	120
§ 60 TOLUENE-d8	98	4.982	4.982	(1.272)	820416	53.5005	54
61 TOLUENE	92	5.030	5.030	(1.284)	584489	52.5272	53
62 trans-1,3-DICHLOROPROPENE	75	5.261	5.261	(1.343)	357646	51.5225	52
64 1 1 2-TRICHLOROETHANE	83	5.395	5.395	(1.377)	199195	56.2919	56
65 TETRACHLOROETHENE	164	5.426	5.426	(0.887)	177831	51.1609	51
66 1 3-DICHLOROPROPANE	76	5.535	5.535	(1.413)	386307	48.0279	48
67 2-HEXANONE	43	5.572	5.572	(0.911)	483565	111.127	110
68 DIBROMOCHLOROMETHANE	129	5.681	5.681	(0.928)	211072	54.7086	55
69 1 2-DIBROMOETHANE	107	5.779	5.779	(1.475)	224953	54.9747	55
* 71 CHLOROBENZENE-d5	82	6.119	6.119	(1.000)	380772	50.0000	
72 CHLOROBENZENE	112	6.137	6.137	(1.003)	645926	50.5802	51
73 ETHYL BENZENE	91	6.198	6.198	(1.013)	1220149	51.2716	51
74 1,1,1,2-TETRACHLOROETHANE	131	6.210	6.210	(1.015)	203053	51.6392	52

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
76 m,p-XYLENE	106		6.296	6.296	(1.029)	936621	102.547	100
77 o-XYLENE	106		6.618	6.618	(1.082)	445487	49.5660	50
78 STYRENE	104		6.642	6.642	(1.085)	770891	51.7059	52
79 BROMOFORM	173		6.813	6.813	(1.113)	145579	48.4021	48
80 ISOPROPYLBENZENE	105		6.904	6.904	(1.128)	1169308	56.0451	56
81 CYCLOHEXANONE	55		7.050	7.050	(1.152)	142182	630.492	630(A)
§ 82 4-BROMOFLUOROBENZENE	95		7.068	7.068	(1.155)	354331	51.5328	52
83 BROMOBENZENE	156		7.184	7.184	(1.174)	272832	50.8704	51
84 1 1 2 2-TETRACHLOROETHANE	83		7.220	7.220	(1.180)	334034	52.4206	52
86 1 2 3-TRICHLOROPROPANE	110		7.263	7.263	(1.187)	95629	46.3428	46
85 n-PROPYLBENZENE	120		7.239	7.239	(1.183)	340061	52.2953	52
88 2-CHLOROTOLUENE	126		7.336	7.336	(1.199)	283397	51.3344	51
89 1 3 5-TRIMETHYLBENZENE	105		7.391	7.391	(1.208)	1066786	51.7701	52
90 4-CHLOROTOLUENE	126		7.427	7.433	(1.214)	293051	52.2380	52
91 a-Methylstyrene TIC	118		7.585	7.585	(1.240)	560326	53.7354	54
92 tert-BUTYLBENZENE	119		7.646	7.646	(1.250)	902211	51.3359	51
94 1 2 4-TRIMETHYLBENZENE	105		7.701	7.701	(1.258)	1060104	51.2239	51
95 sec-BUTYLBENZENE	105		7.829	7.829	(1.279)	1385264	52.9597	53
97 1 3-DICHLOROBENZENE	146		7.956	7.956	(1.300)	578379	51.1744	51
96 p-ISOPROPYLTOLUENE	119		7.950	7.950	(1.299)	1114423	53.3807	53
98 1 4-DICHLOROBENZENE	146		8.036	8.036	(1.313)	568788	50.8140	51
99 n-BUTYLBENZENE	91		8.291	8.291	(1.355)	1078809	54.2361	54
100 1 2-DICHLOROBENZENE	146		8.346	8.346	(1.364)	536100	51.0773	51
101 1 2-DIBROMO-3-CHLOROPROPANE	157		9.021	9.021	(1.474)	59511	56.9746	57
102 1 2 4-TRICHLOROBENZENE	180		9.678	9.678	(1.582)	295548	53.1775	53
103 HEXACHLOROBUTADIENE	225		9.775	9.775	(1.597)	131348	51.4786	51
104 NAPHTHALENE	128		9.891	9.891	(1.616)	722637	58.4122	58
105 1 2 3-TRICHLOROBENZENE	180		10.098	10.098	(1.650)	258342	52.7750	53
M 106 1,2-DICHLOROETHENE (total)	96					413654	97.4748	97
M 107 1,3-DICHLOROPROPENE (total)	75					733976	101.777	100
M 108 XYLENE (total)	106					1382108	152.113	150

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Q - Qualifier signal failed the ratio test.

Data File: pel806q.d

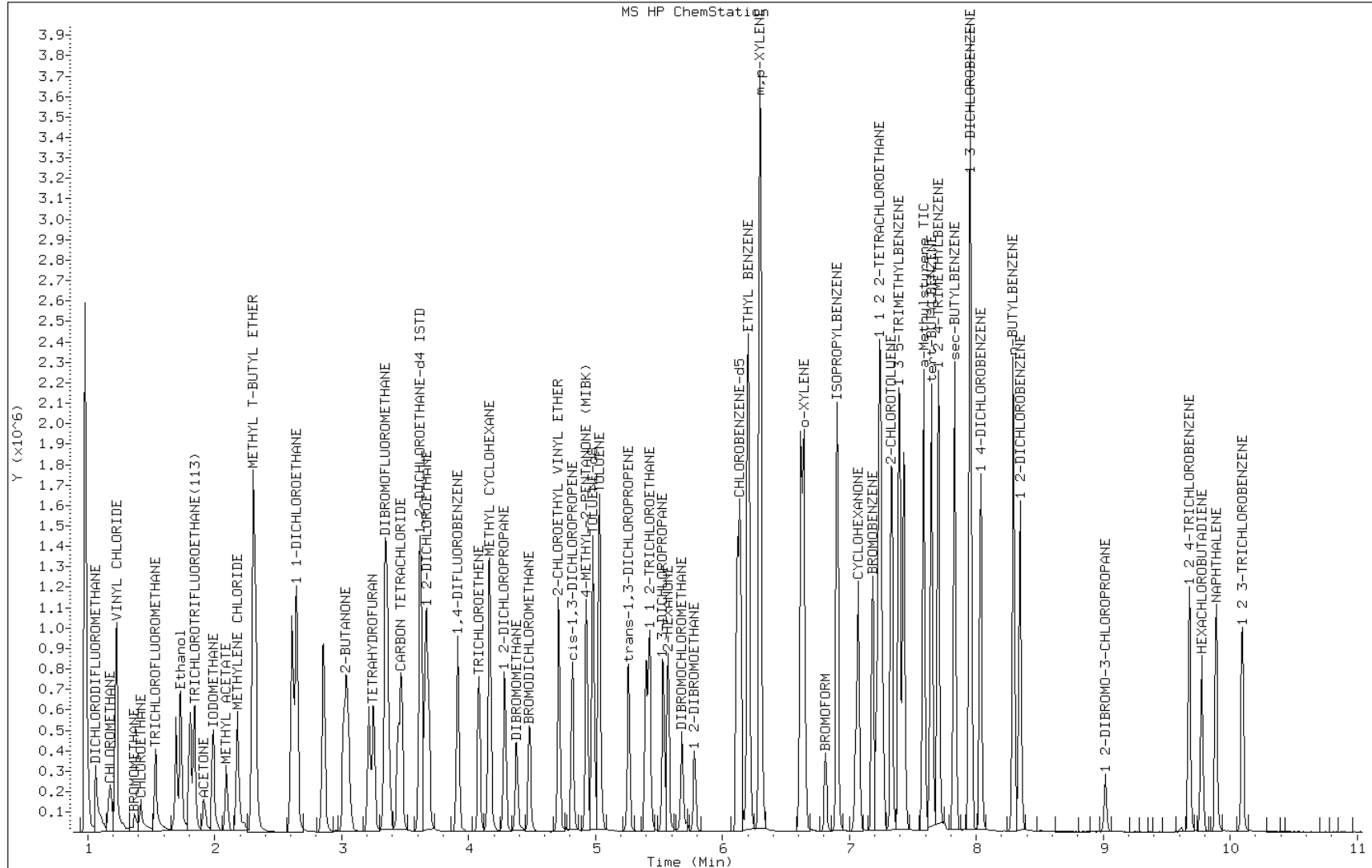
Date: 18-MAY-2013 12:19

Client ID: lp051813MBLCS

Sample Info: LCS=[1P051813]

Instrument: MSP5973.i

Operator: ajmc



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-277181/5
 Matrix: Water Lab File ID: pe1808q.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 12:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	55.8		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	51.8		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50.1		1.0	0.50
79-00-5	1,1,2-Trichloroethane	56.3		1.0	0.13
75-34-3	1,1-Dichloroethane	48.5		1.0	0.25
75-35-4	1,1-Dichloroethene	51.2		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	52.2		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	57.0		1.0	0.44
106-93-4	1,2-Dibromoethane	54.3		1.0	0.25
95-50-1	1,2-Dichlorobenzene	50.3		1.0	0.21
107-06-2	1,2-Dichloroethane	54.8		1.0	0.10
78-87-5	1,2-Dichloropropane	48.0		1.0	0.13
541-73-1	1,3-Dichlorobenzene	50.4		1.0	0.25
106-46-7	1,4-Dichlorobenzene	50.1		1.0	0.28
78-93-3	2-Butanone	110		10	1.0
591-78-6	2-Hexanone	110		10	1.0
108-10-1	4-Methyl-2-pentanone	121		10	1.0
67-64-1	Acetone	100		25	5.0
71-43-2	Benzene	53.3		1.0	0.25
75-27-4	Bromodichloromethane	56.6		1.0	0.25
75-25-2	Bromoform	47.9		1.0	0.50
74-83-9	Bromomethane	30.3		5.0	2.0
75-15-0	Carbon disulfide	56.1		2.0	0.60
56-23-5	Carbon tetrachloride	59.8		1.0	0.50
108-90-7	Chlorobenzene	50.7		1.0	0.25
75-00-3	Chloroethane	43.0		5.0	2.0
67-66-3	Chloroform	50.6		1.0	0.14
74-87-3	Chloromethane	47.6		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	48.5		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	49.7		1.0	0.11
110-82-7	Cyclohexane	61.4		1.0	0.25
124-48-1	Dibromochloromethane	54.6		1.0	0.10
75-71-8	Dichlorodifluoromethane	57.2		1.0	0.25
100-41-4	Ethylbenzene	50.6		1.0	0.11
98-82-8	Isopropylbenzene	55.6		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-277181/5
 Matrix: Water Lab File ID: pe1808q.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/18/2013 12:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277181 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	52.2		1.0	0.19
1634-04-4	Methyl tert-butyl ether	105		10	0.20
108-87-2	Methylcyclohexane	57.1		1.0	0.10
75-09-2	Methylene Chloride	51.9		5.0	1.0
100-42-5	Styrene	51.8		1.0	0.11
127-18-4	Tetrachloroethene	50.3		1.0	0.15
108-88-3	Toluene	52.4		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	50.0		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	51.8		1.0	0.21
79-01-6	Trichloroethene	50.9		1.0	0.13
75-69-4	Trichlorofluoromethane	50.4		1.0	0.25
75-01-4	Vinyl chloride	46.0		1.0	0.18
1330-20-7	Xylenes, Total	151		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	103		70-130
1868-53-7	Dibromofluoromethane	101		70-130
2037-26-5	Toluene-d8 (Surr)	108		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSP5973.i/lp051813.b/pe1808q.d
 Lab Smp Id: LCSD Client Smp ID: lp051813MBLCSD
 Inj Date : 18-MAY-2013 12:49
 Operator : ajmc Inst ID: MSP5973.i
 Smp Info : LCSD=[1P051813]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSP5973.i/lp051813.b/P-18260B-m.m
 Meth Date : 18-May-2013 12:08 mcnamara Quant Type: ISTD
 Cal Date : 15-APR-2013 13:20 Cal File: pd1514q.d
 Als bottle: 4 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.058	1.064	(0.291)	265911	57.2142	57
2 CHLOROMETHANE	50	1.167	1.173	(0.321)	270980	47.6448	48
3 VINYL CHLORIDE	62	1.210	1.216	(0.333)	268170	45.9555	46
4 BUTADIENE	54	1.222	1.228	(0.336)	233594	47.7034	48
5 BROMOMETHANE	96	1.362	1.374	(0.375)	31083	30.3318	30
6 CHLOROETHANE	64	1.410	1.423	(0.388)	81500	42.9809	43
7 TRICHLOROFLUOROMETHANE	101	1.532	1.538	(0.422)	266882	50.4298	50
8 Ethanol	46	1.684	1.678	(0.464)	45980	1557.93	1600(Q)
9 DIETHYL ETHER	59	1.690	1.696	(0.466)	203838	50.1825	50
10 FURAN	68	1.727	1.733	(0.476)	344823	44.2210	44
11 TRICHLOROTRIFLUOROETHANE(113)	101	1.800	1.806	(0.496)	188846	50.1014	50
13 1 1-DICHLOROETHENE	96	1.836	1.842	(0.506)	177259	51.2085	51
14 ACETONE	58	1.909	1.915	(0.526)	59689	100.118	100

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
16 CARBON DISULFIDE	76	1.982	1.988	(0.546)	594871	56.0582	56
18 METHYL ACETATE	43	2.086	2.092	(0.574)	342090	52.2192	52
20 METHYLENE CHLORIDE	84	2.177	2.183	(0.600)	220103	51.9080	52
21 TERT BUTYL ALCOHOL	59	2.232	2.232	(0.615)	29661	56.1184	56
22 METHYL T-BUTYL ETHER	73	2.299	2.305	(0.633)	1392963	105.044	110
23 trans-1 2-DICHLOROETHENE	96	2.323	2.323	(0.640)	196276	50.0368	50
27 1 1-DICHLOROETHANE	63	2.633	2.639	(0.725)	370620	48.5351	49
28 VINYL ACETATE	43	2.645	2.645	(0.729)	1081662	136.597	140
26 ISOPROPYL ETHER	45	2.609	2.609	(0.719)	816065	50.0453	50(H)
32 2-BUTANONE	43	3.059	3.059	(0.842)	335631	109.791	110
30 2 2-DICHLOROPROPANE	77	3.017	3.017	(0.831)	271113	51.8163	52
31 cis-1 2-DICHLOROETHENE	96	3.035	3.041	(0.836)	223432	48.4553	48
35 TETRAHYDROFURAN	42	3.217	3.236	(0.886)	101578	22.8821	23
34 BROMOCHLOROMETHANE	49	3.211	3.211	(0.884)	252362	54.8130	55
37 CHLOROFORM	83	3.248	3.254	(0.894)	364567	50.6065	51
§ 40 DIBROMOFLUOROMETHANE	113	3.369	3.369	(0.928)	180429	50.6431	51
39 1 1 1-TRICHLOROETHANE	97	3.357	3.357	(0.858)	298938	55.7538	56
38 CYCLOHEXANE	56	3.339	3.345	(0.854)	461286	61.3548	61
41 CARBON TETRACHLORIDE	117	3.442	3.449	(0.880)	256481	59.7731	60
42 1 1-DICHLOROPROPENE	75	3.467	3.473	(0.886)	295344	48.1709	48
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.631	3.631	(1.000)	251144	50.0000	
44 BENZENE	78	3.613	3.619	(0.924)	932874	53.2650	53
46 1 2-DICHLOROETHANE	62	3.686	3.686	(0.942)	303563	54.7905	55
* 48 1,4-DIFLUOROBENZENE	114	3.911	3.917	(1.000)	636189	50.0000	
49 TRICHLOROETHENE	130	4.081	4.081	(1.044)	201661	50.8820	51
51 METHYL CYCLOHEXANE	83	4.160	4.166	(1.064)	456356	57.0891	57
52 1 2-DICHLOROPROPANE	63	4.282	4.282	(1.095)	253067	48.0207	48
55 DIBROMOMETHANE	93	4.373	4.379	(1.118)	141702	55.6605	56
54 1,4-DIOXANE	88	4.379	4.379	(1.206)	41742	549.855	550
56 BROMODICHLOROMETHANE	83	4.477	4.483	(1.145)	283128	56.5797	57
57 2-CHLOROETHYL VINYL ETHER	63	4.708	4.708	(1.204)	394933	114.124	110
58 cis-1,3-DICHLOROPROPENE	75	4.817	4.817	(1.232)	387363	49.7075	50
59 4-METHYL-2-PENTANONE (MIBK)	43	4.927	4.927	(1.260)	680115	121.339	120
§ 60 TOLUENE-d8	98	4.981	4.982	(1.274)	860544	53.9250	54
61 TOLUENE	92	5.030	5.030	(1.286)	606948	52.4146	52
62 trans-1,3-DICHLOROPROPENE	75	5.261	5.261	(1.345)	373897	51.7593	52
64 1 1 2-TRICHLOROETHANE	83	5.395	5.395	(1.380)	207365	56.3114	56
65 TETRACHLOROETHENE	164	5.426	5.426	(0.887)	181900	50.2856	50
66 1 3-DICHLOROPROPANE	76	5.529	5.535	(1.414)	395976	47.3067	47
67 2-HEXANONE	43	5.572	5.572	(0.911)	498738	110.133	110
68 DIBROMOCHLOROMETHANE	129	5.681	5.681	(0.928)	219048	54.5562	55
69 1 2-DIBROMOETHANE	107	5.778	5.779	(1.478)	231433	54.3488	54
* 71 CHLOROBENZENE-d5	82	6.119	6.119	(1.000)	396264	50.0000	
72 CHLOROBENZENE	112	6.143	6.137	(1.004)	673179	50.6534	51
73 ETHYL BENZENE	91	6.198	6.198	(1.013)	1252994	50.5934	51
74 1,1,1,2-TETRACHLOROETHANE	131	6.210	6.210	(1.015)	209049	51.0856	51
76 m,p-XYLENE	106	6.296	6.296	(1.029)	969510	101.998	100

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
77 o-XYLENE	106		6.618	6.618	(1.082)	460686	49.2532	49
78 STYRENE	104		6.642	6.642	(1.085)	803354	51.7767	52
79 BROMOFORM	173		6.813	6.813	(1.113)	150056	47.9401	48
80 ISOPROPYLBENZENE	105		6.904	6.904	(1.128)	1206976	55.5889	56
81 CYCLOHEXANONE	55		7.050	7.050	(1.152)	150490	641.243	640(A)
§ 82 4-BROMOFLUOROBENZENE	95		7.068	7.068	(1.155)	366961	51.2832	51
83 BROMOBENZENE	156		7.184	7.184	(1.174)	283587	50.8085	51
84 1 1 2 2-TETRACHLOROETHANE	83		7.220	7.220	(1.180)	343355	51.7768	52
86 1 2 3-TRICHLOROPROPANE	110		7.263	7.263	(1.187)	99178	46.1836	46
85 n-PROPYLBENZENE	120		7.239	7.239	(1.183)	354404	52.3703	52
88 2-CHLOROTOLUENE	126		7.336	7.336	(1.199)	293831	51.1436	51
89 1 3 5-TRIMETHYLBENZENE	105		7.397	7.391	(1.209)	1079436	50.3360	50
90 4-CHLOROTOLUENE	126		7.433	7.433	(1.215)	302141	51.7528	52
91 a-Methylstyrene TIC	118		7.585	7.585	(1.240)	582089	53.6401	54
92 tert-BUTYLBENZENE	119		7.646	7.646	(1.250)	922902	50.4602	50
94 1 2 4-TRIMETHYLBENZENE	105		7.701	7.701	(1.258)	1089156	50.5702	51
95 sec-BUTYLBENZENE	105		7.829	7.829	(1.279)	1417557	52.0756	52
97 1 3-DICHLOROBENZENE	146		7.956	7.956	(1.300)	593311	50.4432	50
96 p-ISOPROPYLTOLUENE	119		7.950	7.950	(1.299)	1146583	52.7740	53
98 1 4-DICHLOROBENZENE	146		8.035	8.036	(1.313)	583804	50.1164	50
99 n-BUTYLBENZENE	91		8.291	8.291	(1.355)	1086173	52.4715	52
100 1 2-DICHLOROBENZENE	146		8.346	8.346	(1.364)	549692	50.3248	50
101 1 2-DIBROMO-3-CHLOROPROPANE	157		9.021	9.021	(1.474)	61986	57.0241	57
102 1 2 4-TRICHLOROBENZENE	180		9.678	9.678	(1.582)	301772	52.1746	52
103 HEXACHLOROBUTADIENE	225		9.775	9.775	(1.597)	135485	51.0241	51
104 NAPHTHALENE	128		9.891	9.891	(1.616)	712346	55.3293	55
105 1 2 3-TRICHLOROBENZENE	180		10.098	10.098	(1.650)	264824	51.9842	52
M 106 1,2-DICHLOROETHENE (total)	96					419708	98.4921	98
M 107 1,3-DICHLOROPROPENE (total)	75					761260	101.467	100
M 108 XYLENE (total)	106					1430196	151.251	150

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Q - Qualifier signal failed the ratio test.

H - Operator selected an alternate compound hit.

Data File: pel808q.d

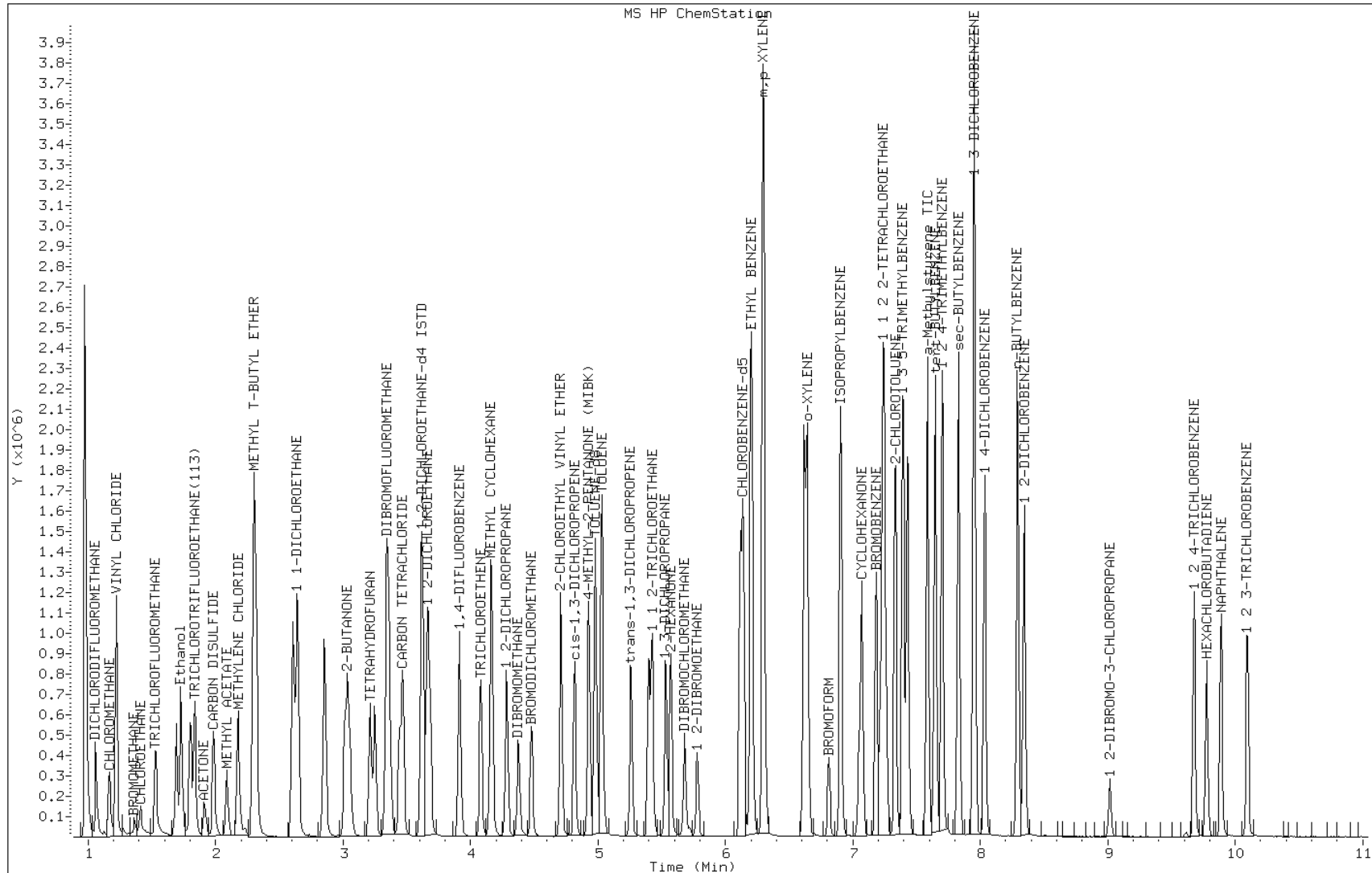
Date: 18-MAY-2013 12:49

Client ID: lp051813MBLCSD

Instrument: MSP5973.i

Sample Info: LCSD=[1P051813]

Operator: ajmc



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Instrument ID: MSP Start Date: 05/08/2013 23:12Analysis Batch Number: 276064 End Date: 05/09/2013 04:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 680-276064/1		05/08/2013 23:12	1	pe0801t.d	DB-624 0.18 (mm)
IC 680-276064/2		05/08/2013 23:56	1	pe0804q.d	DB-624 0.18 (mm)
IC 680-276064/3		05/09/2013 00:25	1	pe0806q.d	DB-624 0.18 (mm)
IC 680-276064/4		05/09/2013 00:55	1	pe0808q.d	DB-624 0.18 (mm)
IC 680-276064/5		05/09/2013 01:25	1	pe0810q.d	DB-624 0.18 (mm)
IC 680-276064/6		05/09/2013 01:55	1	pe0812q.d	DB-624 0.18 (mm)
ICIS 680-276064/7		05/09/2013 02:25	1	pe0814q.d	DB-624 0.18 (mm)
IC 680-276064/8		05/09/2013 02:55	1	pe0816q.d	DB-624 0.18 (mm)
IC 680-276064/9		05/09/2013 03:25	1	pe0818q.d	DB-624 0.18 (mm)
ICV 680-276064/10		05/09/2013 04:25	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Instrument ID: MSP Start Date: 05/18/2013 11:03

Analysis Batch Number: 277181 End Date: 05/18/2013 22:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 680-277181/1		05/18/2013 11:03	1	pe1801t.d	DB-624 0.18 (mm)
CCV 680-277181/2		05/18/2013 11:19	1		DB-624 0.18 (mm)
CCVIS 680-277181/3		05/18/2013 11:49	1	pe1804q.d	DB-624 0.18 (mm)
LCS 680-277181/4		05/18/2013 12:19	1	pe1806q.d	DB-624 0.18 (mm)
LCSD 680-277181/5		05/18/2013 12:49	1	pe1808q.d	DB-624 0.18 (mm)
ZZZZZ		05/18/2013 13:20	1		DB-624 0.18 (mm)
MB 680-277181/7		05/18/2013 14:51	1	pe1816q.d	DB-624 0.18 (mm)
ZZZZZ		05/18/2013 15:21	1		DB-624 0.18 (mm)
ZZZZZ		05/18/2013 15:52	1		DB-624 0.18 (mm)
ZZZZZ		05/18/2013 16:22	1		DB-624 0.18 (mm)
ZZZZZ		05/18/2013 16:52	1		DB-624 0.18 (mm)
ZZZZZ		05/18/2013 17:23	1		DB-624 0.18 (mm)
ZZZZZ		05/18/2013 17:53	1		DB-624 0.18 (mm)
680-90076-6	25LM00023 (Trip Blank Lot 112012)	05/18/2013 18:23	1	pe1830.d	DB-624 0.18 (mm)
680-90076-1	25LM20107	05/18/2013 18:53	1	pe1832.d	DB-624 0.18 (mm)
680-90076-2	25LM20105	05/18/2013 19:23	1	pe1834.d	DB-624 0.18 (mm)
680-90076-3	25LM20100	05/18/2013 19:54	1	pe1836.d	DB-624 0.18 (mm)
680-90076-4	25LM20103	05/18/2013 20:24	1	pe1838.d	DB-624 0.18 (mm)
680-90076-5	25LM20104	05/18/2013 20:54	1	pe1840.d	DB-624 0.18 (mm)
ZZZZZ		05/18/2013 21:24	50		DB-624 0.18 (mm)
ZZZZZ		05/18/2013 21:54	1		DB-624 0.18 (mm)
ZZZZZ		05/18/2013 22:24	1		DB-624 0.18 (mm)
ZZZZZ		05/18/2013 22:54	5		DB-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 Burlington Job No.: 680-90076-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: MECAR003.D

Lab ID: LCS 200-55785/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methane	72.4	69.7	96	70-130	
Ethane	137	130	95	70-130	
Ethylene	128	123	96	70-130	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Lab Sample ID: MB 200-55785/26
 Matrix: Water Date Extracted: _____
 Lab File ID:(1) MECAR004.D Lab File ID:(2) _____
 Date Analyzed:(1) 05/21/2013 12:33 Date Analyzed:(2) _____
 Instrument ID:(1) CH2866.i Instrument ID:(2) _____
 GC Column:(1) RT-U-Plot ID: 0.53(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 200-55785/3	05/21/2013 12:22	
25LM20107	680-90076-1	05/21/2013 13:44	
25LM20105	680-90076-2	05/21/2013 13:49	
25LM20100	680-90076-3	05/21/2013 13:54	
25LM20103	680-90076-4	05/21/2013 14:00	
25LM20104	680-90076-5	05/21/2013 14:05	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20107 Lab Sample ID: 680-90076-1
 Matrix: Water Lab File ID: MECAR010.D
 Analysis Method: RSK-175 Date Collected: 05/07/2013 14:05
 Sample wt/vol: 18(mL) Date Analyzed: 05/21/2013 13:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55785 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		2.0	0.45
74-84-0	Ethane	ND		4.0	0.81
74-85-1	Ethylene	ND		3.0	0.73

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.bMECAR010.D
 Lims ID: 680-90076-D-1 Client ID: 25LM20107
 Inject. Date: 21-May-2013 13:44:41 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 200-0003579-009
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 9
 Lims Batch ID: 55785 Lims Sample ID: 9
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\RSK-175.m
 Last Update: 23-May-2013 11:04:21 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
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1 Methane
 0.566 0.569 -0.003 6181 0.1905

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\MECAR010.D

Injection Date: 21-May-2013 13:44:41 Limit Group: VG_RSK175_Limits

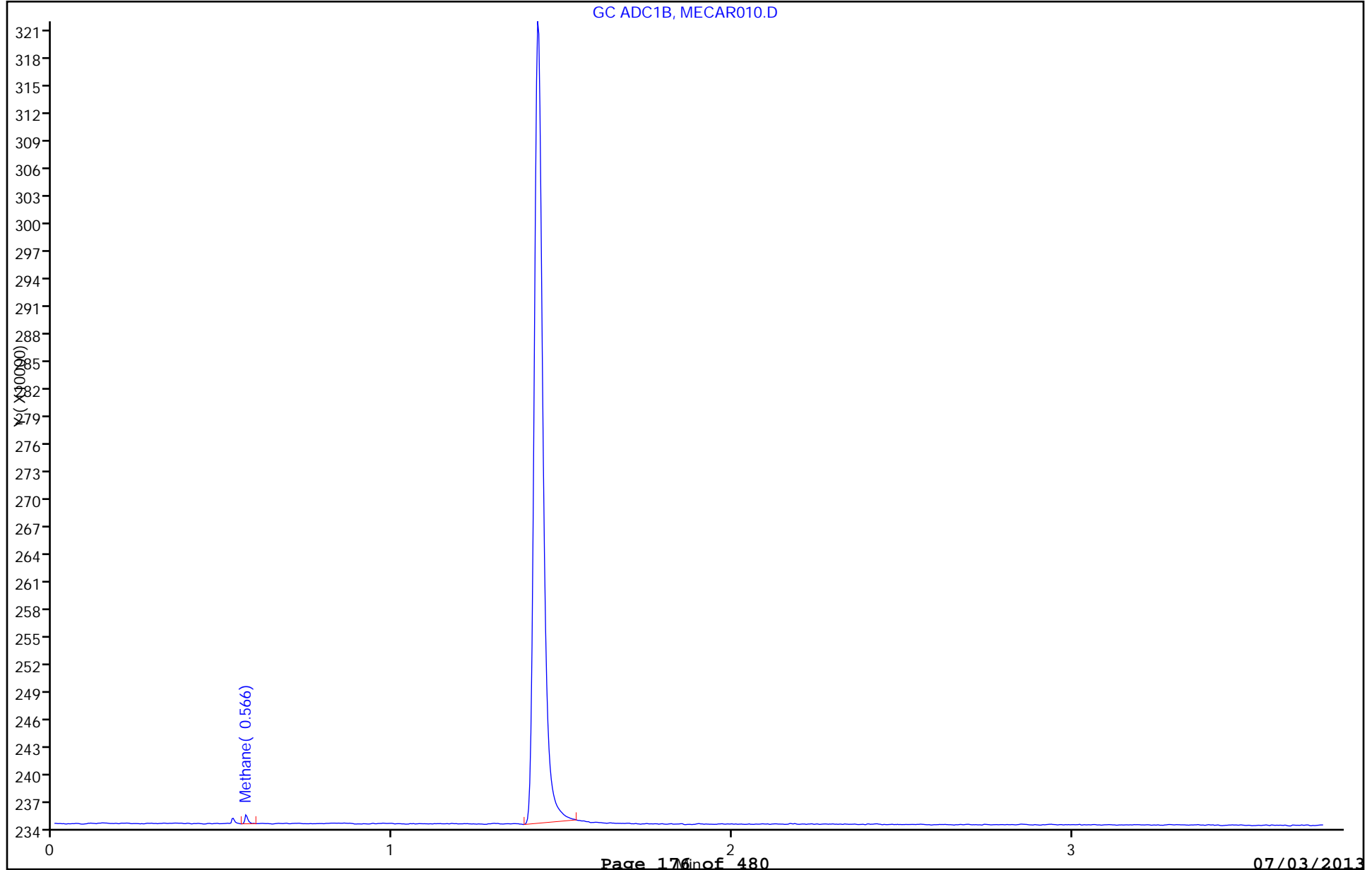
Client ID: 25LM20107 Instrument ID: CH2866.i

Lims Batch ID: 55785 Lims Sample ID: 9

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20105 Lab Sample ID: 680-90076-2
 Matrix: Water Lab File ID: MECAR011.D
 Analysis Method: RSK-175 Date Collected: 05/07/2013 13:26
 Sample wt/vol: 18(mL) Date Analyzed: 05/21/2013 13:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55785 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		2.0	0.45
74-84-0	Ethane	ND		4.0	0.81
74-85-1	Ethylene	ND		3.0	0.73

TestAmerica Burlington
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.bMECAR011.D
 Lims ID: 680-90076-B-2 Client ID: 25LM20105
 Inject. Date: 21-May-2013 13:49:25 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 200-0003579-010
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 10
 Lims Batch ID: 55785 Lims Sample ID: 10
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\RSK-175.m
 Last Update: 23-May-2013 11:04:21 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
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TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\MECAR011.D

Injection Date: 21-May-2013 13:49:25 Limit Group: VG_RSK175_Limits

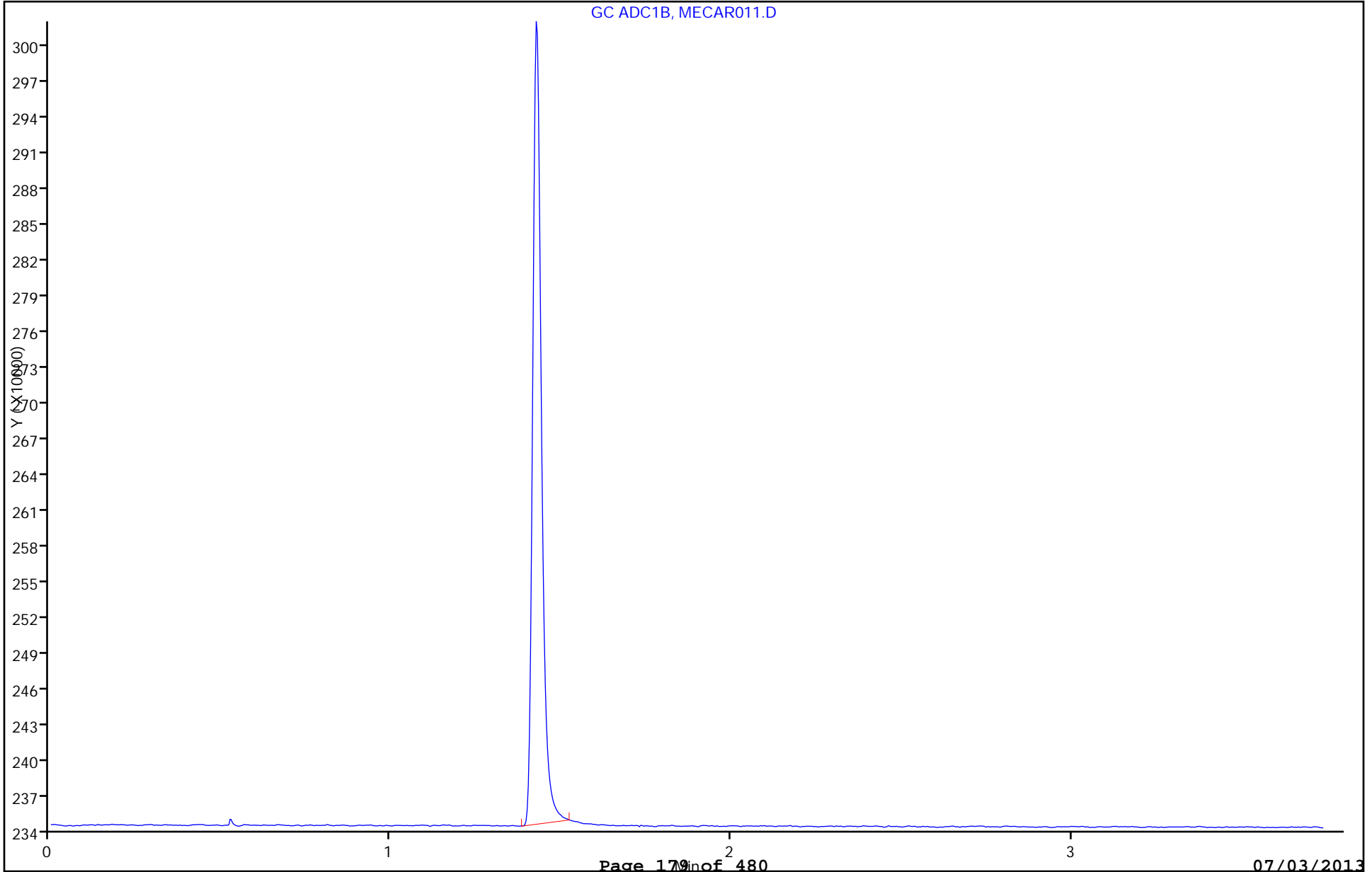
Client ID: 25LM20105 Instrument ID: CH2866.i

Lims Batch ID: 55785 Lims Sample ID: 10

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20100 Lab Sample ID: 680-90076-3
 Matrix: Water Lab File ID: MECAR012.D
 Analysis Method: RSK-175 Date Collected: 05/07/2013 12:20
 Sample wt/vol: 18(mL) Date Analyzed: 05/21/2013 13:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55785 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		2.0	0.45
74-84-0	Ethane	ND		4.0	0.81
74-85-1	Ethylene	ND		3.0	0.73

TestAmerica Burlington
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.bMECAR012.D
 Lims ID: 680-90076-D-3 Client ID: 25LM20100
 Inject. Date: 21-May-2013 13:54:15 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 200-0003579-011
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 11
 Lims Batch ID: 55785 Lims Sample ID: 11
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\RSK-175.m
 Last Update: 23-May-2013 11:04:21 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
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TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\MECAR012.D

Injection Date: 21-May-2013 13:54:15 Limit Group: VG_RSK175_Limits

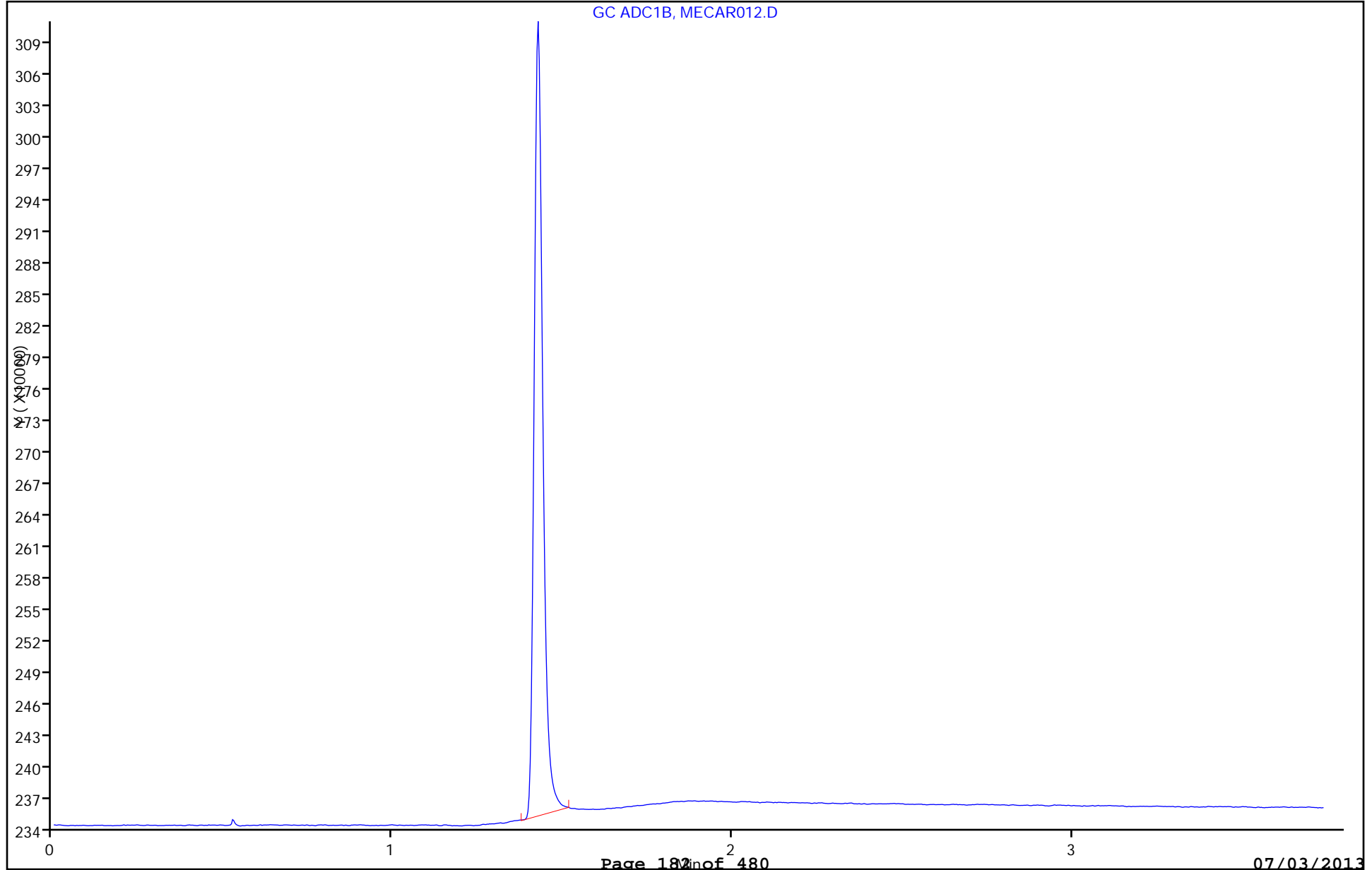
Client ID: 25LM20100 Instrument ID: CH2866.i

Lims Batch ID: 55785 Lims Sample ID: 11

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20103 Lab Sample ID: 680-90076-4
 Matrix: Water Lab File ID: MECAR013.D
 Analysis Method: RSK-175 Date Collected: 05/07/2013 15:36
 Sample wt/vol: 18(mL) Date Analyzed: 05/21/2013 14:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55785 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	1.1	J	2.0	0.45
74-84-0	Ethane	ND		4.0	0.81
74-85-1	Ethylene	ND		3.0	0.73

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.bMECAR013.D
 Lims ID: 680-90076-D-4 Client ID: 25LM20103
 Inject. Date: 21-May-2013 14:00:11 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 200-0003579-012
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 12
 Lims Batch ID: 55785 Lims Sample ID: 12
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\RSK-175.m
 Last Update: 23-May-2013 11:04:21 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

First Level Reviewer: sheldont Date: 23-May-2013 11:02:28

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Methane					M
0.566	0.569	-0.003	34420	1.06	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\MECAR013.D

Injection Date: 21-May-2013 14:00:11 Limit Group: VG_RSK175_Limits

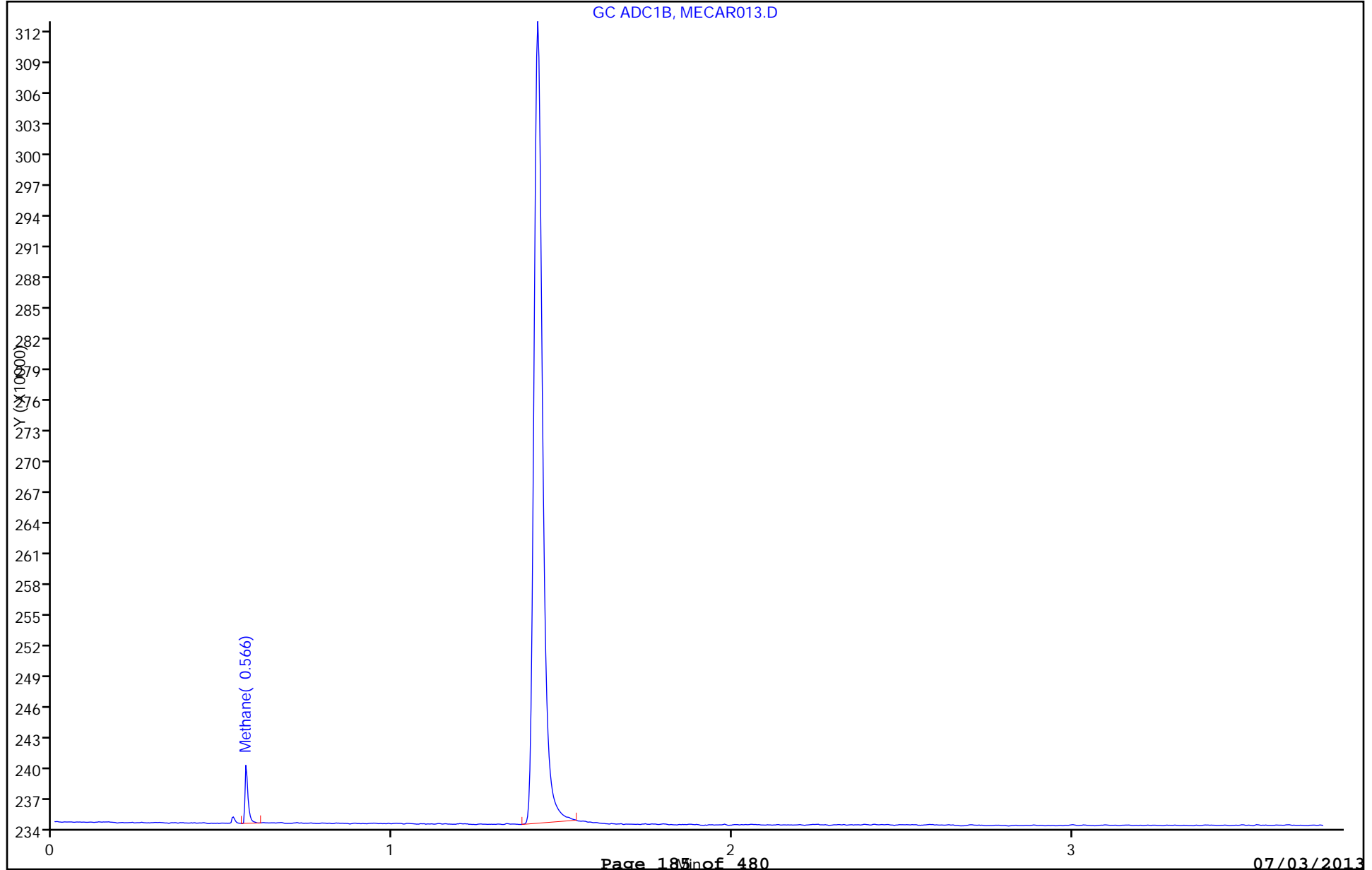
Client ID: 25LM20103 Instrument ID: CH2866.i

Lims Batch ID: 55785 Lims Sample ID: 12

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:



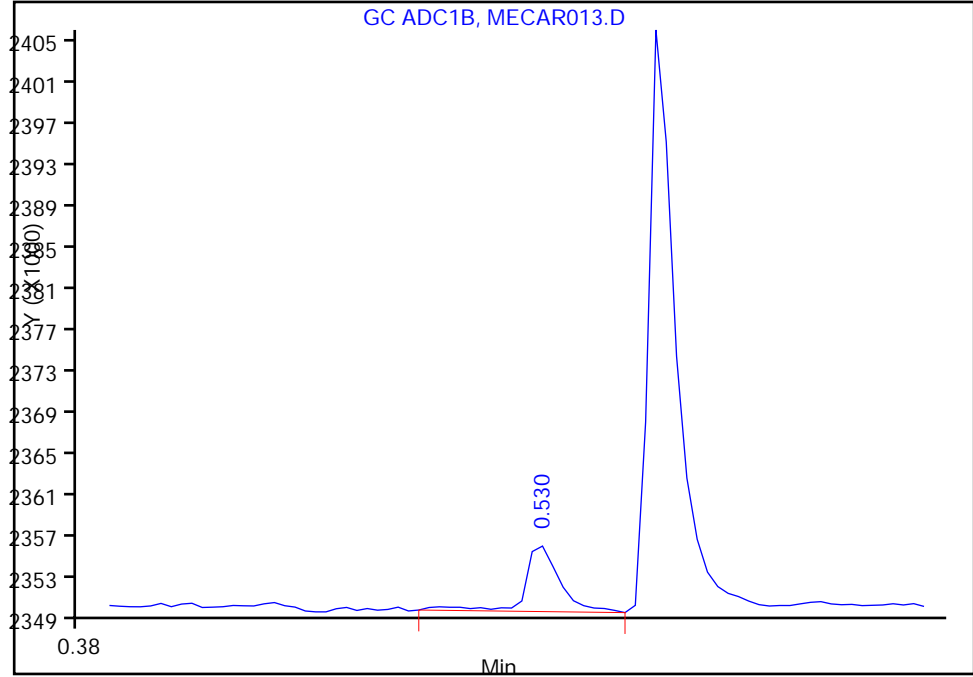
TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.bMECAR013.D
Injection Date: 21-May-2013 14:00:11 Limit Group: VG_RSK175_Limits
Client ID: 25LM20103 Instrument ID: CH2866.i
Lims Batch ID: 55785 Lims Sample ID: 12
Operator ID: NEA Purge Vol: 400.000 uL
Column Type: Column Dia:

1 Methane, Signal: 1, Type: quant, RT: 0.57

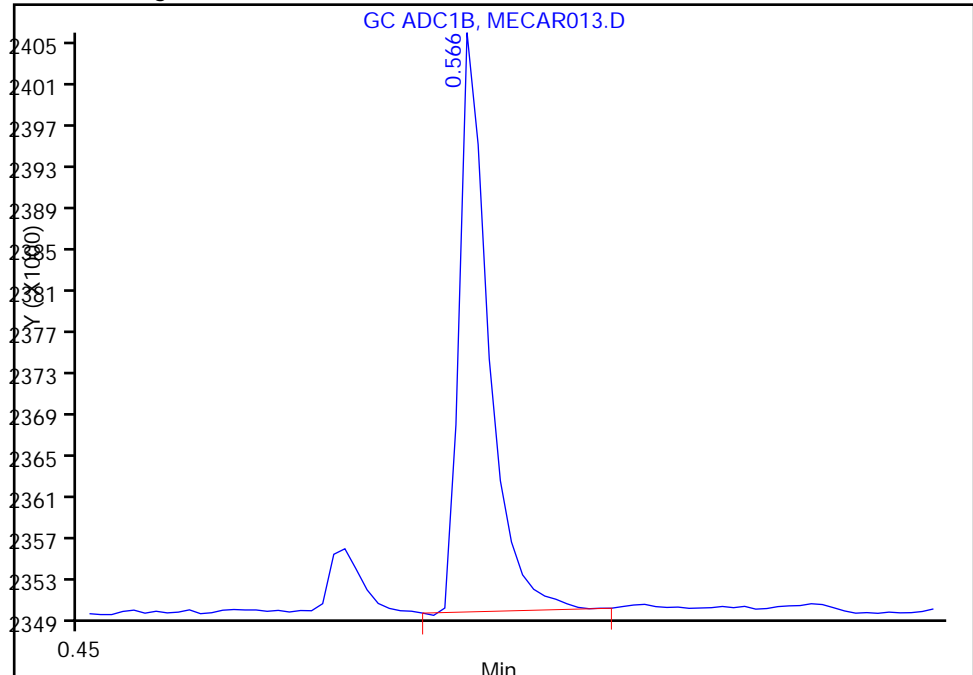
RT: 0.53
Response: 5029
Amount: 0.154971

Processing Integration Results



RT: 0.57
Response: 34420
Amount: 1.060668

Manual Integration Results



Reviewer: sheldont, 23-May-2013 11:02:28
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Baseline Event

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: 25LM20104 Lab Sample ID: 680-90076-5
 Matrix: Water Lab File ID: MECAR014.D
 Analysis Method: RSK-175 Date Collected: 05/07/2013 16:10
 Sample wt/vol: 18(mL) Date Analyzed: 05/21/2013 14:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55785 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		2.0	0.45
74-84-0	Ethane	ND		4.0	0.81
74-85-1	Ethylene	ND		3.0	0.73

TestAmerica Burlington
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.bMECAR014.D
 Lims ID: 680-90076-D-5 Client ID: 25LM20104
 Inject. Date: 21-May-2013 14:05:05 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 200-0003579-013
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 13
 Lims Batch ID: 55785 Lims Sample ID: 13
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\RSK-175.m
 Last Update: 23-May-2013 11:04:21 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
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TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\MECAR014.D

Injection Date: 21-May-2013 14:05:05 Limit Group: VG_RSK175_Limits

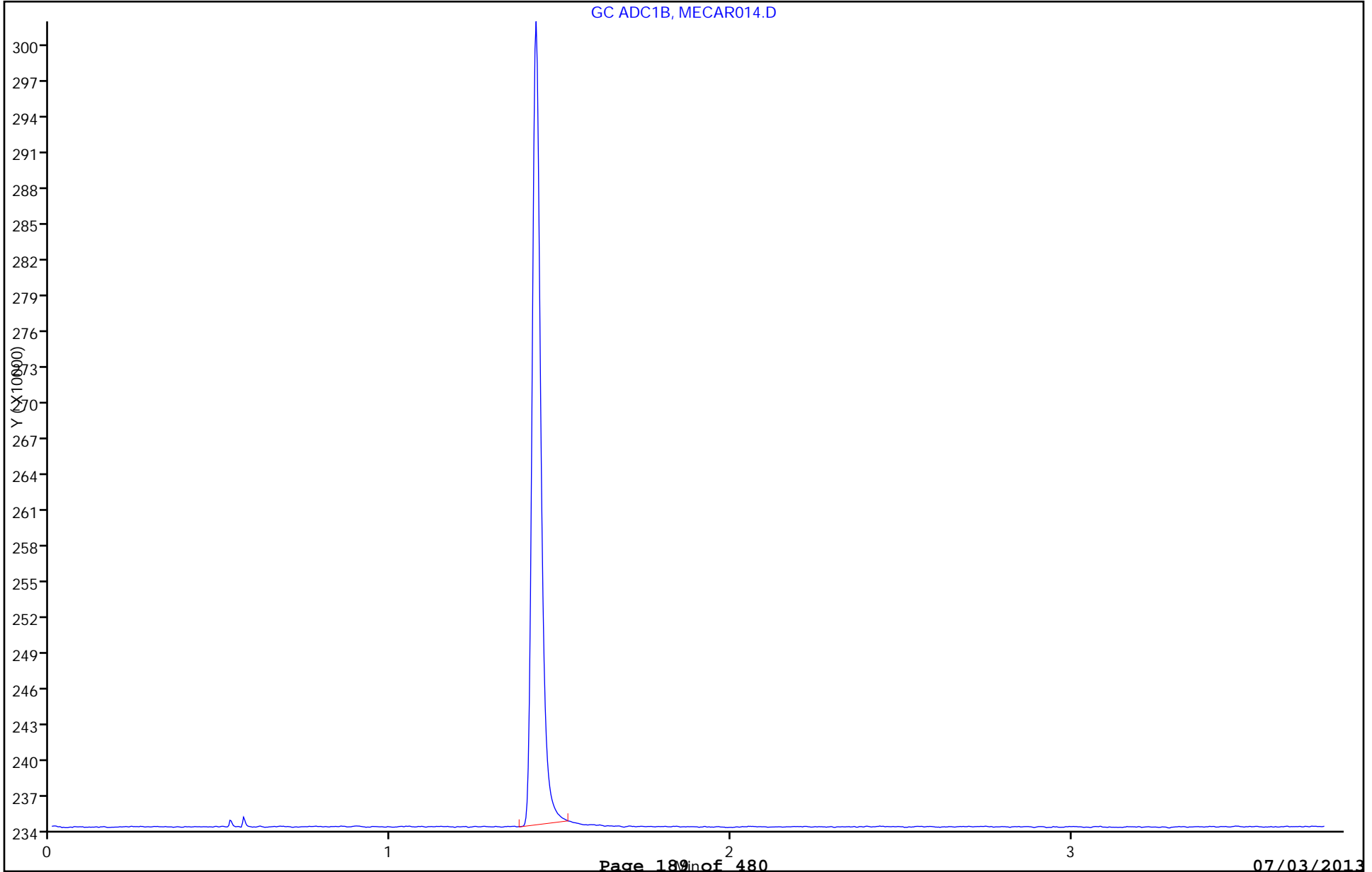
Client ID: 25LM20104 Instrument ID: CH2866.i

Lims Batch ID: 55785 Lims Sample ID: 13

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:



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

Lab Name: TestAmerica Burlington Job No.: 680-90076-1 Analy Batch No.: 53930

SDG No.: _____

Instrument ID: CH2866.i GC Column: RT-U-Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 15:57 Calibration End Date: 04/03/2013 16:17 Calibration ID: 21055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-53930/1	MECAA01.D
Level 2	IC 200-53930/2	MECAA02.D
Level 3	ICRT 200-53930/3	MECAA03.D
Level 4	IC 200-53930/4	MECAA04.D
Level 5	IC 200-53930/5	MECAA05.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Methane	0.549	0.547	0.548	0.549	0.548						0.298 - 0.798	0.548
Ethylene	0.912	0.914	0.912	0.912	0.911						0.662 - 1.162	0.912
Ethane	1.049	1.050	1.052	1.049	1.048						0.802 - 1.302	1.050

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 680-90076-1 Analy Batch No.: 53930

SDG No.: _____

Instrument ID: CH2866.i GC Column: RT-U-Plot ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 15:57 Calibration End Date: 04/03/2013 16:17 Calibration ID: 21055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-53930/1	MECAA01.D
Level 2	IC 200-53930/2	MECAA02.D
Level 3	ICRT 200-53930/3	MECAA03.D
Level 4	IC 200-53930/4	MECAA04.D
Level 5	IC 200-53930/5	MECAA05.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 3	LVL 4		B	M1	M2								
Methane	32630 32050	34876	34391	28310	Ave		32451.2487			8.0		30.0				
Ethylene	34283 33162	37816	36027	28986	Ave		34054.9530			9.8		30.0				
Ethane	33444 33228	36929	35973	29133	Ave		33741.2978			9.0		30.0				

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 Burlington Job No.: 680-90076-1 Analy Batch No.: 53930

SDG No.: _____

Instrument ID: CH2866.i GC Column: RT-U-Plot ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 15:57 Calibration End Date: 04/03/2013 16:17 Calibration ID: 21055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-53930/1	MECAA01.D
Level 2	IC 200-53930/2	MECAA02.D
Level 3	ICRT 200-53930/3	MECAA03.D
Level 4	IC 200-53930/4	MECAA04.D
Level 5	IC 200-53930/5	MECAA05.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
Methane	Ave	55520	631291	2490094	6149311	11602909	1.70	18.1	72.4	217	362
Ethylene	Ave	103332	1212556	4620797	11153071	21266794	3.01	32.1	128	385	641
Ethane	Ave	107419	1261828	4916636	11945133	22706958	3.21	34.2	137	410	683

Curve Type Legend:

Ave = Average

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA01.D
 Lims ID: IC Client ID:
 Inject. Date: 03-Apr-2013 15:57:14 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 1
 Sample ID: IC
 Misc. Info.:
 Operator: PAD Instrument ID: CH2866.i
 Purge Vol: 18.000 mL ALS Bottle#: 1
 Lims Batch ID: 53930 Lims Sample ID: 1
 Sublist: chrom-RSK-175*sub1
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\RSK-175.m
 Last Update: 12-Apr-2013 16:03:53 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK002

First Level Reviewer: chirgwinb Date: 05-Apr-2013 14:25:39

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.549	0.548	0.001	55520	1.71	
2 Ethylene					
0.912	0.912	0.000	103332	3.03	
3 Ethane					
1.049	1.052	-0.004	107419	3.18	

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA01.D

Injection Date: 03-Apr-2013 15:57:14

Limit Group: VG_RSK175_Limits

Client ID:

Instrument ID: CH2866.i

Lims Batch ID: 53930

Lims Sample ID: 1

Operator ID: PAD

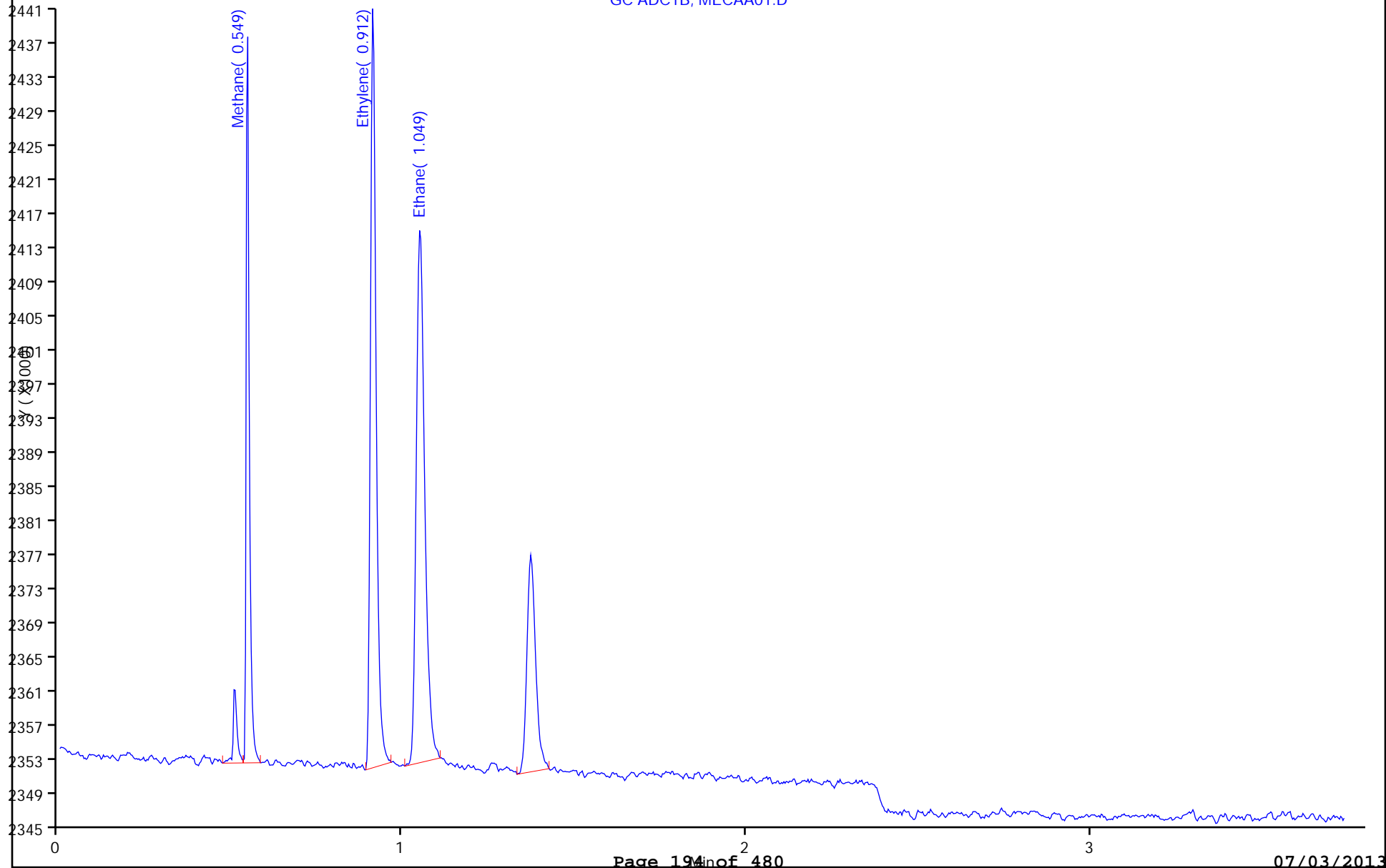
Purge Vol: 18.000 mL

Column Type:

Column Dia:

Y Scaling:

GC ADC1B, MECAA01.D



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA02.D
 Lims ID: IC Client ID:
 Inject. Date: 03-Apr-2013 16:01:57 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 2
 Sample ID: IC
 Misc. Info.:
 Operator: PAD Instrument ID: CH2866.i
 Purge Vol: 18.000 mL ALS Bottle#: 2
 Lims Batch ID: 53930 Lims Sample ID: 2
 Sublist: chrom-RSK-175*sub1
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\RSK-175.m
 Last Update: 12-Apr-2013 16:03:54 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK002

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.547	0.548	-0.001	631291	19.5	
2 Ethylene					
0.914	0.912	0.002	1212556	35.6	
3 Ethane					
1.050	1.052	-0.002	1261828	37.4	

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA02.D

Injection Date: 03-Apr-2013 16:01:57

Limit Group: VG_RSK175_Limits

Client ID:

Instrument ID: CH2866.i

Lims Batch ID: 53930

Lims Sample ID: 2

Operator ID: PAD

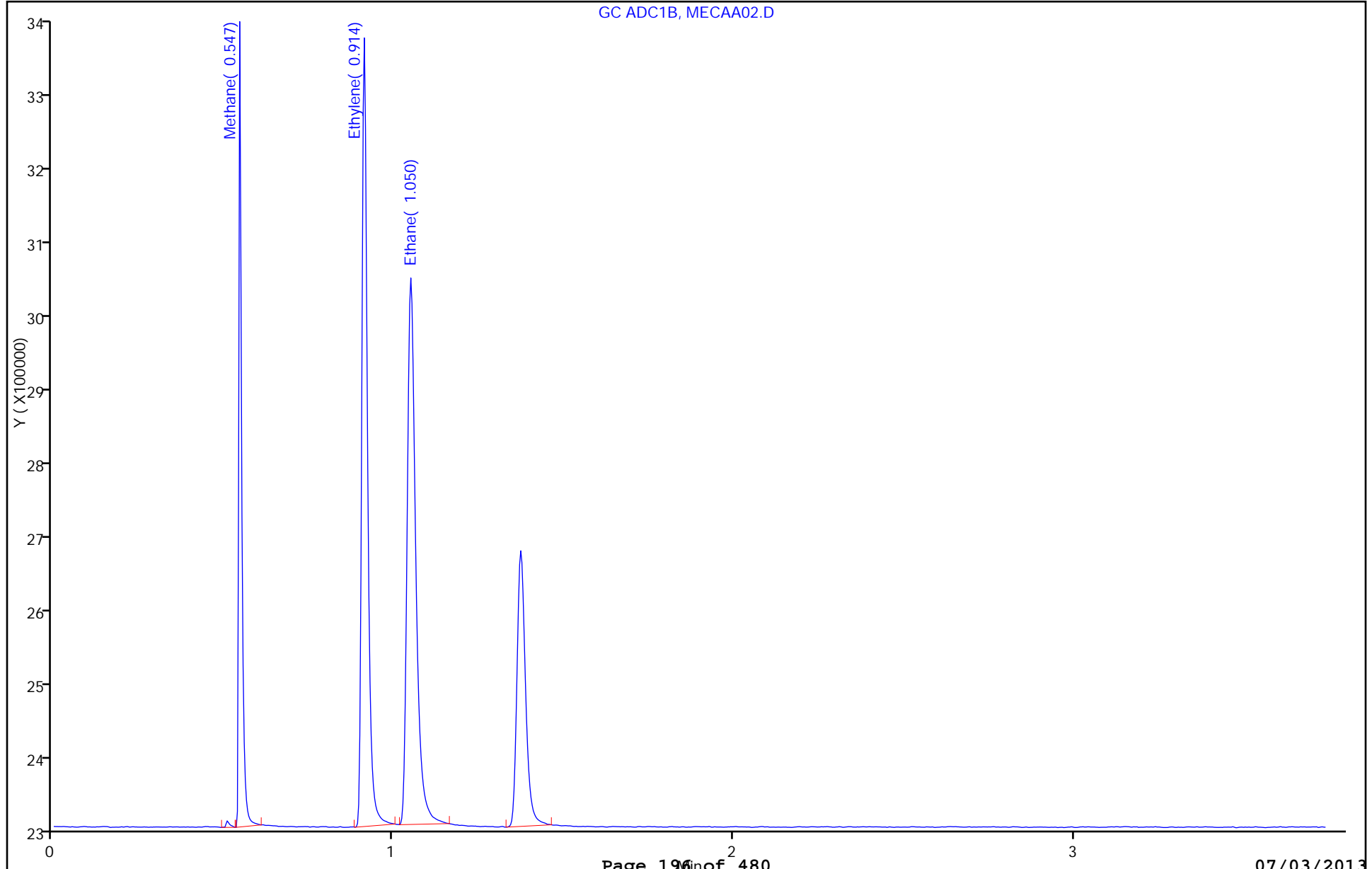
Purge Vol: 18.000 mL

Column Type:

Column Dia:

Y Scaling:

GC ADC1B, MECAA02.D



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA03.D
 Lims ID: ICRT Client ID:
 Inject. Date: 03-Apr-2013 16:06:47 Dil. Factor: 1.0000
 Sample Type: ICRT Calib Level: 3
 Sample ID: ICRT
 Misc. Info.:
 Operator: PAD Instrument ID: CH2866.i
 Purge Vol: 18.000 mL ALS Bottle#: 3
 Lims Batch ID: 53930 Lims Sample ID: 3
 Sublist: chrom-RSK-175*sub1
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\RSK-175.m
 Last Update: 12-Apr-2013 16:03:54 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK002

First Level Reviewer: chirgwinb Date: 05-Apr-2013 14:28:38

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.548	0.548	0.000	2490094	76.7	
2 Ethylene					
0.912	0.912	0.000	4620797	135.7	
3 Ethane					
1.052	1.052	0.000	4916636	145.7	

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA03.D

Injection Date: 03-Apr-2013 16:06:47 Limit Group: VG_RSK175_Limits

Client ID: Instrument ID: CH2866.i

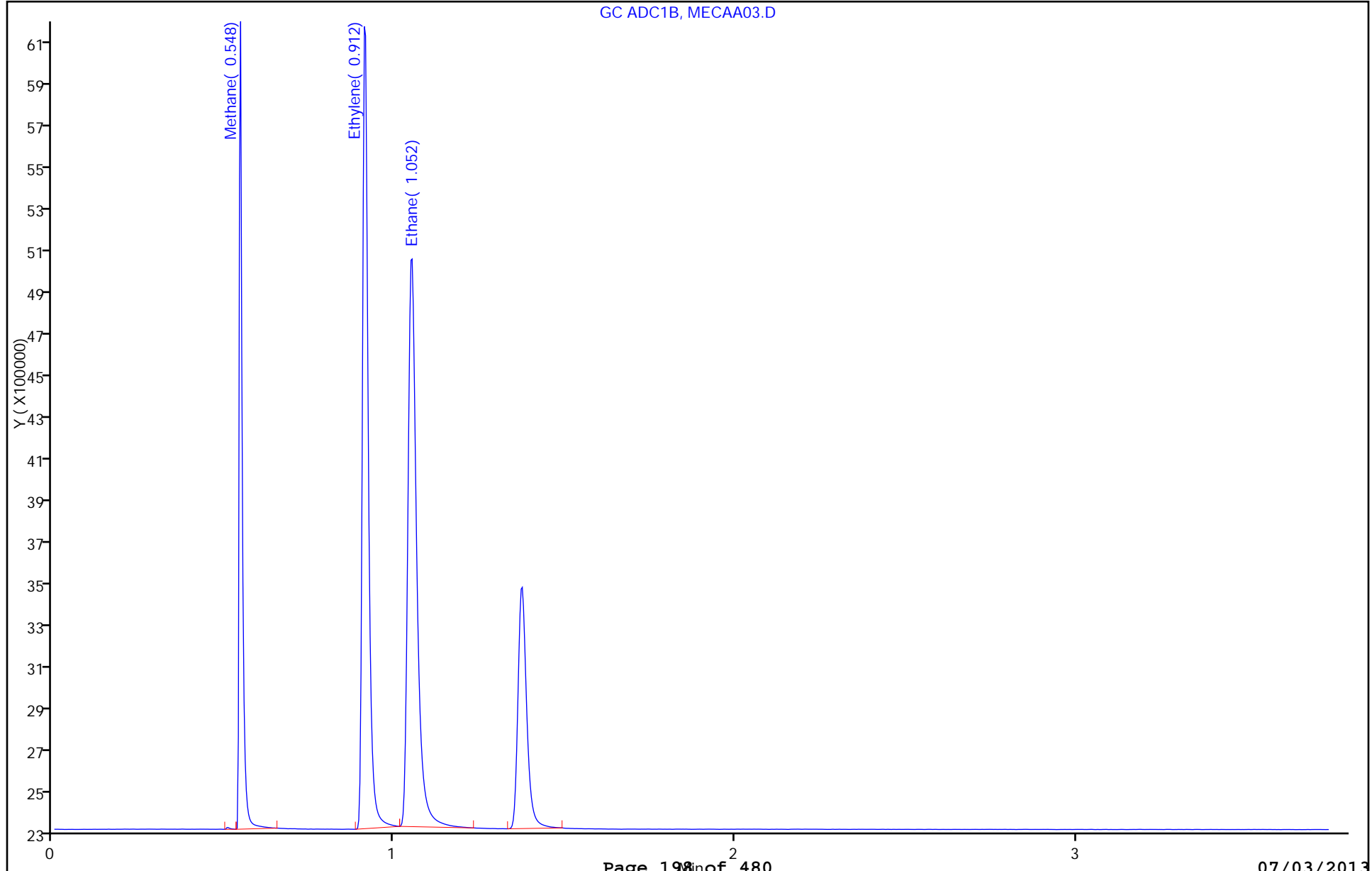
Lims Batch ID: 53930 Lims Sample ID: 3

Operator ID: PAD Purge Vol: 18.000 mL

Column Type: Column Dia:

Y Scaling:

GC ADC1B, MECAA03.D



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA04.D
 Lims ID: IC Client ID:
 Inject. Date: 03-Apr-2013 16:12:44 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 4
 Sample ID: IC
 Misc. Info.:
 Operator: PAD Instrument ID: CH2866.i
 Purge Vol: 18.000 mL ALS Bottle#: 4
 Lims Batch ID: 53930 Lims Sample ID: 4
 Sublist: chrom-RSK-175*sub1
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\RSK-175.m
 Last Update: 12-Apr-2013 16:03:55 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK002

First Level Reviewer: chirgwinb Date: 11-Apr-2013 17:44:50

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.549	0.548	0.001	6149311	189.5	
2 Ethylene					
0.912	0.912	0.000	11153071	327.5	
3 Ethane					
1.049	1.052	-0.003	11945133	354.0	

TestAmerica Burlington

Data File: \\BTv-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA04.D

Injection Date: 03-Apr-2013 16:12:44

Limit Group: VG_RSK175_Limits

Client ID:

Instrument ID: CH2866.i

Lims Batch ID: 53930

Lims Sample ID: 4

Operator ID: PAD

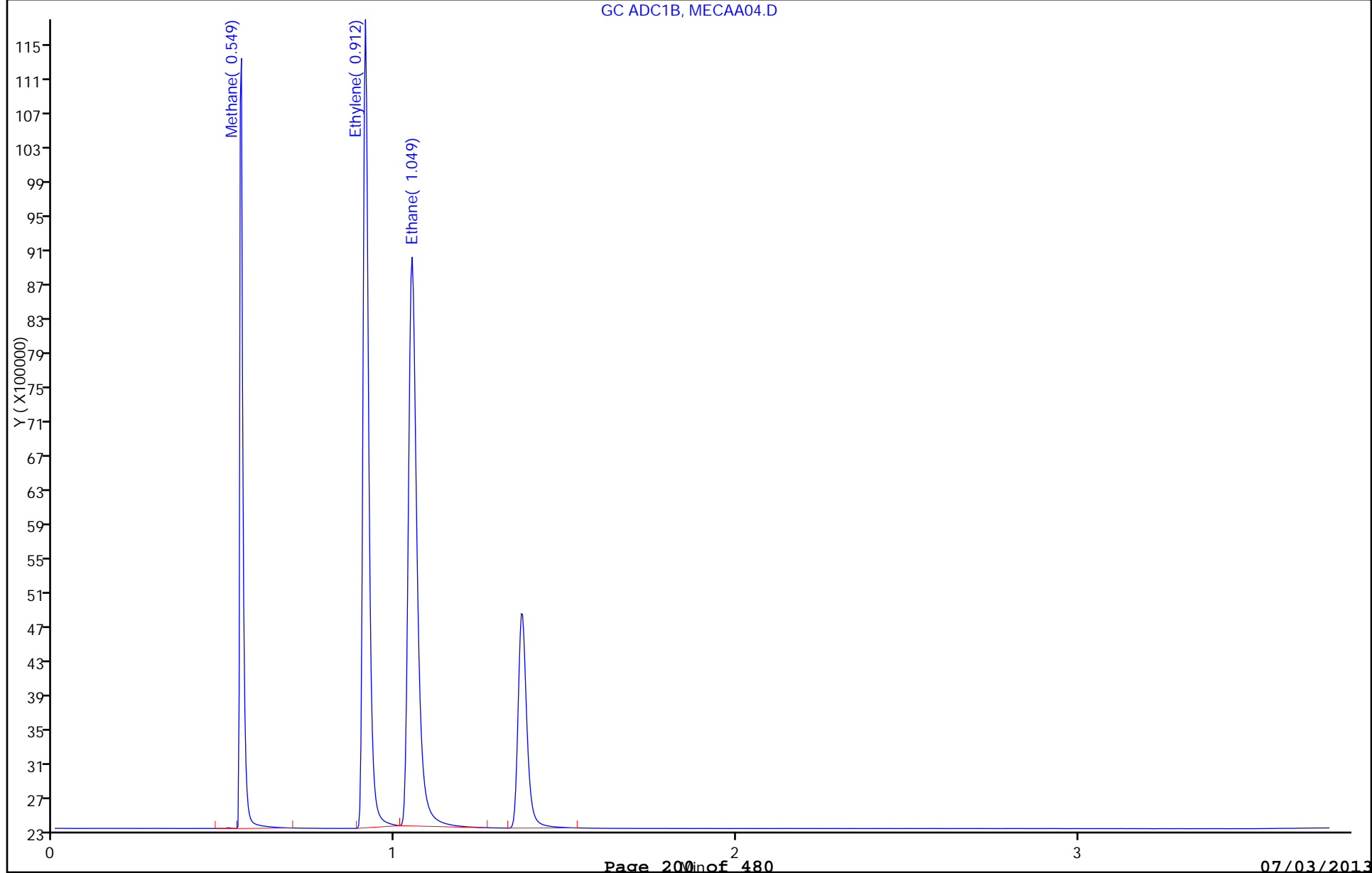
Purge Vol: 18.000 mL

Column Type:

Column Dia:

Y Scaling:

GC ADC1B, MECAA04.D



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Lims ID: IC Client ID:
 Inject. Date: 03-Apr-2013 16:17:36 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 5
 Sample ID: IC
 Misc. Info.:
 Operator: PAD Instrument ID: CH2866.i
 Purge Vol: 18.000 mL ALS Bottle#: 5
 Lims Batch ID: 53930 Lims Sample ID: 5
 Sublist: chrom-RSK-175*sub1
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\RSK-175.m
 Last Update: 12-Apr-2013 16:03:55 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK002

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.548	0.548	0.000	11602909	357.5	
2 Ethylene					
0.911	0.912	-0.001	21266794	624.5	
3 Ethane					
1.048	1.052	-0.004	22706958	673.0	

TestAmerica Burlington

Data File: \\BTv-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D

Injection Date: 03-Apr-2013 16:17:36

Limit Group: VG_RSK175_Limits

Client ID:

Instrument ID: CH2866.i

Lims Batch ID: 53930

Lims Sample ID: 5

Operator ID: PAD

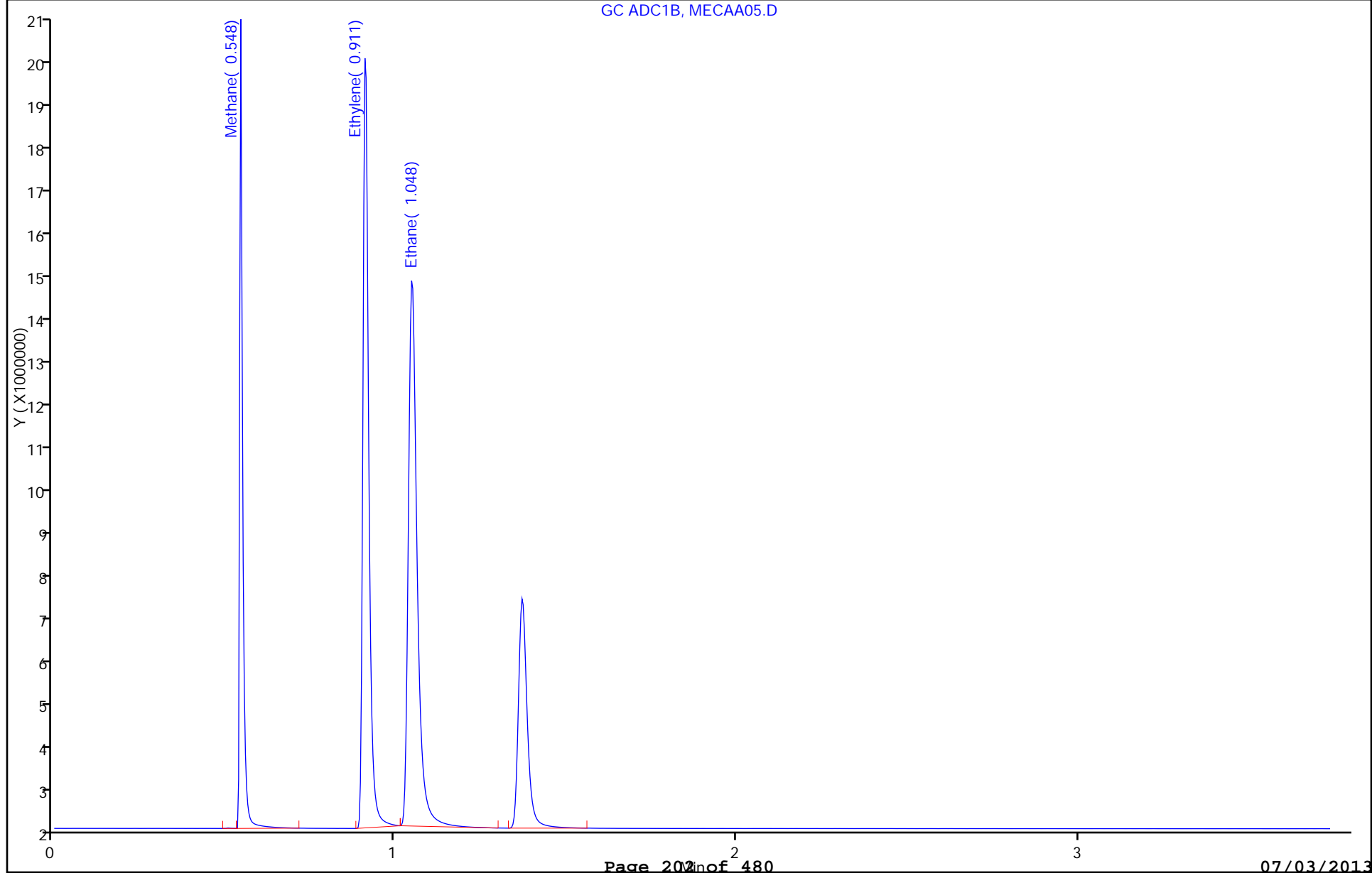
Purge Vol: 18.000 mL

Column Type:

Column Dia:

Y Scaling:

GC ADC1B, MECAA05.D



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Lab Sample ID: ICV 200-53930/6 Calibration Date: 04/03/2013 16:22
 Instrument ID: CH2866.i Calib Start Date: 04/03/2013 15:57
 GC Column: RT-U-Plot ID: 0.53 (mm) Calib End Date: 04/03/2013 16:17
 Lab File ID: MECAA06.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	Ave	32451	33364		74.4	72.4	2.8	30.0
Ethylene	Ave	34055	34638		130	128	1.7	30.0
Ethane	Ave	33741	34648		140	137	2.7	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Lab Sample ID: ICV 200-53930/6 Calibration Date: 04/03/2013 16:22
 Instrument ID: CH2866.i Calib Start Date: 04/03/2013 15:57
 GC Column: RT-U-Plot ID: 0.53 (mm) Calib End Date: 04/03/2013 16:17
 Lab File ID: MECAA06.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	0.55	0.30	0.80
Ethylene	0.91	0.66	1.16
Ethane	1.05	0.80	1.30

TestAmerica Burlington
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA06.D
 Lims ID: ICV Client ID:
 Inject. Date: 03-Apr-2013 16:22:27 Dil. Factor: 1.0000
 Sample Type: ICV
 Sample ID: ICV
 Misc. Info.:
 Operator: PAD Instrument ID: CH2866.i
 Purge Vol: 18.000 mL ALS Bottle#: 6
 Lims Batch ID: 53930 Lims Sample ID: 6
 Sublist:
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\RSK-175.m
 Last Update: 12-Apr-2013 16:03:55 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK002

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.546	0.548	-0.002	2415691	74.4	
2 Ethylene					
0.912	0.912	0.000	4442602	130.5	
3 Ethane					
1.049	1.052	-0.003	4735593	140.4	

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA06.D

Injection Date: 03-Apr-2013 16:22:27

Limit Group: VG_RSK175_Limits

Client ID:

Instrument ID: CH2866.i

Lims Batch ID: 53930

Lims Sample ID: 6

Operator ID: PAD

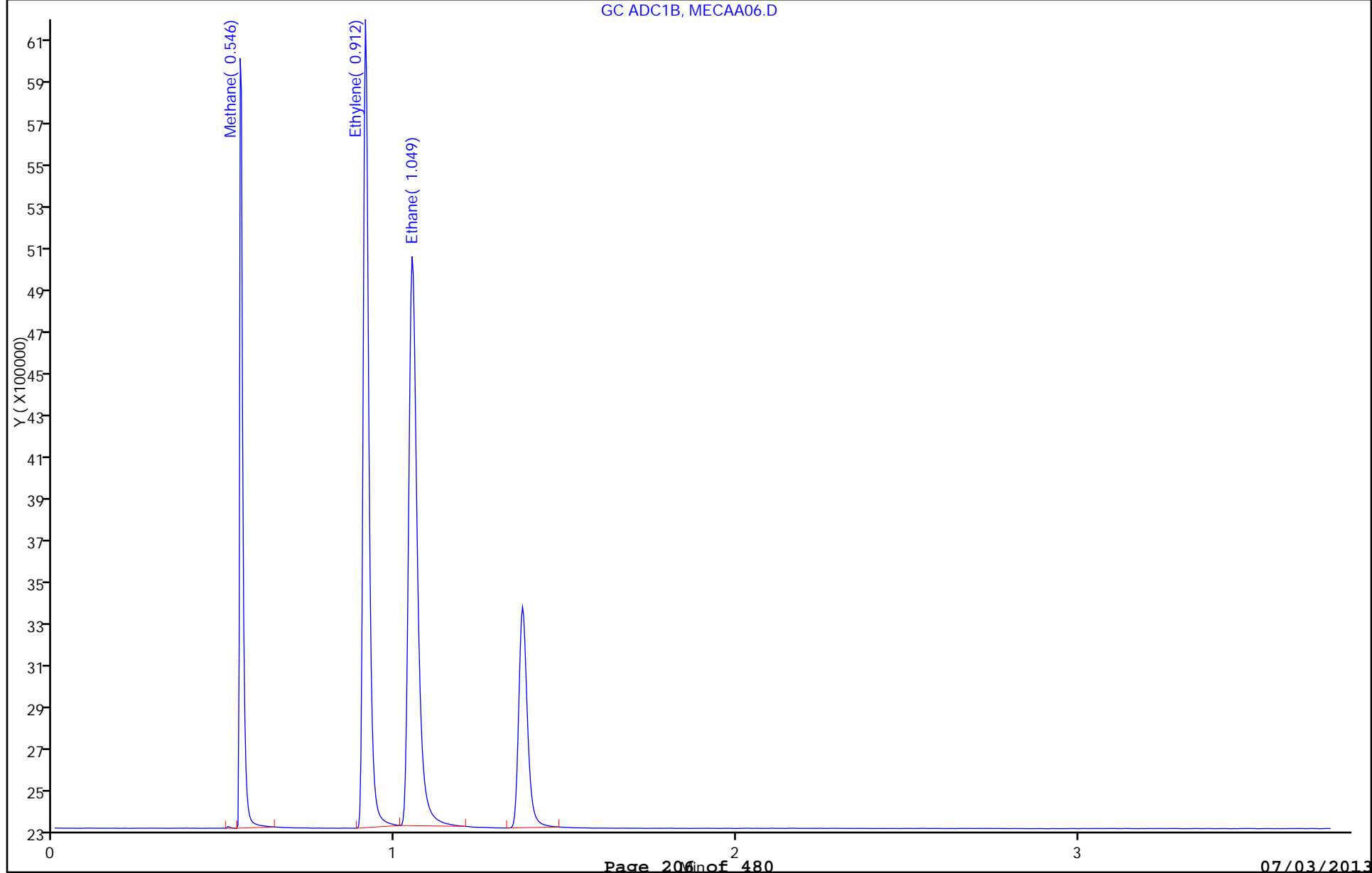
Purge Vol: 18.000 mL

Column Type:

Column Dia:

Y Scaling:

GC ADC1B, MECAA06.D



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Lab Sample ID: CCV 200-55785/1 Calibration Date: 05/21/2013 11:54
 Instrument ID: CH2866.i Calib Start Date: 04/03/2013 15:57
 GC Column: RT-U-Plot ID: 0.53 (mm) Calib End Date: 04/03/2013 16:17
 Lab File ID: MECAR001.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	Ave	32451	23356		52.1	72.4	-28.0	30.0
Ethylene	Ave	34055	24503		92.3	128	-28.0	30.0
Ethane	Ave	33741	26318		107	137	-22.0	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Lab Sample ID: CCV 200-55785/1 Calibration Date: 05/21/2013 11:54
 Instrument ID: CH2866.i Calib Start Date: 04/03/2013 15:57
 GC Column: RT-U-Plot ID: 0.53 (mm) Calib End Date: 04/03/2013 16:17
 Lab File ID: MECAR001.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	0.57	0.32	0.82
Ethylene	0.95	0.70	1.20
Ethane	1.09	0.84	1.34

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.bMECAR001.D
 Lims ID: CCV Client ID:
 Inject. Date: 21-May-2013 11:54:06 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: 200-0003579-001
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 1
 Lims Batch ID: 55785 Lims Sample ID: 1
 Sublist: chrom-RSK-175*sub2
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\RSK-175.m
 Last Update: 23-May-2013 11:04:21 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.569	0.569	0.000	1691125	52.1	
2 Ethylene					
0.948	0.948	0.000	3142758	92.3	
3 Ethane					
1.092	1.092	0.000	3597097	106.6	

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\MECAR001.D

Injection Date: 21-May-2013 11:54:06

Limit Group: VG_RSK175_Limits

Client ID:

Instrument ID: CH2866.i

Lims Batch ID: 55785

Lims Sample ID: 1

Operator ID: NEA

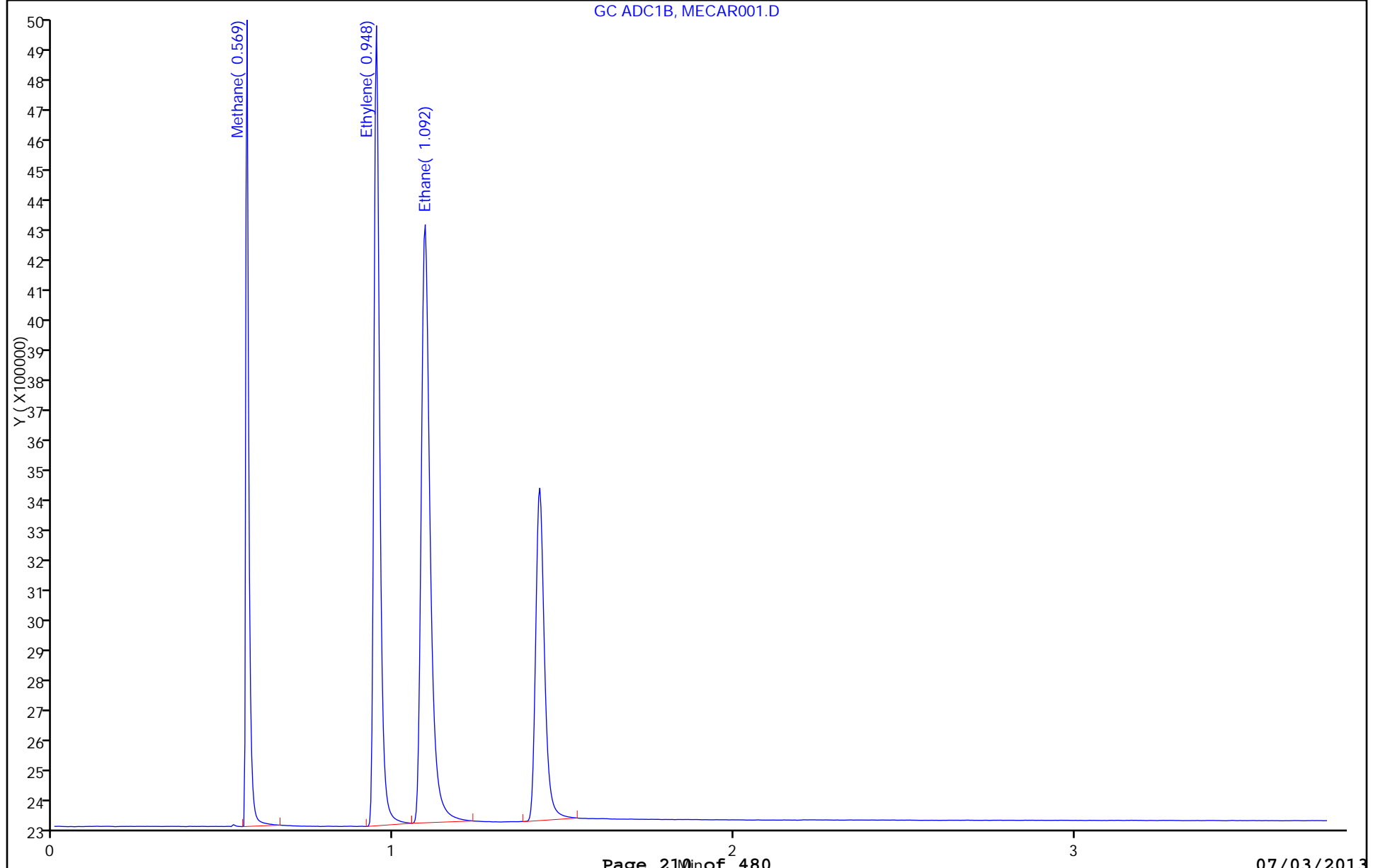
Purge Vol: 400.000 uL

Column Type:

Column Dia:

Y Scaling:

GC ADC1B, MECAR001.D



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Lab Sample ID: CCVC 200-55785/21 Calibration Date: 05/22/2013 08:51
 Instrument ID: CH2866.i Calib Start Date: 04/03/2013 15:57
 GC Column: RT-U-Plot ID: 0.53 (mm) Calib End Date: 04/03/2013 16:17
 Lab File ID: MECAR022.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	Ave	32451	26656		59.5	72.4	-17.9	30.0
Ethylene	Ave	34055	28237		106	128	-17.1	30.0
Ethane	Ave	33741	27730		112	137	-17.8	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Lab Sample ID: CCVC 200-55785/21 Calibration Date: 05/22/2013 08:51
 Instrument ID: CH2866.i Calib Start Date: 04/03/2013 15:57
 GC Column: RT-U-Plot ID: 0.53 (mm) Calib End Date: 04/03/2013 16:17
 Lab File ID: MECAR022.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	0.57	0.32	0.82
Ethylene	0.95	0.70	1.20
Ethane	1.09	0.84	1.34

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.bMECAR022.D
 Lims ID: CCVC Client ID:
 Inject. Date: 22-May-2013 08:51:23 Dil. Factor: 1.0000
 Sample Type: CCVC
 Sample ID: 200-0003579-021
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 21
 Lims Batch ID: 55785 Lims Sample ID: 21
 Sublist: chrom-RSK-175*sub2
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\RSK-175.m
 Last Update: 23-May-2013 11:04:26 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.566	0.566	0.000	1930054	59.5	
2 Ethylene					
0.949	0.949	0.000	3621612	106.3	
3 Ethane					
1.090	1.090	0.000	3790028	112.3	

TestAmerica Burlington

Data File: \\BTv-LIMS1\ChromData\CH2866.i\20130521-3579.b\MECAR022.D

Injection Date: 22-May-2013 08:51:23

Limit Group: VG_RSK175_Limits

Client ID:

Instrument ID: CH2866.i

Lims Batch ID: 55785

Lims Sample ID: 21

Operator ID: NEA

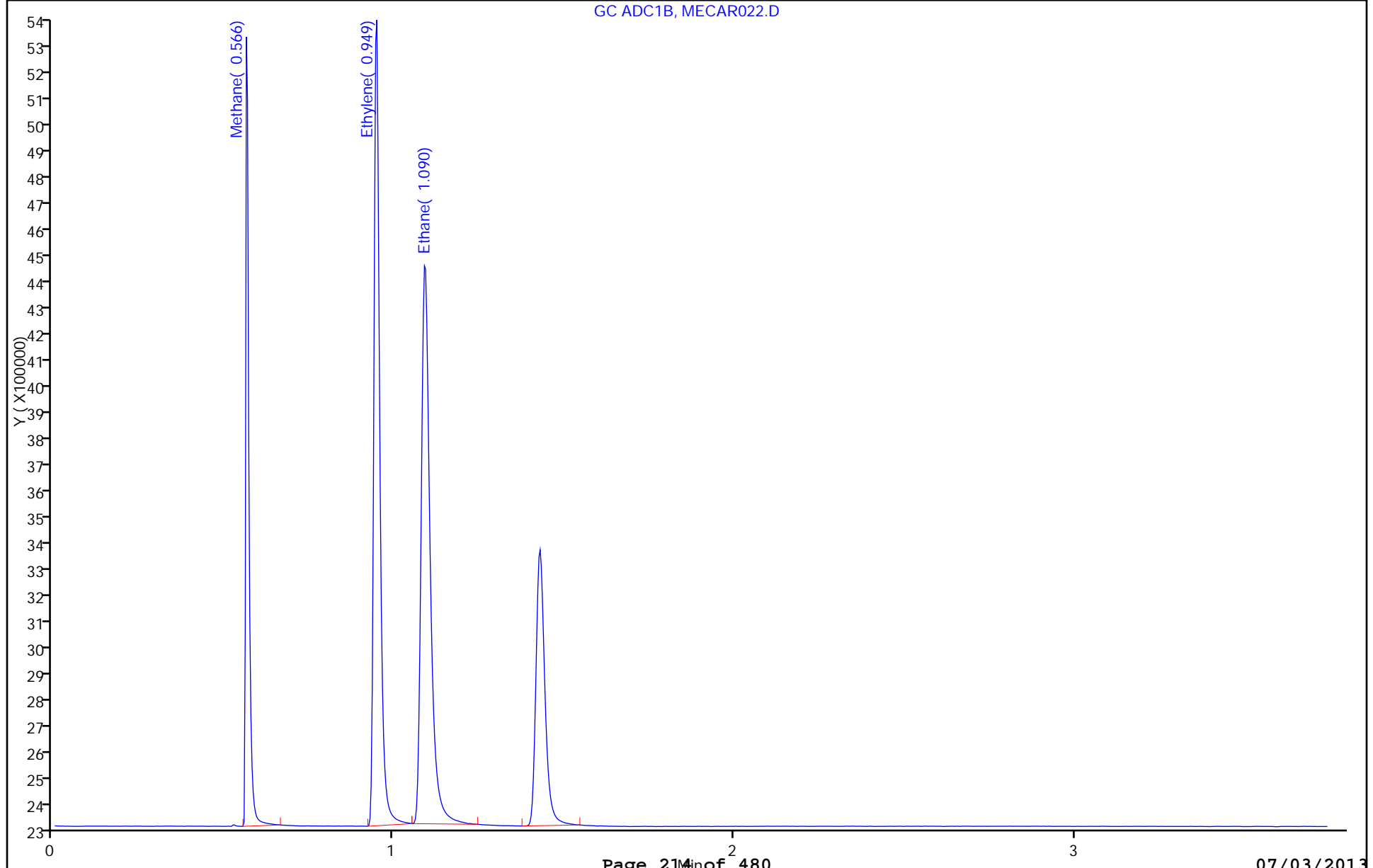
Purge Vol: 400.000 uL

Column Type:

Column Dia:

Y Scaling:

GC ADC1B, MECAR022.D



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-55785/26
 Matrix: Water Lab File ID: MECAR004.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 18 (mL) Date Analyzed: 05/21/2013 12:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55785 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		2.0	0.45
74-84-0	Ethane	ND		4.0	0.81
74-85-1	Ethylene	ND		3.0	0.73

TestAmerica Burlington
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.bMECAR004.D
 Lims ID: MB Client ID:
 Inject. Date: 21-May-2013 12:33:38 Dil. Factor: 1.0000
 Sample Type: MB
 Sample ID: 200-0003579-026
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 26
 Lims Batch ID: 55785 Lims Sample ID: 26
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\RSK-175.m
 Last Update: 23-May-2013 11:04:21 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	-----------	-----------	----------	--------------------	-------

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\MECAR004.D

Injection Date: 21-May-2013 12:33:38

Limit Group: VG_RSK175_Limits

Client ID:

Instrument ID: CH2866.i

Lims Batch ID: 55785

Lims Sample ID: 26

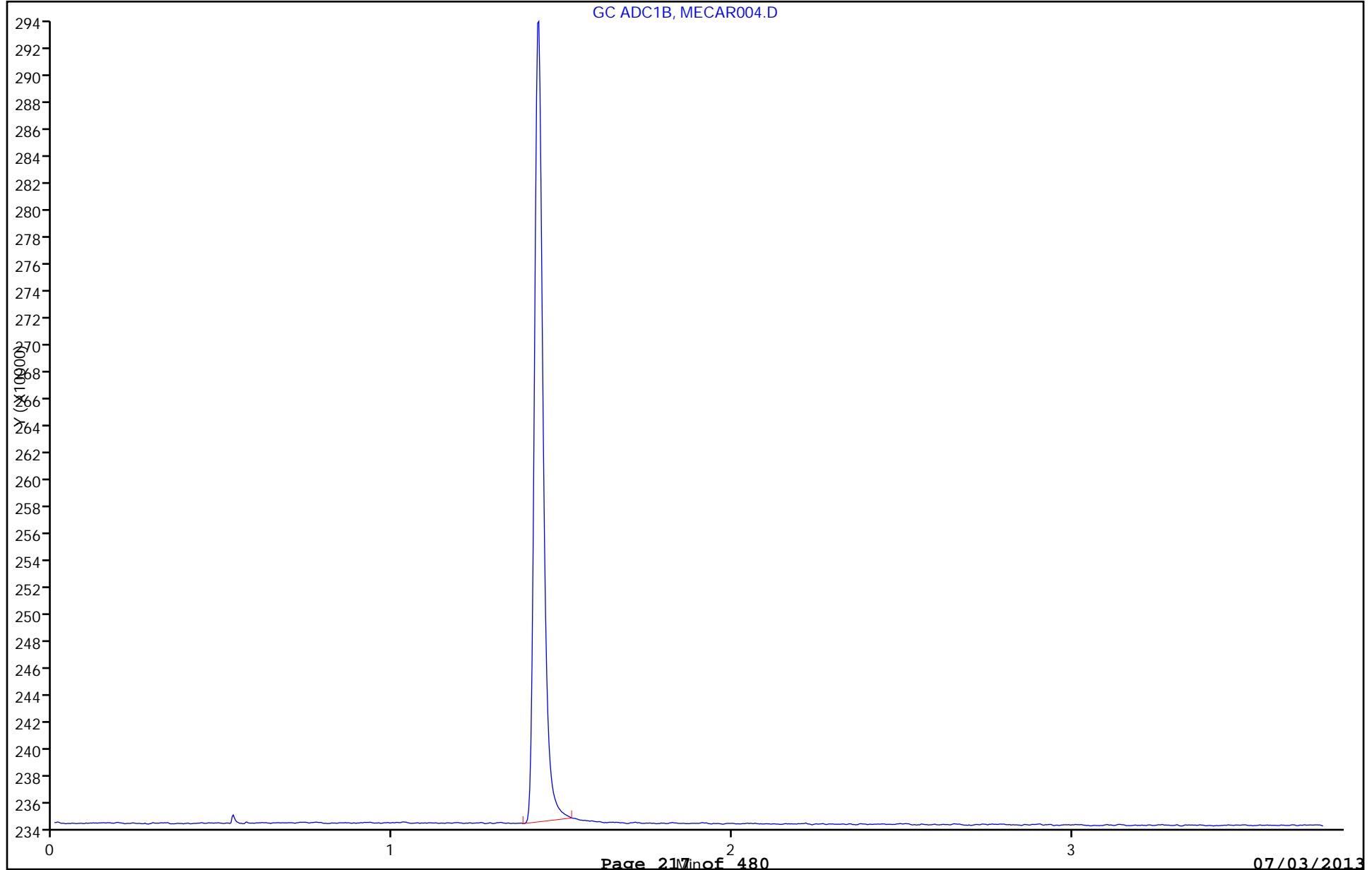
Operator ID: NEA

Purge Vol: 400.000 uL

Column Type:

Column Dia:

Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90076-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-55785/3
 Matrix: Water Lab File ID: MECAR003.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 18 (mL) Date Analyzed: 05/21/2013 12:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55785 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	69.7		2.0	0.45
74-84-0	Ethane	130		4.0	0.81
74-85-1	Ethylene	123		3.0	0.73

TestAmerica Burlington
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.bMECAR003.D
 Lims ID: LCS Client ID:
 Inject. Date: 21-May-2013 12:22:11 Dil. Factor: 1.0000
 Sample Type: LCS
 Sample ID: 200-0003579-003
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 3
 Lims Batch ID: 55785 Lims Sample ID: 3
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130521-3579.b\RSK-175.m
 Last Update: 23-May-2013 11:04:21 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.568	0.569	-0.001	2262489	69.7	
2 Ethylene					
0.948	0.948	0.000	4178800	122.7	
3 Ethane					
1.091	1.092	-0.001	4395804	130.3	

TestAmerica Burlington

Data File: \\BTv-LIMS1\ChromData\CH2866.i\20130521-3579.b\MECAR003.D

Injection Date: 21-May-2013 12:22:11

Limit Group: VG_RSK175_Limits

Client ID:

Instrument ID: CH2866.i

Lims Batch ID: 55785

Lims Sample ID: 3

Operator ID: NEA

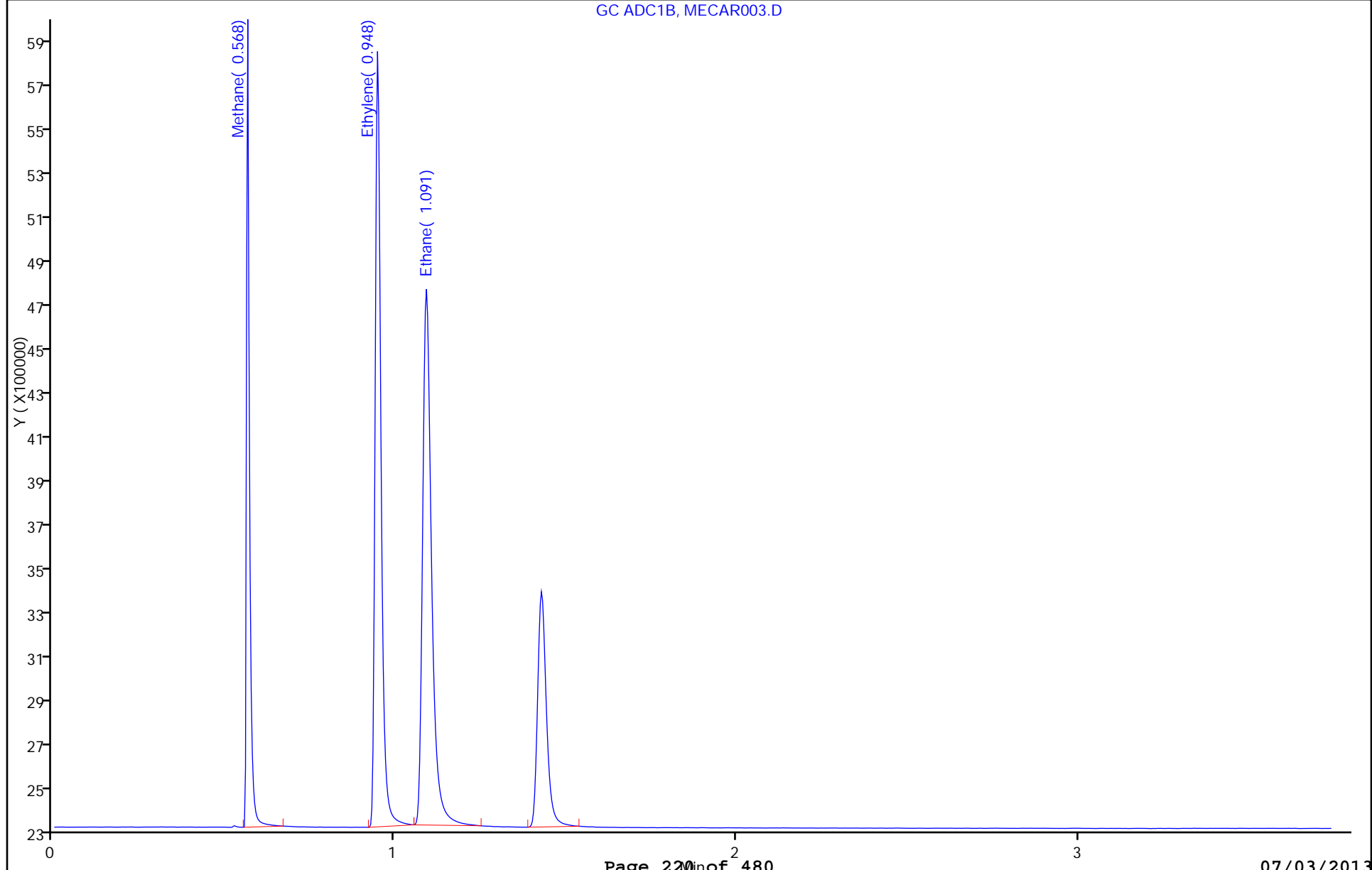
Purge Vol: 400.000 uL

Column Type:

Column Dia:

Y Scaling:

GC ADC1B, MECAR003.D



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 680-90076-1

SDG No.: _____

Instrument ID: CH2866.i Start Date: 04/03/2013 15:57

Analysis Batch Number: 53930 End Date: 04/03/2013 16:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 200-53930/1		04/03/2013 15:57	1	MECAA01.D	RT-U-Plot 0.53 (mm)
IC 200-53930/2		04/03/2013 16:01	1	MECAA02.D	RT-U-Plot 0.53 (mm)
ICRT 200-53930/3		04/03/2013 16:06	1	MECAA03.D	RT-U-Plot 0.53 (mm)
IC 200-53930/4		04/03/2013 16:12	1	MECAA04.D	RT-U-Plot 0.53 (mm)
IC 200-53930/5		04/03/2013 16:17	1	MECAA05.D	RT-U-Plot 0.53 (mm)
ICV 200-53930/6		04/03/2013 16:22	1	MECAA06.D	RT-U-Plot 0.53 (mm)
ZZZZZ		04/03/2013 16:28	1		RT-U-Plot 0.53 (mm)
ZZZZZ		04/03/2013 16:33	1		RT-U-Plot 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 680-90076-1

SDG No.: _____

Instrument ID: CH2866.i Start Date: 05/21/2013 11:54Analysis Batch Number: 55785 End Date: 05/22/2013 08:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-55785/1		05/21/2013 11:54	1	MECAR001.D	RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 12:04	1		RT-U-Plot 0.53 (mm)
LCS 200-55785/3		05/21/2013 12:22	1	MECAR003.D	RT-U-Plot 0.53 (mm)
MB 200-55785/26		05/21/2013 12:33	1	MECAR004.D	RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 12:55	13.75		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 13:00	17		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 13:05	17		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 13:10	9.5		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 13:15	13.75		RT-U-Plot 0.53 (mm)
680-90076-1	25LM20107	05/21/2013 13:44	1	MECAR010.D	RT-U-Plot 0.53 (mm)
680-90076-2	25LM20105	05/21/2013 13:49	1	MECAR011.D	RT-U-Plot 0.53 (mm)
680-90076-3	25LM20100	05/21/2013 13:54	1	MECAR012.D	RT-U-Plot 0.53 (mm)
680-90076-4	25LM20103	05/21/2013 14:00	1	MECAR013.D	RT-U-Plot 0.53 (mm)
680-90076-5	25LM20104	05/21/2013 14:05	1	MECAR014.D	RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 14:09	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 14:15	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 14:20	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 15:00	22		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 15:05	13.75		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 15:10	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 15:16	1		RT-U-Plot 0.53 (mm)
CCVC 200-55785/21		05/22/2013 08:51	1	MECAR022.D	RT-U-Plot 0.53 (mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-90076-1

SDG No.: _____

Project: Seneca Army Depot - LTM Monitoring

Client Sample ID	Lab Sample ID
<u>25LM20107</u>	<u>680-90076-1</u>
<u>25LM20100</u>	<u>680-90076-3</u>
<u>25LM20103</u>	<u>680-90076-4</u>
<u>25LM20104</u>	<u>680-90076-5</u>

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: 25LM20107

Lab Sample ID: 680-90076-1

Lab Name: TestAmerica Savannah

Job No.: 680-90076-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/07/2013 14:05

Reporting Basis: WET

Date Received: 05/08/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	530	100	50	ug/L			1	6010C
7440-23-5	Sodium	2800	1000	500	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: 25LM20100

Lab Sample ID: 680-90076-3

Lab Name: TestAmerica Savannah

Job No.: 680-90076-1

SDG ID.:

Matrix: Water

Date Sampled: 05/07/2013 12:20

Reporting Basis: WET

Date Received: 05/08/2013 09:45

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	3600	1000	500	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: 25LM20103

Lab Sample ID: 680-90076-4

Lab Name: TestAmerica Savannah

Job No.: 680-90076-1

SDG ID.:

Matrix: Water

Date Sampled: 05/07/2013 15:36

Reporting Basis: WET

Date Received: 05/08/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	4200	100	50	ug/L			1	6010C
7440-23-5	Sodium	8100	1000	500	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: 25LM20104

Lab Sample ID: 680-90076-5

Lab Name: TestAmerica Savannah

Job No.: 680-90076-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/07/2013 16:10

Reporting Basis: WET

Date Received: 05/08/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	3000	100	50	ug/L			1	6010C
7440-23-5	Sodium	34000	1000	500	ug/L			1	6010C

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

ICV Source: P_ICV_wk_00215 Concentration Units: ug/L

CCV Source: P_CCV_wk_00112

Analyte	ICV 680-277109/5 05/16/2013 15:58				CCV 680-277109/49 05/16/2013 19:59				CCV 680-277109/61 05/16/2013 21:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	984		1000	98	4930		5000	99	4820		5000	96
Sodium	9440		10000	94	6860		7500	91	6810		7500	91

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.: 680-90076-1

SDG No.: _____

ICV Source: P_ICV_wk_00215 Concentration Units: ug/L

CCV Source: P_CCV_wk_00112

Analyte	CCV 680-277109/73 05/16/2013 22:09											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	4880		5000	98								
Sodium	6790		7500	90								

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.: 680-90076-1
 SDG No.: _____
 Method: 6010C Instrument ID: ICPE
 Lab Sample ID: CRI 680-277109/7 Concentration Units: ug/L
 CRQL Check Standard Source: P_CRI_00024

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	50.0	52.6	J	105	50-150
Sodium	1000	919	J	92	50-150

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.: 680-90076-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICBIS 680-277109/6 05/16/2013 16:05		CCB 680-277109/50 05/16/2013 20:04		CCB 680-277109/62 05/16/2013 21:10		CCB 680-277109/74 05/16/2013 22:15	
		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
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 680-276285/1-A
Instrument Code: ICPE Batch No.: 277109

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.: 680-90076-1

SDG No.: _____

Lab Sample ID: ICSA 680-277109/8

Instrument ID: ICPE

Lab File ID: E05162013AF.csv

ICS Source: P_ICSA_wk_00032

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	200000	185700	93
Sodium		-47.4	
<i>Aluminum</i>	<i>500000</i>	<i>531837</i>	<i>106</i>
<i>Antimony</i>		<i>7.59</i>	
<i>Arsenic</i>		<i>-1.08</i>	
<i>Barium</i>		<i>-8.38</i>	
<i>Beryllium</i>		<i>-0.133</i>	
<i>Boron</i>		<i>-2.89</i>	
<i>Cadmium</i>		<i>1.53</i>	
<i>Calcium</i>	<i>500000</i>	<i>478747</i>	<i>96</i>
<i>Chromium</i>		<i>0.686</i>	
<i>Cobalt</i>		<i>1.76</i>	
<i>Copper</i>		<i>2.44</i>	
<i>Lead</i>		<i>0.491</i>	
<i>Magnesium</i>	<i>500000</i>	<i>512783</i>	<i>103</i>
<i>Manganese</i>		<i>4.36</i>	
<i>Molybdenum</i>		<i>1.97</i>	
<i>Nickel</i>		<i>2.54</i>	
<i>Potassium</i>		<i>2.37</i>	
<i>Selenium</i>		<i>-7.64</i>	
<i>Silver</i>		<i>-0.123</i>	
<i>Strontium</i>		<i>8.94</i>	
<i>Thallium</i>		<i>-12.8</i>	
<i>Tin</i>		<i>-0.396</i>	
<i>Titanium</i>		<i>1.94</i>	
<i>Vanadium</i>		<i>1.21</i>	
<i>Zinc</i>		<i>15.3</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.: 680-90076-1

SDG No.: _____

Lab Sample ID: ICSAB 680-277109/9

Instrument ID: ICPE

Lab File ID: E05162013AF.csv

ICS Source: P_ICSAB_wk_00045

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	193247	97
Sodium		-493	
<i>Aluminum</i>	<i>500000</i>	<i>551275</i>	<i>110</i>
<i>Antimony</i>	<i>600</i>	<i>663</i>	<i>111</i>
<i>Arsenic</i>	<i>100</i>	<i>118</i>	<i>118</i>
<i>Barium</i>	<i>500</i>	<i>508</i>	<i>102</i>
<i>Beryllium</i>	<i>500</i>	<i>499</i>	<i>100</i>
<i>Boron</i>		<i>-6.11</i>	
<i>Cadmium</i>	<i>1000</i>	<i>988</i>	<i>99</i>
<i>Calcium</i>	<i>500000</i>	<i>499038</i>	<i>100</i>
<i>Chromium</i>	<i>500</i>	<i>517</i>	<i>103</i>
<i>Cobalt</i>	<i>500</i>	<i>489</i>	<i>98</i>
<i>Copper</i>	<i>500</i>	<i>576</i>	<i>115</i>
<i>Lead</i>	<i>50.0</i>	<i>47.0</i>	<i>94</i>
<i>Magnesium</i>	<i>500000</i>	<i>533318</i>	<i>107</i>
<i>Manganese</i>	<i>500</i>	<i>535</i>	<i>107</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1142</i>	<i>114</i>
<i>Nickel</i>	<i>1000</i>	<i>967</i>	<i>97</i>
<i>Potassium</i>		<i>1.57</i>	
<i>Selenium</i>	<i>50.0</i>	<i>51.6</i>	<i>103</i>
<i>Silver</i>	<i>200</i>	<i>223</i>	<i>112</i>
<i>Strontium</i>		<i>10.5</i>	
<i>Thallium</i>	<i>100</i>	<i>96.3</i>	<i>96</i>
<i>Tin</i>	<i>1000</i>	<i>1036</i>	<i>104</i>
<i>Titanium</i>		<i>2.04</i>	
<i>Vanadium</i>	<i>500</i>	<i>507</i>	<i>101</i>
<i>Zinc</i>	<i>1000</i>	<i>981</i>	<i>98</i>

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-90039-B-9-B MS
 Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 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	5070	51	J	5000	100	75-125		6010C
Sodium	28900	24000		5000	101	75-125	4	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: _____ Lab ID: 680-90039-B-9-C MSD
 Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 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	4850	5000	96	75-125	4	20		6010C
Sodium	28400	5000	90	75-125	2	20	4	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 680-276285/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-90076-1

Sample Matrix: Water

LCS Source: MS_LCS1_WK_00003

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	5000	4740		95	75	125		6010C
Sodium	5000	4620		92	75	125		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: 680-90076-1
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: 680-90076-1
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: 680-90076-1

SDG No.: _____

ICP-AES Instrument ID: ICPE Date: 03/05/2013

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215														
Antimony	206.834						0.007900				0.009800		0.000023		
Arsenic	188.980							0.000037					-0.000016		
Barium	389.178												0.000062		0.000112
Beryllium	313.042														
Boron	249.678												-0.000101		
Cadmium	226.502												0.000066		
Calcium	370.602												-0.025890		
Chromium	267.716								-0.000200				0.000005		
Cobalt	228.615										0.000280		-0.000003		
Copper	324.754												0.000006		
Iron	271.441									0.090560	0.001160				
Lead	220.353		-0.000011							-0.000200					
Magnesium	279.078		-0.000142										0.000087		
Manganese	257.610												0.000012		0.000025
Molybdenum	202.032												-0.000007		
Nickel	231.604												0.000008		
Potassium	766.491														
Selenium	196.026												0.000012		
Silver	328.068														
Sodium	330.237												-0.005902		
Strontium	216.596							0.000009					0.000039		
Thallium	190.794									0.000530			-0.000052		
Tin	189.925														
Titanium	334.941														
Vanadium	292.401											-0.002240			
Zinc	206.200											-0.001960			

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-90076-1

SDG No.: _____

ICP-AES Instrument ID: ICPE Date: 03/05/2013

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
Aluminum	308.215		0.023030										-0.003100	
Antimony	206.834		-0.013600						0.000200					
Arsenic	188.980		-0.000430											
Barium	389.178		0.000218										0.000095	
Beryllium	313.042		-0.000082										-0.000019	
Boron	249.678													
Cadmium	226.502													
Calcium	370.602	0.008800									0.058100		0.003040	
Chromium	267.716	0.000090											-0.000200	
Cobalt	228.615		-0.002900						-0.000060		0.002250			
Copper	324.754		0.000550										-0.000200	
Iron	271.441		0.000760										0.004220	
Lead	220.353	0.000130	-0.000800									-0.000325		
Magnesium	279.078	-0.007600												
Manganese	257.610													
Molybdenum	202.032												-0.000260	
Nickel	231.604													
Potassium	766.491													
Selenium	196.026	0.000500												
Silver	328.068	0.000061								-0.000600			0.000081	
Sodium	330.237										-0.150825			-0.144400
Strontium	216.596		-0.003360		-0.001575									
Thallium	190.794	-0.001466	-0.000433										0.000500	
Tin	189.925													
Titanium	334.941													
Vanadium	292.401		-0.007130								0.000575			
Zinc	206.200													

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-90076-1

SDG No.: _____

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-276285/1-A	05/10/2013 11:07	276285		50	50
LCS 680-276285/2-A	05/10/2013 11:07	276285		50	50
680-90039-B-9-B MS	05/10/2013 11:07	276285		50	50
680-90039-B-9-C MSD	05/10/2013 11:07	276285		50	50
680-90076-1	05/10/2013 11:07	276285		50	50
680-90076-3	05/10/2013 11:07	276285		50	50
680-90076-4	05/10/2013 11:07	276285		50	50
680-90076-5	05/10/2013 11:07	276285		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/16/2013 15:34 End Date: 05/17/2013 09:19

Lab Sample ID	D / F	T y p e	Time	Analytes															
				F e	N a														
ZZZZZZ			15:34																
ZZZZZZ			15:40																
ZZZZZZ			15:45																
ZZZZZZ			15:51																
ICV 680-277109/5	1		15:58	X	X														
ICBIS 680-277109/6	1		16:05	X	X														
CRI 680-277109/7	1		16:10	X	X														
ICSA 680-277109/8	1		16:16	X	X														
ICSAB 680-277109/9	1		16:21	X	X														
ZZZZZZ			16:27																
ZZZZZZ			16:32																
ZZZZZZ			16:38																
CCV 680-277109/13			16:43																
CCB 680-277109/14			16:48																
ZZZZZZ			16:54																
ZZZZZZ			16:59																
ZZZZZZ			17:05																
ZZZZZZ			17:10																
ZZZZZZ			17:16																
ZZZZZZ			17:21																
ZZZZZZ			17:27																
ZZZZZZ			17:32																
ZZZZZZ			17:37																
ZZZZZZ			17:43																
CCV 680-277109/25			17:48																
CCB 680-277109/26			17:54																
ZZZZZZ			17:59																
ZZZZZZ			18:04																
ZZZZZZ			18:10																
ZZZZZZ			18:15																
ZZZZZZ			18:21																
ZZZZZZ			18:26																
ZZZZZZ			18:32																
ZZZZZZ			18:37																
ZZZZZZ			18:43																
ZZZZZZ			18:48																
CCV 680-277109/37			18:54																
CCB 680-277109/38			18:59																
ZZZZZZ			19:04																
ZZZZZZ			19:10																
ZZZZZZ			19:15																
ZZZZZZ			19:21																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/16/2013 15:34 End Date: 05/17/2013 09:19

Lab Sample ID	D / F	Type	Time	Analytes															
				F	N														
ZZZZZZ			19:26																
ZZZZZZ			19:32																
ZZZZZZ			19:37																
ZZZZZZ			19:43																
ZZZZZZ			19:48																
ZZZZZZ			19:54																
CCV 680-277109/49	1		19:59	X	X														
CCB 680-277109/50	1		20:04	X	X														
ZZZZZZ			20:10																
ZZZZZZ			20:15																
ZZZZZZ			20:21																
MB 680-276285/1-A	1	T	20:26	X	X														
LCS 680-276285/2-A	1	T	20:32	X	X														
ZZZZZZ			20:37																
680-90039-B-9-B MS	1	T	20:42	X	X														
680-90039-B-9-C MSD	1	T	20:48	X	X														
ZZZZZZ			20:53																
680-90076-1	1	T	20:59	X	X														
CCV 680-277109/61	1		21:04	X	X														
CCB 680-277109/62	1		21:10	X	X														
680-90076-3	1	T	21:15	X	X														
680-90076-4	1	T	21:20	X	X														
680-90076-5	1	T	21:26	X	X														
ZZZZZZ			21:31																
ZZZZZZ			21:37																
ZZZZZZ			21:42																
ZZZZZZ			21:48																
ZZZZZZ			21:53																
ZZZZZZ			21:59																
ZZZZZZ			22:04																
CCV 680-277109/73	1		22:09	X	X														
CCB 680-277109/74	1		22:15	X	X														
ZZZZZZ			22:20																
ZZZZZZ			22:26																
ZZZZZZ			22:31																
ZZZZZZ			22:36																
ZZZZZZ			22:42																
ZZZZZZ			22:47																
ZZZZZZ			22:53																
ZZZZZZ			22:58																
ZZZZZZ			23:04																
ZZZZZZ			23:09																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/16/2013 15:34 End Date: 05/17/2013 09:19

Lab Sample ID	D / F	Type	Time	Analytes															
				F e	N a														
CCV 680-277109/85			23:14																
CCB 680-277109/86			23:20																
ZZZZZZ			23:25																
ZZZZZZ			23:31																
ZZZZZZ			23:36																
ZZZZZZ			23:42																
ZZZZZZ			23:47																
ZZZZZZ			23:52																
ZZZZZZ			23:58																
ZZZZZZ			00:03																
ZZZZZZ			00:09																
ZZZZZZ			00:14																
CCV 680-277109/97			00:20																
CCB 680-277109/98			00:25																
ZZZZZZ			00:31																
ZZZZZZ			00:36																
ZZZZZZ			00:41																
ZZZZZZ			00:47																
ZZZZZZ			00:52																
ZZZZZZ			00:58																
ZZZZZZ			01:03																
ZZZZZZ			01:09																
ZZZZZZ			01:14																
ZZZZZZ			01:19																
CCV 680-277109/109			01:25																
CCB 680-277109/110			01:30																
ZZZZZZ			01:36																
ZZZZZZ			01:41																
ZZZZZZ			01:47																
ZZZZZZ			01:52																
ZZZZZZ			01:57																
ZZZZZZ			02:03																
ZZZZZZ			02:08																
ZZZZZZ			02:14																
ZZZZZZ			02:19																
ZZZZZZ			02:25																
CCV 680-277109/121			02:30																
CCB 680-277109/122			02:35																
ZZZZZZ			02:41																
ZZZZZZ			02:46																
ZZZZZZ			02:52																
ZZZZZZ			02:57																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/16/2013 15:34 End Date: 05/17/2013 09:19

Lab Sample ID	D / F	T y p e	Time	Analytes															
				F e	N a														
ZZZZZZ			03:03																
ZZZZZZ			03:08																
ZZZZZZ			03:14																
ZZZZZZ			03:19																
ZZZZZZ			03:25																
ZZZZZZ			03:30																
CCV 680-277109/133			03:35																
CCB 680-277109/134			03:41																
ZZZZZZ			03:46																
ZZZZZZ			03:52																
ZZZZZZ			03:57																
ZZZZZZ			04:03																
ZZZZZZ			04:08																
ZZZZZZ			04:14																
ZZZZZZ			04:19																
ZZZZZZ			04:24																
ZZZZZZ			04:30																
ZZZZZZ			04:35																
CCV 680-277109/145			04:41																
CCB 680-277109/146			04:46																
ZZZZZZ			04:52																
ZZZZZZ			04:57																
ZZZZZZ			05:03																
ZZZZZZ			05:08																
ZZZZZZ			05:13																
ZZZZZZ			05:19																
ZZZZZZ			05:24																
ZZZZZZ			05:30																
ZZZZZZ			05:35																
ZZZZZZ			05:41																
CCV 680-277109/157			05:46																
CCB 680-277109/158			05:52																
ZZZZZZ			05:57																
ZZZZZZ			06:03																
ZZZZZZ			06:08																
ZZZZZZ			06:14																
ZZZZZZ			06:19																
ZZZZZZ			06:24																
ZZZZZZ			06:30																
ZZZZZZ			06:35																
ZZZZZZ			06:41																
ZZZZZZ			06:46																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/16/2013 15:34 End Date: 05/17/2013 09:19

Lab Sample ID	D / F	T y p e	Time	Analytes																
				F e	N a															
CCV 680-277109/169			06:52																	
CCB 680-277109/170			06:57																	
ZZZZZZ			07:03																	
ZZZZZZ			07:08																	
ZZZZZZ			07:14																	
ZZZZZZ			07:19																	
ZZZZZZ			07:25																	
ZZZZZZ			07:30																	
ZZZZZZ			07:36																	
ZZZZZZ			07:41																	
ZZZZZZ			07:46																	
ZZZZZZ			07:52																	
CCV 680-277109/181			07:57																	
CCB 680-277109/182			08:03																	
ZZZZZZ			08:08																	
ZZZZZZ			08:14																	
ZZZZZZ			08:19																	
ZZZZZZ			08:25																	
ZZZZZZ			08:30																	
ZZZZZZ			08:36																	
ZZZZZZ			08:41																	
ZZZZZZ			08:47																	
ZZZZZZ			08:52																	
ZZZZZZ			08:58																	
CCV 680-277109/193			09:03																	
CCB 680-277109/194			09:09																	
ZZZZZZ			09:14																	
ZZZZZZ			09:19																	

Prep Types
T = Total/NA

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

Blank (Blk)	5/16/2013, 3:34:49 PM		Rack S, Tube 1
Label	Replicates Concentration		
Ag 328.068	0.1050	0.1127	-0.2178
Al 308.215	-1.3881	1.7823	-0.3942
As 188.980	-3.3086	2.4397	0.8689
B 249.678	0.3420	0.0173	-0.3594
Ba 389.178	-0.2196	0.1413	0.0783
Be 313.042	-0.0047	-0.0004	0.0050
Ca 370.602	3.335	-1.820	-1.515
Cd 226.502	-0.0372	0.0151	0.0221
Co 228.615	-0.3116	0.2019	0.1097
Cr 267.716	0.0619	-0.0592	-0.0027
Cu 324.754	-0.1493	0.0839	0.0655
Fe 271.441	-0.0066	-3.5807	3.5873
K 766.491	-0.2096	0.0453	0.1644
Mg 279.078	2.3236	-2.1872	-0.1364
Mn 257.610	-0.0726	-0.1148	0.1874
Mo 202.032	0.3170	0.1491	-0.4661
Na 330.237	-55.7630	71.3534	-15.5906
Ni 231.604	-0.3492	0.2474	0.1018
Pb 220.353	0.9380	-1.1636	0.2256
Sb 206.834	-1.8671	-1.3476	3.2147
Se 196.026	0.6929	-1.2234	0.5304
Sn 189.925	-1.4973	1.7895	-0.2922
Sr 216.596	0.1552	-0.1467	-0.0085
Ti 334.941	0.0616	-0.0330	-0.0286
Tl 190.794	-0.1268	1.1831	-1.0563
V 292.401	-0.1594	-0.0397	0.1991
Zn 206.200	0.2081	0.2860	-0.4941

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	16.759	55.2	-30.3678
Al 308.215	0.0000	ppb	3.806	22.0	-17.2815
As 188.980	0.0000	ppb	2.113	18.6	-11.3890
B 249.678	0.0000	ppb	5.524	3.8	145.820
Ba 389.178	0.0000	ppb	5.073	17.7	-28.6351
Be 313.042	0.0000	ppb	10.621	2.4	-447.888
Ca 370.602	0.0000	ppb	10.153	81.4	12.47
Cd 226.502	0.0000	ppb	1.575	4.1	38.0738
Co 228.615	0.0000	ppb	4.267	99.1	4.3033
Cr 267.716	0.0000	ppb	3.587	72.0	4.9824
Cu 324.754	0.0000	ppb	6.748	2.3	296.201
Fe 271.441	0.0000	ppb	7.416	23.6	31.4808
K 766.491	0.0000	ppb	8.008	2.9	279.294
Mg 279.078	0.0000	ppb	5.945	16.6	35.8610
Mn 257.610	0.0000	ppb	11.680	8.5	137.049
Mo 202.032	0.0000	ppb	3.560	20.6	17.2957
Na 330.237	0.0000	ppb	3.630	4.9	74.0904
Ni 231.604	0.0000	ppb	1.113	4181.4	0.0266
Pb 220.353	0.0000	ppb	2.433	8.1	30.1451
Sb 206.834	0.0000	ppb	3.386	105.8	-3.2018
Se 196.026	0.0000	ppb	0.682	6.1	11.1242
Sn 189.925	0.0000	ppb	1.889	11.4	-16.5709
Sr 216.596	0.0000	ppb	2.203	11.8	18.5954
Ti 334.941	0.0000	ppb	17.917	39.7	-45.1331
Tl 190.794	0.0000	ppb	1.237	6.2	-19.8993
V 292.401	0.0000	ppb	5.867	58.1	-10.0977
Zn 206.200	0.0000	ppb	0.837	12.2	6.8545

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

HIGH STD (Std) **5/16/2013, 3:40:14 PM** **Rack S, Tube 2**

Label	Replicates Concentration		
Ag 328.068	1000.87	1004.50	994.624
Al 308.215	10033.7	10034.6	9931.62
As 188.980	999.937	991.188	1008.88
B 249.678	995.544	999.381	1005.07
Ba 389.178	9990.21	10013.4	9996.39
Be 313.042	1000.70	1000.42	998.886
Ca 370.602	10010	10016	9974
Cd 226.502	1000.38	999.457	1000.16
Co 228.615	999.595	1000.70	999.707
Cr 267.716	9990.67	9998.79	10010.5
Cu 324.754	10029.0	9913.25	10057.8
Fe 271.441	10005.4	10000.2	9994.33
K 766.491	19985.0	20050.3	19964.7
Mg 279.078	10002.5	9992.90	10004.6
Mn 257.610	9938.18	9969.74	10092.1
Mo 202.032	999.771	1002.36	997.867
Na 330.237	14974.6	15023.0	15002.4
Ni 231.604	5005.24	4996.38	4998.38
Pb 220.353	1003.12	998.735	998.146
Sb 206.834	2000.93	1999.76	1999.31
Se 196.026	10028.7	9982.89	9988.41
Sn 189.925	9973.70	10001.4	10024.9
Sr 216.596	4997.94	5001.33	5000.73
Ti 334.941	999.438	1000.37	1000.19
Tl 190.794	9998.44	9982.09	10019.5
V 292.401	9992.39	10007.1	10000.5
Zn 206.200	5002.18	5004.36	4993.46

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	444.056	0.5	88818.0
Al 308.215	10000.0	ppb	138.999	0.6	23452.5
As 188.980	1000.00	ppb	6.290	0.9	699.864
B 249.678	1000.00	ppb	75.461	0.5	15881.6
Ba 389.178	10000.0	ppb	316.187	0.1	263116
Be 313.042	1000.00	ppb	2125.197	0.1	2179781
Ca 370.602	10000	ppb	78.361	0.2	35118
Cd 226.502	1000.00	ppb	23.455	0.0	48649.0
Co 228.615	1000.00	ppb	9.463	0.1	15587.4
Cr 267.716	10000.0	ppb	590.962	0.1	591928
Cu 324.754	10000.0	ppb	3980.841	0.8	520702
Fe 271.441	10000.0	ppb	11.502	0.1	20724.6
K 766.491	20000.0	ppb	1875.373	0.2	838573
Mg 279.078	10000.0	ppb	16.435	0.1	26358.8
Mn 257.610	10000.0	ppb	5800.560	0.8	713704
Mo 202.032	1000.00	ppb	19.485	0.2	8652.19
Na 330.237	15000.0	ppb	1.357	0.1	912.032
Ni 231.604	5000.00	ppb	16.624	0.1	17895.2
Pb 220.353	1000.00	ppb	6.186	0.3	2306.37
Sb 206.834	2000.00	ppb	1.018	0.0	2418.81
Se 196.026	10000.0	ppb	16.055	0.2	6431.24
Sn 189.925	10000.0	ppb	29.106	0.3	11346.7
Sr 216.596	5000.00	ppb	26.330	0.0	72897.9
Ti 334.941	1000.00	ppb	166.177	0.0	335676
Tl 190.794	10000.0	ppb	20.595	0.2	10973.0
V 292.401	10000.0	ppb	236.515	0.1	321463
Zn 206.200	5000.00	ppb	11.235	0.1	9748.09

Ag 328.068 Calibration (ppb)		5/16/2013, 3:40:14 PM		Correlation Coefficient: 1.000000		
Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-30.3678	0.0000	0.0000	-	-
HIGH STD		88818.0	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 88.8 x + -30.4$

Al 308.215 Calibration (ppb)		5/16/2013, 3:40:14 PM		Correlation Coefficient: 1.000000		
Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-17.2815	0.0000	0.0000	-	-
HIGH STD		23452.5	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 2.3 x + -17.3$

As 188.980 Calibration (ppb)		5/16/2013, 3:40:14 PM		Correlation Coefficient: 1.000000		
Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-11.3890	0.0000	0.0000	-	-
HIGH STD		699.864	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 0.7 x + -11.4$

B 249.678 Calibration (ppb)		5/16/2013, 3:40:14 PM		Correlation Coefficient: 1.000000		
Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		145.820	0.0000	0.0000	-	-
HIGH STD		15881.6	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 15.7 x + 145.8$

Ba 389.178 Calibration (ppb)		5/16/2013, 3:40:14 PM		Correlation Coefficient: 1.000000		
Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-28.6351	0.0000	0.0000	-	-
HIGH STD		263116	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 26.3 x + -28.6$

Be 313.042 Calibration (ppb)		5/16/2013, 3:40:14 PM		Correlation Coefficient: 1.000000		
Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-447.888	0.0000	0.0000	-	-
HIGH STD		2179781	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 2180.2 x + -447.9$

Ca 370.602 Calibration (ppb)		5/16/2013, 3:40:14 PM		Correlation Coefficient: 1.000000		
Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		12.47	0.0000	0.0000	-	-
HIGH STD		35118	10000	10000	0.0010	0.0

Curve Type: Linear Equation: $y = 3.5 x + 12.5$

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Cd 226.502 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		38.0738	0.0000	0.0000	-	-
HIGH STD		48649.0	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 48.6 x + 38.1$ **Co 228.615 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.3033	0.0000	0.0000	-	-
HIGH STD		15587.4	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 15.6 x + 4.3$ **Cr 267.716 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.9824	0.0000	0.0000	-	-
HIGH STD		591928	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 59.2 x + 5.0$ **Cu 324.754 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		296.201	0.0000	0.0000	-	-
HIGH STD		520702	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 52.0 x + 296.2$ **Fe 271.441 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		31.4808	0.0000	0.0000	-	-
HIGH STD		20724.6	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 2.1 x + 31.5$ **K 766.491 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		279.294	0.0000	0.0000	-	-
HIGH STD		838573	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 41.9 x + 279.3$ **Mg 279.078 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		35.8610	0.0000	0.0000	-	-
HIGH STD		26358.8	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 2.6 x + 35.9$

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Mn 257.610 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		137.049	0.0000	0.0000	-	-
HIGH STD		713704	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 71.4 x + 137.0$ **Mo 202.032 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		17.2957	0.0000	0.0000	-	-
HIGH STD		8652.19	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 8.6 x + 17.3$ **Na 330.237 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		74.0904	0.0000	0.0000	-	-
HIGH STD		912.032	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.1 x + 74.1$ **Ni 231.604 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.0266	0.0000	0.0000	-	-
HIGH STD		17895.2	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 3.6 x + 0.0$ **Pb 220.353 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		30.1451	0.0000	0.0000	-	-
HIGH STD		2306.37	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 2.3 x + 30.1$ **Sb 206.834 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.2018	0.0000	0.0000	-	-
HIGH STD		2418.81	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.2 x + -3.2$ **Se 196.026 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		11.1242	0.0000	0.0000	-	-
HIGH STD		6431.24	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.6 x + 11.1$

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Sn 189.925 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-16.5709	0.0000	0.0000	-	-
HIGH STD		11346.7	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 1.1 x + -16.6$ **Sr 216.596 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		18.5954	0.0000	0.0000	-	-
HIGH STD		72897.9	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation: $y = 14.6 x + 18.6$ **Ti 334.941 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-45.1331	0.0000	0.0000	-	-
HIGH STD		335676	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 335.7 x + -45.1$ **Tl 190.794 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-19.8993	0.0000	0.0000	-	-
HIGH STD		10973.0	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 1.1 x + -19.9$ **V 292.401 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-10.0977	0.0000	0.0000	-	-
HIGH STD		321463	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 32.1 x + -10.1$ **Zn 206.200 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		6.8545	0.0000	0.0000	-	-
HIGH STD		9748.09	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation: $y = 1.9 x + 6.9$ **LRA1 (Samp) 5/16/2013, 4:27:08 PM Rack S, Tube 7****Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9759	-1.6164	-0.4793
Al 308.215	-570.944u	-546.038u	-560.210u
As 188.980	23000.0x	22563.3x	22750.7x
B 249.678	5110.04x	5202.90x	5210.65x
Ba 389.178	-1.7024u	-1.5411u	-1.4164u

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Label	Replicates Concentration		
Be 313.042	0.1097	0.1394	0.1263
Ca 370.602	983.2	1023	1030
Cd 226.502	-0.5065u	-0.7160u	-0.4132u
Co 228.615	10476.2	10479.4	10481.8
Cr 267.716	-1.8689	-1.7137	-1.7701
Cu 324.754	1.0631	0.5680	0.3092
Fe 271.441	-16.1868	-8.9472	-3.2261
K 766.491	0.2065	-0.3373u	-0.1477u
Mg 279.078	42.0908u	63.8853u	58.7650u
Mn 257.610	28557.8x	28779.2x	29021.9x
Mo 202.032	0.3631	0.3540	0.0670
Na 330.237	104482x	104572x	104253x
Ni 231.604	10435.7x	10461.0x	10435.9x
Pb 220.353	21457.3x	21498.4x	21540.1x
Sb 206.834	8.3603	10.7303	9.4388
Se 196.026	0.9291	3.2123	4.1465
Sn 189.925	1.6646	2.2434	2.7173
Sr 216.596	-6.2708u	-7.7324u	-7.5740u
Ti 334.941	27381.2	27482.4	27445.5
Tl 190.794	118.413	115.896	122.378
V 292.401	-4.5395	-4.2462	-4.7459
Zn 206.200	28.9022	30.4333	29.2917

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0238b	ppb	0.5701	55.7	34.3701
Al 308.215	-559.064b	ppb	12.4926	2.2	-1329.46
As 188.980	22771.3xb	ppb	219.044	1.0	16184.8
B 249.678	5174.53xb	ppb	55.9839	1.1	81569.7
Ba 389.178	-1.5533b	ppb	0.1434	9.2	-68.6309
Be 313.042	0.1252b	ppb	0.0149	11.9	-209.371
Ca 370.602	1012b	ppb	25.20	2.5	9958
Cd 226.502	-0.5452b	ppb	0.1551	28.4	14.7435
Co 228.615	10479.1b	ppb	2.7789	0.0	164263
Cr 267.716	-1.7843b	ppb	0.0785	4.4	117.646
Cu 324.754	0.6468b	ppb	0.3831	59.2	329.831
Fe 271.441	-9.4534b	ppb	6.4951	68.7	1981.74
K 766.491	-0.0929b	ppb	0.2760	297.3	275.402
Mg 279.078	54.9137b	ppb	11.3962	20.8	-387.152
Mn 257.610	28786.3xb	ppb	232.152	0.8	2054232
Mo 202.032	0.2614b	ppb	0.1684	64.4	19.4758
Na 330.237	104436xb	ppb	164.549	0.2	5676.71
Ni 231.604	10444.2xb	ppb	14.5356	0.1	37380.1
Pb 220.353	21498.6xb	ppb	41.3793	0.2	48949.2
Sb 206.834	9.5098b	ppb	1.1866	12.5	8.3501
Se 196.026	2.7626b	ppb	1.6552	59.9	22.0138
Sn 189.925	2.2084b	ppb	0.5272	23.9	-14.0147
Sr 216.596	-7.1924b	ppb	0.8020	11.2	-325.571
Ti 334.941	27436.4b	ppb	51.2151	0.2	9210903
Tl 190.794	118.896b	ppb	3.2681	2.7	71.1520
V 292.401	-4.5105b	ppb	0.2511	5.6	350.451
Zn 206.200	29.5424b	ppb	0.7957	2.7	64.5147

LRA2 (Samp)

5/16/2013, 4:32:46 PM

Rack S, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.4683u	-0.6974u	-1.5266u
Al 308.215	890722x	874948x	848636

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Label	Replicates Concentration		
As 188.980	37.3209	40.4428	36.8708
B 249.678	44.7879u	37.6489u	31.0498u
Ba 389.178	-15.1509	-14.7468	-16.8415
Be 313.042	-0.0813	-0.0925	-0.0836
Ca 370.602	774824	768060	772733
Cd 226.502	9.4428	8.8452	8.8468
Co 228.615	9.1930	9.2134	9.6974
Cr 267.716	8.5215	8.5599	8.3469
Cu 324.754	4.5708	4.5082	3.7408
Fe 271.441	924137	925156	922234
K 766.491	410861x	412026x	411098x
Mg 279.078	822924	821314	819450
Mn 257.610	21.0904	20.2700	20.7802
Mo 202.032	3.5948u	3.6628u	4.0460u
Na 330.237	-7052.92u	-6968.12u	-7068.92u
Ni 231.604	10.4212	7.9818	7.5434
Pb 220.353	37.6337	32.7943	31.3321
Sb 206.834	1.7522	5.1963	4.6685
Se 196.026	-18.4591u	-23.2096u	-8.8974
Sn 189.925	6.4827	2.7030	-0.2383
Sr 216.596	50.3530	50.5342	50.4976
Ti 334.941	6.0609	5.9545	5.8205
Tl 190.794	-47.0771u	-52.5297u	-45.7110u
V 292.401	4.9808	4.8491	5.6869
Zn 206.200	27046.2	26955.1	26833.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2307b	ppb	0.4628	37.6	-157.904
Al 308.215	871435xb	ppb	21261.6	2.4	2045225
As 188.980	38.2115b	ppb	1.9454	5.1	26.5792
B 249.678	37.8289b	ppb	6.8708	18.2	-701.052
Ba 389.178	-15.5797b	ppb	1.1112	7.1	3486.87
Be 313.042	-0.0858b	ppb	0.0059	6.9	-315.710
Ca 370.602	771872b	ppb	3463	0.4	2627149
Cd 226.502	9.0450b	ppb	0.3446	3.8	4287.72
Co 228.615	9.3679b	ppb	0.2855	3.0	109.052
Cr 267.716	8.4761b	ppb	0.1135	1.3	783.757
Cu 324.754	4.2733b	ppb	0.4622	10.8	802.003
Fe 271.441	923842b	ppb	1483.02	0.2	1911747
K 766.491	411328xb	ppb	615.749	0.1	17240982
Mg 279.078	821229b	ppb	1738.66	0.2	2161654
Mn 257.610	20.7135b	ppb	0.4142	2.0	4466.57
Mo 202.032	3.7679b	ppb	0.2433	6.5	-5.0757
Na 330.237	-7029.99b	ppb	54.1695	0.8	-837.073
Ni 231.604	8.6488b	ppb	1.5505	17.9	57.4352
Pb 220.353	33.9200b	ppb	3.2982	9.7	127.877
Sb 206.834	3.8723b	ppb	1.8550	47.9	26.9680
Se 196.026	-16.8554b	ppb	7.2896	43.2	7.3145
Sn 189.925	2.9824b	ppb	3.3692	113.0	-12.7798
Sr 216.596	50.4616b	ppb	0.0958	0.2	1368.09
Ti 334.941	5.9453b	ppb	0.1205	2.0	6580.60
Tl 190.794	-48.4393b	ppb	3.6077	7.4	-125.128
V 292.401	5.1722b	ppb	0.4505	8.7	160.951
Zn 206.200	26944.9b	ppb	106.736	0.4	52626.0

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RINSE (Samp) 5/16/2013, 4:38:12 PM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0991	0.2559	0.0017
Al 308.215	2.7955	5.8012	7.9688
As 188.980	17.3095	15.9683	15.7087
B 249.678	24.1298	23.2646	22.2053
Ba 389.178	-0.5148u	0.1498	-0.4078u
Be 313.042	0.0424	0.0484	0.0426
Ca 370.602	-0.9780u	-1.428u	3.309
Cd 226.502	-0.1622u	-0.0698u	0.0776
Co 228.615	0.1046	0.0529	0.0971
Cr 267.716	0.1654	0.3275	0.1835
Cu 324.754	-0.3300u	-0.0702u	-0.1490u
Fe 271.441	7.1847	8.6049	14.4686
K 766.491	3.8787	4.3704	6.4134
Mg 279.078	-0.5775u	0.5636	8.4577
Mn 257.610	0.1008	0.1591	0.4118
Mo 202.032	-0.3241u	-0.2924u	0.2592
Na 330.237	-124.795u	-125.782u	-49.2934u
Ni 231.604	-0.0536u	-1.9596u	-1.4459u
Pb 220.353	-0.8821u	0.4976	0.5391
Sb 206.834	-4.5918u	0.6124	0.5881
Se 196.026	1.6172	-4.4172u	4.8681
Sn 189.925	-1.1276u	-1.0863u	1.3731
Sr 216.596	0.4089	0.3051	-0.0985u
Ti 334.941	0.6061	0.5408	0.5746
Tl 190.794	1.2857	0.5032	0.9099
V 292.401	-0.1826u	0.3514	0.0782
Zn 206.200	-0.7377u	0.1287	0.0754

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1189	ppb	0.1283	107.9	-19.8259
Al 308.215	5.5218	ppb	2.5979	47.0	-4.3316
As 188.980	16.3289	ppb	0.8591	5.3	0.2251
B 249.678	23.1999	ppb	0.9639	4.2	510.872
Ba 389.178	-0.2576	ppb	0.3568	138.5	-35.3890
Be 313.042	0.0445	ppb	0.0034	7.7	-350.932
Ca 370.602	0.3009	ppb	2.615	868.9	12.75
Cd 226.502	-0.0515	ppb	0.1209	235.0	35.6143
Co 228.615	0.0849	ppb	0.0279	32.9	5.6542
Cr 267.716	0.2254	ppb	0.0888	39.4	18.3299
Cu 324.754	-0.1831	ppb	0.1332	72.7	286.671
Fe 271.441	10.0861	ppb	3.8612	38.3	52.3707
K 766.491	4.8875	ppb	1.3441	27.5	484.153
Mg 279.078	2.8146	ppb	4.9203	174.8	43.2680
Mn 257.610	0.2239	ppb	0.1653	73.8	153.042
Mo 202.032	-0.1191	ppb	0.3280	275.4	16.2663
Na 330.237	-99.9570	ppb	43.8787	43.9	68.5004
Ni 231.604	-1.1530	ppb	0.9862	85.5	-4.0998
Pb 220.353	0.0515	ppb	0.8088	1569.3	30.2623
Sb 206.834	-1.1304	ppb	2.9976	265.2	-4.5643
Se 196.026	0.6893	ppb	4.7117	683.5	11.5669
Sn 189.925	-0.2803	ppb	1.4320	510.9	-16.8894
Sr 216.596	0.2052	ppb	0.2681	130.6	21.6128
Ti 334.941	0.5738	ppb	0.0326	5.7	147.535
Tl 190.794	0.8996	ppb	0.3914	43.5	-18.9110
V 292.401	0.0823	ppb	0.2670	324.3	-7.4182
Zn 206.200	-0.1779	ppb	0.4856	273.0	6.5084

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mb 680-276620/1-a (Samp) **5/16/2013, 4:54:23 PM** **Rack 1, Tube 15**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2804	0.0522	0.1448
Al 308.215	1.9440	-1.1651u	1.8645
As 188.980	4.0320	2.7635	4.0243
B 249.678	6.1387	6.2305	5.1264
Ba 389.178	-0.5235u	-0.2418u	-0.5805u
Be 313.042	0.0067	0.0033	0.0067
Ca 370.602	-1.161u	-2.679u	-0.4990u
Cd 226.502	-0.0007u	-0.0443u	-0.1358u
Co 228.615	-0.0284u	0.3860	-0.1308u
Cr 267.716	0.1014	0.1422	0.1321
Cu 324.754	0.0195	0.3161	0.0286
Fe 271.441	6.1390	-2.8720u	4.3071
K 766.491	2.5754	2.3645	2.6324
Mg 279.078	0.6966	-0.7510u	1.7698
Mn 257.610	-0.1262u	0.1478	0.0645
Mo 202.032	-0.2692u	0.3036	-0.0665u
Na 330.237	-97.3734u	-72.5434u	1.9530
Ni 231.604	-0.3643u	-1.6843u	-1.8792u
Pb 220.353	-0.8188u	3.5827	-0.2602u
Sb 206.834	3.3524	3.0230	7.5350
Se 196.026	0.3860	2.8889	1.5803
Sn 189.925	1.3267	-0.8754u	0.0260
Sr 216.596	0.1063	0.4424	0.6815
Ti 334.941	0.0862	0.1291	0.0277
Tl 190.794	-2.1655u	-2.0860u	2.9598
V 292.401	-0.1733u	-0.1850u	0.3365
Zn 206.200	0.3409	-0.9225u	-0.7056u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1591	ppb	0.1148	72.1	-16.2547
Al 308.215	0.8811	ppb	1.7725	201.2	-15.2194
As 188.980	3.6066	ppb	0.7302	20.2	-8.8237
B 249.678	5.8318	ppb	0.6127	10.5	237.586
Ba 389.178	-0.4486	ppb	0.1813	40.4	-40.4357
Be 313.042	0.0055	ppb	0.0019	35.1	-435.783
Ca 370.602	-1.446	ppb	1.118	77.3	7.268
Cd 226.502	-0.0603	ppb	0.0689	114.4	35.1509
Co 228.615	0.0756	ppb	0.2737	362.0	5.4892
Cr 267.716	0.1252	ppb	0.0212	17.0	12.3978
Cu 324.754	0.1214	ppb	0.1687	138.9	302.516
Fe 271.441	2.5247	ppb	4.7626	188.6	36.7200
K 766.491	2.5241	ppb	0.1411	5.6	385.090
Mg 279.078	0.5718	ppb	1.2650	221.2	37.3645
Mn 257.610	0.0287	ppb	0.1405	489.9	139.099
Mo 202.032	-0.0107	ppb	0.2905	2714.8	17.2032
Na 330.237	-55.9880	ppb	51.6913	92.3	70.9655
Ni 231.604	-1.3093	ppb	0.8241	62.9	-4.6592
Pb 220.353	0.8346	ppb	2.3963	287.1	32.0449
Sb 206.834	4.6368	ppb	2.5153	54.2	2.4171
Se 196.026	1.6184	ppb	1.2519	77.4	12.1632
Sn 189.925	0.1591	ppb	1.1070	695.7	-16.3900
Sr 216.596	0.4101	ppb	0.2890	70.5	24.5958
Ti 334.941	0.0810	ppb	0.0509	62.9	-17.9421
Tl 190.794	-0.4306	ppb	2.9364	682.0	-20.3727
V 292.401	-0.0073	ppb	0.2978	4079.3	-10.3160
Zn 206.200	-0.4290	ppb	0.6756	157.5	46.0183

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ics 680-276620/2-a (Samp) 5/16/2013, 4:59:47 PM Rack 1, Tube 16
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.3043	49.7283	49.0704
Al 308.215	4942.59	4990.82	4975.83
As 188.980	120.558	114.817	115.975
B 249.678	197.973	199.351	199.177
Ba 389.178	100.065	99.3303	99.7201
Be 313.042	50.8040	50.9292	50.7019
Ca 370.602	4898	4909	4889
Cd 226.502	50.8471	51.0900	50.8401
Co 228.615	50.9204	51.6357	51.0464
Cr 267.716	102.584	102.563	101.842
Cu 324.754	104.386	101.849	101.309
Fe 271.441	4932.86	4951.47	4925.92
K 766.491	5023.70	5013.16	5005.81
Mg 279.078	4983.49	4991.04	4969.05
Mn 257.610	518.424	513.509	511.868
Mo 202.032	104.056	104.850	104.900
Na 330.237	4903.02	4600.15	4888.06
Ni 231.604	97.9612	99.0670	100.314
Pb 220.353	49.7621	52.7209	51.0994
Sb 206.834	56.3079	51.5120	51.8981
Se 196.026	96.2208	103.452	98.1455
Sn 189.925	201.460	199.320	197.299
Sr 216.596	101.227	101.266	100.361
Ti 334.941	98.1260	98.3203	97.9145
Tl 190.794	42.9824	41.0045	41.5144
V 292.401	100.279	100.945	100.563
Zn 206.200	99.6201	101.430	100.657

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.7010	ppb	0.6174	1.2	4383.58
Al 308.215	4969.75	ppb	24.6832	0.5	11651.5
As 188.980	117.117	ppb	3.0363	2.6	71.9447
B 249.678	198.834	ppb	0.7508	0.4	3266.92
Ba 389.178	99.7051	ppb	0.3675	0.4	2618.63
Be 313.042	50.8117	ppb	0.1138	0.2	110311
Ca 370.602	4899	ppb	9.943	0.2	16806
Cd 226.502	50.9257	ppb	0.1424	0.3	2533.95
Co 228.615	51.2008	ppb	0.3819	0.7	800.934
Cr 267.716	102.330	ppb	0.4222	0.4	6064.92
Cu 324.754	102.515	ppb	1.6431	1.6	5634.57
Fe 271.441	4936.75	ppb	13.2097	0.3	10258.0
K 766.491	5014.22	ppb	8.9940	0.2	210449
Mg 279.078	4981.19	ppb	11.1729	0.2	13136.8
Mn 257.610	514.600	ppb	3.4114	0.7	36873.9
Mo 202.032	104.602	ppb	0.4737	0.5	920.004
Na 330.237	4797.07	ppb	170.706	3.6	338.826
Ni 231.604	99.1140	ppb	1.1769	1.2	354.900
Pb 220.353	51.1941	ppb	1.4817	2.9	146.662
Sb 206.834	53.2393	ppb	2.6645	5.0	61.4377
Se 196.026	99.2729	ppb	3.7452	3.8	75.0630
Sn 189.925	199.360	ppb	2.0805	1.0	209.972
Sr 216.596	100.951	ppb	0.5115	0.5	1486.04
Ti 334.941	98.1203	ppb	0.2030	0.2	32923.4
Tl 190.794	41.8338	ppb	1.0269	2.5	25.0073
V 292.401	100.596	ppb	0.3342	0.3	3194.31
Zn 206.200	100.569	ppb	0.9983	0.9	203.059

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680-90205-g-1-a (Samp) 5/16/2013, 5:05:11 PM Rack 1, Tube 17
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2616u	-0.4090u	0.2753
Al 308.215	15.1742	26.3681	26.0761
As 188.980	8.5652	-0.5885	6.9302
B 249.678	446.940	447.688	449.399
Ba 389.178	124.061	123.290	123.226
Be 313.042	0.0422	0.0424	0.0462
Ca 370.602	102987	102869	102353
Cd 226.502	-0.0893	-0.2520u	-0.1192
Co 228.615	1.8903	1.8259	1.5395
Cr 267.716	-0.0451	0.0326	0.1222
Cu 324.754	21.1990	21.1145	21.3540
Fe 271.441	2811.27	2821.72	2805.11
K 766.491	6340.68	6345.38	6344.48
Mg 279.078	23745.9	23685.7	23591.4
Mn 257.610	874.293	875.567	882.378
Mo 202.032	0.5391	0.4114	0.1684
Na 330.237	74070.2	73719.2	73742.0
Ni 231.604	4.5013	5.3938	5.3534
Pb 220.353	3.6642	2.1120	-0.4275u
Sb 206.834	3.0701	2.0576	-1.0532u
Se 196.026	4.8674	0.8499	2.8672
Sn 189.925	-0.0966u	1.9666	0.2660
Sr 216.596	492.563	491.810	490.611
Ti 334.941	0.5952	0.5903	0.5263
Tl 190.794	2.8586	1.3883u	2.3591
V 292.401	0.1305	0.3241	0.0976
Zn 206.200	47.5156	47.3936	47.2972

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1318	ppb	0.3602	273.3	-64.2476
Al 308.215	22.5395	ppb	6.3802	28.3	35.6405
As 188.980	4.9690	ppb	4.8818	98.2	-6.8416
B 249.678	448.009	ppb	1.2603	0.3	7191.22
Ba 389.178	123.526	ppb	0.4644	0.4	3296.87
Be 313.042	0.0436	ppb	0.0023	5.2	-322.933
Ca 370.602	102736	ppb	336.8	0.3	360446
Cd 226.502	-0.1535	ppb	0.0866	56.4	42.0271
Co 228.615	1.7519	ppb	0.1867	10.7	31.4916
Cr 267.716	0.0365	ppb	0.0837	229.1	14.2289
Cu 324.754	21.2225	ppb	0.1215	0.6	1401.50
Fe 271.441	2812.70	ppb	8.3980	0.3	5852.15
K 766.491	6343.51	ppb	2.4953	0.0	266166
Mg 279.078	23674.4	ppb	77.8701	0.3	62336.7
Mn 257.610	877.413	ppb	4.3472	0.5	62808.7
Mo 202.032	0.3730	ppb	0.1883	50.5	20.3488
Na 330.237	73843.8	ppb	196.406	0.3	4197.90
Ni 231.604	5.0828	ppb	0.5040	9.9	18.2974
Pb 220.353	1.7829	ppb	2.0656	115.9	34.4627
Sb 206.834	1.3581	ppb	2.1488	158.2	-1.4847
Se 196.026	2.8615	ppb	2.0088	70.2	13.2657
Sn 189.925	0.7120	ppb	1.1015	154.7	-15.6679
Sr 216.596	491.661	ppb	0.9848	0.2	7200.61
Ti 334.941	0.5706	ppb	0.0385	6.7	268.600
Tl 190.794	2.2020	ppb	0.7477	34.0	-19.0569
V 292.401	0.1841	ppb	0.1224	66.5	-4.6047
Zn 206.200	47.4021	ppb	0.1994	0.2	99.5816

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680-90201-a-15-a (Samp) **5/16/2013, 5:10:47 PM** **Rack 1, Tube 18****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0201u	0.1630	0.0935
Al 308.215	7.9638	12.3411	2.4408
As 188.980	0.6406	0.1480	-0.2092
B 249.678	11.3464	10.6312	11.5474
Ba 389.178	23.1158	22.5606	23.0556
Be 313.042	0.0182	0.0144	0.0162
Ca 370.602	17753	17709	17791
Cd 226.502	-0.2785u	-0.1656u	-0.0777u
Co 228.615	0.1516	0.3634	-0.1199u
Cr 267.716	0.9701	0.7217	0.7596
Cu 324.754	0.7114	0.9696	1.0406
Fe 271.441	3.1021	6.9302	5.4435
K 766.491	4450.88	4469.24	4467.81
Mg 279.078	6064.53	6034.52	6058.82
Mn 257.610	4.7401	4.5914	4.6628
Mo 202.032	2.5344	2.3472	3.0375
Na 330.237	10573.4	10622.4	10690.4
Ni 231.604	-0.0159u	-0.6055u	-1.4592u
Pb 220.353	0.6033	-0.3556u	-0.5814u
Sb 206.834	2.4351	-1.8269u	0.7440
Se 196.026	2.9395	-0.2440u	3.4647
Sn 189.925	0.7017	-0.2186u	-1.0663u
Sr 216.596	59.2988	58.2681	58.7900
Ti 334.941	0.0438	0.0188	0.0770
Tl 190.794	-2.9466u	2.2543	-0.9548u
V 292.401	5.7647	5.9895	5.7682
Zn 206.200	2.9190	3.7350	3.8191

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0922	ppb	0.0714	77.5	-25.3916
Al 308.215	7.5819	ppb	4.9612	65.4	0.6074
As 188.980	0.1931	ppb	0.4267	220.9	-11.0796
B 249.678	11.1750	ppb	0.4816	4.3	321.668
Ba 389.178	22.9107	ppb	0.3047	1.3	592.293
Be 313.042	0.0163	ppb	0.0019	11.8	-407.846
Ca 370.602	17751	ppb	41.00	0.2	62326
Cd 226.502	-0.1739	ppb	0.1007	57.9	29.6731
Co 228.615	0.1317	ppb	0.2423	184.0	6.2536
Cr 267.716	0.8171	ppb	0.1338	16.4	53.5402
Cu 324.754	0.9072	ppb	0.1732	19.1	343.425
Fe 271.441	5.1586	ppb	1.9299	37.4	42.2377
K 766.491	4462.64	ppb	10.2121	0.2	187330
Mg 279.078	6052.62	ppb	15.9401	0.3	15968.1
Mn 257.610	4.6648	ppb	0.0744	1.6	485.231
Mo 202.032	2.6397	ppb	0.3570	13.5	40.0760
Na 330.237	10628.7	ppb	58.7336	0.6	667.810
Ni 231.604	-0.6935	ppb	0.7257	104.6	-2.4553
Pb 220.353	-0.1112	ppb	0.6291	565.5	29.8887
Sb 206.834	0.4507	ppb	2.1461	476.1	-2.6872
Se 196.026	2.0534	ppb	2.0069	97.7	12.4441
Sn 189.925	-0.1944	ppb	0.8843	454.9	-16.7765
Sr 216.596	58.7856	ppb	0.5154	0.9	877.776
Ti 334.941	0.0466	ppb	0.0292	62.7	2.3465
Tl 190.794	-0.5490	ppb	2.6241	478.0	-20.5090
V 292.401	5.8408	ppb	0.1288	2.2	177.021
Zn 206.200	3.4910	ppb	0.4972	14.2	13.6537

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680-90201-a-17-a (Samp) 5/16/2013, 5:16:13 PM Rack 1, Tube 19
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1665u	-0.2675u	0.1243
Al 308.215	22.1178	25.0841	18.9585
As 188.980	4.9424	5.5799	-2.2425u
B 249.678	12.7305	12.2714	12.4062
Ba 389.178	23.2378	24.1347	24.4929
Be 313.042	0.0182	0.0178	0.0198
Ca 370.602	12160	12187	12171
Cd 226.502	-0.1745u	-0.0586u	-0.0273u
Co 228.615	4.7961	4.7507	4.4796
Cr 267.716	0.2251	0.3533	0.1698
Cu 324.754	0.8196	1.0711	1.1650
Fe 271.441	102.528	98.9743	100.966
K 766.491	4764.41	4768.73	4760.77
Mg 279.078	4238.78	4244.95	4237.28
Mn 257.610	377.910	377.815	376.339
Mo 202.032	11.5976	12.3849	12.2771
Na 330.237	22405.0	22347.2	22465.2
Ni 231.604	0.0900	-1.2866u	-0.7079u
Pb 220.353	0.8990	0.7759	0.1980
Sb 206.834	1.9563	2.8572	-0.8101u
Se 196.026	3.5508	1.3105	0.6369
Sn 189.925	0.1289	0.4172	-0.8590u
Sr 216.596	42.6356	41.9391	42.0377
Ti 334.941	0.0913	0.0935	0.0884
Tl 190.794	2.3617	3.5750	0.7466
V 292.401	1.7511	1.7668	1.9244
Zn 206.200	6.9419	5.6107	7.3386

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1032	ppb	0.2034	197.1	-39.8268
Al 308.215	22.0535	ppb	3.0633	13.9	35.1117
As 188.980	2.7599	ppb	4.3440	157.4	-9.3108
B 249.678	12.4694	ppb	0.2360	1.9	341.889
Ba 389.178	23.9551	ppb	0.6465	2.7	614.573
Be 313.042	0.0186	ppb	0.0010	5.4	-408.158
Ca 370.602	12173	ppb	13.88	0.1	42748
Cd 226.502	-0.0868	ppb	0.0775	89.3	34.1833
Co 228.615	4.6755	ppb	0.1711	3.7	76.6271
Cr 267.716	0.2494	ppb	0.0942	37.8	22.2628
Cu 324.754	1.0185	ppb	0.1786	17.5	349.562
Fe 271.441	100.823	ppb	1.7811	1.8	241.017
K 766.491	4764.64	ppb	3.9858	0.1	199988
Mg 279.078	4240.34	ppb	4.0637	0.1	11190.1
Mn 257.610	377.354	ppb	0.8809	0.2	27074.6
Mo 202.032	12.0865	ppb	0.4269	3.5	121.652
Na 330.237	22405.8	ppb	58.9973	0.3	1325.65
Ni 231.604	-0.6348	ppb	0.6912	108.9	-2.2426
Pb 220.353	0.6243	ppb	0.3743	60.0	31.6554
Sb 206.834	1.3344	ppb	1.9111	143.2	-1.7761
Se 196.026	1.8327	ppb	1.5255	83.2	12.4240
Sn 189.925	-0.1043	ppb	0.6693	641.6	-16.6719
Sr 216.596	42.2041	ppb	0.3769	0.9	634.896
Ti 334.941	0.0910	ppb	0.0025	2.8	6.3899
Tl 190.794	2.2278	ppb	1.4189	63.7	-18.0725
V 292.401	1.8141	ppb	0.0958	5.3	45.3170
Zn 206.200	6.6304	ppb	0.9951	13.7	19.7847

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680-90201-a-17-b ms (Samp) 5/16/2013, 5:21:38 PM Rack 1, Tube 20
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	52.4273	51.1240	51.0417
Al 308.215	5024.72	5018.64	5022.11
As 188.980	112.841	114.362	111.424
B 249.678	204.344	205.260	206.839
Ba 389.178	125.874	124.471	124.249
Be 313.042	50.9792	50.7169	50.7000
Ca 370.602	17494	17433	17423
Cd 226.502	51.1052	50.7977	50.9803
Co 228.615	56.1720	55.8078	55.9775
Cr 267.716	103.568	103.114	103.067
Cu 324.754	106.480	106.003	106.342
Fe 271.441	5068.14	5052.12	5057.73
K 766.491	10409.1	10349.3	10344.3
Mg 279.078	9398.84	9370.78	9383.92
Mn 257.610	918.064	910.524	907.001
Mo 202.032	116.896	116.601	116.711
Na 330.237	28312.8	28250.5	28436.3
Ni 231.604	103.034	101.247	100.590
Pb 220.353	54.9270	50.9855	51.4131
Sb 206.834	54.0433	51.2842	56.7383
Se 196.026	110.270	106.491	104.836
Sn 189.925	201.260	201.800	201.361
Sr 216.596	145.136	143.008	145.144
Ti 334.941	99.2440	98.5573	98.4452
Tl 190.794	40.9811	43.5626	41.9170
V 292.401	103.936	102.920	103.036
Zn 206.200	107.361	108.408	109.969

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.5310	ppb	0.7773	1.5	4545.89
Al 308.215	5021.82	ppb	3.0476	0.1	11774.4
As 188.980	112.876	ppb	1.4694	1.3	69.0476
B 249.678	205.481	ppb	1.2619	0.6	3371.34
Ba 389.178	124.865	ppb	0.8814	0.7	3294.09
Be 313.042	50.7987	ppb	0.1565	0.3	110282
Ca 370.602	17450	ppb	38.29	0.2	60868
Cd 226.502	50.9610	ppb	0.1547	0.3	2536.10
Co 228.615	55.9858	ppb	0.1822	0.3	874.961
Cr 267.716	103.249	ppb	0.2767	0.3	6121.97
Cu 324.754	106.275	ppb	0.2455	0.2	5830.64
Fe 271.441	5059.33	ppb	8.1315	0.2	10512.6
K 766.491	10367.6	ppb	36.0409	0.3	434832
Mg 279.078	9384.52	ppb	14.0401	0.1	24719.7
Mn 257.610	911.863	ppb	5.6516	0.6	65232.5
Mo 202.032	116.736	ppb	0.1493	0.1	1024.77
Na 330.237	28333.2	ppb	94.5705	0.3	1653.51
Ni 231.604	101.624	ppb	1.2644	1.2	363.887
Pb 220.353	52.4419	ppb	2.1628	4.1	149.596
Sb 206.834	54.0219	ppb	2.7271	5.0	62.1964
Se 196.026	107.199	ppb	2.7856	2.6	80.2800
Sn 189.925	201.474	ppb	0.2875	0.1	212.392
Sr 216.596	144.429	ppb	1.2310	0.9	2120.93
Ti 334.941	98.7488	ppb	0.4325	0.4	33156.2
Tl 190.794	42.1536	ppb	1.3069	3.1	24.7109
V 292.401	103.298	ppb	0.5561	0.5	3278.10
Zn 206.200	108.580	ppb	1.3122	1.2	218.678

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90201-a-17-c msd (Samp) 5/16/2013, 5:27:03 PM Rack 1, Tube 21
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.8524	51.5561	51.1322
Al 308.215	5044.87	5008.85	5004.83
As 188.980	115.051	119.180	118.647
B 249.678	205.817	206.578	207.689
Ba 389.178	123.913	123.984	123.181
Be 313.042	51.1935	51.0788	51.0970
Ca 370.602	16995	16942	16944
Cd 226.502	50.5773	50.7176	50.5199
Co 228.615	55.9591	54.9807	55.2926
Cr 267.716	102.929	102.690	102.991
Cu 324.754	105.674	107.074	105.092
Fe 271.441	5053.78	5032.26	5042.37
K 766.491	10115.4	10092.6	10116.8
Mg 279.078	9215.59	9168.16	9171.83
Mn 257.610	892.297	893.256	896.315
Mo 202.032	116.397	117.250	116.217
Na 330.237	27682.8	27479.7	27688.0
Ni 231.604	100.343	99.8491	101.689
Pb 220.353	49.7999	51.6662	53.9177
Sb 206.834	48.9389	57.4900	53.3354
Se 196.026	96.9028	101.758	95.5792
Sn 189.925	203.361	200.703	197.730
Sr 216.596	142.753	142.503	142.561
Ti 334.941	98.7179	98.3763	98.6540
Tl 190.794	42.6089	41.5051	41.3620
V 292.401	103.373	103.123	103.045
Zn 206.200	107.460	109.205	107.140

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.5136	ppb	0.3620	0.7	4544.36
Al 308.215	5019.52	ppb	22.0483	0.4	11769.0
As 188.980	117.626	ppb	2.2459	1.9	72.4216
B 249.678	206.694	ppb	0.9414	0.5	3390.46
Ba 389.178	123.692	ppb	0.4443	0.4	3262.62
Be 313.042	51.1231	ppb	0.0616	0.1	110989
Ca 370.602	16960	ppb	30.01	0.2	59149
Cd 226.502	50.6049	ppb	0.1017	0.2	2518.71
Co 228.615	55.4108	ppb	0.4998	0.9	866.003
Cr 267.716	102.870	ppb	0.1586	0.2	6099.42
Cu 324.754	105.947	ppb	1.0184	1.0	5813.53
Fe 271.441	5042.81	ppb	10.7643	0.2	10478.3
K 766.491	10108.3	ppb	13.5533	0.1	423964
Mg 279.078	9185.19	ppb	26.3852	0.3	24195.3
Mn 257.610	893.956	ppb	2.0981	0.2	63954.2
Mo 202.032	116.621	ppb	0.5519	0.5	1023.78
Na 330.237	27616.8	ppb	118.766	0.4	1613.50
Ni 231.604	100.627	ppb	0.9520	0.9	360.319
Pb 220.353	51.7946	ppb	2.0619	4.0	148.118
Sb 206.834	53.2548	ppb	4.2761	8.0	61.2678
Se 196.026	98.0799	ppb	3.2531	3.3	74.4197
Sn 189.925	200.598	ppb	2.8169	1.4	211.397
Sr 216.596	142.606	ppb	0.1310	0.1	2094.29
Ti 334.941	98.5827	ppb	0.1816	0.2	33099.4
Tl 190.794	41.8253	ppb	0.6823	1.6	24.3784
V 292.401	103.180	ppb	0.1712	0.2	3274.40
Zn 206.200	107.935	ppb	1.1142	1.0	417.421

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mb 680-276612/1-a (Samp) 5/16/2013, 5:32:29 PM Rack 1, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2077	-0.2905u	0.0743
Al 308.215	2.1765	6.3810	8.6642
As 188.980	1.2150	0.8185	3.3892
B 249.678	6.6081	6.8651	6.1208
Ba 389.178	-0.3718u	-0.3524u	-0.0926u
Be 313.042	0.0152	0.0163	0.0196
Ca 370.602	6.356	8.857	9.813
Cd 226.502	-0.2265u	-0.0246u	-0.1070u
Co 228.615	0.2748	0.0162	0.2024
Cr 267.716	0.1515	0.2296	0.1496
Cu 324.754	0.2159	0.1264	0.6830
Fe 271.441	4.6027	7.9156	3.4287
K 766.491	3.0315	2.1978	2.2493
Mg 279.078	6.7140	6.5676	4.0850
Mn 257.610	0.2204	0.2115	0.1929
Mo 202.032	-0.1183u	0.1057	-0.0925u
Na 330.237	5.9552	-7.7599u	-127.336u
Ni 231.604	-0.5260u	-0.5016u	-0.2330u
Pb 220.353	0.2376	0.3684	-0.5676u
Sb 206.834	3.1927	2.5830	2.1113
Se 196.026	0.3480	4.3502	0.6007
Sn 189.925	-0.9558u	-0.0401u	-1.3379u
Sr 216.596	0.0867	0.5483	0.5675
Ti 334.941	0.0786	0.0787	0.0538
Tl 190.794	3.4430	1.5307	1.5458
V 292.401	-0.0800u	-0.3503u	-0.2738u
Zn 206.200	6.1016	6.2594	5.2443

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0028	ppb	0.2579	9103.4	-30.6479
Al 308.215	5.7406	ppb	3.2909	57.3	-3.8004
As 188.980	1.8076	ppb	1.3840	76.6	-10.1032
B 249.678	6.5314	ppb	0.3780	5.8	248.589
Ba 389.178	-0.2723	ppb	0.1559	57.3	-35.7738
Be 313.042	0.0170	ppb	0.0023	13.7	-410.790
Ca 370.602	8.342	ppb	1.785	21.4	41.37
Cd 226.502	-0.1194	ppb	0.1015	85.0	32.2890
Co 228.615	0.1645	ppb	0.1334	81.1	6.8642
Cr 267.716	0.1769	ppb	0.0456	25.8	15.4600
Cu 324.754	0.3418	ppb	0.2989	87.5	313.993
Fe 271.441	5.3157	ppb	2.3269	43.8	42.5096
K 766.491	2.4928	ppb	0.4672	18.7	383.781
Mg 279.078	5.7888	ppb	1.4774	25.5	51.0946
Mn 257.610	0.2082	ppb	0.0140	6.7	151.928
Mo 202.032	-0.0350	ppb	0.1226	350.0	16.9936
Na 330.237	-43.0469	ppb	73.3179	170.3	71.6362
Ni 231.604	-0.4202	ppb	0.1626	38.7	-1.4772
Pb 220.353	0.0128	ppb	0.5069	3958.0	30.1740
Sb 206.834	2.6290	ppb	0.5421	20.6	-0.0173
Se 196.026	1.7663	ppb	2.2413	126.9	12.2583
Sn 189.925	-0.7779	ppb	0.6670	85.7	-17.4549
Sr 216.596	0.4008	ppb	0.2722	67.9	24.4342
Ti 334.941	0.0704	ppb	0.0144	20.4	-21.4746
Tl 190.794	2.1732	ppb	1.0998	50.6	-17.5110
V 292.401	-0.2347	ppb	0.1393	59.4	-17.6821
Zn 206.200	5.8684	ppb	0.5462	9.3	48.2876

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ics 680-276612/2-a (Samp) 5/16/2013, 5:37:55 PM Rack 1, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	49.5065	49.8342	50.3878
Al 308.215	4884.35	4915.15	4940.10
As 188.980	113.845	106.980	114.476
B 249.678	194.470	195.792	197.586
Ba 389.178	98.2060	98.5814	98.9551
Be 313.042	50.5381	50.6351	50.7952
Ca 370.602	4870	4881	4894
Cd 226.502	50.4581	50.5870	50.9386
Co 228.615	51.2402	50.8101	50.9267
Cr 267.716	102.171	101.823	102.360
Cu 324.754	102.926	102.630	102.531
Fe 271.441	4899.26	4908.58	4930.15
K 766.491	4968.40	4982.61	4984.86
Mg 279.078	4933.09	4941.61	4952.81
Mn 257.610	519.954	514.933	515.638
Mo 202.032	104.027	105.087	103.294
Na 330.237	4906.08	4835.29	4981.00
Ni 231.604	98.7858	98.5626	99.9262
Pb 220.353	49.8936	53.1827	51.3285
Sb 206.834	48.0949	49.5146	49.8244
Se 196.026	101.307	94.1951	99.3993
Sn 189.925	194.070	195.695	199.940
Sr 216.596	99.7637	100.828	100.508
Ti 334.941	97.9170	97.9608	98.2021
Tl 190.794	40.0174	41.8514	39.3609
V 292.401	100.434	100.699	100.521
Zn 206.200	103.449	101.721	102.030

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.9095	ppb	0.4455	0.9	4402.11
Al 308.215	4913.20	ppb	27.9248	0.6	11518.8
As 188.980	111.767	ppb	4.1580	3.7	68.1395
B 249.678	195.949	ppb	1.5639	0.8	3221.58
Ba 389.178	98.5809	ppb	0.3746	0.4	2588.89
Be 313.042	50.6562	ppb	0.1298	0.3	109972
Ca 370.602	4882	ppb	11.95	0.2	16748
Cd 226.502	50.6613	ppb	0.2487	0.5	2520.98
Co 228.615	50.9923	ppb	0.2224	0.4	797.687
Cr 267.716	102.118	ppb	0.2725	0.3	6052.36
Cu 324.754	102.696	ppb	0.2058	0.2	5643.99
Fe 271.441	4912.66	ppb	15.8421	0.3	10208.1
K 766.491	4978.62	ppb	8.9269	0.2	208957
Mg 279.078	4942.50	ppb	9.8899	0.2	13034.9
Mn 257.610	516.842	ppb	2.7184	0.5	37033.7
Mo 202.032	104.136	ppb	0.9013	0.9	915.986
Na 330.237	4907.46	ppb	72.8686	1.5	344.986
Ni 231.604	99.0915	ppb	0.7314	0.7	354.819
Pb 220.353	51.4682	ppb	1.6490	3.2	147.285
Sb 206.834	49.1446	ppb	0.9222	1.9	56.4750
Se 196.026	98.3006	ppb	3.6813	3.7	74.4380
Sn 189.925	196.568	ppb	3.0308	1.5	206.800
Sr 216.596	100.367	ppb	0.5462	0.5	1477.51
Ti 334.941	98.0266	ppb	0.1536	0.2	32891.8
Tl 190.794	40.4099	ppb	1.2908	3.2	23.4463
V 292.401	100.551	ppb	0.1350	0.1	3192.90
Zn 206.200	102.400	ppb	0.9214	0.9	206.623

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680-90102-d-1-a (Samp) 5/16/2013, 5:43:21 PM Rack 1, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1750u	-0.0993u	-0.0923u
Al 308.215	9.4948	7.8285	6.3186
As 188.980	-0.2359	-0.1374	-0.3737
B 249.678	50.1990	48.9709	49.9714
Ba 389.178	39.5090	39.7650	39.9479
Be 313.042	-0.0071u	-0.0008	-0.0047
Ca 370.602	52173	52169	52103
Cd 226.502	-0.0575u	0.0328	0.1158
Co 228.615	0.4893	0.5048	0.0512
Cr 267.716	0.2589	0.0180	0.1656
Cu 324.754	2.1079	2.4259	2.4387
Fe 271.441	194.729	192.530	184.107
K 766.491	3214.27	3214.93	3212.07
Mg 279.078	7001.03	7004.91	7011.20
Mn 257.610	155.799	156.206	157.069
Mo 202.032	4.6259	4.1449	4.6834
Na 330.237	52580.6	52415.3	52291.4
Ni 231.604	27.3017	27.6133	29.6725
Pb 220.353	3.0165	1.8312	1.1821
Sb 206.834	-2.8608u	1.7995	-3.0368u
Se 196.026	0.1179	-1.5654u	6.7079
Sn 189.925	-2.6652u	0.6984	0.1548
Sr 216.596	465.607	467.119	467.591
Ti 334.941	0.1294	0.0455	0.0556
Tl 190.794	1.3588	0.3507	-0.9946u
V 292.401	-0.2832u	0.0476	0.0597
Zn 206.200	12.5338	13.5189	11.8872

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0055	ppb	0.1563	2832.5	-55.1362
Al 308.215	7.8806	ppb	1.5887	20.2	1.4489
As 188.980	-0.2490	ppb	0.1187	47.7	-11.0579
B 249.678	49.7138	ppb	0.6534	1.3	927.816
Ba 389.178	39.7406	ppb	0.2205	0.6	1038.31
Be 313.042	-0.0042	ppb	0.0032	76.2	-444.160
Ca 370.602	52149	ppb	39.18	0.1	183068
Cd 226.502	0.0304	ppb	0.0866	285.2	40.0784
Co 228.615	0.3484	ppb	0.2575	73.9	9.5384
Cr 267.716	0.1475	ppb	0.1215	82.3	15.7249
Cu 324.754	2.3242	ppb	0.1874	8.1	417.335
Fe 271.441	190.455	ppb	5.6070	2.9	425.665
K 766.491	3213.76	ppb	1.4967	0.0	134983
Mg 279.078	7005.71	ppb	5.1285	0.1	18473.8
Mn 257.610	156.358	ppb	0.6486	0.4	11312.2
Mo 202.032	4.4848	ppb	0.2957	6.6	56.0099
Na 330.237	52429.1	ppb	145.046	0.3	3002.76
Ni 231.604	28.1959	ppb	1.2883	4.6	100.946
Pb 220.353	2.0099	ppb	0.9302	46.3	34.7589
Sb 206.834	-1.3660	ppb	2.7428	200.8	-4.9202
Se 196.026	1.7535	ppb	4.3725	249.4	12.3021
Sn 189.925	-0.6040	ppb	1.8056	298.9	-17.2026
Sr 216.596	466.772	ppb	1.0368	0.2	6828.66
Ti 334.941	0.0768	ppb	0.0458	59.6	13.9596
Tl 190.794	0.2383	ppb	1.1808	495.5	-19.9045
V 292.401	-0.0586	ppb	0.1946	332.0	-13.3581
Zn 206.200	12.6466	ppb	0.8217	6.5	31.5181

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680-90102-d-1-a (Samp) 5/16/2013, 5:59:33 PM Rack 1, Tube 27
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2259	0.1869	0.1798
Al 308.215	3.6404	6.2139	-1.3787u
As 188.980	-3.4731u	2.9023	0.2295
B 249.678	11.1178	11.1136	10.9066
Ba 389.178	7.4124	7.0668	6.8291
Be 313.042	0.0046	0.0131	0.0027
Ca 370.602	10397	10377	10371
Cd 226.502	-0.0257u	0.0331	-0.1250u
Co 228.615	0.2047	0.5524	0.3938
Cr 267.716	0.1735	-0.0950u	-0.0042
Cu 324.754	0.0312	0.5485	0.3513
Fe 271.441	36.0412	37.2230	35.7939
K 766.491	599.959	599.040	597.728
Mg 279.078	1418.08	1421.08	1419.52
Mn 257.610	31.5358	31.6120	31.7689
Mo 202.032	0.9616	0.9358	1.3612
Na 330.237	10019.4	10070.5	10028.1
Ni 231.604	5.4598	4.9288	6.1750
Pb 220.353	-2.4588u	0.3170	-1.3302u
Sb 206.834	-2.8292u	-1.1647u	-0.2599u
Se 196.026	6.5680	3.2210	-2.0829u
Sn 189.925	3.2696	0.0526	4.1392
Sr 216.596	94.0929	94.2237	94.2832
Ti 334.941	0.0337	0.0639	0.0545
Tl 190.794	3.2209	2.2918	0.7828
V 292.401	-0.1632u	-0.0380u	-0.2358u
Zn 206.200	7.8703	7.0377	6.1315

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1976	ppb	0.0248	12.6	-17.7180
Al 308.215	2.8252	ppb	3.8614	136.7	-10.5929
As 188.980	-0.1138	ppb	3.2015	2813.9	-11.3687
B 249.678	11.0460	ppb	0.1207	1.1	319.579
Ba 389.178	7.1028	ppb	0.2933	4.1	162.566
Be 313.042	0.0068	ppb	0.0056	81.9	-430.495
Ca 370.602	10381	ppb	13.55	0.1	36454
Cd 226.502	-0.0392	ppb	0.0799	203.8	36.2768
Co 228.615	0.3836	ppb	0.1740	45.4	10.2324
Cr 267.716	0.0248	ppb	0.1366	551.8	6.8446
Cu 324.754	0.3103	ppb	0.2611	84.1	312.392
Fe 271.441	36.3527	ppb	0.7637	2.1	106.776
K 766.491	598.909	ppb	1.1214	0.2	25382.4
Mg 279.078	1419.56	ppb	1.4976	0.1	3771.93
Mn 257.610	31.6389	ppb	0.1189	0.4	2398.34
Mo 202.032	1.0862	ppb	0.2385	22.0	26.6729
Na 330.237	10039.3	ppb	27.3215	0.3	634.844
Ni 231.604	5.5212	ppb	0.6254	11.3	19.7883
Pb 220.353	-1.1573	ppb	1.3959	120.6	27.5180
Sb 206.834	-1.4179	ppb	1.3033	91.9	-4.9339
Se 196.026	2.5687	ppb	4.3622	169.8	12.7838
Sn 189.925	2.4871	ppb	2.1527	86.6	-13.7339
Sr 216.596	94.1999	ppb	0.0974	0.1	1392.92
Ti 334.941	0.0507	ppb	0.0154	30.4	-21.3089
Tl 190.794	2.0985	ppb	1.2305	58.6	-17.6460
V 292.401	-0.1457	ppb	0.1000	68.7	-15.0943
Zn 206.200	7.0131	ppb	0.8697	12.4	20.5228

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680-90102-d-1-a (Samp) **5/16/2013, 6:04:57 PM** **Rack 1, Tube 28**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.2754	49.9135	49.3876
Al 308.215	2006.05	2003.60	2004.28
As 188.980	2310.03	2292.37	2289.95
B 249.678	1019.92	1024.82	1027.87
Ba 389.178	2058.84	2057.93	2061.88
Be 313.042	50.3862	50.4672	50.5173
Ca 370.602	56147	56190	56154
Cd 226.502	50.0949	50.2127	50.5844
Co 228.615	505.014	508.444	505.474
Cr 267.716	205.120	205.375	205.351
Cu 324.754	263.113	263.914	264.544
Fe 271.441	1179.53	1190.07	1183.21
K 766.491	8834.64	8861.91	8846.51
Mg 279.078	11853.3	11839.7	11910.2
Mn 257.610	665.910	663.756	664.226
Mo 202.032	537.153	535.929	535.552
Na 330.237	56855.4	56772.6	56969.1
Ni 231.604	526.896	524.524	528.232
Pb 220.353	514.240	514.180	514.233
Sb 206.834	526.940	519.533	515.754
Se 196.026	2082.12	2090.99	2075.74
Sn 189.925	1013.24	1012.90	1011.57
Sr 216.596	956.148	955.477	954.998
Ti 334.941	980.853	981.699	982.614
Tl 190.794	2108.19	2112.44	2104.35
V 292.401	501.126	501.600	500.946
Zn 206.200	514.085	509.006	509.125

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.5255	ppb	0.3407	0.7	4326.13
Al 308.215	2004.64	ppb	1.2636	0.1	4712.84
As 188.980	2297.45	ppb	10.9598	0.5	1623.07
B 249.678	1024.20	ppb	4.0125	0.4	16260.6
Ba 389.178	2059.55	ppb	2.0711	0.1	54208.9
Be 313.042	50.4569	ppb	0.0662	0.1	109455
Ca 370.602	56164	ppb	22.91	0.0	197292
Cd 226.502	50.2973	ppb	0.2555	0.5	2487.91
Co 228.615	506.311	ppb	1.8620	0.4	7904.33
Cr 267.716	205.282	ppb	0.1407	0.1	12157.1
Cu 324.754	263.857	ppb	0.7169	0.3	14037.9
Fe 271.441	1184.27	ppb	5.3462	0.5	2582.57
K 766.491	8847.69	ppb	13.6755	0.2	371128
Mg 279.078	11867.7	ppb	37.4113	0.3	31261.2
Mn 257.610	664.631	ppb	1.1326	0.2	47594.0
Mo 202.032	536.211	ppb	0.8370	0.2	4646.23
Na 330.237	56865.7	ppb	98.6907	0.2	3237.97
Ni 231.604	526.551	ppb	1.8780	0.4	1884.60
Pb 220.353	514.217	ppb	0.0330	0.0	1198.94
Sb 206.834	520.742	ppb	5.6901	1.1	621.814
Se 196.026	2082.95	ppb	7.6625	0.4	1348.63
Sn 189.925	1012.57	ppb	0.8821	0.1	1134.10
Sr 216.596	955.541	ppb	0.5779	0.1	13916.6
Ti 334.941	981.722	ppb	0.8805	0.1	329599
Tl 190.794	2108.33	ppb	4.0449	0.2	2296.93
V 292.401	501.224	ppb	0.3379	0.1	15983.4
Zn 206.200	510.739	ppb	2.8985	0.6	4001.28

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680-90102-d-1-b ms (Samp) 5/16/2013, 6:10:33 PM Rack 1, Tube 29**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.9090	51.5339	51.0907
Al 308.215	5173.16	5188.26	5168.75
As 188.980	116.425	114.349	114.683
B 249.678	259.181	258.715	258.098
Ba 389.178	141.008	141.830	141.050
Be 313.042	52.0546	52.0823	52.1022
Ca 370.602	57232	57250	57226
Cd 226.502	51.1240	51.3935	51.1782
Co 228.615	52.0166	51.1244	51.4229
Cr 267.716	103.339	103.591	103.837
Cu 324.754	109.618	109.119	108.927
Fe 271.441	5176.69	5176.48	5171.12
K 766.491	8889.28	8899.04	8890.81
Mg 279.078	12104.8	12083.6	12095.2
Mn 257.610	680.288	676.720	678.872
Mo 202.032	110.886	111.445	110.729
Na 330.237	58000.8	58061.7	57794.7
Ni 231.604	130.732	129.713	128.200
Pb 220.353	53.9862	52.9582	56.9316
Sb 206.834	55.1803	53.2760	56.4721
Se 196.026	106.701	105.437	105.950
Sn 189.925	205.622	200.602	202.454
Sr 216.596	561.450	560.080	560.000
Ti 334.941	100.066	100.101	100.147
Tl 190.794	43.0734	42.4437	44.0461
V 292.401	102.493	102.505	102.962
Zn 206.200	114.228	112.333	114.729

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.1779	ppb	0.3214	0.6	4490.91
Al 308.215	5176.72	ppb	10.2321	0.2	12137.6
As 188.980	115.152	ppb	1.1149	1.0	71.0564
B 249.678	258.664	ppb	0.5428	0.2	4208.05
Ba 389.178	141.296	ppb	0.4630	0.3	3734.68
Be 313.042	52.0797	ppb	0.0239	0.0	113088
Ca 370.602	57236	ppb	12.54	0.0	200521
Cd 226.502	51.2319	ppb	0.1426	0.3	2549.55
Co 228.615	51.5213	ppb	0.4542	0.9	805.717
Cr 267.716	103.589	ppb	0.2492	0.2	6141.51
Cu 324.754	109.221	ppb	0.3564	0.3	5983.82
Fe 271.441	5174.76	ppb	3.1580	0.1	10750.6
K 766.491	8893.05	ppb	5.2499	0.1	373029
Mg 279.078	12094.5	ppb	10.6373	0.1	31857.9
Mn 257.610	678.626	ppb	1.7965	0.3	48596.5
Mo 202.032	111.020	ppb	0.3764	0.3	975.407
Na 330.237	57952.4	ppb	139.948	0.2	3308.03
Ni 231.604	129.549	ppb	1.2742	1.0	463.833
Pb 220.353	54.6253	ppb	2.0624	3.8	154.512
Sb 206.834	54.9761	ppb	1.6078	2.9	63.4726
Se 196.026	106.029	ppb	0.6360	0.6	79.4549
Sn 189.925	202.893	ppb	2.5385	1.3	214.042
Sr 216.596	560.510	ppb	0.8151	0.1	8190.88
Ti 334.941	100.105	ppb	0.0409	0.0	33623.5
Tl 190.794	43.1877	ppb	0.8073	1.9	26.2171
V 292.401	102.653	ppb	0.2675	0.3	3258.60
Zn 206.200	113.764	ppb	1.2636	1.1	428.791

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680-90102-d-1-c msd (Samp) **5/16/2013, 6:15:58 PM** **Rack 1, Tube 30**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.5914	53.4261	53.5445
Al 308.215	5052.85	5088.25	5102.26
As 188.980	113.141	111.544	119.206
B 249.678	248.812	250.203	250.285
Ba 389.178	139.853	139.502	138.794
Be 313.042	51.3129	51.3697	51.3341
Ca 370.602	56097	56297	56287
Cd 226.502	50.6786	50.8063	50.6468
Co 228.615	50.6543	50.9823	51.0787
Cr 267.716	102.431	103.202	102.309
Cu 324.754	108.119	107.558	107.298
Fe 271.441	5121.27	5127.37	5120.08
K 766.491	8842.63	8807.88	8821.66
Mg 279.078	11843.0	11936.6	11859.2
Mn 257.610	679.439	672.890	670.555
Mo 202.032	109.942	108.963	109.847
Na 330.237	56984.8	57067.7	56968.8
Ni 231.604	128.133	128.867	126.685
Pb 220.353	53.7439	53.5844	52.6098
Sb 206.834	48.2699	47.5188	49.3768
Se 196.026	98.1938	95.3734	106.952
Sn 189.925	196.092	200.904	201.658
Sr 216.596	552.987	552.372	552.521
Ti 334.941	99.0309	98.8284	98.8040
Tl 190.794	44.7561	41.4637	44.6514
V 292.401	101.673	102.018	101.203
Zn 206.200	111.617	110.422	111.488

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.5207	ppb	0.0852	0.2	4699.42
Al 308.215	5081.12	ppb	25.4652	0.5	11913.2
As 188.980	114.630	ppb	4.0419	3.5	70.6764
B 249.678	249.767	ppb	0.8278	0.3	4068.11
Ba 389.178	139.383	ppb	0.5394	0.4	3683.63
Be 313.042	51.3389	ppb	0.0287	0.1	111473
Ca 370.602	56227	ppb	112.6	0.2	196982
Cd 226.502	50.7106	ppb	0.0845	0.2	2524.02
Co 228.615	50.9051	ppb	0.2225	0.4	796.123
Cr 267.716	102.647	ppb	0.4844	0.5	6085.73
Cu 324.754	107.658	ppb	0.4197	0.4	5902.45
Fe 271.441	5122.90	ppb	3.9130	0.1	10643.1
K 766.491	8824.06	ppb	17.4967	0.2	370137
Mg 279.078	11879.6	ppb	50.0256	0.4	31292.3
Mn 257.610	674.295	ppb	4.6056	0.7	48286.9
Mo 202.032	109.584	ppb	0.5396	0.5	963.010
Na 330.237	57007.1	ppb	53.1082	0.1	3255.27
Ni 231.604	127.895	ppb	1.1103	0.9	457.914
Pb 220.353	53.3127	ppb	0.6140	1.2	151.524
Sb 206.834	48.3885	ppb	0.9347	1.9	55.4935
Se 196.026	100.173	ppb	6.0379	6.0	75.6925
Sn 189.925	199.551	ppb	3.0193	1.5	210.244
Sr 216.596	552.627	ppb	0.3209	0.1	8075.92
Ti 334.941	98.8878	ppb	0.1246	0.1	33213.8
Tl 190.794	43.6237	ppb	1.8714	4.3	26.7107
V 292.401	101.631	ppb	0.4095	0.4	3226.05
Zn 206.200	111.176	ppb	0.6559	0.6	223.747

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680-90111-a-5-a (Samp) 5/16/2013, 6:21:23 PM Rack 1, Tube 31
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2345u	-0.1540u	0.2319
Al 308.215	416.818	420.101	419.469
As 188.980	2.4721	4.7950	-2.5235u
B 249.678	11.0922	10.3539	10.6100
Ba 389.178	36.4249	36.8391	36.0403
Be 313.042	0.2075	0.2077	0.2044
Ca 370.602	4426	4441	4430
Cd 226.502	-0.2403u	-0.1956u	-0.0731u
Co 228.615	1.0963	1.3806	0.9589
Cr 267.716	0.2667	0.6330	0.4337
Cu 324.754	1.0610	1.5667	2.1628
Fe 271.441	507.291	516.759	512.423
K 766.491	1268.08	1275.75	1276.42
Mg 279.078	802.373	805.608	805.872
Mn 257.610	68.0942	68.8930	69.4467
Mo 202.032	0.1387	0.0525	-0.3255u
Na 330.237	3744.59	3858.32	3762.02
Ni 231.604	-0.4124u	-1.4242u	-1.4983u
Pb 220.353	0.7130	0.2267	2.0001
Sb 206.834	-2.0675u	2.0786	-2.0317u
Se 196.026	1.3418	1.6644	2.7478
Sn 189.925	-0.9558u	1.6834	-1.2627u
Sr 216.596	21.5452	21.4805	21.5851
Ti 334.941	10.6107	10.7266	10.7396
Tl 190.794	0.1058u	2.3432	2.6131
V 292.401	1.9365	2.1889	2.3828
Zn 206.200	82.3738	84.4007	82.5272

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0522	ppb	0.2493	477.6	-35.7832
Al 308.215	418.796	ppb	1.7416	0.4	965.600
As 188.980	1.5812	ppb	3.7397	236.5	-10.2191
B 249.678	10.6854	ppb	0.3749	3.5	313.166
Ba 389.178	36.4348	ppb	0.3995	1.1	933.348
Be 313.042	0.2066	ppb	0.0019	0.9	3.5837
Ca 370.602	4432	ppb	8.168	0.2	15530
Cd 226.502	-0.1697	ppb	0.0866	51.0	31.9182
Co 228.615	1.1453	ppb	0.2151	18.8	22.5123
Cr 267.716	0.4445	ppb	0.1834	41.3	31.8981
Cu 324.754	1.5968	ppb	0.5515	34.5	379.429
Fe 271.441	512.158	ppb	4.7397	0.9	1091.53
K 766.491	1273.42	ppb	4.6311	0.4	53654.2
Mg 279.078	804.618	ppb	1.9486	0.2	2152.42
Mn 257.610	68.8113	ppb	0.6800	1.0	5049.67
Mo 202.032	-0.0448	ppb	0.2469	551.6	16.8737
Na 330.237	3788.31	ppb	61.2552	1.6	284.785
Ni 231.604	-1.1116	ppb	0.6067	54.6	-3.9372
Pb 220.353	0.9799	ppb	0.9163	93.5	32.3981
Sb 206.834	-0.6735	ppb	2.3835	353.9	-3.9929
Se 196.026	1.9180	ppb	0.7365	38.4	12.3819
Sn 189.925	-0.1784	ppb	1.6196	907.9	-16.7692
Sr 216.596	21.5370	ppb	0.0528	0.2	333.434
Ti 334.941	10.6923	ppb	0.0709	0.7	3548.61
Tl 190.794	1.6874	ppb	1.3763	81.6	-18.1837
V 292.401	2.1694	ppb	0.2238	10.3	59.8202
Zn 206.200	83.1006	ppb	1.1285	272.4	168.822

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680-90111-a-7-a (Samp) 5/16/2013, 6:26:58 PM Rack 1, Tube 32
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0129	-0.3820u	0.3985
Al 308.215	80.5881	80.7505	78.2136
As 188.980	3.5530	-1.4520u	-2.0448u
B 249.678	5.3778	5.1914	5.4068
Ba 389.178	3.5678	3.5885	3.5254
Be 313.042	0.0176	0.0173	0.0132
Ca 370.602	3044	3012	3023
Cd 226.502	-0.0951u	-0.0855u	-0.0471u
Co 228.615	-0.1989u	-0.0223u	-0.0987u
Cr 267.716	0.3141	0.3614	0.1694
Cu 324.754	1.3062	1.1203	1.0057
Fe 271.441	64.7225	61.2052	65.6951
K 766.491	987.939	983.096	984.618
Mg 279.078	230.219	235.108	232.474
Mn 257.610	11.9302	11.8644	11.8968
Mo 202.032	0.1318	0.1257	0.3491
Na 330.237	7249.08	7225.61	7179.19
Ni 231.604	-0.2321u	-1.6718u	-0.2165u
Pb 220.353	0.1203	2.8193	1.6989
Sb 206.834	-2.6920u	-3.0907u	-3.4222u
Se 196.026	4.4875	-1.8896u	1.9830
Sn 189.925	-3.1213u	-1.2061u	-1.9172u
Sr 216.596	18.0209	17.6358	18.6492
Ti 334.941	1.6492	1.6069	1.6344
Tl 190.794	3.0574	-0.0482u	-0.8481u
V 292.401	4.1896	4.2892	4.0791
Zn 206.200	3.5701	4.1910	3.6102

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0098	ppb	0.3902	3977.8	-30.3898
Al 308.215	79.8507	ppb	1.4201	1.8	170.104
As 188.980	0.0187	ppb	3.0751	16435.5	-11.3460
B 249.678	5.3253	ppb	0.1169	2.2	229.518
Ba 389.178	3.5606	ppb	0.0321	0.9	65.8678
Be 313.042	0.0160	ppb	0.0024	15.1	-412.903
Ca 370.602	3026	ppb	16.19	0.5	10631
Cd 226.502	-0.0759	ppb	0.0254	33.4	34.6078
Co 228.615	-0.1066	ppb	0.0885	83.0	2.6934
Cr 267.716	0.2816	ppb	0.1000	35.5	21.8459
Cu 324.754	1.1441	ppb	0.1517	13.3	355.721
Fe 271.441	63.8743	ppb	2.3621	3.7	163.676
K 766.491	985.218	ppb	2.4768	0.3	41574.4
Mg 279.078	232.600	ppb	2.4467	1.1	647.882
Mn 257.610	11.8972	ppb	0.0329	0.3	986.633
Mo 202.032	0.2022	ppb	0.1273	62.9	19.0284
Na 330.237	7217.96	ppb	35.5656	0.5	477.239
Ni 231.604	-0.7068	ppb	0.8358	118.2	-2.5011
Pb 220.353	1.5462	ppb	1.3560	87.7	33.6685
Sb 206.834	-3.0683	ppb	0.3656	11.9	-6.9148
Se 196.026	1.5270	ppb	3.2129	210.4	12.1088
Sn 189.925	-2.0815	ppb	0.9681	46.5	-18.9310
Sr 216.596	18.1020	ppb	0.5115	2.8	282.907
Ti 334.941	1.6301	ppb	0.0214	1.3	502.759
Tl 190.794	0.7203	ppb	2.0631	286.4	-19.1281
V 292.401	4.1860	ppb	0.1051	2.5	124.383
Zn 206.200	3.7904	ppb	0.3475	9.2	14.2469

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680-90173-a-6-a (Samp) **5/16/2013, 6:32:24 PM** **Rack 1, Tube 33**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0164u	-0.0642u	-0.3936u
Al 308.215	118.597	122.230	118.416
As 188.980	2.3816	-2.3204u	0.1795
B 249.678	4.6437	4.5854	4.1640
Ba 389.178	11.1327	11.2580	11.0464
Be 313.042	0.0483	0.0553	0.0587
Ca 370.602	4996	4980	4998
Cd 226.502	-0.1063u	-0.1565u	-0.1093u
Co 228.615	0.2429	0.3917	0.2339
Cr 267.716	0.7799	0.7450	0.7789
Cu 324.754	0.5833	0.1935	-0.1383u
Fe 271.441	278.555	276.146	282.573
K 766.491	1042.95	1041.44	1040.74
Mg 279.078	448.710	444.305	446.631
Mn 257.610	72.8089	72.2755	72.0851
Mo 202.032	-0.4049u	0.5089	0.4345
Na 330.237	12541.8	12556.1	12374.6
Ni 231.604	0.2845	2.6145	0.1450
Pb 220.353	1.2634	0.1137	1.1476
Sb 206.834	0.7988	0.4867	-0.8622u
Se 196.026	2.2970	-5.7113u	-1.6824u
Sn 189.925	0.6210	0.4369	2.2999
Sr 216.596	36.2198	36.0427	35.9706
Ti 334.941	7.9705	7.9048	7.9928
Tl 190.794	-1.2039u	0.9311	1.0502
V 292.401	0.2814	0.3949	0.2996
Zn 206.200	0.8596	1.0127	2.7577

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1581	ppb	0.2054	129.9	-45.9523
Al 308.215	119.748	ppb	2.1518	1.8	263.772
As 188.980	0.0803	ppb	2.3526	2931.4	-11.2823
B 249.678	4.4644	ppb	0.2618	5.9	215.633
Ba 389.178	11.1457	ppb	0.1064	1.0	266.441
Be 313.042	0.0541	ppb	0.0053	9.8	-329.611
Ca 370.602	4991	ppb	9.960	0.2	17513
Cd 226.502	-0.1240	ppb	0.0282	22.7	33.1216
Co 228.615	0.2895	ppb	0.0887	30.6	9.0750
Cr 267.716	0.7679	ppb	0.0198	2.6	51.1975
Cu 324.754	0.2128	ppb	0.3612	169.7	307.365
Fe 271.441	279.092	ppb	3.2467	1.2	609.071
K 766.491	1041.71	ppb	1.1306	0.1	43942.3
Mg 279.078	446.549	ppb	2.2038	0.5	1209.85
Mn 257.610	72.3898	ppb	0.3752	0.5	5303.91
Mo 202.032	0.1795	ppb	0.5075	282.7	18.8280
Na 330.237	12490.8	ppb	100.915	0.8	771.692
Ni 231.604	1.0147	ppb	1.3873	136.7	3.6662
Pb 220.353	0.8416	ppb	0.6330	75.2	32.0789
Sb 206.834	0.1411	ppb	0.8828	625.7	-3.0160
Se 196.026	-1.6989	ppb	4.0041	235.7	10.0593
Sn 189.925	1.1192	ppb	1.0266	91.7	-15.2903
Sr 216.596	36.0777	ppb	0.1283	0.4	545.267
Ti 334.941	7.9560	ppb	0.0457	0.6	2627.21
Tl 190.794	0.2591	ppb	1.2684	489.5	-19.7489
V 292.401	0.3253	ppb	0.0610	18.8	0.2995
Zn 206.200	1.5433	ppb	1.0545	68.3	0.8960

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680-90173-a-13-a (Samp) 5/16/2013, 6:37:50 PM Rack 1, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0613	-0.5763u	0.0580
Al 308.215	535.148	537.947	535.392
As 188.980	1.8073	3.3211	1.0376
B 249.678	1.0483u	0.9370u	0.4955u
Ba 389.178	16.4666	16.4944	16.0330
Be 313.042	0.2071	0.2104	0.2129
Ca 370.602	10350	10336	10343
Cd 226.502	-0.4155	-0.2729	-0.1518
Co 228.615	0.5614	0.5563	0.6541
Cr 267.716	0.7831	0.7372	0.9884
Cu 324.754	2.1981	1.8783	2.0356
Fe 271.441	12050.6	12048.8	12044.3
K 766.491	1046.47	1043.44	1041.72
Mg 279.078	1629.47	1626.52	1622.99
Mn 257.610	54.2109	53.9245	53.9895
Mo 202.032	0.8500	0.9171	1.0100
Na 330.237	8644.75	8830.42	8788.79
Ni 231.604	-1.6746u	-0.6927u	-0.6334u
Pb 220.353	4.0283	3.3269	2.0238
Sb 206.834	-0.1896	-1.8556u	0.4960
Se 196.026	2.8940	2.4031	6.7980
Sn 189.925	1.4338	-1.3189u	1.3325
Sr 216.596	58.8896	59.3081	59.2593
Ti 334.941	15.9534	16.0111	16.0833
Tl 190.794	1.8535	0.0589u	0.3103u
V 292.401	17.3403	16.9316	16.9359
Zn 206.200	10.0237	10.8228	10.9774

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1523	ppb	0.3671	241.0	-46.7209
Al 308.215	536.162	ppb	1.5504	0.3	1241.00
As 188.980	2.0553	ppb	1.1618	56.5	-9.7821
B 249.678	0.8269	ppb	0.2924	35.4	140.019
Ba 389.178	16.3313	ppb	0.2587	1.6	425.328
Be 313.042	0.2101	ppb	0.0029	1.4	12.0691
Ca 370.602	10343	ppb	6.845	0.1	35252
Cd 226.502	-0.2801	ppb	0.1320	47.1	73.9188
Co 228.615	0.5906	ppb	0.0551	9.3	13.4861
Cr 267.716	0.8362	ppb	0.1338	16.0	58.2906
Cu 324.754	2.0373	ppb	0.1599	7.8	405.763
Fe 271.441	12047.9	ppb	3.2894	0.0	24962.6
K 766.491	1043.88	ppb	2.4052	0.2	44033.0
Mg 279.078	1626.33	ppb	3.2440	0.2	4318.26
Mn 257.610	54.0416	ppb	0.1501	0.3	4007.55
Mo 202.032	0.9257	ppb	0.0804	8.7	24.5347
Na 330.237	8754.65	ppb	97.4242	1.1	559.019
Ni 231.604	-1.0002	ppb	0.5847	58.5	-3.2140
Pb 220.353	3.1263	ppb	1.0172	32.5	37.2768
Sb 206.834	-0.5164	ppb	1.2094	234.2	-3.4963
Se 196.026	4.0317	ppb	2.4082	59.7	13.8214
Sn 189.925	0.4825	ppb	1.5608	323.5	-16.0129
Sr 216.596	59.1523	ppb	0.2289	0.4	888.845
Ti 334.941	16.0159	ppb	0.0651	0.4	5341.46
Tl 190.794	0.7409	ppb	0.9717	131.1	-19.8401
V 292.401	17.0693	ppb	0.2347	1.4	538.636
Zn 206.200	10.6080	ppb	0.5119	4.8	20.1325

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680-90126-a-1-b (Samp) **5/16/2013, 6:43:16 PM** **Rack 1, Tube 35**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5967u	0.1608u	1.0049u
Al 308.215	47.0026	51.3480	49.4293
As 188.980	3.1972	1.1269	4.2427
B 249.678	1444.22	1449.65	1455.76
Ba 389.178	20.9283	22.6537	21.1799
Be 313.042	-0.0195	-0.0243	-0.0248
Ca 370.602	546749	552582	549190
Cd 226.502	0.0962	-0.0338u	-0.1326u
Co 228.615	0.4402	0.4829	0.4605
Cr 267.716	13.3065	13.5130	13.6914
Cu 324.754	24.1712	24.4925	24.0072
Fe 271.441	261.533	255.997	255.563
K 766.491	22338.3	22415.3	22418.3
Mg 279.078	143714	143550	143682
Mn 257.610	80.4944	80.7859	80.6214
Mo 202.032	2.9325	2.8885	2.5988
Na 330.237	1024700x	1033267x	1025675x
Ni 231.604	43.6067	45.5393	46.0932
Pb 220.353	8.4569	0.4689	1.4763
Sb 206.834	4.7576	-0.7345u	-0.2909u
Se 196.026	67.7444	64.1821	63.9826
Sn 189.925	-1.4136u	-5.0569u	-3.4063u
Sr 216.596	9206.95x	9199.23x	9195.33x
Ti 334.941	-0.6768	-0.7885	-0.8158
Tl 190.794	-3.5032u	-3.7557u	-4.4610u
V 292.401	29.8527	29.4281	30.1840
Zn 206.200	40.1827	39.8957	38.3695

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5875b	ppb	0.4221	71.9	-473.371
Al 308.215	49.2599b	ppb	2.1776	4.4	98.2706
As 188.980	2.8556b	ppb	1.5858	55.5	-4.0352
B 249.678	1449.87b	ppb	5.7729	0.4	22960.4
Ba 389.178	21.5873b	ppb	0.9320	4.3	967.782
Be 313.042	-0.0229b	ppb	0.0029	12.9	-420.960
Ca 370.602	549507b	ppb	2929	0.5	1929043
Cd 226.502	-0.0234b	ppb	0.1148	490.8	33.1238
Co 228.615	0.4612b	ppb	0.0214	4.6	11.4767
Cr 267.716	13.5036b	ppb	0.1926	1.4	826.380
Cu 324.754	24.2236b	ppb	0.2469	1.0	1556.67
Fe 271.441	257.697b	ppb	3.3286	1.3	565.120
K 766.491	22390.7b	ppb	45.3324	0.2	938777
Mg 279.078	143649b	ppb	86.9058	0.1	378160
Mn 257.610	80.6339b	ppb	0.1462	0.2	6254.14
Mo 202.032	2.8066b	ppb	0.1813	6.5	41.4479
Na 330.237	1027881xb	ppb	4689.70	0.5	57493.9
Ni 231.604	45.0797b	ppb	1.3054	2.9	161.376
Pb 220.353	3.4674b	ppb	4.3503	125.5	38.0575
Sb 206.834	1.2441b	ppb	3.0509	245.2	-1.5729
Se 196.026	65.3030b	ppb	2.1166	3.2	53.0788
Sn 189.925	-3.2922b	ppb	1.8243	55.4	-19.5134
Sr 216.596	9200.50xb	ppb	5.9126	0.1	134198
Ti 334.941	-0.7604b	ppb	0.0737	9.7	386.212
Tl 190.794	-3.9066b	ppb	0.4964	12.7	-24.3305
V 292.401	29.8216b	ppb	0.3789	1.3	939.730
Zn 206.200	39.4826b	ppb	0.9746	2.5	83.7590

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680-90150-c-1-a (Samp) **5/16/2013, 6:48:42 PM** **Rack 1, Tube 36**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2602	0.0238	0.1191
Al 308.215	228.465	231.641	229.762
As 188.980	-2.5193u	-1.8809u	3.3543
B 249.678	40.6642	39.4355	38.0707
Ba 389.178	176.983	176.261	176.035
Be 313.042	0.1863	0.1894	0.1892
Ca 370.602	3653	3648	3656
Cd 226.502	0.0697	-0.0113u	0.0471
Co 228.615	2.0949	2.3974	2.2997
Cr 267.716	0.3188	0.1784	0.2249
Cu 324.754	0.4288	1.6798	0.1829
Fe 271.441	41.7804	41.1407	43.9061
K 766.491	2233.09	2238.92	2241.46
Mg 279.078	2602.13	2598.92	2603.27
Mn 257.610	29.5112	29.5014	29.6097
Mo 202.032	0.0367	-0.0538u	0.4144
Na 330.237	12308.8	12483.3	12606.4
Ni 231.604	8.5201	8.2836	8.4453
Pb 220.353	2.5422	2.0363	-0.2539u
Sb 206.834	0.8599	2.0719	-0.4092u
Se 196.026	3.9406	5.6085	2.4651
Sn 189.925	0.1666	-1.0510u	1.4332
Sr 216.596	35.1264	35.3050	35.1807
Ti 334.941	-0.0004	0.0208	-0.0575u
Tl 190.794	3.3666	1.3540	0.3728
V 292.401	-0.2374u	0.0942	-0.2863u
Zn 206.200	5.2629	3.5760	5.0687

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1343	ppb	0.1189	88.5	-20.2179
Al 308.215	229.956	ppb	1.5967	0.7	522.430
As 188.980	-0.3486	ppb	3.2227	924.4	-11.6012
B 249.678	39.3902	ppb	1.2973	3.3	765.590
Ba 389.178	176.427	ppb	0.4951	0.3	4621.76
Be 313.042	0.1883	ppb	0.0017	0.9	-37.7726
Ca 370.602	3652	ppb	4.071	0.1	12831
Cd 226.502	0.0352	ppb	0.0418	118.7	39.9226
Co 228.615	2.2640	ppb	0.1544	6.8	39.5787
Cr 267.716	0.2407	ppb	0.0715	29.7	19.6719
Cu 324.754	0.7638	ppb	0.8027	105.1	335.970
Fe 271.441	42.2757	ppb	1.4478	3.4	119.385
K 766.491	2237.82	ppb	4.2932	0.2	94077.0
Mg 279.078	2601.44	ppb	2.2570	0.1	6882.95
Mn 257.610	29.5408	ppb	0.0599	0.2	2251.58
Mo 202.032	0.1324	ppb	0.2483	187.6	18.4366
Na 330.237	12466.1	ppb	149.555	1.2	770.431
Ni 231.604	8.4164	ppb	0.1209	1.4	30.1504
Pb 220.353	1.4416	ppb	1.4899	103.4	33.4394
Sb 206.834	0.8409	ppb	1.2407	147.5	-2.1792
Se 196.026	4.0047	ppb	1.5727	39.3	13.7052
Sn 189.925	0.1830	ppb	1.2422	679.0	-16.3550
Sr 216.596	35.2040	ppb	0.0915	0.3	532.036
Ti 334.941	-0.0124	ppb	0.0405	327.0	-36.2836
Tl 190.794	1.6978	ppb	1.5262	89.9	-18.0825
V 292.401	-0.1432	ppb	0.2070	144.6	-14.8279
Zn 206.200	4.6358	ppb	0.9230	19.9	15.8913

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680-90150-c-2-a (Samp) **5/16/2013, 7:04:55 PM** **Rack 1, Tube 39**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1840	0.0272	0.1175
Al 308.215	238.174	234.429	236.713
As 188.980	3.7003	5.6292	-2.0333u
B 249.678	25.9148	26.3592	26.2319
Ba 389.178	175.855	177.734	177.586
Be 313.042	0.1797	0.1779	0.1786
Ca 370.602	3607	3623	3626
Cd 226.502	-0.0452u	0.1148	-0.0650u
Co 228.615	2.7858	2.7189	2.7603
Cr 267.716	-0.0719u	-0.0139u	0.0209
Cu 324.754	0.9531	0.5453	0.3291
Fe 271.441	8.7696	5.4683	8.1384
K 766.491	2250.91	2258.98	2264.91
Mg 279.078	2598.87	2611.01	2616.54
Mn 257.610	29.4178	29.7899	29.8120
Mo 202.032	-0.0034u	-0.1096u	0.3984
Na 330.237	12823.9	12580.7	12545.1
Ni 231.604	1.8327	2.1385	1.7306
Pb 220.353	0.6902	2.2431	0.9322
Sb 206.834	4.1737	2.8954	3.3562
Se 196.026	-2.2287u	-1.4713u	2.4992
Sn 189.925	-0.9398u	2.4117	2.0665
Sr 216.596	34.8727	35.3225	35.0884
Ti 334.941	0.0169	0.0252	0.0392
Tl 190.794	-0.0830u	2.0684	0.8001
V 292.401	-0.2074u	-0.2507u	-0.0898u
Zn 206.200	8.3280	7.8811	7.6304

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1096	ppb	0.0787	71.8	-22.4136
Al 308.215	236.439	ppb	1.8873	0.8	537.631
As 188.980	2.4321	ppb	3.9856	163.9	-9.6238
B 249.678	26.1686	ppb	0.2288	0.9	557.593
Ba 389.178	177.058	ppb	1.0448	0.6	4638.34
Be 313.042	0.1787	ppb	0.0009	0.5	-58.7116
Ca 370.602	3619	ppb	9.893	0.3	12716
Cd 226.502	0.0016	ppb	0.0986	6296.0	38.1478
Co 228.615	2.7550	ppb	0.0338	1.2	47.2427
Cr 267.716	-0.0216	ppb	0.0469	216.8	4.1369
Cu 324.754	0.6092	ppb	0.3169	52.0	327.904
Fe 271.441	7.4588	ppb	1.7524	23.5	47.4280
K 766.491	2258.27	ppb	7.0296	0.3	94933.9
Mg 279.078	2608.81	ppb	9.0404	0.3	6902.33
Mn 257.610	29.6732	ppb	0.2215	0.7	2261.02
Mo 202.032	0.0951	ppb	0.2680	281.7	18.1167
Na 330.237	12649.9	ppb	151.722	1.2	780.680
Ni 231.604	1.9006	ppb	0.2123	11.2	6.8293
Pb 220.353	1.2885	ppb	0.8355	64.8	33.0914
Sb 206.834	3.4751	ppb	0.6474	18.6	1.0110
Se 196.026	-0.4003	ppb	2.5394	634.4	10.8768
Sn 189.925	1.1795	ppb	1.8435	156.3	-15.2226
Sr 216.596	35.0945	ppb	0.2250	0.6	530.581
Ti 334.941	0.0271	ppb	0.0113	41.6	-23.0005
Tl 190.794	0.9285	ppb	1.0814	116.5	-18.9257
V 292.401	-0.1826	ppb	0.0833	45.6	-16.0203
Zn 206.200	7.9465	ppb	0.3534	4.4	22.3377

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680-90084-e-1-b (Samp) **5/16/2013, 7:10:19 PM** **Rack 1, Tube 40**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0177u	0.2954u	-0.1117u
Al 308.215	81.2412	83.3051	81.2001
As 188.980	8.5805	7.4206	8.2849
B 249.678	504.153	507.322	509.896
Ba 389.178	910.242	908.607	912.568
Be 313.042	0.0684	0.0626	0.0597
Ca 370.602	151264	150399	151771
Cd 226.502	-0.1395	-0.0574	-0.1694
Co 228.615	-0.1392u	0.2217	0.1859
Cr 267.716	3.9158	4.0202	3.8472
Cu 324.754	1.6298	2.1584	1.8644
Fe 271.441	5975.23	5980.79	6013.68
K 766.491	6759.53	6795.97	6812.22
Mg 279.078	54077.7	53965.5	54300.5
Mn 257.610	2488.93	2462.18	2458.44
Mo 202.032	0.3439	0.6638	0.0270u
Na 330.237	785879x	779217x	786521x
Ni 231.604	6.4458	5.3262	5.3687
Pb 220.353	-0.6171u	3.0287	2.8729
Sb 206.834	1.8219	0.5896	4.4400
Se 196.026	3.7542	3.8659	5.0659
Sn 189.925	-1.9833u	-1.5365u	-0.3405
Sr 216.596	3543.15	3527.15	3548.14
Ti 334.941	1.2730	1.2760	1.2782
Tl 190.794	-1.9038u	-1.0696u	-0.7425u
V 292.401	1.2762	1.4503	1.5451
Zn 206.200	103.361	104.871	104.287

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0553b	ppb	0.2131	385.2	-203.069
Al 308.215	81.9154b	ppb	1.2036	1.5	174.988
As 188.980	8.0953b	ppb	0.6027	7.4	-4.1414
B 249.678	507.124b	ppb	2.8768	0.6	8116.46
Ba 389.178	910.472b	ppb	1.9905	0.2	24100.7
Be 313.042	0.0636b	ppb	0.0044	7.0	-354.767
Ca 370.602	151145b	ppb	693.7	0.5	530147
Cd 226.502	-0.1221b	ppb	0.0580	47.5	52.1214
Co 228.615	0.0895b	ppb	0.1989	222.3	5.4961
Cr 267.716	3.9277b	ppb	0.0871	2.2	268.873
Cu 324.754	1.8842b	ppb	0.2648	14.1	396.095
Fe 271.441	5989.90b	ppb	20.7820	0.3	12426.5
K 766.491	6789.24b	ppb	26.9837	0.4	284848
Mg 279.078	54114.6b	ppb	170.498	0.3	142434
Mn 257.610	2469.85b	ppb	16.6238	0.7	176518
Mo 202.032	0.3449b	ppb	0.3184	92.3	19.9149
Na 330.237	783872xb	ppb	4044.39	0.5	43860.6
Ni 231.604	5.7136b	ppb	0.6345	11.1	20.6446
Pb 220.353	1.7615b	ppb	2.0614	117.0	34.8750
Sb 206.834	2.2838b	ppb	1.9663	86.1	-0.2272
Se 196.026	4.2286b	ppb	0.7272	17.2	14.6659
Sn 189.925	-1.2868b	ppb	0.8494	66.0	-17.5773
Sr 216.596	3539.48b	ppb	10.9657	0.3	51633.6
Ti 334.941	1.2757b	ppb	0.0026	0.2	606.587
Tl 190.794	-1.2386b	ppb	0.5988	48.3	-25.5213
V 292.401	1.4239b	ppb	0.1363	9.6	28.9975
Zn 206.200	104.173b	ppb	0.7615	0.7	410.596

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680-90084-e-2-b (Samp) **5/16/2013, 7:15:44 PM** **Rack 1, Tube 41**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0672u	-0.3293u	0.1438u
Al 308.215	26.2770	23.1106	28.0873
As 188.980	-6.8007u	-0.6794	2.7678
B 249.678	837.553	835.091	837.252
Ba 389.178	532.009	531.404	528.990
Be 313.042	0.0289	0.0244	0.0178
Ca 370.602	259849	260242	258438
Cd 226.502	0.1413	-0.1669u	-0.0368u
Co 228.615	-0.3296u	-0.2717u	0.4368
Cr 267.716	-0.1801	-0.3954	-0.2978
Cu 324.754	0.5306	0.3364	1.0503
Fe 271.441	418.233	425.400	418.164
K 766.491	8867.84	8855.66	8787.23
Mg 279.078	94432.1	93841.4	93712.2
Mn 257.610	5388.71	5365.47	5396.13
Mo 202.032	1.4515	1.5660	0.9559
Na 330.237	949064x	946305x	948329x
Ni 231.604	11.9224	13.4774	11.3328
Pb 220.353	5.0770	1.3205	2.3507
Sb 206.834	-0.3327u	-0.8041u	-1.0819u
Se 196.026	0.6814	6.4486	-1.6127
Sn 189.925	-1.3952u	2.3269	-1.1330u
Sr 216.596	5541.99x	5500.98x	5512.33x
Ti 334.941	-0.1704	-0.1614	-0.1704
Tl 190.794	7.3448u	7.5447u	9.9929
V 292.401	3.6737	3.8255	3.6947
Zn 206.200	141.401	140.994	143.482

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0395b	ppb	0.2539	643.5	-302.341
Al 308.215	25.8250b	ppb	2.5189	9.8	43.3625
As 188.980	-1.5708b	ppb	4.8461	308.5	-9.9868
B 249.678	836.632b	ppb	1.3428	0.2	13310.2
Ba 389.178	530.801b	ppb	1.5972	0.3	14219.7
Be 313.042	0.0237b	ppb	0.0056	23.6	-422.577
Ca 370.602	259510b	ppb	948.7	0.4	911150
Cd 226.502	-0.0208b	ppb	0.1548	744.9	33.6524
Co 228.615	-0.0549b	ppb	0.4267	777.9	3.4274
Cr 267.716	-0.2911b	ppb	0.1078	37.0	36.3683
Cu 324.754	0.6391b	ppb	0.3691	57.8	329.584
Fe 271.441	420.599b	ppb	4.1580	1.0	901.853
K 766.491	8836.91b	ppb	43.4543	0.5	370676
Mg 279.078	93995.2b	ppb	383.856	0.4	247353
Mn 257.610	5383.43b	ppb	15.9957	0.3	384518
Mo 202.032	1.3244b	ppb	0.3243	24.5	28.6988
Na 330.237	947899xb	ppb	1428.77	0.2	53025.1
Ni 231.604	12.2442b	ppb	1.1079	9.0	43.8613
Pb 220.353	2.9160b	ppb	1.9410	66.6	38.3534
Sb 206.834	-0.7395b	ppb	0.3787	51.2	-4.0984
Se 196.026	1.8391b	ppb	4.1535	225.8	14.0142
Sn 189.925	-0.0671b	ppb	2.0774	3094.9	-16.0514
Sr 216.596	5518.43xb	ppb	21.1743	0.4	80490.1
Ti 334.941	-0.1674b	ppb	0.0052	3.1	322.807
Tl 190.794	8.2941b	ppb	1.4746	17.8	-19.3696
V 292.401	3.7313b	ppb	0.0823	2.2	102.374
Zn 206.200	141.959b	ppb	1.3346	0.9	283.481

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680-90084-e-3-b (Samp) 5/16/2013, 7:21:19 PM Rack 1, Tube 42
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0380u	0.1905u	-0.1507u
Al 308.215	26.5211	25.4498	21.3234
As 188.980	9.0761	0.0224	6.2292
B 249.678	1749.54	1754.21	1755.31
Ba 389.178	41.6708	42.6471	42.0426
Be 313.042	0.0136	0.0194	0.0198
Ca 370.602	318550	318336	317709
Cd 226.502	-0.0159u	0.2059	0.0471u
Co 228.615	0.6793	0.4552	0.8735
Cr 267.716	-0.1941	-0.0335	-0.3525
Cu 324.754	2.7106	2.7511	2.6363
Fe 271.441	144.444	146.763	143.740
K 766.491	19679.6	19722.0	19751.0
Mg 279.078	90039.1	89946.4	89833.4
Mn 257.610	216.593	216.380	215.536
Mo 202.032	3.1772	3.3189	3.7523
Na 330.237	1059279x	1062528x	1065127x
Ni 231.604	2.2882	3.9067	3.0087
Pb 220.353	3.8668	4.1135	1.4836
Sb 206.834	-2.6111u	0.8342	-0.3385u
Se 196.026	14.8062	12.3468	7.9758
Sn 189.925	-1.4561u	-2.0337u	-0.3708
Sr 216.596	6346.82x	6347.42x	6328.71x
Ti 334.941	-0.4993	-0.4965	-0.4771
Tl 190.794	-0.3937u	-4.9006u	-5.0896u
V 292.401	20.5215	20.3159	20.7945
Zn 206.200	142.370	138.815	140.010

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0006b	ppb	0.1738	29232.0	-369.869
Al 308.215	24.4314b	ppb	2.7444	11.2	40.0972
As 188.980	5.1092b	ppb	4.6296	90.6	-4.6769
B 249.678	1753.02b	ppb	3.0660	0.2	27730.7
Ba 389.178	42.1202b	ppb	0.4927	1.2	1347.81
Be 313.042	0.0176b	ppb	0.0035	19.8	-427.159
Ca 370.602	318198b	ppb	437.2	0.1	1117045
Cd 226.502	0.0790b	ppb	0.1143	144.6	36.5053
Co 228.615	0.6693b	ppb	0.2093	31.3	14.6142
Cr 267.716	-0.1934b	ppb	0.1595	82.5	17.1614
Cu 324.754	2.6993b	ppb	0.0582	2.2	436.608
Fe 271.441	144.982b	ppb	1.5815	1.1	331.802
K 766.491	19717.5b	ppb	35.8942	0.2	826735
Mg 279.078	89939.6b	ppb	103.035	0.1	236779
Mn 257.610	216.169b	ppb	0.5590	0.3	15788.8
Mo 202.032	3.4161b	ppb	0.2997	8.8	46.7389
Na 330.237	1062311xb	ppb	2929.77	0.3	59416.6
Ni 231.604	3.0679b	ppb	0.8109	26.4	11.0111
Pb 220.353	3.1547b	ppb	1.4524	46.0	37.3846
Sb 206.834	-0.7051b	ppb	1.7517	248.4	-4.1076
Se 196.026	11.7096b	ppb	3.4595	29.5	18.7137
Sn 189.925	-1.2869b	ppb	0.8443	65.6	-17.3506
Sr 216.596	6340.98xb	ppb	10.6314	0.2	92487.4
Ti 334.941	-0.4910b	ppb	0.0121	2.5	181.704
Tl 190.794	-3.4613b	ppb	2.6583	76.8	-24.0577
V 292.401	20.5440b	ppb	0.2401	1.2	641.245
Zn 206.200	140.399b	ppb	1.8991	1.3	480.405

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680-90084-e-4-b (Samp) 5/16/2013, 7:26:45 PM Rack 1, Tube 43
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0754u	-0.0691u	0.1355u
Al 308.215	1138.13	1139.84	1132.83
As 188.980	2.3696	4.9396	7.1178
B 249.678	532.399	531.794	530.849
Ba 389.178	109.259	109.137	108.384
Be 313.042	0.1448	0.1526	0.1504
Ca 370.602	254128	253660	252395
Cd 226.502	-0.0213	-0.0640	0.1411
Co 228.615	3.7418	3.9943	3.9141
Cr 267.716	83.6061	83.1563	83.2655
Cu 324.754	35.8960	36.0692	36.1028
Fe 271.441	1757.98	1758.86	1752.08
K 766.491	10193.5	10171.4	10154.9
Mg 279.078	42590.7	42509.0	42358.4
Mn 257.610	801.118	796.682	797.051
Mo 202.032	2.1313	2.0064	1.9862
Na 330.237	272640x	270523x	268575x
Ni 231.604	49.7441	48.6211	51.5717
Pb 220.353	9.1811	5.5866	9.6794
Sb 206.834	5.4523	-1.4077u	2.5545
Se 196.026	1.3357	5.6046	12.2031
Sn 189.925	-1.0869u	-0.5954u	1.1810
Sr 216.596	3719.83	3705.90	3699.64
Ti 334.941	11.8566	11.7737	11.7938
Tl 190.794	-2.6349u	-0.6503u	2.7852
V 292.401	43.9155	43.9763	43.8435
Zn 206.200	169.650	171.594	168.100

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0030b	ppb	0.1200	3987.4	-224.737
Al 308.215	1136.93b	ppb	3.6566	0.3	2650.86
As 188.980	4.8090b	ppb	2.3768	49.4	-5.5072
B 249.678	531.681b	ppb	0.7813	0.1	8509.50
Ba 389.178	108.927b	ppb	0.4737	0.4	2967.11
Be 313.042	0.1493b	ppb	0.0040	2.7	-61.0695
Ca 370.602	253394b	ppb	896.5	0.4	889426
Cd 226.502	0.0186b	ppb	0.1082	581.2	45.0079
Co 228.615	3.8834b	ppb	0.1290	3.3	65.4626
Cr 267.716	83.3426b	ppb	0.2346	0.3	4948.33
Cu 324.754	36.0227b	ppb	0.1110	0.3	2170.98
Fe 271.441	1756.30b	ppb	3.6849	0.2	3667.14
K 766.491	10173.3b	ppb	19.3349	0.2	426688
Mg 279.078	42486.0b	ppb	117.854	0.3	111855
Mn 257.610	798.284b	ppb	2.4615	0.3	57209.1
Mo 202.032	2.0413b	ppb	0.0786	3.9	34.7187
Na 330.237	270579xb	ppb	2032.68	0.8	15187.4
Ni 231.604	49.9790b	ppb	1.4892	3.0	178.953
Pb 220.353	8.1490b	ppb	2.2331	27.4	48.9462
Sb 206.834	2.1997b	ppb	3.4437	156.6	0.4722
Se 196.026	6.3811b	ppb	5.4752	85.8	15.4940
Sn 189.925	-0.1671b	ppb	1.1931	714.0	-16.4884
Sr 216.596	3708.46b	ppb	10.3374	0.3	54107.1
Ti 334.941	11.8080b	ppb	0.0432	0.4	4125.29
Tl 190.794	-0.1667b	ppb	2.7422	1645.3	-21.4600
V 292.401	43.9117b	ppb	0.0665	0.2	1393.49
Zn 206.200	169.781b	ppb	1.7508	282.0	237.548

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680-90084-e-5-b (Samp) **5/16/2013, 7:32:21 PM** **Rack 1, Tube 44**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.1463u	0.9630u	0.4477u
Al 308.215	27.5062	25.8690	26.1285
As 188.980	4.4098	1.2166	4.4277
B 249.678	1210.20	1198.99	1213.06
Ba 389.178	23.9244	23.5679	23.2433
Be 313.042	-0.0499u	-0.0539u	-0.0464u
Ca 370.602	512856	506631	514686
Cd 226.502	0.0293u	-0.1136u	-0.0188u
Co 228.615	0.6757	-0.0091u	-0.0212u
Cr 267.716	2.1965	2.3046	2.0133
Cu 324.754	2.6084	2.4997	2.4361
Fe 271.441	224.303	217.473	221.444
K 766.491	18878.7	18674.7	18688.3
Mg 279.078	117199	115811	116942
Mn 257.610	479.043	469.629	474.239
Mo 202.032	1.9454	2.5210	1.7676
Na 330.237	810745x	796484x	798982x
Ni 231.604	4.0120	3.4685	2.6988
Pb 220.353	2.3297	6.7445	1.9156
Sb 206.834	-2.2271u	-1.5052u	1.5011
Se 196.026	20.7779	21.0618	23.3365
Sn 189.925	0.3471	-6.1708u	-3.1230u
Sr 216.596	10901.1x	10747.1x	10888.0x
Ti 334.941	-0.7916	-0.7923	-0.7597
Tl 190.794	-1.8891u	-0.9848u	-4.7920u
V 292.401	21.1750	20.9219	20.6863
Zn 206.200	234.103	228.997	230.111

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8523b	ppb	0.3622	42.5	-535.821
Al 308.215	26.5013b	ppb	0.8800	3.3	44.8714
As 188.980	3.3514b	ppb	1.8488	55.2	-4.0459
B 249.678	1207.42b	ppb	7.4381	0.6	19145.1
Ba 389.178	23.5785b	ppb	0.3407	1.4	939.773
Be 313.042	-0.0501b	ppb	0.0038	7.5	-464.090
Ca 370.602	511391b	ppb	4223	0.8	1795251
Cd 226.502	-0.0344b	ppb	0.0727	211.4	33.6028
Co 228.615	0.2151b	ppb	0.3989	185.4	7.6176
Cr 267.716	2.1715b	ppb	0.1472	6.8	152.954
Cu 324.754	2.5147b	ppb	0.0871	3.5	426.980
Fe 271.441	221.073b	ppb	3.4304	1.6	489.181
K 766.491	18747.2b	ppb	114.085	0.6	786064
Mg 279.078	116651b	ppb	738.370	0.6	307086
Mn 257.610	474.304b	ppb	4.7070	1.0	34277.2
Mo 202.032	2.0780b	ppb	0.3938	19.0	35.1782
Na 330.237	802070xb	ppb	7615.55	0.9	44878.0
Ni 231.604	3.3931b	ppb	0.6598	19.4	12.1774
Pb 220.353	3.6633b	ppb	2.6764	73.1	38.6203
Sb 206.834	-0.7437b	ppb	1.9773	265.9	-4.1008
Se 196.026	21.7254b	ppb	1.4025	6.5	25.2264
Sn 189.925	-2.9823b	ppb	3.2612	109.4	-19.2891
Sr 216.596	10845.4xb	ppb	85.3713	0.8	158170
Ti 334.941	-0.7812b	ppb	0.0186	2.4	253.317
Tl 190.794	-2.5553b	ppb	1.9891	77.8	-23.4762
V 292.401	20.9277b	ppb	0.2444	1.2	656.490
Zn 206.200	231.070b	ppb	2.6849	1.2	457.058

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680-90084-e-6-b (Samp) **5/16/2013, 7:37:47 PM** **Rack 1, Tube 45**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.6242u	0.6498u	1.3866u
Al 308.215	26.5149	118.665	22.9031
As 188.980	-0.4122	17.9329	2.9281
B 249.678	781.568	806.492	778.193
Ba 389.178	43.5033	54.0361	44.3796
Be 313.042	-0.0689u	-0.1408u	-0.0697u
Ca 370.602	494377	677214	515074
Cd 226.502	-0.1700u	0.2433	-0.2188u
Co 228.615	0.4776	-0.0677u	0.8229
Cr 267.716	2.3666	3.2273	2.5943
Cu 324.754	0.9244	-2.2839u	0.4376
Fe 271.441	240.828	350.615	243.016
K 766.491	17014.5	27098.1	16639.9
Mg 279.078	122726	200175	127801
Mn 257.610	33.7946	47.3667	35.2321
Mo 202.032	0.3834	3.3087	0.9027
Na 330.237	556691x	755144x	553321x
Ni 231.604	3.9709	9.5805	3.8449
Pb 220.353	3.4599	8.6838	-0.1721u
Sb 206.834	-1.8127u	0.9191	6.0089
Se 196.026	27.6348	47.4320	32.5057
Sn 189.925	-1.6276u	-1.0001u	-0.2034
Sr 216.596	8092.97x	12654.5x	8570.80x
Ti 334.941	-1.3782	-0.7333	-1.3317
Tl 190.794	-0.9965u	-14.3821u	-5.2078u
V 292.401	17.2432	20.6982	17.7171
Zn 206.200	291.555	634.938	323.984

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.2202b	ppb	0.5081	41.6	-448.359
Al 308.215	56.0277b	ppb	54.2755	96.9	114.159
As 188.980	6.8162b	ppb	9.7711	143.4	-1.2566
B 249.678	788.751b	ppb	15.4568	2.0	12557.0
Ba 389.178	47.3063b	ppb	5.8446	12.4	1663.18
Be 313.042	-0.0931b	ppb	0.0413	44.3	-522.435
Ca 370.602	562222b	ppb	100122	17.8	1973673
Cd 226.502	-0.0485b	ppb	0.2539	523.7	34.9542
Co 228.615	0.4109b	ppb	0.4490	109.3	10.6993
Cr 267.716	2.7294b	ppb	0.4460	16.3	179.894
Cu 324.754	-0.3073b	ppb	1.7290	562.7	280.146
Fe 271.441	278.153b	ppb	62.7634	22.6	607.317
K 766.491	20250.8b	ppb	5932.89	29.3	849087
Mg 279.078	150234b	ppb	43324.8	28.8	395495
Mn 257.610	38.7978b	ppb	7.4556	19.2	3285.29
Mo 202.032	1.5316b	ppb	1.5607	101.9	30.4623
Na 330.237	621719xb	ppb	115562	18.6	34801.6
Ni 231.604	5.7988b	ppb	3.2757	56.5	20.7892
Pb 220.353	3.9905b	ppb	4.4517	111.6	39.2381
Sb 206.834	1.7051b	ppb	3.9696	232.8	-1.1198
Se 196.026	35.8575b	ppb	10.3154	28.8	34.1608
Sn 189.925	-0.9437b	ppb	0.7138	75.6	-17.0379
Sr 216.596	9772.77xb	ppb	2507.10	25.7	142540
Ti 334.941	-1.1477b	ppb	0.3597	31.3	326.836
Tl 190.794	-6.8622b	ppb	6.8444	99.7	-27.5170
V 292.401	18.5528b	ppb	1.8730	10.1	582.316
Zn 206.200	416.826b	ppb	189.585	45.5	818.961

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680-90084-e-7-b (Samp) **5/16/2013, 7:43:13 PM** **Rack 1, Tube 46**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0387u	-0.3454u	-0.3066u
Al 308.215	89.3928	86.6350	93.0635
As 188.980	32.7951	35.5304	24.2651
B 249.678	1587.51	1591.59	1600.50
Ba 389.178	115.310	114.949	115.938
Be 313.042	0.0668	0.0689	0.0682
Ca 370.602	98125	98368	98882
Cd 226.502	-0.0314u	0.0325u	-0.0406u
Co 228.615	1.4428	1.3618	0.7774
Cr 267.716	1.9512	2.0480	1.9160
Cu 324.754	0.9587	0.8507	1.0916
Fe 271.441	721.312	730.853	726.833
K 766.491	8562.87	8539.74	8572.09
Mg 279.078	30840.5	30918.2	31030.3
Mn 257.610	1821.25	1825.18	1823.39
Mo 202.032	14.8517	15.3877	16.2720
Na 330.237	1117223x	1118145x	1116239x
Ni 231.604	5.2532	4.3216	4.2102
Pb 220.353	2.3997	0.8030	2.9776
Sb 206.834	-0.5145u	2.8809	2.0367
Se 196.026	9.2187	3.8322	14.2332
Sn 189.925	-0.9893u	-1.8974u	-1.9457u
Sr 216.596	2267.35	2269.06	2300.39
Ti 334.941	1.1143	1.0973	1.1541
Tl 190.794	3.4664	0.0740u	-1.1462u
V 292.401	2.2214	2.0880	1.9461
Zn 206.200	218.532	217.990	220.323

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2044b	ppb	0.2115	103.4	-161.168
Al 308.215	89.6971b	ppb	3.2250	3.6	194.052
As 188.980	30.8635b	ppb	5.8758	19.0	11.5121
B 249.678	1593.20b	ppb	6.6434	0.4	25215.0
Ba 389.178	115.399b	ppb	0.5004	0.4	3101.34
Be 313.042	0.0680b	ppb	0.0011	1.6	-410.982
Ca 370.602	98459b	ppb	386.5	0.4	345644
Cd 226.502	-0.0132b	ppb	0.0398	302.4	33.0391
Co 228.615	1.1940b	ppb	0.3631	30.4	22.2488
Cr 267.716	1.9717b	ppb	0.0684	3.5	155.414
Cu 324.754	0.9670b	ppb	0.1207	12.5	347.166
Fe 271.441	726.333b	ppb	4.7902	0.7	1534.74
K 766.491	8558.23b	ppb	16.6661	0.2	358995
Mg 279.078	30929.7b	ppb	95.4534	0.3	81415.5
Mn 257.610	1823.27b	ppb	1.9629	0.1	130317
Mo 202.032	15.5038b	ppb	0.7173	4.6	151.122
Na 330.237	1117202xb	ppb	953.044	0.1	62482.1
Ni 231.604	4.5950b	ppb	0.5727	12.5	16.4932
Pb 220.353	2.0601b	ppb	1.1264	54.7	35.3471
Sb 206.834	1.4677b	ppb	1.7678	120.4	-1.6275
Se 196.026	9.0947b	ppb	5.2016	57.2	17.5543
Sn 189.925	-1.6108b	ppb	0.5388	33.5	-17.8186
Sr 216.596	2278.94b	ppb	18.6030	0.8	33249.1
Ti 334.941	1.1219b	ppb	0.0291	2.6	398.075
Tl 190.794	0.7981b	ppb	2.3900	299.5	-22.0089
V 292.401	2.0852b	ppb	0.1377	6.6	43.6401
Zn 206.200	218.949b	ppb	1.2211	0.6	433.508

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680-90084-e-8-b (Samp) 5/16/2013, 7:48:39 PM Rack 1, Tube 47
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1731u	-0.0130u	0.1457u
Al 308.215	105.801	103.391	107.628
As 188.980	9.8968	8.0017	15.0901
B 249.678	534.887	535.225	533.265
Ba 389.178	1385.23	1389.07	1383.77
Be 313.042	0.0716	0.0677	0.0670
Ca 370.602	160229	161663	160272
Cd 226.502	0.1203	0.0477	0.0149
Co 228.615	0.0152	-0.3203u	-0.3648u
Cr 267.716	2.4077	2.4787	2.2953
Cu 324.754	1.0253	1.2240	1.0420
Fe 271.441	6927.90	6950.92	6926.16
K 766.491	6810.73	6821.89	6783.14
Mg 279.078	57004.6	57114.7	56923.1
Mn 257.610	2619.57	2617.83	2604.16
Mo 202.032	0.2578	0.7899	0.4573
Na 330.237	778394x	772642x	765933x
Ni 231.604	5.5515	5.9056	6.8599
Pb 220.353	2.9777	2.6602	1.1732
Sb 206.834	-1.2952u	-2.1508u	-4.2267u
Se 196.026	13.2087	6.0447	6.3886
Sn 189.925	1.1456	-1.8781u	0.5243
Sr 216.596	3741.00	3754.75	3736.67
Ti 334.941	1.7135	1.6458	1.6144
Tl 190.794	1.1975u	-0.0865u	3.0201u
V 292.401	1.7172	1.9042	1.4957
Zn 206.200	284.706	286.592	282.674

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1019b	ppb	0.1005	98.6	-208.697
Al 308.215	105.607b	ppb	2.1254	2.0	230.583
As 188.980	10.9962b	ppb	3.6698	33.4	-1.9898
B 249.678	534.459b	ppb	1.0479	0.2	8545.12
Ba 389.178	1386.02b	ppb	2.7377	0.2	36624.6
Be 313.042	0.0688b	ppb	0.0025	3.7	-338.894
Ca 370.602	160721b	ppb	815.8	0.5	563686
Cd 226.502	0.0609b	ppb	0.0539	88.5	65.0449
Co 228.615	-0.2233b	ppb	0.2077	93.0	0.5904
Cr 267.716	2.3939b	ppb	0.0925	3.9	178.897
Cu 324.754	1.0971b	ppb	0.1102	10.0	355.420
Fe 271.441	6934.99b	ppb	13.8172	0.2	14382.1
K 766.491	6805.25b	ppb	19.9482	0.3	285520
Mg 279.078	57014.1b	ppb	96.1401	0.2	150064
Mn 257.610	2613.85b	ppb	8.4401	0.3	186802
Mo 202.032	0.5017b	ppb	0.2688	53.6	21.2117
Na 330.237	772323xb	ppb	6236.36	0.8	43213.6
Ni 231.604	6.1056b	ppb	0.6768	11.1	22.0747
Pb 220.353	2.2703b	ppb	0.9634	42.4	36.0775
Sb 206.834	-2.5576b	ppb	1.5075	58.9	-6.0800
Se 196.026	8.5474b	ppb	4.0405	47.3	17.4932
Sn 189.925	-0.0694b	ppb	1.5969	2301.1	-16.1943
Sr 216.596	3744.14b	ppb	9.4386	0.3	54618.3
Ti 334.941	1.6579b	ppb	0.0506	3.1	751.701
Tl 190.794	1.3770b	ppb	1.5610	113.4	-22.9375
V 292.401	1.7057b	ppb	0.2045	12.0	38.3396
Zn 206.200	284.657b	ppb	1.9598	0.7	562.357

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

660-54244-h-1-a (Samp) 5/16/2013, 7:54:05 PM Rack 1, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1060u	0.2598	-0.2721u
Al 308.215	76.1687	74.2622	64.6181
As 188.980	1283.21	1285.49	1283.47
B 249.678	184.044	183.567	184.042
Ba 389.178	-2.1383u	-2.5605u	-1.8871u
Be 313.042	0.0074	0.0091	0.0022
Ca 370.602	45785	45659	45690
Cd 226.502	-0.1672	0.1399	-0.2023
Co 228.615	0.2647	0.1540	0.1358
Cr 267.716	0.2248	0.3156	0.3445
Cu 324.754	2.8506	2.3981	2.0258
Fe 271.441	16088.7	16053.1	16059.4
K 766.491	11936.2	11911.7	11904.1
Mg 279.078	7820.71	7825.32	7831.11
Mn 257.610	115.858	117.115	116.643
Mo 202.032	0.1028u	-0.1439u	0.2078
Na 330.237	12553.6	12661.2	12369.8
Ni 231.604	2.7991	2.0419	2.4856
Pb 220.353	-0.1900u	1.4990	2.0321
Sb 206.834	-1.7469u	-3.3263u	-1.1740u
Se 196.026	-2.6858u	1.2855	0.3656
Sn 189.925	-0.8791u	0.8793	-1.5872u
Sr 216.596	1.9698	2.3487	2.5619
Ti 334.941	0.3076	0.3652	0.3387
Tl 190.794	-2.6526u	0.7486u	1.2066
V 292.401	0.3382	-0.0266u	0.2471
Zn 206.200	5.7513	5.8444	6.2998

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0394	ppb	0.2721	690.5	-33.6825
Al 308.215	71.6830	ppb	6.1922	8.6	150.954
As 188.980	1284.06	ppb	1.2494	0.1	902.405
B 249.678	183.884	ppb	0.2749	0.1	3014.29
Ba 389.178	-2.1953	ppb	0.3403	15.5	-37.2904
Be 313.042	0.0063	ppb	0.0036	57.6	-419.182
Ca 370.602	45711	ppb	65.69	0.1	159049
Cd 226.502	-0.0765	ppb	0.1882	245.9	100.483
Co 228.615	0.1848	ppb	0.0698	37.7	6.4748
Cr 267.716	0.2950	ppb	0.0624	21.2	27.9897
Cu 324.754	2.4248	ppb	0.4131	17.0	427.323
Fe 271.441	16067.0	ppb	19.0281	0.1	33279.2
K 766.491	11917.4	ppb	16.7673	0.1	499792
Mg 279.078	7825.72	ppb	5.2090	0.1	20636.7
Mn 257.610	116.539	ppb	0.6350	0.5	8486.31
Mo 202.032	0.0556	ppb	0.1805	324.8	16.8195
Na 330.237	12528.2	ppb	147.364	1.2	768.677
Ni 231.604	2.4422	ppb	0.3805	15.6	9.2200
Pb 220.353	1.1137	ppb	1.1601	104.2	32.7160
Sb 206.834	-2.0824	ppb	1.1147	53.5	-5.2774
Se 196.026	-0.3449	ppb	2.0788	602.7	11.0620
Sn 189.925	-0.5290	ppb	1.2700	240.1	-17.1404
Sr 216.596	2.2935	ppb	0.2999	13.1	67.1383
Ti 334.941	0.3372	ppb	0.0288	8.5	111.635
Tl 190.794	-0.2324	ppb	2.1084	907.1	-21.2462
V 292.401	0.1862	ppb	0.1899	101.9	-4.1250
Zn 206.200	5.9651	ppb	0.2935	287.8	20.6305

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660-54244-h-2-a (Samp) 5/16/2013, 8:10:18 PM Rack 1, Tube 51
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6822u	-0.8704u	0.0831
Al 308.215	278.593	274.820	276.245
As 188.980	5.9649	5.1391	2.0668
B 249.678	16.4986	16.4868	17.0110
Ba 389.178	1.4569	1.8208	2.2612
Be 313.042	0.0514	0.0552	0.0590
Ca 370.602	42919	43086	43131
Cd 226.502	3.2709	3.2912	3.1907
Co 228.615	0.0735	0.3424	0.2582
Cr 267.716	2.8526	3.0967	3.1085
Cu 324.754	-0.2501u	-0.5202u	-0.4140u
Fe 271.441	1097.75	1098.21	1101.38
K 766.491	886.443	883.824	885.374
Mg 279.078	16437.9	16433.5	16483.4
Mn 257.610	27.1524	26.9161	26.9055
Mo 202.032	0.1652	0.5974	0.2965
Na 330.237	4147.91	3992.92	4216.16
Ni 231.604	1.1962	1.5050	2.0901
Pb 220.353	3.9562	0.8343	1.3861
Sb 206.834	-2.3237u	1.0569	-0.6202u
Se 196.026	0.0943	2.0093	-2.6460u
Sn 189.925	-0.0972u	-0.1453u	0.2600
Sr 216.596	42.1683	42.4936	42.0027
Ti 334.941	4.8200	4.6387	4.5663
Tl 190.794	-2.3124u	2.6968	3.9917
V 292.401	12.9920	13.3284	13.1514
Zn 206.200	2.3264	4.0167	1.9722

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4898	ppb	0.5050	103.1	-76.3143
Al 308.215	276.553	ppb	1.9055	0.7	631.702
As 188.980	4.3903	ppb	2.0541	46.8	-7.8417
B 249.678	16.6655	ppb	0.2993	1.8	406.341
Ba 389.178	1.8463	ppb	0.4028	21.8	70.7986
Be 313.042	0.0552	ppb	0.0038	6.9	-312.055
Ca 370.602	43045	ppb	111.9	0.3	151027
Cd 226.502	3.2509	ppb	0.0531	1.6	200.883
Co 228.615	0.2247	ppb	0.1376	61.2	7.9280
Cr 267.716	3.0192	ppb	0.1445	4.8	184.071
Cu 324.754	-0.3948	ppb	0.1361	34.5	275.866
Fe 271.441	1099.11	ppb	1.9752	0.2	2306.05
K 766.491	885.214	ppb	1.3167	0.1	37382.8
Mg 279.078	16451.6	ppb	27.6423	0.2	43341.0
Mn 257.610	26.9913	ppb	0.1396	0.5	2105.72
Mo 202.032	0.3530	ppb	0.2216	62.8	20.2487
Na 330.237	4119.00	ppb	114.394	2.8	303.767
Ni 231.604	1.5971	ppb	0.4540	28.4	5.7738
Pb 220.353	2.0589	ppb	1.6661	80.9	34.8418
Sb 206.834	-0.6290	ppb	1.6903	268.7	-3.9006
Se 196.026	-0.1808	ppb	2.3398	1294.1	11.0252
Sn 189.925	0.0058	ppb	0.2214	3795.6	-16.5375
Sr 216.596	42.2215	ppb	0.2497	0.6	640.525
Ti 334.941	4.6750	ppb	0.1307	2.8	1613.54
Tl 190.794	1.4587	ppb	3.3294	228.2	-18.3945
V 292.401	13.1573	ppb	0.1683	1.3	412.875
Zn 206.200	2.7718	ppb	1.0926	39.4	12.3910

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660-54244-h-3-a (Samp) 5/16/2013, 8:15:42 PM Rack 1, Tube 52
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1448u	-0.2566u	-0.3067u
Al 308.215	151.862	148.779	148.968
As 188.980	10.9261	18.2968	20.9152
B 249.678	225.109	226.170	226.730
Ba 389.178	8.5797	8.7914	8.9759
Be 313.042	-0.0070	-0.0010	-0.0083
Ca 370.602	76568	76749	76296
Cd 226.502	7.8065	7.6953	7.9339
Co 228.615	8.3400	8.8041	8.4987
Cr 267.716	0.3270	0.2527	0.4212
Cu 324.754	0.3796	0.6398	0.7653
Fe 271.441	46.0176	41.8224	38.2920
K 766.491	5980.04	5990.28	5987.16
Mg 279.078	16227.0	16264.0	16194.3
Mn 257.610	284.811	284.845	286.497
Mo 202.032	0.0819	0.0937	0.1291
Na 330.237	29181.5	29024.7	28822.1
Ni 231.604	22.9890	24.1237	23.1826
Pb 220.353	1.0275	-1.1601u	1.5429
Sb 206.834	1.7108	0.9708	-2.7703u
Se 196.026	-0.4825u	-3.8686u	-5.3562u
Sn 189.925	-1.2170u	-2.0636u	-0.2730u
Sr 216.596	49.3454	49.1987	49.0450
Ti 334.941	0.4703	0.5516	0.5478
Tl 190.794	0.5719	1.9327	1.2605
V 292.401	5.3138	5.3466	5.0951
Zn 206.200	42.0411	42.4999	42.3596

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2360	ppb	0.0829	35.1	-52.8974
Al 308.215	149.870	ppb	1.7281	1.2	334.431
As 188.980	16.7127	ppb	5.1796	31.0	1.2451
B 249.678	226.003	ppb	0.8232	0.4	3702.10
Ba 389.178	8.7823	ppb	0.1983	2.3	250.921
Be 313.042	-0.0054	ppb	0.0039	72.4	-434.035
Ca 370.602	76538	ppb	227.7	0.3	268704
Cd 226.502	7.8119	ppb	0.1194	1.5	418.055
Co 228.615	8.5476	ppb	0.2359	2.8	137.526
Cr 267.716	0.3336	ppb	0.0844	25.3	26.7198
Cu 324.754	0.5949	ppb	0.1967	33.1	327.122
Fe 271.441	42.0440	ppb	3.8675	9.2	120.129
K 766.491	5985.83	ppb	5.2513	0.1	251174
Mg 279.078	16228.5	ppb	34.8743	0.2	42748.2
Mn 257.610	285.384	ppb	0.9639	0.3	20542.4
Mo 202.032	0.1016	ppb	0.0246	24.2	18.1583
Na 330.237	29009.4	ppb	180.191	0.6	1694.27
Ni 231.604	23.4318	ppb	0.6070	2.6	83.8911
Pb 220.353	0.4701	ppb	1.4351	305.3	31.2978
Sb 206.834	-0.0295	ppb	2.4022	8133.3	-3.2344
Se 196.026	-3.2358	ppb	2.4977	77.2	9.1383
Sn 189.925	-1.1845	ppb	0.8957	75.6	-17.8591
Sr 216.596	49.1964	ppb	0.1502	0.3	745.730
Ti 334.941	0.5233	ppb	0.0459	8.8	216.080
Tl 190.794	1.2550	ppb	0.6804	54.2	-18.9720
V 292.401	5.2518	ppb	0.1367	2.6	158.647
Zn 206.200	42.3002	ppb	0.2351	0.6	89.2699

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660-54244-h-4-a (Samp) 5/16/2013, 8:21:06 PM Rack 1, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8920	0.1689	0.3449
Al 308.215	271.428	272.478	267.460
As 188.980	3.9726	0.4956	5.7409
B 249.678	31.4250	31.6073	31.3255
Ba 389.178	8.9298	8.8747	8.6260
Be 313.042	0.0176	0.0184	0.0125
Ca 370.602	60952	61050	60839
Cd 226.502	0.2877	0.1262	0.2835
Co 228.615	0.4694	0.2490	-0.2049u
Cr 267.716	1.7470	1.7654	1.6420
Cu 324.754	0.1476	-0.3207u	-0.0028u
Fe 271.441	181.589	177.326	171.602
K 766.491	1598.95	1598.33	1596.74
Mg 279.078	28040.2	28074.8	28026.2
Mn 257.610	70.4175	70.0529	70.0154
Mo 202.032	3.7599	3.4378	3.5050
Na 330.237	8534.29	8383.04	8404.80
Ni 231.604	0.6099	-0.1715u	1.2110
Pb 220.353	-1.4552u	1.6847	1.4212
Sb 206.834	1.2471	-4.6338u	-3.9882u
Se 196.026	5.8749	6.3621	2.5142
Sn 189.925	-2.8321u	0.5477	-2.1500u
Sr 216.596	68.9546	68.9798	69.4269
Ti 334.941	2.7043	3.1694	2.8706
Tl 190.794	-0.1706u	2.6748	-1.9454u
V 292.401	17.4506	17.4297	17.8415
Zn 206.200	1.2391	-0.0108u	1.2735

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4686	ppb	0.3771	80.5	7.4128
Al 308.215	270.455	ppb	2.6467	1.0	617.541
As 188.980	3.4030	ppb	2.6686	78.4	-8.3749
B 249.678	31.4526	ppb	0.1429	0.5	640.477
Ba 389.178	8.8101	ppb	0.1619	1.8	287.135
Be 313.042	0.0162	ppb	0.0032	20.0	-391.891
Ca 370.602	60947	ppb	105.6	0.2	213955
Cd 226.502	0.2325	ppb	0.0920	39.6	50.5066
Co 228.615	0.1712	ppb	0.3438	200.8	6.9263
Cr 267.716	1.7181	ppb	0.0666	3.9	107.093
Cu 324.754	-0.0587	ppb	0.2391	407.6	293.123
Fe 271.441	176.839	ppb	5.0110	2.8	397.612
K 766.491	1598.01	ppb	1.1357	0.1	67259.3
Mg 279.078	28047.1	ppb	25.0274	0.1	73862.6
Mn 257.610	70.1619	ppb	0.2221	0.3	5214.79
Mo 202.032	3.5676	ppb	0.1699	4.8	48.0512
Na 330.237	8440.71	ppb	81.7692	1.0	545.519
Ni 231.604	0.5498	ppb	0.6932	126.1	1.9995
Pb 220.353	0.5502	ppb	1.7417	316.5	31.4158
Sb 206.834	-2.4583	ppb	3.2251	131.2	-6.2127
Se 196.026	4.9171	ppb	2.0952	42.6	14.3052
Sn 189.925	-1.4782	ppb	1.7873	120.9	-18.2115
Sr 216.596	69.1204	ppb	0.2657	0.4	1034.40
Ti 334.941	2.9148	ppb	0.2357	8.1	1085.03
Tl 190.794	0.1863	ppb	2.3307	1251.1	-19.8111
V 292.401	17.5740	ppb	0.2320	1.3	554.281
Zn 206.200	0.8339	ppb	0.7318	87.7	8.4965

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

mb 680-276285/1-a (Samp) **5/16/2013, 8:26:42 PM** **Rack 1, Tube 54**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0524	0.1433	0.2298
Al 308.215	-2.6146u	1.4357	3.5618
As 188.980	-0.7320u	1.1800	-4.8235u
B 249.678	1.1464	1.8337	1.0364
Ba 389.178	-0.1804u	-0.1729u	0.0986
Be 313.042	0.0144	0.0091	0.0169
Ca 370.602	1.226	1.101	0.5270
Cd 226.502	-0.0902u	-0.2163u	-0.1007u
Co 228.615	0.0194	0.2853	0.0313
Cr 267.716	-0.2371u	0.1466	-0.0955u
Cu 324.754	-0.2656u	-0.3749u	-0.6779u
Fe 271.441	0.2257	-0.0727u	-1.3068u
K 766.491	-0.0760u	-0.2668u	-0.7468u
Mg 279.078	-0.1600u	-0.6232u	0.6609
Mn 257.610	-0.1006u	-0.1031u	-0.0210u
Mo 202.032	0.1514	0.1181	-0.1809u
Na 330.237	-63.9771u	-180.669u	-60.2931u
Ni 231.604	-0.2932u	-1.4556u	-1.7558u
Pb 220.353	1.9277	0.0856	1.1131
Sb 206.834	0.1577	-0.4873u	3.5103
Se 196.026	-0.0236u	-2.5755u	-2.6068u
Sn 189.925	-0.2383u	-0.3639u	0.3186
Sr 216.596	-0.4166u	0.1376	0.2500
Ti 334.941	-0.0767u	-0.0879u	-0.0332u
Tl 190.794	3.5343	1.0168	2.8729
V 292.401	-0.2161u	-0.1916u	0.1234
Zn 206.200	-0.5804u	-1.3305u	0.3375

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1418	ppb	0.0887	62.5	-17.7686
Al 308.215	0.7943	ppb	3.1377	395.0	-15.4227
As 188.980	-1.4585	ppb	3.0670	210.3	-12.4263
B 249.678	1.3389	ppb	0.4321	32.3	166.888
Ba 389.178	-0.0849	ppb	0.1590	187.2	-30.8690
Be 313.042	0.0134	ppb	0.0040	29.6	-418.553
Ca 370.602	0.9514	ppb	0.3728	39.2	15.82
Cd 226.502	-0.1357	ppb	0.0700	51.6	31.4763
Co 228.615	0.1120	ppb	0.1502	134.1	6.0510
Cr 267.716	-0.0620	ppb	0.1940	312.9	1.3125
Cu 324.754	-0.4395	ppb	0.2136	48.6	273.328
Fe 271.441	-0.3846	ppb	0.8125	211.2	30.7055
K 766.491	-0.3632	ppb	0.3456	95.2	264.070
Mg 279.078	-0.0408	ppb	0.6503	1594.8	35.7553
Mn 257.610	-0.0749	ppb	0.0467	62.4	131.706
Mo 202.032	0.0295	ppb	0.1830	620.4	17.5506
Na 330.237	-101.646	ppb	68.4602	67.4	68.4172
Ni 231.604	-1.1682	ppb	0.7725	66.1	-4.1543
Pb 220.353	1.0421	ppb	0.9231	88.6	32.5173
Sb 206.834	1.0602	ppb	2.1462	202.4	-1.9156
Se 196.026	-1.7353	ppb	1.4825	85.4	10.0101
Sn 189.925	-0.0945	ppb	0.3633	384.2	-16.6783
Sr 216.596	-0.0096	ppb	0.3569	3701.1	18.4728
Ti 334.941	-0.0660	ppb	0.0289	43.8	-67.2671
Tl 190.794	2.4746	ppb	1.3051	52.7	-17.1788
V 292.401	-0.0948	ppb	0.1893	199.8	-13.1156
Zn 206.200	-0.5245	ppb	0.8355	159.3	5.8329

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ics 680-276285/2-a (Samp) 5/16/2013, 8:32:07 PM Rack 1, Tube 55
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	48.1974	47.8460	47.8480
Al 308.215	4655.82	4661.59	4726.57
As 188.980	103.456	107.544	107.233
B 249.678	185.577	186.846	187.772
Ba 389.178	95.5291	96.3555	96.5059
Be 313.042	48.7691	48.7539	49.0732
Ca 370.602	4708	4710	4755
Cd 226.502	49.0642	49.0209	49.5242
Co 228.615	49.1231	49.3542	49.4431
Cr 267.716	98.8941	98.6272	99.4278
Cu 324.754	99.0420	96.7729	96.6425
Fe 271.441	4722.01	4732.99	4765.38
K 766.491	4870.73	4871.29	4874.27
Mg 279.078	4774.05	4776.38	4814.87
Mn 257.610	509.800	508.180	505.873
Mo 202.032	99.4571	99.0792	100.666
Na 330.237	4535.03	4601.46	4724.21
Ni 231.604	95.7355	95.1969	96.0217
Pb 220.353	49.6428	49.5940	49.3341
Sb 206.834	45.7435	48.5888	48.5032
Se 196.026	99.0935	93.1102	96.9668
Sn 189.925	191.376	194.785	194.080
Sr 216.596	98.2157	97.6494	98.8411
Ti 334.941	94.2291	94.0599	94.5693
Tl 190.794	40.4310	42.1253	40.7264
V 292.401	96.2548	96.4988	97.1030
Zn 206.200	98.0119	99.9913	98.7552

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.9638	ppb	0.2023	0.4	4229.21
Al 308.215	4681.33	ppb	39.2903	0.8	10974.4
As 188.980	106.078	ppb	2.2756	2.1	64.0923
B 249.678	186.732	ppb	1.1020	0.6	3076.77
Ba 389.178	96.1302	ppb	0.5259	0.5	2523.70
Be 313.042	48.8654	ppb	0.1801	0.4	106069
Ca 370.602	4724	ppb	26.40	0.6	16208
Cd 226.502	49.2031	ppb	0.2789	0.6	2449.47
Co 228.615	49.3068	ppb	0.1652	0.3	771.471
Cr 267.716	98.9830	ppb	0.4077	0.4	5866.72
Cu 324.754	97.4858	ppb	1.3493	1.4	5372.74
Fe 271.441	4740.13	ppb	22.5481	0.5	9850.70
K 766.491	4872.10	ppb	1.9041	0.0	204492
Mg 279.078	4788.43	ppb	22.9231	0.5	12629.8
Mn 257.610	507.951	ppb	1.9734	0.4	36398.9
Mo 202.032	99.7341	ppb	0.8289	0.8	877.991
Na 330.237	4620.23	ppb	95.9795	2.1	329.048
Ni 231.604	95.6514	ppb	0.4188	0.4	342.502
Pb 220.353	49.5236	ppb	0.1659	0.3	142.860
Sb 206.834	47.6118	ppb	1.6186	3.4	54.6275
Se 196.026	96.3901	ppb	3.0331	3.1	73.2049
Sn 189.925	193.414	ppb	1.7993	0.9	203.215
Sr 216.596	98.2354	ppb	0.5961	0.6	1446.62
Ti 334.941	94.2861	ppb	0.2595	0.3	31635.2
Tl 190.794	41.0942	ppb	0.9051	2.2	24.2332
V 292.401	96.6189	ppb	0.4367	0.5	3067.56
Zn 206.200	98.9194	ppb	0.9999	1.0	199.833

680-90039-b-9-a (Samp) **5/16/2013, 8:37:32 PM** **Rack 1, Tube 56**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1977u	0.1246u	0.3084u
Al 308.215	5.4024	7.9779	8.0856
As 188.980	-0.4718	-3.7838u	-5.7060u
B 249.678	35.4368	35.2597	34.9463
Ba 389.178	27.9453	27.2721	27.7795
Be 313.042	-0.0050	-0.0033	-0.0040
Ca 370.602	67549	67544	67508
Cd 226.502	-0.1301u	0.0200	-0.0755u
Co 228.615	0.1067	-0.0381u	0.0545
Cr 267.716	0.2046	0.2481	0.1437
Cu 324.754	0.2558	0.7501	0.9213
Fe 271.441	48.6444	54.7293	49.2811
K 766.491	2391.55	2400.43	2395.38
Mg 279.078	36907.4	36894.3	36815.2
Mn 257.610	0.9250	1.0703	1.0848
Mo 202.032	0.1528	0.0847	-0.0246u
Na 330.237	23835.5	23917.5	23864.7
Ni 231.604	-0.0786u	-0.2619u	0.3440
Pb 220.353	1.5045	2.2098	-0.5334u
Sb 206.834	-0.9630u	1.3105	0.3298
Se 196.026	1.7411	-0.3795u	-0.2090u
Sn 189.925	-0.5404u	-1.6188u	1.1435
Sr 216.596	662.404	660.415	661.899
Ti 334.941	-0.4005	-0.3984	-0.4513
Tl 190.794	1.4737	-0.9281u	2.1490
V 292.401	-0.0028	-0.5947u	-0.3759u
Zn 206.200	1.2347	1.9682	1.7468

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2102	ppb	0.0925	44.0	-48.0231
Al 308.215	7.1553	ppb	1.5190	21.2	-0.4837
As 188.980	-3.3205	ppb	2.6477	79.7	-13.0896
B 249.678	35.2143	ppb	0.2484	0.7	699.864
Ba 389.178	27.6657	ppb	0.3508	1.3	809.437
Be 313.042	-0.0041	ppb	0.0008	20.2	-434.381
Ca 370.602	67534	ppb	21.89	0.0	237085
Cd 226.502	-0.0619	ppb	0.0760	122.8	35.7312
Co 228.615	0.0410	ppb	0.0734	178.8	4.9472
Cr 267.716	0.1988	ppb	0.0524	26.4	17.2874
Cu 324.754	0.6424	ppb	0.3456	53.8	329.654
Fe 271.441	50.8849	ppb	3.3445	6.6	136.785
K 766.491	2395.78	ppb	4.4557	0.2	100698
Mg 279.078	36872.3	ppb	49.8638	0.1	97094.6
Mn 257.610	1.0267	ppb	0.0884	8.6	303.790
Mo 202.032	0.0710	ppb	0.0895	126.1	17.9057
Na 330.237	23872.6	ppb	41.5633	0.2	1407.65
Ni 231.604	0.0012	ppb	0.3107	26949.7	0.0323
Pb 220.353	1.0603	ppb	1.4245	134.4	32.5590
Sb 206.834	0.2258	ppb	1.1403	505.1	-2.9244
Se 196.026	0.3842	ppb	1.1782	306.7	11.3720
Sn 189.925	-0.3386	ppb	1.3922	411.2	-16.9054
Sr 216.596	661.573	ppb	1.0341	0.2	9670.99
Ti 334.941	-0.4167	ppb	0.0299	7.2	13.2580
Tl 190.794	0.8982	ppb	1.6173	180.1	-18.9187
V 292.401	-0.3245	ppb	0.2993	92.2	-20.2413
Zn 206.200	1.6499	ppb	0.3762	22.8	10.0754

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680-90039-b-9-b ms (Samp) 5/16/2013, 8:42:58 PM Rack 1, Tube 57**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.8646	52.4877	51.2926
Al 308.215	5158.74	5141.29	5154.26
As 188.980	122.039	115.857	117.004
B 249.678	230.159	231.567	231.727
Ba 389.178	130.696	129.799	129.904
Be 313.042	53.3437	53.2650	53.2802
Ca 370.602	71731	71639	71771
Cd 226.502	51.0774	51.1821	51.0949
Co 228.615	50.7537	51.0842	51.4135
Cr 267.716	105.210	104.841	105.127
Cu 324.754	107.162	107.158	107.898
Fe 271.441	5079.15	5066.53	5066.09
K 766.491	7927.55	7939.43	7943.76
Mg 279.078	41649.1	41530.5	41505.3
Mn 257.610	534.776	534.793	532.380
Mo 202.032	106.752	105.991	105.937
Na 330.237	29011.3	28895.8	28864.9
Ni 231.604	99.8152	102.697	99.9795
Pb 220.353	53.6779	52.9730	52.1895
Sb 206.834	49.6566	54.0219	49.8695
Se 196.026	99.4046	103.285	106.565
Sn 189.925	204.653	198.040	201.729
Sr 216.596	756.887	757.000	752.746
Ti 334.941	99.9147	100.013	99.9759
Tl 190.794	44.8499	42.2908	40.6397
V 292.401	102.436	103.071	103.402
Zn 206.200	100.924	105.508	101.823

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.5483	ppb	0.8412	1.6	4511.87
Al 308.215	5151.43	ppb	9.0658	0.2	12078.0
As 188.980	118.300	ppb	3.2887	2.8	73.4391
B 249.678	231.151	ppb	0.8627	0.4	3775.24
Ba 389.178	130.133	ppb	0.4904	0.4	3528.69
Be 313.042	53.2963	ppb	0.0417	0.1	115750
Ca 370.602	71714	ppb	67.97	0.1	251348
Cd 226.502	51.1181	ppb	0.0561	0.1	2544.34
Co 228.615	51.0838	ppb	0.3299	0.6	799.115
Cr 267.716	105.059	ppb	0.1934	0.2	6227.08
Cu 324.754	107.406	ppb	0.4260	0.4	5889.20
Fe 271.441	5070.59	ppb	7.4141	0.1	10534.9
K 766.491	7936.91	ppb	8.3899	0.1	332953
Mg 279.078	41561.7	ppb	76.7915	0.2	109427
Mn 257.610	533.983	ppb	1.3880	0.3	38349.8
Mo 202.032	106.227	ppb	0.4559	0.4	934.020
Na 330.237	28924.0	ppb	77.1826	0.3	1686.54
Ni 231.604	100.831	ppb	1.6187	1.6	361.049
Pb 220.353	52.9468	ppb	0.7445	1.4	150.655
Sb 206.834	51.1827	ppb	2.4612	4.8	58.9778
Se 196.026	103.085	ppb	3.5846	3.5	77.5155
Sn 189.925	201.474	ppb	3.3139	1.6	212.424
Sr 216.596	755.545	ppb	2.4242	0.3	11036.5
Ti 334.941	99.9677	ppb	0.0494	0.0	33740.3
Tl 190.794	42.5935	ppb	2.1214	5.0	25.8150
V 292.401	102.969	ppb	0.4907	0.5	3270.31
Zn 206.200	102.751	ppb	2.4291	2.4	207.319

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680-90039-b-9-c msd (Samp) 5/16/2013, 8:48:24 PM Rack 1, Tube 58**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.2795	50.6681	50.9656
Al 308.215	4854.63	4892.29	4877.87
As 188.980	111.091	115.848	109.029
B 249.678	227.656	228.242	229.081
Ba 389.178	124.903	125.024	125.820
Be 313.042	50.8418	50.9544	50.9015
Ca 370.602	70013	70092	70043
Cd 226.502	49.9033	49.7280	49.9691
Co 228.615	49.3540	49.3321	49.9371
Cr 267.716	100.538	100.351	100.550
Cu 324.754	102.331	102.240	103.208
Fe 271.441	4858.46	4853.24	4851.35
K 766.491	7774.44	7783.39	7785.45
Mg 279.078	40554.8	40496.8	40506.1
Mn 257.610	517.109	511.458	513.010
Mo 202.032	101.592	101.958	103.438
Na 330.237	28391.0	28403.3	28371.4
Ni 231.604	97.7706	97.8834	96.4037
Pb 220.353	52.0742	51.1640	54.0008
Sb 206.834	47.8257	48.5075	51.7844
Se 196.026	100.223	105.517	97.7571
Sn 189.925	195.586	197.492	193.457
Sr 216.596	738.154	736.958	735.853
Ti 334.941	95.6171	95.5169	95.6418
Tl 190.794	36.7985	38.5155	37.0703
V 292.401	98.7237	98.5809	99.0051
Zn 206.200	99.4168	101.396	104.503

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.9710	ppb	0.3057	0.6	4461.43
Al 308.215	4874.93	ppb	19.0015	0.4	11428.9
As 188.980	111.989	ppb	3.4968	3.1	68.9350
B 249.678	228.327	ppb	0.7163	0.3	3731.13
Ba 389.178	125.249	ppb	0.4980	0.4	3396.70
Be 313.042	50.8992	ppb	0.0564	0.1	110524
Ca 370.602	70049	ppb	40.26	0.1	245523
Cd 226.502	49.8668	ppb	0.1246	0.2	2482.63
Co 228.615	49.5411	ppb	0.3431	0.7	775.090
Cr 267.716	100.480	ppb	0.1114	0.1	5955.90
Cu 324.754	102.593	ppb	0.5345	0.5	5638.60
Fe 271.441	4854.35	ppb	3.6840	0.1	10087.1
K 766.491	7781.10	ppb	5.8543	0.1	326422
Mg 279.078	40519.2	ppb	31.1442	0.1	106683
Mn 257.610	513.859	ppb	2.9194	0.6	36911.0
Mo 202.032	102.329	ppb	0.9773	1.0	900.387
Na 330.237	28388.5	ppb	16.0928	0.1	1656.74
Ni 231.604	97.3526	ppb	0.8237	0.8	348.594
Pb 220.353	52.4130	ppb	1.4484	2.8	149.439
Sb 206.834	49.3725	ppb	2.1164	4.3	56.7645
Se 196.026	101.166	ppb	3.9648	3.9	76.2748
Sn 189.925	195.512	ppb	2.0183	1.0	205.648
Sr 216.596	736.988	ppb	1.1505	0.2	10766.0
Ti 334.941	95.5919	ppb	0.0661	0.1	32265.7
Tl 190.794	37.4614	ppb	0.9229	2.5	20.2176
V 292.401	98.7699	ppb	0.2159	0.2	3136.43
Zn 206.200	101.772	ppb	2.5636	2.5	205.400

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680-90039-b-10-a (Samp) **5/16/2013, 8:53:50 PM** **Rack 1, Tube 59**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3020u	-0.2991u	0.6257
Al 308.215	11.9812	13.9605	8.0876
As 188.980	-3.2932u	-2.7271u	-0.7377
B 249.678	36.0835	35.9910	36.1928
Ba 389.178	28.7062	29.0821	28.3820
Be 313.042	-0.0002	-0.0050	0.0046
Ca 370.602	66937	66994	67095
Cd 226.502	-0.0639u	-0.0417u	0.1181
Co 228.615	0.4713	0.0810	0.0960
Cr 267.716	0.2006	0.3212	0.0841
Cu 324.754	0.2572	0.2325	-0.4349u
Fe 271.441	67.4560	66.8897	67.1804
K 766.491	2337.32	2339.28	2335.95
Mg 279.078	36038.2	36130.9	36154.7
Mn 257.610	-0.3437	-0.3370	-0.4254
Mo 202.032	0.1085	-0.2644u	-0.2936u
Na 330.237	23487.6	23731.3	23663.1
Ni 231.604	-0.4444u	0.8029	0.0327
Pb 220.353	3.0211	2.4239	0.6194
Sb 206.834	1.4346	1.4468	-2.8850u
Se 196.026	-1.7658u	-3.9156u	-0.4636u
Sn 189.925	-2.5468u	-0.8819u	-2.5152u
Sr 216.596	653.259	657.228	656.563
Ti 334.941	-0.3626	-0.3819	-0.3113
Tl 190.794	0.4382	-0.2126u	-3.8805u
V 292.401	-0.4356u	-0.4200u	-0.2744u
Zn 206.200	1.0412	1.4193	1.3780

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2095	ppb	0.4692	224.0	-47.9676
Al 308.215	11.3431	ppb	2.9880	26.3	9.3337
As 188.980	-2.2527	ppb	1.3422	59.6	-12.3324
B 249.678	36.0891	ppb	0.1010	0.3	713.615
Ba 389.178	28.7235	ppb	0.3504	1.2	835.112
Be 313.042	-0.0002	ppb	0.0048	2115.5	-425.948
Ca 370.602	67009	ppb	79.85	0.1	235241
Cd 226.502	0.0042	ppb	0.0993	2378.2	38.9723
Co 228.615	0.2161	ppb	0.2211	102.3	7.6876
Cr 267.716	0.2020	ppb	0.1185	58.7	17.4674
Cu 324.754	0.0183	ppb	0.3927	2148.5	297.170
Fe 271.441	67.1754	ppb	0.2831	0.4	170.526
K 766.491	2337.52	ppb	1.6778	0.1	98255.6
Mg 279.078	36107.9	ppb	61.5410	0.2	95082.6
Mn 257.610	-0.3687	ppb	0.0492	13.4	202.381
Mo 202.032	-0.1498	ppb	0.2242	149.7	15.9989
Na 330.237	23627.3	ppb	125.748	0.5	1393.95
Ni 231.604	0.1304	ppb	0.6294	482.7	0.4951
Pb 220.353	2.0214	ppb	1.2504	61.9	34.7468
Sb 206.834	-0.0012	ppb	2.4974	208512.4	-3.1956
Se 196.026	-2.0483	ppb	1.7433	85.1	9.8099
Sn 189.925	-1.9813	ppb	0.9523	48.1	-18.7723
Sr 216.596	655.683	ppb	2.1259	0.3	9585.13
Ti 334.941	-0.3520	ppb	0.0365	10.4	31.0580
Tl 190.794	-1.2183	ppb	2.3284	191.1	-21.2435
V 292.401	-0.3767	ppb	0.0889	23.6	-21.8773
Zn 206.200	1.2795	ppb	0.2074	16.2	0.3552

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680-90076-a-1-a (Samp) **5/16/2013, 8:59:16 PM** **Rack 1, Tube 60**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1968u	0.0528	-0.3516u
Al 308.215	257.493	250.246	259.043
As 188.980	-2.9565u	-0.1655	-2.0522u
B 249.678	9.1365	8.8666	8.2805
Ba 389.178	31.5125	32.8943	32.7590
Be 313.042	0.0175	0.0184	0.0231
Ca 370.602	85676	85610	85700
Cd 226.502	-0.0264	-0.0322	-0.1339u
Co 228.615	0.9764	1.9432	1.5051
Cr 267.716	1.0324	0.9844	1.0828
Cu 324.754	3.3147	3.4465	2.6464
Fe 271.441	533.522	530.637	533.268
K 766.491	993.260	993.524	990.941
Mg 279.078	12907.7	12894.2	12924.1
Mn 257.610	756.661	757.243	759.358
Mo 202.032	0.5624	0.6128	-0.0514u
Na 330.237	2985.22	2765.32	2675.63
Ni 231.604	0.8890	0.7476	1.6496
Pb 220.353	2.7818	3.8225	2.5367
Sb 206.834	-1.6941u	1.1879	1.5703
Se 196.026	-4.3705u	-7.3135u	4.3350
Sn 189.925	1.3013	1.4074	2.9599
Sr 216.596	125.670	125.261	125.384
Ti 334.941	2.4233	2.4913	2.4055
Tl 190.794	-2.2721u	2.9511	0.2881u
V 292.401	0.6280	0.3580	0.5476
Zn 206.200	22.0289	22.8948	22.3278

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1652	ppb	0.2040	123.5	-48.1704
Al 308.215	255.594	ppb	4.6960	1.8	582.603
As 188.980	-1.7248	ppb	1.4240	82.6	-11.7739
B 249.678	8.7612	ppb	0.4376	5.0	282.852
Ba 389.178	32.3886	ppb	0.7618	2.4	863.022
Be 313.042	0.0197	ppb	0.0030	15.2	-371.615
Ca 370.602	85662	ppb	46.55	0.1	300705
Cd 226.502	-0.0642	ppb	0.0605	94.2	37.3437
Co 228.615	1.4749	ppb	0.4841	32.8	27.3476
Cr 267.716	1.0332	ppb	0.0492	4.8	70.3538
Cu 324.754	3.1358	ppb	0.4290	13.7	459.557
Fe 271.441	532.476	ppb	1.5976	0.3	1133.62
K 766.491	992.575	ppb	1.4213	0.1	41882.8
Mg 279.078	12908.7	ppb	14.9970	0.1	34000.3
Mn 257.610	757.754	ppb	1.4192	0.2	54241.3
Mo 202.032	0.3746	ppb	0.3698	98.7	20.4974
Na 330.237	2808.72	ppb	159.294	5.7	230.616
Ni 231.604	1.0954	ppb	0.4851	44.3	3.9622
Pb 220.353	3.0470	ppb	0.6827	22.4	37.3058
Sb 206.834	0.3547	ppb	1.7846	503.2	-2.7470
Se 196.026	-2.4497	ppb	6.0571	247.3	9.7962
Sn 189.925	1.8896	ppb	0.9285	49.1	-14.3728
Sr 216.596	125.438	ppb	0.2102	0.2	1859.12
Ti 334.941	2.4400	ppb	0.0453	1.9	844.055
Tl 190.794	0.3224	ppb	2.6118	810.2	-20.7824
V 292.401	0.5112	ppb	0.1386	27.1	6.4025
Zn 206.200	22.4172	ppb	0.4398	2.0	50.5961

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680-90076-a-3-a (Samp) 5/16/2013, 9:15:31 PM Rack 2, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0416u	0.5004	0.5917
Al 308.215	11.0341	15.0144	8.4114
As 188.980	2.0850	2.3209	-1.5837u
B 249.678	13.0413	13.0838	13.0312
Ba 389.178	57.0219	56.5955	56.3944
Be 313.042	-0.0021	-0.0183u	-0.0096
Ca 370.602	95680	95565	95662
Cd 226.502	-0.0260u	-0.0827u	0.0037
Co 228.615	-0.2119u	-0.1867u	-0.0690u
Cr 267.716	0.1243	0.3191	0.3297
Cu 324.754	-0.3716u	0.0896	-0.2651u
Fe 271.441	14.5855	16.8969	13.5556
K 766.491	1264.66	1264.02	1258.21
Mg 279.078	18472.2	18493.6	18498.9
Mn 257.610	2.4691	2.4706	2.2823
Mo 202.032	-0.0506u	0.7234	-0.2113u
Na 330.237	3553.07	3594.65	3566.93
Ni 231.604	-0.1249u	0.9496	0.4285
Pb 220.353	-0.8173u	2.4034	-0.3527u
Sb 206.834	-3.4261u	-0.9100u	0.4932
Se 196.026	-0.1430u	5.2172	0.6418
Sn 189.925	-0.4790u	-1.9027u	-0.9854u
Sr 216.596	185.538	186.264	185.239
Ti 334.941	-0.0123	-0.0286	-0.0168
Tl 190.794	4.1837	0.6470	-0.7361u
V 292.401	-0.2132u	-0.3584u	0.0607
Zn 206.200	3.2080	2.7092	2.8389

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3779	ppb	0.2948	78.0	-7.3625
Al 308.215	11.4866	ppb	3.3247	28.9	9.6856
As 188.980	0.9407	ppb	2.1894	232.7	-9.7804
B 249.678	13.0521	ppb	0.0279	0.2	351.188
Ba 389.178	56.6706	ppb	0.3204	0.6	1517.84
Be 313.042	-0.0100	ppb	0.0081	81.1	-432.298
Ca 370.602	95635	ppb	61.93	0.1	335741
Cd 226.502	-0.0350	ppb	0.0439	125.4	36.7027
Co 228.615	-0.1559	ppb	0.0763	48.9	1.8806
Cr 267.716	0.2577	ppb	0.1156	44.9	20.3363
Cu 324.754	-0.1824	ppb	0.2415	132.4	286.719
Fe 271.441	15.0126	ppb	1.7111	11.4	62.5149
K 766.491	1262.30	ppb	3.5516	0.3	53188.2
Mg 279.078	18488.2	ppb	14.1756	0.1	48702.3
Mn 257.610	2.4073	ppb	0.1083	4.5	355.998
Mo 202.032	0.1538	ppb	0.4998	324.9	18.6236
Na 330.237	3571.55	ppb	21.1707	0.6	273.578
Ni 231.604	0.4177	ppb	0.5373	128.6	1.5220
Pb 220.353	0.4111	ppb	1.7409	423.4	31.0815
Sb 206.834	-1.2810	ppb	1.9858	155.0	-4.7512
Se 196.026	1.9053	ppb	2.8949	151.9	12.3485
Sn 189.925	-1.1224	ppb	0.7217	64.3	-17.7891
Sr 216.596	185.680	ppb	0.5274	0.3	2738.35
Ti 334.941	-0.0193	ppb	0.0084	43.8	48.6784
Tl 190.794	1.3649	ppb	2.5372	185.9	-18.4048
V 292.401	-0.1703	ppb	0.2128	125.0	-15.3862
Zn 206.200	2.9187	ppb	0.2588	8.9	12.5415

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680-90076-a-4-a (Samp) 5/16/2013, 9:20:56 PM Rack 2, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0721u	-0.2826u	0.5293
Al 308.215	160.024	157.586	160.296
As 188.980	5.2200	-2.5799u	-0.8827
B 249.678	6.0896	6.2819	5.9174
Ba 389.178	29.8024	30.8618	30.5593
Be 313.042	0.0073	0.0003	0.0020
Ca 370.602	103983	103971	104118
Cd 226.502	1.2813	1.3391	1.3689
Co 228.615	1.0822	0.6096	0.8661
Cr 267.716	0.9067	0.7825	0.9473
Cu 324.754	3.3326	3.3764	3.8953
Fe 271.441	4248.11	4242.96	4258.74
K 766.491	831.482	832.993	831.989
Mg 279.078	15799.5	15824.6	15820.5
Mn 257.610	68.5492	68.9695	69.0165
Mo 202.032	0.6876	0.9107	-0.0100u
Na 330.237	7907.13	8151.47	8138.92
Ni 231.604	6.2010	7.1737	5.6765
Pb 220.353	4.2459	7.2520	5.6841
Sb 206.834	0.5400	0.3825	5.1433
Se 196.026	-0.6058u	1.5407	1.4967
Sn 189.925	-1.0087u	2.5478	-2.2931u
Sr 216.596	162.166	161.120	161.323
Ti 334.941	2.4883	2.5593	2.4923
Tl 190.794	0.1482u	0.2454u	1.6474
V 292.401	0.7209	1.1193	0.8011
Zn 206.200	32.6128	30.7412	32.1983

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1063	ppb	0.4070	383.0	-29.7643
Al 308.215	159.302	ppb	1.4926	0.9	356.618
As 188.980	0.5858	ppb	4.1021	700.3	-9.9391
B 249.678	6.0963	ppb	0.1823	3.0	235.099
Ba 389.178	30.4078	ppb	0.5457	1.8	825.535
Be 313.042	0.0032	ppb	0.0037	113.4	-400.862
Ca 370.602	104024	ppb	81.72	0.1	364813
Cd 226.502	1.3298	ppb	0.0445	3.3	120.419
Co 228.615	0.8526	ppb	0.2366	27.7	17.4732
Cr 267.716	0.8788	ppb	0.0858	9.8	58.7590
Cu 324.754	3.5347	ppb	0.3130	8.9	481.462
Fe 271.441	4249.94	ppb	8.0501	0.2	8826.08
K 766.491	832.154	ppb	0.7691	0.1	35158.8
Mg 279.078	15814.8	ppb	13.4431	0.1	41664.7
Mn 257.610	68.8451	ppb	0.2573	0.4	5093.57
Mo 202.032	0.5294	ppb	0.4803	90.7	21.6123
Na 330.237	8065.84	ppb	137.593	1.7	523.007
Ni 231.604	6.3504	ppb	0.7597	12.0	22.8748
Pb 220.353	5.7273	ppb	1.5035	26.3	43.2028
Sb 206.834	2.0219	ppb	2.7043	133.7	-0.6332
Se 196.026	0.8105	ppb	1.2268	151.4	11.6991
Sn 189.925	-0.2513	ppb	2.5077	997.8	-16.7927
Sr 216.596	161.536	ppb	0.5546	0.3	2389.73
Ti 334.941	2.5133	ppb	0.0399	1.6	884.472
Tl 190.794	0.6803	ppb	0.8389	123.3	-19.5017
V 292.401	0.8804	ppb	0.2108	23.9	18.2264
Zn 206.200	31.8508	ppb	0.9830	3.1	69.4750

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680-90076-a-5-a (Samp) **5/16/2013, 9:26:20 PM** **Rack 2, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0465u	-0.3140u	-0.3112u
Al 308.215	191.317	188.704	184.529
As 188.980	0.0997	-2.0157u	5.0252
B 249.678	21.4981	21.7504	20.8799
Ba 389.178	33.1927	33.0886	33.5966
Be 313.042	0.0235	0.0308	0.0275
Ca 370.602	81998	82033	81861
Cd 226.502	0.9056	1.0903	0.8042
Co 228.615	4.9552	5.1789	4.6439
Cr 267.716	0.9317	0.9747	0.7803
Cu 324.754	5.3805	5.2090	4.7812
Fe 271.441	2990.52	2992.60	2986.79
K 766.491	837.607	836.058	838.550
Mg 279.078	15997.5	15977.4	15944.9
Mn 257.610	228.192	228.341	228.991
Mo 202.032	1.1136	0.6959	0.8782
Na 330.237	34307.9	34208.3	34145.2
Ni 231.604	3.1811	2.1972	2.3031
Pb 220.353	5.5549	2.0607	5.5701
Sb 206.834	-0.1982u	-2.8415u	-3.2700u
Se 196.026	6.8640	2.7959	4.0473
Sn 189.925	0.0912	-1.5611u	0.2439
Sr 216.596	303.302	303.683	303.077
Ti 334.941	1.4022	1.4021	1.3946
Tl 190.794	0.9168	1.3212	2.1922
V 292.401	0.7195	0.5375	0.5401
Zn 206.200	42.4752	43.3282	42.8969

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2239	ppb	0.1536	68.6	-65.8018
Al 308.215	188.183	ppb	3.4241	1.8	424.428
As 188.980	1.0364	ppb	3.6127	348.6	-9.8394
B 249.678	21.3761	ppb	0.4479	2.1	477.510
Ba 389.178	33.2926	ppb	0.2683	0.8	899.904
Be 313.042	0.0273	ppb	0.0037	13.5	-360.853
Ca 370.602	81964	ppb	90.72	0.1	287487
Cd 226.502	0.9334	ppb	0.1451	15.5	95.7827
Co 228.615	4.9260	ppb	0.2687	5.5	80.9470
Cr 267.716	0.8955	ppb	0.1021	11.4	60.7940
Cu 324.754	5.1236	ppb	0.3087	6.0	563.775
Fe 271.441	2989.97	ppb	2.9442	0.1	6219.58
K 766.491	837.405	ppb	1.2586	0.2	35378.9
Mg 279.078	15973.3	ppb	26.5347	0.2	42078.3
Mn 257.610	228.508	ppb	0.4249	0.2	16485.8
Mo 202.032	0.8959	ppb	0.2094	23.4	24.8523
Na 330.237	34220.5	ppb	82.0638	0.2	1984.41
Ni 231.604	2.5605	ppb	0.5401	21.1	9.2753
Pb 220.353	4.3952	ppb	2.0218	46.0	40.2166
Sb 206.834	-2.1032	ppb	1.6636	79.1	-5.6708
Se 196.026	4.5691	ppb	2.0837	45.6	14.1538
Sn 189.925	-0.4087	ppb	1.0010	244.9	-16.9719
Sr 216.596	303.354	ppb	0.3060	0.1	4453.13
Ti 334.941	1.3996	ppb	0.0043	0.3	508.921
Tl 190.794	1.4767	ppb	0.6518	44.1	-18.8105
V 292.401	0.5990	ppb	0.1043	17.4	8.8172
Zn 206.200	42.9001	ppb	0.4265	1.0	40.8326

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680-90122-a-1-a (Samp) **5/16/2013, 9:31:45 PM** **Rack 2, Tube 6**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4571u	0.2692	-0.0100u
Al 308.215	10.1176	14.1781	10.5481
As 188.980	-3.5291u	-0.5132	-6.1196u
B 249.678	7.5571	7.5301	7.8812
Ba 389.178	67.1115	66.4388	67.4730
Be 313.042	-0.0007	-0.0033	-0.0077
Ca 370.602	88246	88400	88464
Cd 226.502	0.1242	-0.0451u	0.0497
Co 228.615	0.0158	0.4436	0.1008
Cr 267.716	0.6140	0.6750	0.4310
Cu 324.754	0.5422	0.6729	0.2514
Fe 271.441	37.3895	36.0191	35.3192
K 766.491	551.612	548.489	550.426
Mg 279.078	23672.7	23716.2	23724.9
Mn 257.610	1.6250	1.8225	1.7904
Mo 202.032	0.5302	0.5598	0.9522
Na 330.237	5369.54	5604.60	5567.14
Ni 231.604	0.5391	0.3873	0.1712
Pb 220.353	1.0509	1.5404	0.6061
Sb 206.834	-1.5916u	-0.1833u	-1.0605u
Se 196.026	1.4127	3.2191	-2.3289u
Sn 189.925	0.6287	-0.1377u	-0.4215u
Sr 216.596	135.607	137.299	135.578
Ti 334.941	-0.0824	-0.1206	-0.1093
Tl 190.794	1.9309	2.1292	0.0666
V 292.401	0.2688	-0.3704u	0.0990
Zn 206.200	1.9944	1.2210	1.2273

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0660	ppb	0.3664	555.5	-44.2024
Al 308.215	11.6146	ppb	2.2305	19.2	10.0125
As 188.980	-3.3873	ppb	2.8059	82.8	-12.9312
B 249.678	7.6562	ppb	0.1954	2.6	266.240
Ba 389.178	67.0078	ppb	0.5249	0.8	1805.46
Be 313.042	-0.0039	ppb	0.0035	90.9	-422.505
Ca 370.602	88370	ppb	112.3	0.1	310233
Cd 226.502	0.0430	ppb	0.0849	197.6	40.6644
Co 228.615	0.1867	ppb	0.2265	121.3	7.1949
Cr 267.716	0.5734	ppb	0.1270	22.1	39.0629
Cu 324.754	0.4889	ppb	0.2158	44.1	321.670
Fe 271.441	36.2426	ppb	1.0531	2.9	106.516
K 766.491	550.176	ppb	1.5766	0.3	23339.7
Mg 279.078	23704.6	ppb	27.9298	0.1	62433.3
Mn 257.610	1.7460	ppb	0.1060	6.1	321.981
Mo 202.032	0.6807	ppb	0.2356	34.6	23.1715
Na 330.237	5513.76	ppb	126.292	2.3	382.079
Ni 231.604	0.3659	ppb	0.1849	50.5	1.3371
Pb 220.353	1.0658	ppb	0.4673	43.8	32.5706
Sb 206.834	-0.9451	ppb	0.7112	75.2	-4.3484
Se 196.026	0.7676	ppb	2.8297	368.6	11.6181
Sn 189.925	0.0232	ppb	0.5432	2346.2	-16.4908
Sr 216.596	136.161	ppb	0.9854	0.7	2015.54
Ti 334.941	-0.1041	ppb	0.0196	18.8	48.3777
Tl 190.794	1.3756	ppb	1.1379	82.7	-18.3935
V 292.401	-0.0009	ppb	0.3311	38290.5	-10.0240
Zn 206.200	1.4809	ppb	0.4447	30.0	0.7423

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680-90122-a-2-a (Samp) **5/16/2013, 9:37:10 PM** **Rack 2, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0855u	0.5536	0.1212
Al 308.215	215.528	214.123	211.488
As 188.980	-3.6741u	-4.2300u	-2.0127u
B 249.678	8.1501	8.2208	8.9621
Ba 389.178	59.4499	59.1512	59.1028
Be 313.042	0.0156	0.0158	0.0165
Ca 370.602	93158	93018	92975
Cd 226.502	0.0187	0.0273	-0.0011
Co 228.615	1.0787	0.4766	0.8373
Cr 267.716	0.7506	0.6795	0.4550
Cu 324.754	1.5121	2.1220	1.1789
Fe 271.441	434.093	431.798	441.083
K 766.491	806.763	808.374	803.328
Mg 279.078	21301.9	21298.1	21305.4
Mn 257.610	89.6820	90.4503	90.6949
Mo 202.032	0.0055	0.2058	-0.1551u
Na 330.237	22101.9	22310.1	22177.2
Ni 231.604	0.0902	1.1742	1.6250
Pb 220.353	1.6725	2.5340	2.6354
Sb 206.834	3.8966	-2.1452u	-1.6569u
Se 196.026	0.7634	9.6867	0.4045
Sn 189.925	-1.4531u	-0.9532u	-1.3568u
Sr 216.596	144.473	145.163	146.033
Ti 334.941	1.0492	1.0105	0.9694
Tl 190.794	2.3108	-0.5545u	0.3741
V 292.401	0.1391	0.2914	0.1979
Zn 206.200	5.4183	4.4512	5.0177

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1964	ppb	0.3261	166.0	-20.8389
Al 308.215	213.713	ppb	2.0509	1.0	484.304
As 188.980	-3.3056	ppb	1.1537	34.9	-12.8257
B 249.678	8.4443	ppb	0.4498	5.3	278.014
Ba 389.178	59.2346	ppb	0.1880	0.3	1594.39
Be 313.042	0.0160	ppb	0.0004	2.8	-379.350
Ca 370.602	93050	ppb	95.72	0.1	326631
Cd 226.502	0.0150	ppb	0.0146	97.2	40.7994
Co 228.615	0.7975	ppb	0.3030	38.0	16.7564
Cr 267.716	0.6283	ppb	0.1543	24.6	43.2576
Cu 324.754	1.6043	ppb	0.4782	29.8	379.827
Fe 271.441	435.658	ppb	4.8363	1.1	933.145
K 766.491	806.155	ppb	2.5776	0.3	34069.0
Mg 279.078	21301.8	ppb	3.6712	0.0	56106.7
Mn 257.610	90.2757	ppb	0.5286	0.6	6633.43
Mo 202.032	0.0187	ppb	0.1808	965.2	17.4308
Na 330.237	22196.4	ppb	105.442	0.5	1313.85
Ni 231.604	0.9631	ppb	0.7889	81.9	3.4861
Pb 220.353	2.2806	ppb	0.5291	23.2	35.3664
Sb 206.834	0.0315	ppb	3.3561	10656.1	-3.1455
Se 196.026	3.6182	ppb	5.2585	145.3	13.4794
Sn 189.925	-1.2544	ppb	0.2652	21.1	-17.9319
Sr 216.596	145.223	ppb	0.7815	0.5	2148.49
Ti 334.941	1.0097	ppb	0.0399	4.0	407.825
Tl 190.794	0.7101	ppb	1.4619	205.9	-19.2879
V 292.401	0.2095	ppb	0.0768	36.7	-3.3156
Zn 206.200	4.9624	ppb	0.4859	9.8	16.5788

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680-90122-a-4-a (Samp) **5/16/2013, 9:42:35 PM** **Rack 2, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4382	0.3280	-0.3283u
Al 308.215	8.9586	8.9976	10.9114
As 188.980	4.2908	-4.4709u	-1.3722
B 249.678	16.1576	16.0709	16.2629
Ba 389.178	76.9693	76.1472	75.8571
Be 313.042	-0.0332	-0.0293	-0.0333
Ca 370.602	217409	219712	218884
Cd 226.502	-0.1981	-0.2045	-0.1769
Co 228.615	0.2168	0.5114	-0.0880u
Cr 267.716	0.3741	0.3131	0.0259
Cu 324.754	-0.1756u	-0.5115u	-0.2074u
Fe 271.441	10558.6	10607.2	10613.8
K 766.491	3088.50	3091.92	3102.16
Mg 279.078	36712.1	36849.2	36771.0
Mn 257.610	2935.37	2956.22	2947.07
Mo 202.032	-0.1590u	0.0724u	0.3090
Na 330.237	10127.7	10335.6	10365.4
Ni 231.604	0.4637	-0.2215u	-0.5569u
Pb 220.353	2.1909	2.6152	1.6930
Sb 206.834	2.2614	-2.6490u	-1.6749u
Se 196.026	0.3142	-1.2902	1.5482
Sn 189.925	-1.2016u	-1.5119u	0.4187
Sr 216.596	365.794	366.165	365.819
Ti 334.941	-0.1149	-0.0603	-0.1714
Tl 190.794	3.4291u	5.2413	3.3825u
V 292.401	0.4206	0.1241	0.4944
Zn 206.200	4.0056	3.7436	2.5528

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1460	ppb	0.4144	283.9	-22.5673
Al 308.215	9.6225	ppb	1.1164	11.6	5.2949
As 188.980	-0.5174	ppb	4.4430	858.7	-9.5807
B 249.678	16.1638	ppb	0.0961	0.6	383.584
Ba 389.178	76.3245	ppb	0.5769	0.8	2106.52
Be 313.042	-0.0319	ppb	0.0023	7.1	-433.615
Ca 370.602	218668	ppb	1167	0.5	766790
Cd 226.502	-0.1932	ppb	0.0145	7.5	72.8685
Co 228.615	0.2134	ppb	0.2997	140.5	7.1657
Cr 267.716	0.2377	ppb	0.1859	78.2	37.8393
Cu 324.754	-0.2982	ppb	0.1855	62.2	283.937
Fe 271.441	10593.2	ppb	30.1324	0.3	21952.1
K 766.491	3094.19	ppb	7.1122	0.2	129972
Mg 279.078	36777.5	ppb	68.7797	0.2	96789.2
Mn 257.610	2946.22	ppb	10.4514	0.4	210472
Mo 202.032	0.0741	ppb	0.2340	315.7	17.3037
Na 330.237	10276.3	ppb	129.475	1.3	644.672
Ni 231.604	-0.1049	ppb	0.5202	496.0	-0.0497
Pb 220.353	2.1664	ppb	0.4616	21.3	35.9367
Sb 206.834	-0.6875	ppb	2.5999	378.1	-3.7352
Se 196.026	0.1907	ppb	1.4232	746.2	12.2606
Sn 189.925	-0.7649	ppb	1.0367	135.5	-17.3094
Sr 216.596	365.926	ppb	0.2075	0.1	5388.46
Ti 334.941	-0.1155	ppb	0.0556	48.1	116.503
Tl 190.794	4.0176	ppb	1.0600	26.4	-20.7658
V 292.401	0.3464	ppb	0.1960	56.6	1.4544
Zn 206.200	3.4340	ppb	0.743	22.5	14.9666

680-90122-a-6-a (Samp) **5/16/2013, 9:48:01 PM** **Rack 2, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6618u	-0.0371u	-0.0845u
Al 308.215	77.2084	73.3063	78.0071
As 188.980	-1.4760u	-4.6870u	-3.9526u
B 249.678	4.3566	4.2677	4.3312
Ba 389.178	26.1315	26.4964	24.9976
Be 313.042	0.0130	0.0053	0.0113
Ca 370.602	80357	80532	80497
Cd 226.502	0.3337	0.2287	0.2811
Co 228.615	-0.3004u	0.1472	0.4967
Cr 267.716	0.5526	0.7867	0.9321
Cu 324.754	1.5269	2.4103	2.0644
Fe 271.441	199.525	199.692	204.936
K 766.491	329.842	330.858	330.943
Mg 279.078	15400.7	15401.8	15410.1
Mn 257.610	18.4076	18.3820	18.4929
Mo 202.032	-0.1132u	0.0094	-0.0261u
Na 330.237	4870.04	4836.63	4660.50
Ni 231.604	0.3617	0.3045	-0.0479u
Pb 220.353	1.0468	0.5555	1.5036
Sb 206.834	4.1660	-2.9299u	-1.2798u
Se 196.026	1.4414	-0.8648u	-1.4509u
Sn 189.925	-0.6518u	-1.3128u	-0.5374u
Sr 216.596	115.099	114.122	114.812
Ti 334.941	0.6224	0.5504	0.6729
Tl 190.794	4.2987	-2.9342u	-0.9039u
V 292.401	-0.0434u	0.3103	-0.1774u
Zn 206.200	20.0495	21.3418	19.9758

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2611	ppb	0.3478	133.2	-60.1058
Al 308.215	76.1739	ppb	2.5153	3.3	161.495
As 188.980	-3.3719	ppb	1.6825	49.9	-13.0003
B 249.678	4.3185	ppb	0.0458	1.1	213.469
Ba 389.178	25.8752	ppb	0.7816	3.0	698.536
Be 313.042	0.0098	ppb	0.0041	41.2	-395.305
Ca 370.602	80462	ppb	92.59	0.1	282458
Cd 226.502	0.2812	ppb	0.0525	18.7	52.7667
Co 228.615	0.1145	ppb	0.3996	349.0	6.1141
Cr 267.716	0.7571	ppb	0.1915	25.3	50.0577
Cu 324.754	2.0005	ppb	0.4452	22.3	400.368
Fe 271.441	201.384	ppb	3.0773	1.5	448.231
K 766.491	330.548	ppb	0.6127	0.2	14134.1
Mg 279.078	15404.2	ppb	5.1214	0.0	40583.9
Mn 257.610	18.4275	ppb	0.0581	0.3	1491.41
Mo 202.032	-0.0433	ppb	0.0631	145.8	16.9102
Na 330.237	4789.06	ppb	112.577	2.4	341.384
Ni 231.604	0.2061	ppb	0.2218	107.6	0.7699
Pb 220.353	1.0353	ppb	0.4741	45.8	32.5084
Sb 206.834	-0.0145	ppb	3.7133	25526.3	-3.2037
Se 196.026	-0.2915	ppb	1.5290	524.6	10.9446
Sn 189.925	-0.8340	ppb	0.4186	50.2	-17.4699
Sr 216.596	114.678	ppb	0.5020	0.4	1701.36
Ti 334.941	0.6152	ppb	0.0616	10.0	244.786
Tl 190.794	0.1535	ppb	3.7306	2429.6	-19.7718
V 292.401	0.0298	ppb	0.2520	844.9	-8.9970
Zn 206.200	20.4557	ppb	0.7683	3.8	46.7306

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680-90143-c-1-a (Samp) 5/16/2013, 9:53:26 PM Rack 2, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2266u	1.0669u	1.6202u
Al 308.215	62.2711	42.5595	26.9863
As 188.980	14.9938	16.9501	9.1181
B 249.678	534.773	541.240	529.934
Ba 389.178	25.9561	22.5764	21.0105
Be 313.042	-0.0452u	0.0003	0.0050
Ca 370.602	198225	195804	172769
Cd 226.502	0.1749	-0.1724u	-0.1700u
Co 228.615	-0.8925	-0.8101	-0.4551
Cr 267.716	5163.42	5058.93	4613.16
Cu 324.754	2.4242	0.7296	1.5929
Fe 271.441	71.8237	60.0516	54.8628
K 766.491	8983.82	7658.99	7058.95
Mg 279.078	88987.2	81083.7	69067.4
Mn 257.610	-0.7724	-0.9586	-1.0780
Mo 202.032	7.0060	5.0325	4.3912
Na 330.237	310869x	279665x	243248x
Ni 231.604	7.1096	4.4502	3.4178
Pb 220.353	6.6263	0.2815	1.4484
Sb 206.834	51.8235	47.6313	33.8442
Se 196.026	17.1810	8.2229	-0.2594u
Sn 189.925	-2.0152u	-3.6529u	-0.2861u
Sr 216.596	7566.93x	7226.47x	6187.02x
Ti 334.941	0.0856	-0.0456	-0.1555
Tl 190.794	0.4156	-2.9333u	0.8133
V 292.401	118.465	115.968	112.938
Zn 206.200	5.0805u	5.6781u	3.9308u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9712b	ppb	0.7017	72.2	-322.636
Al 308.215	43.9389b	ppb	17.6828	40.2	85.3839
As 188.980	13.6873b	ppb	4.0762	29.8	0.1503
B 249.678	535.316b	ppb	5.6725	1.1	8569.33
Ba 389.178	23.1810b	ppb	2.5276	10.9	819.409
Be 313.042	-0.0133b	ppb	0.0277	208.7	-447.711
Ca 370.602	188933b	ppb	14050	7.4	663258
Cd 226.502	-0.0558b	ppb	0.1998	357.8	34.9976
Co 228.615	-0.7193b	ppb	0.2324	32.3	14.4631
Cr 267.716	4945.17b	ppb	292.236	5.9	292726
Cu 324.754	1.5822b	ppb	0.8474	53.6	377.629
Fe 271.441	62.2460b	ppb	8.6907	14.0	173.213
K 766.491	7900.59b	ppb	984.915	12.5	331430
Mg 279.078	79712.8b	ppb	10030.4	12.6	209863
Mn 257.610	-0.9363b	ppb	0.1540	16.5	271.972
Mo 202.032	5.4766b	ppb	1.3628	24.9	64.3448
Na 330.237	277927xb	ppb	33844.2	12.2	15599.9
Ni 231.604	4.9926b	ppb	1.9047	38.2	17.9021
Pb 220.353	2.7854b	ppb	3.3771	121.2	36.4749
Sb 206.834	44.4330b	ppb	9.4067	21.2	109.202
Se 196.026	8.3815b	ppb	8.7213	104.1	16.5063
Sn 189.925	-1.9848b	ppb	1.6836	84.8	-18.5889
Sr 216.596	6993.47xb	ppb	718.859	10.3	101980
Ti 334.941	-0.0385b	ppb	0.1207	313.5	349.906
Tl 190.794	-0.5682b	ppb	2.0579	362.2	-20.4749
V 292.401	115.790b	ppb	2.7677	2.4	3353.51
Zn 206.200	4.8965b	ppb	0.8881	18.1	244796

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680-90143-c-1-a (Samp) **5/16/2013, 9:59:03 PM** **Rack 2, Tube 11**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0137u	0.0651u	0.2854u
Al 308.215	7.5790	10.2996	4.8245
As 188.980	3.3189	0.0162	2.1058
B 249.678	108.845	109.352	109.768
Ba 389.178	2.3593	2.6511	2.5179
Be 313.042	0.0092	0.0051	0.0069
Ca 370.602	34492	34498	34529
Cd 226.502	-0.1601u	0.0765	-0.3141u
Co 228.615	-0.5134u	0.0906	-0.3011u
Cr 267.716	932.019	933.109	936.183
Cu 324.754	0.0967	-0.2651u	0.5606
Fe 271.441	14.0052	5.9789	14.2176
K 766.491	1142.92	1139.74	1141.20
Mg 279.078	13607.6	13588.3	13651.1
Mn 257.610	-0.0254	-0.0834	-0.0153
Mo 202.032	0.9614	0.9517	0.4331
Na 330.237	42655.3	42587.5	42781.1
Ni 231.604	-0.1297u	0.0883	0.4268
Pb 220.353	1.4792	-2.0201u	1.6728
Sb 206.834	7.9102	5.3673	10.5348
Se 196.026	0.2768	-3.3915u	-4.2984u
Sn 189.925	0.7288	2.0779	-1.0684u
Sr 216.596	1253.92	1255.60	1260.17
Ti 334.941	0.0233	-0.0141	0.0263
Tl 190.794	1.6796	0.2557	-2.0233u
V 292.401	22.1953	22.5229	22.5464
Zn 206.200	1.9275	0.2193u	-0.4144u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1214	ppb	0.1444	118.9	-87.4176
Al 308.215	7.5677	ppb	2.7376	36.2	0.3717
As 188.980	1.8136	ppb	1.6706	92.1	-9.7613
B 249.678	109.322	ppb	0.4620	0.4	1866.06
Ba 389.178	2.5094	ppb	0.1461	5.8	78.1525
Be 313.042	0.0071	ppb	0.0020	28.7	-425.683
Ca 370.602	34506	ppb	19.84	0.1	121145
Cd 226.502	-0.1326	ppb	0.1968	148.4	31.6186
Co 228.615	-0.2413	ppb	0.3064	127.0	4.5906
Cr 267.716	933.771	ppb	2.1594	0.2	55277.7
Cu 324.754	0.1307	ppb	0.4139	316.6	302.818
Fe 271.441	11.4005	ppb	4.6965	41.2	57.4986
K 766.491	1141.28	ppb	1.5919	0.1	48115.8
Mg 279.078	13615.7	ppb	32.1300	0.2	35876.3
Mn 257.610	-0.0413	ppb	0.0367	88.9	168.650
Mo 202.032	0.7821	ppb	0.3023	38.6	24.0018
Na 330.237	42674.6	ppb	98.2656	0.2	2458.02
Ni 231.604	0.1285	ppb	0.2805	218.3	0.4877
Pb 220.353	0.3773	ppb	2.0785	550.8	31.0026
Sb 206.834	7.9375	ppb	2.5839	32.6	17.4814
Se 196.026	-2.4710	ppb	2.4225	98.0	9.5380
Sn 189.925	0.5794	ppb	1.5785	272.4	-15.8725
Sr 216.596	1256.56	ppb	3.2320	0.3	18338.8
Ti 334.941	0.0118	ppb	0.0225	190.6	29.1132
Tl 190.794	-0.0293	ppb	1.8678	6371.5	-19.9221
V 292.401	22.4215	ppb	0.1963	0.9	643.096
Zn 206.200	0.5774	ppb	1.2113	209.8	-4.4160

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680-90143-c-1-a (Samp) 5/16/2013, 10:04:30 PM Rack 2, Tube 12**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.4910	49.6753	49.6091
Al 308.215	1973.16	1979.64	1971.33
As 188.980	2394.15	2332.25	2334.62
B 249.678	1449.54	1446.81	1457.58
Ba 389.178	2011.09	1983.07	1991.88
Be 313.042	50.9271	50.2537	50.3605
Ca 370.602	178830	172693	172507
Cd 226.502	50.9742	49.1306	49.2932
Co 228.615	510.379	486.279	489.920
Cr 267.716	4756.59	4662.75	4689.69
Cu 324.754	248.278	252.473	252.512
Fe 271.441	1041.48	1013.13	1009.34
K 766.491	12740.1	13240.9	13267.5
Mg 279.078	73658.3	71673.9	71906.7
Mn 257.610	522.808	511.922	516.284
Mo 202.032	500.358	491.571	492.008
Na 330.237	240480x	240532x	240664x
Ni 231.604	511.510	488.100	487.199
Pb 220.353	514.536	499.628	505.325
Sb 206.834	541.651	544.670	537.358
Se 196.026	2175.11	2118.07	2125.65
Sn 189.925	977.139	940.717	948.146
Sr 216.596	6672.85x	6449.24x	6462.25x
Ti 334.941	895.183	893.131	897.952
Tl 190.794	2056.93	2016.73	2027.69
V 292.401	596.868	592.683	593.786
Zn 206.200	527.678	502.896	506.024

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.5918b	ppb	0.0934	0.2	4029.89
Al 308.215	1974.71b	ppb	4.3668	0.2	4640.00
As 188.980	2353.67b	ppb	35.0710	1.5	1664.22
B 249.678	1451.31b	ppb	5.5965	0.4	22981.7
Ba 389.178	1995.35b	ppb	14.3304	0.7	52700.0
Be 313.042	50.5138b	ppb	0.3619	0.7	109603
Ca 370.602	174676b	ppb	3599	2.1	613325
Cd 226.502	49.7993b	ppb	1.0207	2.0	2462.79
Co 228.615	495.526b	ppb	12.9913	2.6	7754.67
Cr 267.716	4703.01b	ppb	48.3193	1.0	278390
Cu 324.754	251.088b	ppb	2.4332	1.0	13371.5
Fe 271.441	1021.32b	ppb	17.5635	1.7	2255.08
K 766.491	13082.9b	ppb	297.103	2.3	548644
Mg 279.078	72413.0b	ppb	1084.76	1.5	190638
Mn 257.610	517.005b	ppb	5.4784	1.1	37213.2
Mo 202.032	494.645b	ppb	4.9517	1.0	4287.13
Na 330.237	240558xb	ppb	94.9212	0.0	13500.4
Ni 231.604	495.603b	ppb	13.7830	2.8	1773.84
Pb 220.353	506.496b	ppb	7.5227	1.5	1181.45
Sb 206.834	541.226b	ppb	3.6744	0.7	700.587
Se 196.026	2139.61b	ppb	30.9767	1.4	1384.95
Sn 189.925	955.334b	ppb	19.2453	2.0	1069.21
Sr 216.596	6528.12xb	ppb	125.510	1.9	95160.4
Ti 334.941	895.422b	ppb	2.4193	0.3	300939
Tl 190.794	2033.79b	ppb	20.7811	1.0	2215.32
V 292.401	594.445b	ppb	2.1693	0.4	18662.3
Zn 206.200	512.199b	ppb	13.4958	2.6	986.930

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680-90143-c-2-a (Samp) **5/16/2013, 10:20:45 PM** **Rack 2, Tube 15**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.6713u	0.6371u	0.1910u
Al 308.215	363.424	366.687	500.032
As 188.980	107.783	114.852	165.562
B 249.678	454.707	457.404	482.627
Ba 389.178	95.4457	96.8178	113.501
Be 313.042	0.6478	0.6445	0.6836
Ca 370.602	150040	151188	194148
Cd 226.502	-0.3290	-0.1847	0.5787
Co 228.615	5.2238	5.2548	6.4744
Cr 267.716	577.073	580.211	709.234
Cu 324.754	9.1069	8.7080	7.0080
Fe 271.441	13691.3	13764.9	17323.9
K 766.491	6232.28	6220.93	10321.8
Mg 279.078	55440.8	55841.7	82803.5
Mn 257.610	3428.24	3473.53	4267.21
Mo 202.032	5.2694	5.1044	8.9109
Na 330.237	205260x	207706x	285323x
Ni 231.604	24.7871	25.2097	37.6218
Pb 220.353	6.1130	7.8852	15.2340
Sb 206.834	0.4999	2.9598	12.8631
Se 196.026	10.6663	8.1919	9.9224
Sn 189.925	0.1015	-1.4028u	-3.3035u
Sr 216.596	4255.57	4286.02	6029.48x
Ti 334.941	3.3124	3.4570	3.8206
Tl 190.794	7.8802	12.0768	11.3579
V 292.401	397.570	398.144	445.591
Zn 206.200	9.5571	8.4175	19.9843

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4998b	ppb	0.2680	53.6	-228.345
Al 308.215	410.048b	ppb	77.9457	19.0	942.411
As 188.980	129.399b	ppb	31.5170	24.4	82.2823
B 249.678	464.913b	ppb	15.4006	3.3	7438.09
Ba 389.178	101.921b	ppb	10.0514	9.9	2871.49
Be 313.042	0.6586b	ppb	0.0216	3.3	1000.13
Ca 370.602	165125b	ppb	25141	15.2	578457
Cd 226.502	0.0217b	ppb	0.4878	2252.4	100.375
Co 228.615	5.6510b	ppb	0.7132	12.6	94.2809
Cr 267.716	622.173b	ppb	75.4139	12.1	36856.0
Cu 324.754	8.2743b	ppb	1.1146	13.5	727.282
Fe 271.441	14926.7b	ppb	2076.35	13.9	30925.6
K 766.491	7591.66b	ppb	2364.34	31.1	318481
Mg 279.078	64695.4b	ppb	15683.4	24.2	170266
Mn 257.610	3722.99b	ppb	471.847	12.7	265974
Mo 202.032	6.4282b	ppb	2.1517	33.5	70.9789
Na 330.237	232763xb	ppb	45534.9	19.6	13071.9
Ni 231.604	29.2062b	ppb	7.2912	25.0	104.981
Pb 220.353	9.7441b	ppb	4.8363	49.6	53.3613
Sb 206.834	5.4409b	ppb	6.5444	120.3	11.1016
Se 196.026	9.5935b	ppb	1.2696	13.2	18.5299
Sn 189.925	-1.5349b	ppb	1.7063	111.2	-18.1125
Sr 216.596	4857.02xb	ppb	1015.49	20.9	70843.7
Ti 334.941	3.5300b	ppb	0.2619	7.4	1472.56
Tl 190.794	10.4383b	ppb	2.2443	21.5	-14.7277
V 292.401	413.768b	ppb	27.5603	6.7	13244.1
Zn 206.200	12.6530b	ppb	6.3747	50.4	31.1424

680-90143-c-3-a (Samp) **5/16/2013, 10:26:10 PM** **Rack 2, Tube 16**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5060u	0.5183u	0.3730u
Al 308.215	28.9644	9.4399	81.7031
As 188.980	15.0542	15.3000	25.7947
B 249.678	619.377	606.462	644.261
Ba 389.178	30.6231	28.3518	34.3475
Be 313.042	0.0244	0.0266	-0.0426u
Ca 370.602	207421	181196	227926
Cd 226.502	-0.0812u	-0.1409u	0.3625
Co 228.615	2.0227	0.8784	0.0164u
Cr 267.716	4.0354	3.4351	5.2919
Cu 324.754	-0.8269u	0.3342	-0.3791u
Fe 271.441	560.056	502.682	646.938
K 766.491	7923.87	7614.47	11562.8
Mg 279.078	83281.0	69871.2	102325
Mn 257.610	2210.53	2004.54	2501.52
Mo 202.032	28.3100	25.9271	33.6960
Na 330.237	374179x	322787x	441623x
Ni 231.604	9.1732	7.5944	12.1984
Pb 220.353	2.3895	1.4628	4.0337
Sb 206.834	-0.4889u	-0.5708u	8.9666
Se 196.026	6.4164	6.9064	5.4427
Sn 189.925	0.2368	-2.8925u	-5.6434u
Sr 216.596	5055.36x	4373.76	6104.55x
Ti 334.941	-0.4549	-0.5759	-0.2296
Tl 190.794	4.2947	1.9254u	4.0499
V 292.401	19.2952	18.2719	20.3654
Zn 206.200	4.0906	3.0144	10.2244

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4658b	ppb	0.0806	17.3	-258.281
Al 308.215	40.0358b	ppb	37.3822	93.4	78.1273
As 188.980	18.7163b	ppb	6.1313	32.8	3.8540
B 249.678	623.367b	ppb	19.2127	3.1	9954.11
Ba 389.178	31.1074b	ppb	3.0271	9.7	1044.76
Be 313.042	0.0028b	ppb	0.0394	1399.3	-422.083
Ca 370.602	205514b	ppb	23423	11.4	721488
Cd 226.502	0.0468b	ppb	0.2750	587.2	41.4258
Co 228.615	0.9725b	ppb	1.0065	103.5	18.1670
Cr 267.716	4.2541b	ppb	0.9475	22.3	276.206
Cu 324.754	-0.2906b	ppb	0.5856	201.5	281.893
Fe 271.441	569.892b	ppb	72.6292	12.7	1211.15
K 766.491	9033.70b	ppb	2195.69	24.3	378924
Mg 279.078	85158.9b	ppb	16308.0	19.2	224157
Mn 257.610	2238.86b	ppb	249.694	11.2	160110
Mo 202.032	29.3110b	ppb	3.9800	13.6	270.316
Na 330.237	379530xb	ppb	59598.0	15.7	21275.4
Ni 231.604	9.6554b	ppb	2.3396	24.2	34.5996
Pb 220.353	2.6287b	ppb	1.3020	49.5	36.7069
Sb 206.834	2.6356b	ppb	5.4830	208.0	-0.4233
Se 196.026	6.2552b	ppb	0.7450	11.9	15.8303
Sn 189.925	-2.7664b	ppb	2.9421	106.4	-19.4212
Sr 216.596	5177.89xb	ppb	871.879	16.8	75517.0
Ti 334.941	-0.4202b	ppb	0.1758	41.8	241.846
Tl 190.794	3.4233b	ppb	1.3030	38.1	-19.6146
V 292.401	19.3108b	ppb	1.0468	5.4	601.449
Zn 206.200	5.7765b	ppb	3.8894	67.3	18.1678

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680-90143-c-4-a (Samp) **5/16/2013, 10:31:34 PM** **Rack 2, Tube 17**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2427u	0.6393u	0.0094u
Al 308.215	51.7505	15.8491	52.3013
As 188.980	13.3245	5.9194	9.0361
B 249.678	548.522	524.122	542.780
Ba 389.178	38.2763	32.6827	38.2624
Be 313.042	-0.0930u	-0.0246u	-0.0866u
Ca 370.602	228178	195842	227889
Cd 226.502	0.2398	0.0914	0.1847
Co 228.615	0.7079	1.8002	2.4698
Cr 267.716	375.445	318.175	368.372
Cu 324.754	-1.6838u	0.1668	0.4632
Fe 271.441	64.1896	38.3600	67.1564
K 766.491	11557.2	8133.14	11166.7
Mg 279.078	67028.1	48604.9	66123.3
Mn 257.610	52.9310	43.2213	51.5919
Mo 202.032	4.6943	2.5537	3.9055
Na 330.237	292934x	220387x	306251x
Ni 231.604	4.9125	3.3150	3.8877
Pb 220.353	3.8639	1.3234	3.1836
Sb 206.834	17.0811	2.2931	17.7405
Se 196.026	25.2406	11.6389	8.8649
Sn 189.925	-3.5416u	0.2074	-6.4353u
Sr 216.596	5368.84	4078.64	5256.60
Ti 334.941	-0.1802	-0.4714	-0.1862
Tl 190.794	-2.6806u	2.3778	-1.7871u
V 292.401	20.0845	16.9966	19.6807
Zn 206.200	47.8605	24.8357	42.6983

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1353b	ppb	0.4543	335.7	-283.634
Al 308.215	39.9669b	ppb	20.8885	52.3	76.5820
As 188.980	9.4266b	ppb	3.7180	39.4	-2.6464
B 249.678	538.475b	ppb	12.7571	2.4	8619.08
Ba 389.178	36.4071b	ppb	3.2254	8.9	1109.90
Be 313.042	-0.0681b	ppb	0.0378	55.5	-552.294
Ca 370.602	217303b	ppb	18586	8.6	762853
Cd 226.502	0.1719b	ppb	0.0750	43.6	45.7072
Co 228.615	1.6593b	ppb	0.8894	53.6	31.5797
Cr 267.716	353.998b	ppb	31.2241	8.8	20964.8
Cu 324.754	-0.3513b	ppb	1.1635	331.2	277.849
Fe 271.441	56.5687b	ppb	15.8388	28.0	149.889
K 766.491	10285.7b	ppb	1874.35	18.2	431400
Mg 279.078	60585.4b	ppb	10385.3	17.1	159514
Mn 257.610	49.2481b	ppb	5.2621	10.7	3804.51
Mo 202.032	3.7179b	ppb	1.0826	29.1	49.3552
Na 330.237	273191xb	ppb	46211.5	16.9	15335.0
Ni 231.604	4.0384b	ppb	0.8093	20.0	14.4820
Pb 220.353	2.7903b	ppb	1.3152	47.1	36.5035
Sb 206.834	12.3715b	ppb	8.7344	70.6	15.9335
Se 196.026	15.2482b	ppb	8.7642	57.5	20.9296
Sn 189.925	-3.2565b	ppb	3.3305	102.3	-20.0221
Sr 216.596	4901.36b	ppb	714.705	14.6	71488.8
Ti 334.941	-0.2792b	ppb	0.1665	59.6	165.045
Tl 190.794	-0.6966b	ppb	2.6998	387.6	-20.7365
V 292.401	18.9206b	ppb	1.6784	8.9	570.173
Zn 206.200	38.4648b	ppb	12.0821	31.4	80.4448

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680-90143-c-5-a (Samp) **5/16/2013, 10:36:59 PM** **Rack 2, Tube 18**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4473u	0.8595u	0.9244u
Al 308.215	136.132	86.3517	150.802
As 188.980	18.3850	11.1885	22.5350
B 249.678	585.153	562.632	584.000
Ba 389.178	30.1602	28.1540	30.9088
Be 313.042	0.0104	0.0563	0.0179
Ca 370.602	215310	191809	208415
Cd 226.502	0.3077	-0.0750	0.0674
Co 228.615	-1.4473u	0.2099	-2.8550u
Cr 267.716	932.457	828.210	909.905
Cu 324.754	2.4141	1.8507	0.9532
Fe 271.441	1024.56	842.516	960.992
K 766.491	8708.60	5776.54	7852.98
Mg 279.078	103310	81065.8	97891.2
Mn 257.610	168.200	145.617	160.989
Mo 202.032	11.0985	8.3736	10.6309
Na 330.237	257802x	181729x	224759x
Ni 231.604	15.8693	12.9715	13.6906
Pb 220.353	0.4838	2.0364	5.8654
Sb 206.834	19.1464	7.7069	12.1981
Se 196.026	4.0120	0.5314	11.9707
Sn 189.925	-4.8072u	0.1974	-3.2809u
Sr 216.596	7649.29x	6551.76x	7420.82x
Ti 334.941	0.4643	0.3253	0.5707
Tl 190.794	-2.5786u	0.4810	0.7404
V 292.401	123.182	109.573	114.927
Zn 206.200	52.5636	35.0077	52.8679

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7437b	ppb	0.2588	34.8	-354.558
Al 308.215	124.428b	ppb	33.7814	27.1	274.449
As 188.980	17.3695b	ppb	5.7410	33.1	2.8939
B 249.678	577.261b	ppb	12.6823	2.2	9228.00
Ba 389.178	29.7410b	ppb	1.4244	4.8	1036.19
Be 313.042	0.0282b	ppb	0.0246	87.3	-346.694
Ca 370.602	205178b	ppb	12080	5.9	720213
Cd 226.502	0.1001b	ppb	0.1934	193.3	46.8511
Co 228.615	-1.3642b	ppb	1.5341	112.5	-13.4724
Cr 267.716	890.190b	ppb	54.8484	6.2	52701.9
Cu 324.754	1.7393b	ppb	0.7368	42.4	386.099
Fe 271.441	942.690b	ppb	92.3931	9.8	1985.15
K 766.491	7446.04b	ppb	1507.80	20.2	312378
Mg 279.078	94089.0b	ppb	11599.3	12.3	247703
Mn 257.610	158.269b	ppb	11.5349	7.3	11669.4
Mo 202.032	10.0343b	ppb	1.4571	14.5	103.628
Na 330.237	221430xb	ppb	38145.6	17.2	12443.1
Ni 231.604	14.1772b	ppb	1.5089	10.6	50.7951
Pb 220.353	2.7952b	ppb	2.7699	99.1	36.5360
Sb 206.834	13.0171b	ppb	5.7636	44.3	23.0176
Se 196.026	5.5047b	ppb	5.8639	106.5	14.7143
Sn 189.925	-2.6302b	ppb	2.5649	97.5	-19.3415
Sr 216.596	7207.29xb	ppb	579.087	8.0	105098
Ti 334.941	0.4534b	ppb	0.1230	27.1	598.066
Tl 190.794	-0.4524b	ppb	1.8459	408.1	-20.6379
V 292.401	115.894b	ppb	6.8558	5.9	3648.44
Zn 206.200	46.8131b	ppb	10.2249	21.8	94.7782

680-90143-c-6-a (Samp) 5/16/2013, 10:42:24 PM Rack 2, Tube 19
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3487u	0.8109u	0.8616u
Al 308.215	94.7343	73.9467	56.1302
As 188.980	18.6228	14.8724	26.5611
B 249.678	584.568	572.831	579.235
Ba 389.178	20.5940	19.5343	20.1717
Be 313.042	-0.0348u	-0.0393u	-0.0317u
Ca 370.602	125567	177068	170863
Cd 226.502	0.2841	0.1345	0.1955
Co 228.615	0.7115	-0.2503u	-1.0484u
Cr 267.716	331.587	330.275	320.825
Cu 324.754	-1.5291u	-0.6895u	0.0547
Fe 271.441	371.628	396.104	369.391
K 766.491	8075.02	8729.19	8491.05
Mg 279.078	78463.4	80483.6	75909.6
Mn 257.610	238.886	239.391	235.615
Mo 202.032	16.9426	18.4256	17.2262
Na 330.237	335131x	351484x	337112x
Ni 231.604	3.3538	3.1590	4.3595
Pb 220.353	5.5636	2.7881	2.4824
Sb 206.834	7.3947	9.2252	-0.7321
Se 196.026	11.0569	19.3773	18.3254
Sn 189.925	-1.8269u	-5.7986u	-6.1165u
Sr 216.596	5057.57	5130.43	4856.55
Ti 334.941	-0.3796	-0.2788	-0.4039
Tl 190.794	-8.9718u	-7.8371u	-6.4530u
V 292.401	93.3932	102.664	99.2607
Zn 206.200	6.9114	5.4776	2.5381

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6737b	ppb	0.2826	41.9	-242.539
Al 308.215	74.9371b	ppb	19.3211	25.8	158.814
As 188.980	20.0188b	ppb	5.9680	29.8	4.3087
B 249.678	578.878b	ppb	5.8769	1.0	9254.34
Ba 389.178	20.1000b	ppb	0.5335	2.7	734.481
Be 313.042	-0.0353b	ppb	0.0038	10.8	-519.909
Ca 370.602	157833b	ppb	28115	17.8	554060
Cd 226.502	0.2047b	ppb	0.0752	36.8	48.4651
Co 228.615	-0.1958b	ppb	0.8812	450.1	1.9295
Cr 267.716	327.562b	ppb	5.8716	1.8	19401.6
Cu 324.754	-0.7213b	ppb	0.7924	109.9	258.253
Fe 271.441	379.041b	ppb	14.8192	3.9	817.483
K 766.491	8431.75b	ppb	331.090	3.9	353694
Mg 279.078	78285.6b	ppb	2292.18	2.9	206102
Mn 257.610	237.964b	ppb	2.0496	0.9	17315.4
Mo 202.032	17.5315b	ppb	0.7872	4.5	168.435
Na 330.237	341242xb	ppb	8924.49	2.6	19136.7
Ni 231.604	3.6241b	ppb	0.6443	17.8	13.0086
Pb 220.353	3.6114b	ppb	1.6976	47.0	38.4008
Sb 206.834	5.2959b	ppb	5.3000	100.1	6.8336
Se 196.026	16.2532b	ppb	4.5307	27.9	21.6335
Sn 189.925	-4.5807b	ppb	2.3901	52.2	-21.5289
Sr 216.596	5014.85b	ppb	141.853	2.8	73134.4
Ti 334.941	-0.3541b	ppb	0.0663	18.7	230.220
Tl 190.794	-7.7540b	ppb	1.2615	16.3	-28.7589
V 292.401	98.4394b	ppb	4.6898	4.8	3124.91
Zn 206.200	4.9757b	ppb	2.2294	44.8	15.3452

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680-90143-c-7-a (Samp) 5/16/2013, 10:47:49 PM Rack 2, Tube 20**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.9103u	0.7578u	0.2451u
Al 308.215	95.1528	156.102	173.229
As 188.980	46.8845	43.5489	45.6890
B 249.678	631.042	659.867	675.543
Ba 389.178	58.0436	59.0193	63.2597
Be 313.042	0.1540	0.1326	0.1217
Ca 370.602	153721	204714	205087
Cd 226.502	-0.0845	0.2294	0.4690
Co 228.615	2.5580	0.9442	1.3584
Cr 267.716	230.484	243.829	251.856
Cu 324.754	1.2306	1.7055	3.0691
Fe 271.441	13789.1	14820.7	15356.7
K 766.491	8224.26	10153.5	9985.65
Mg 279.078	84246.2	94347.9	98217.2
Mn 257.610	2042.05	2462.23	2500.51
Mo 202.032	19.6598	22.3678	26.1762
Na 330.237	328362x	364195x	369034x
Ni 231.604	15.5514	18.1557	20.2018
Pb 220.353	0.5623	6.6936	4.7459
Sb 206.834	9.2715	0.9848	4.8973
Se 196.026	4.4666	-7.3577u	-9.7319u
Sn 189.925	-1.0415u	-8.8155u	-4.0069u
Sr 216.596	6392.91x	6791.63x	6807.27x
Ti 334.941	5.3105	5.5013	5.7180
Tl 190.794	0.6780u	0.5936u	-8.5280u
V 292.401	72.5659	75.3518	84.3519
Zn 206.200	9.4134	12.1953	12.6924

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6377b	ppb	0.3485	54.6	-325.482
Al 308.215	141.494b	ppb	41.0366	29.0	315.481
As 188.980	45.3741b	ppb	1.6900	3.7	22.6722
B 249.678	655.484b	ppb	22.5721	3.4	10437.3
Ba 389.178	60.1075b	ppb	2.7731	4.6	1851.80
Be 313.042	0.1361b	ppb	0.0164	12.0	-138.187
Ca 370.602	187841b	ppb	29549	15.7	658176
Cd 226.502	0.2047b	ppb	0.2775	135.6	107.841
Co 228.615	1.6202b	ppb	0.8381	51.7	29.1508
Cr 267.716	242.056b	ppb	10.7957	4.5	14355.2
Cu 324.754	2.0017b	ppb	0.9544	47.7	404.767
Fe 271.441	14655.5b	ppb	796.741	5.4	30359.9
K 766.491	9454.48b	ppb	1068.70	11.3	396561
Mg 279.078	92270.4b	ppb	7213.45	7.8	242879
Mn 257.610	2334.93b	ppb	254.363	10.9	166995
Mo 202.032	22.7346b	ppb	3.2736	14.4	212.554
Na 330.237	353864xb	ppb	22217.7	6.3	19836.9
Ni 231.604	17.9696b	ppb	2.3308	13.0	64.7573
Pb 220.353	4.0006b	ppb	3.1328	78.3	39.8390
Sb 206.834	5.0512b	ppb	4.1455	82.1	5.8230
Se 196.026	-4.2077b	ppb	7.6054	180.7	9.2215
Sn 189.925	-4.6213b	ppb	3.9233	84.9	-21.5531
Sr 216.596	6663.93xb	ppb	234.846	3.5	97182.5
Ti 334.941	5.5099b	ppb	0.2039	3.7	2275.22
Tl 190.794	-2.4188b	ppb	5.2909	218.7	-26.8045
V 292.401	77.4232b	ppb	6.1600	8.0	2454.37
Zn 206.200	11.4337b	ppb	1.7672	15.5	301868

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680-90143-c-8-a (Samp) 5/16/2013, 10:53:14 PM Rack 2, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.3636u	0.4205u	0.8217u
Al 308.215	122.656	166.416	162.467
As 188.980	10.0195	15.5622	8.9157
B 249.678	471.605	470.380	466.647
Ba 389.178	24.1106	23.2387	25.7659
Be 313.042	-0.0485u	-0.0576u	-0.0666u
Ca 370.602	122966	192594	189673
Cd 226.502	0.2222	0.0693	0.3605
Co 228.615	-0.9675u	-1.5615u	-0.9052u
Cr 267.716	847.633	857.194	852.543
Cu 324.754	2.7001	1.4964	1.3601
Fe 271.441	145.807	148.218	163.987
K 766.491	8144.81	9462.94	8938.84
Mg 279.078	79304.4	85165.6	84309.1
Mn 257.610	2.3098	2.6128	2.8942
Mo 202.032	6.6001	6.2806	7.1345
Na 330.237	204251x	216221x	209730x
Ni 231.604	6.6371	7.7585	3.2162
Pb 220.353	3.6333	8.3271	12.2406
Sb 206.834	12.6305	29.3474	17.1922
Se 196.026	6.7682	0.2906	6.7641
Sn 189.925	-0.3991u	-1.7711u	-2.1160u
Sr 216.596	5774.27x	5979.33x	5952.92x
Ti 334.941	0.2618	0.3748	0.3741
Tl 190.794	-4.2532u	-4.5833u	-10.6377u
V 292.401	75.0462	75.6020	83.0620
Zn 206.200	24.8421	27.3473	29.6281

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8686b	ppb	0.4733	54.5	-292.633
Al 308.215	150.513b	ppb	24.2057	16.1	335.750
As 188.980	11.4991b	ppb	3.5617	31.0	-1.5899
B 249.678	469.544b	ppb	2.5824	0.5	7534.22
Ba 389.178	24.3717b	ppb	1.2837	5.3	864.628
Be 313.042	-0.0576b	ppb	0.0090	15.7	-542.140
Ca 370.602	168411b	ppb	39384	23.4	591208
Cd 226.502	0.2173b	ppb	0.1456	67.0	49.2389
Co 228.615	-1.1447b	ppb	0.3623	31.6	-10.0360
Cr 267.716	852.457b	ppb	4.7812	0.6	50467.5
Cu 324.754	1.8522b	ppb	0.7374	39.8	392.025
Fe 271.441	152.671b	ppb	9.8738	6.5	349.958
K 766.491	8848.86b	ppb	663.652	7.5	371177
Mg 279.078	82926.3b	ppb	3165.85	3.8	218322
Mn 257.610	2.6056b	ppb	0.2922	11.2	536.523
Mo 202.032	6.6717b	ppb	0.4314	6.5	74.7239
Na 330.237	210067xb	ppb	5992.25	2.9	11808.7
Ni 231.604	5.8706b	ppb	2.3661	40.3	21.0433
Pb 220.353	8.0670b	ppb	4.3095	53.4	48.4986
Sb 206.834	19.7234b	ppb	8.6411	43.8	30.7025
Se 196.026	4.6076b	ppb	3.7386	81.1	14.0849
Sn 189.925	-1.4287b	ppb	0.9082	63.6	-18.0002
Sr 216.596	5902.17xb	ppb	111.554	1.9	86070.5
Ti 334.941	0.3369b	ppb	0.0651	19.3	507.320
Tl 190.794	-6.4914b	ppb	3.5946	55.4	-27.0127
V 292.401	77.9034b	ppb	4.4761	5.7	2430.82
Zn 206.200	27.2725b	ppb	2.3939	8.8	56.7555

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680-90122-i-3-a (Samp) **5/16/2013, 10:58:40 PM** **Rack 2, Tube 22****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1769	0.9498	0.9976
Al 308.215	5042.45	4981.16	4481.91
As 188.980	167.797	153.728	128.448
B 249.678	229.298	225.962	221.456
Ba 389.178	185.174	188.824	175.895
Be 313.042	53.7017	52.2297	50.9024
Ca 370.602	241678	228781	227357
Cd 226.502	71.0563	66.6673	56.2211
Co 228.615	50.2665	56.4078	57.8123
Cr 267.716	115.031	109.500	105.293
Cu 324.754	75.7539	102.978	90.1791
Fe 271.441	12745.1	12229.8	11403.0
K 766.491	12444.0	10587.6	8700.59
Mg 279.078	61967.1	57630.0	51279.9
Mn 257.610	5289.46	5060.66	4730.43
Mo 202.032	126.544	122.220	113.129
Na 330.237	23740.8	22334.3	19839.7
Ni 231.604	137.463	120.371	105.932
Pb 220.353	80.1216	81.1258	58.2086
Sb 206.834	58.2008	71.6665	49.8574
Se 196.026	162.019	148.144	114.299
Sn 189.925	274.045	247.886	224.284
Sr 216.596	593.590	550.820	512.711
Ti 334.941	95.2208	94.1654	93.4311
Tl 190.794	58.1407	58.4997	55.8936
V 292.401	105.192	110.148	100.065
Zn 206.200	189.587	170.259	133.285

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7081	ppb	0.4607	65.1	22.6214
Al 308.215	4835.18	ppb	307.466	6.4	11336.8
As 188.980	149.991	ppb	19.9388	13.3	97.5736
B 249.678	225.572	ppb	3.9355	1.7	3676.05
Ba 389.178	183.298	ppb	6.6656	3.6	4987.91
Be 313.042	52.2780	ppb	1.4003	2.7	113590
Ca 370.602	232605	ppb	7889	3.4	815617
Cd 226.502	64.6482	ppb	7.6209	11.8	3232.37
Co 228.615	54.8289	ppb	4.0131	7.3	856.112
Cr 267.716	109.941	ppb	4.8835	4.4	6537.01
Cu 324.754	89.6371	ppb	13.6204	15.2	4967.26
Fe 271.441	12126.0	ppb	677.044	5.6	25135.4
K 766.491	10577.4	ppb	1871.71	17.7	443628
Mg 279.078	56959.0	ppb	5375.13	9.4	149887
Mn 257.610	5026.85	ppb	281.045	5.6	358994
Mo 202.032	120.631	ppb	6.8473	5.7	1057.96
Na 330.237	21971.6	ppb	1975.69	9.0	1295.32
Ni 231.604	121.255	ppb	15.7841	13.0	434.353
Pb 220.353	73.1520	ppb	12.9511	17.7	197.680
Sb 206.834	59.9082	ppb	11.0043	18.4	69.5153
Se 196.026	141.487	ppb	24.5462	17.3	103.381
Sn 189.925	248.738	ppb	24.8915	10.0	266.221
Sr 216.596	552.374	ppb	40.4622	7.3	8100.06
Ti 334.941	94.2725	ppb	0.8996	1.0	31918.2
Tl 190.794	57.5113	ppb	1.4125	2.5	35.9959
V 292.401	105.135	ppb	5.0416	4.8	3335.45
Zn 206.200	164.377	ppb	28.6079	17.4	328.340

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680-90122-a-3-a ms (Samp) 5/16/2013, 11:04:06 PM Rack 2, Tube 23**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.5704	53.0622	51.6970
Al 308.215	5020.94	4518.76	4796.04
As 188.980	165.006	136.961	138.290
B 249.678	219.413	213.852	227.852
Ba 389.178	177.387	169.313	176.204
Be 313.042	54.0627	51.0523	54.2397
Ca 370.602	230243	215866	160706
Cd 226.502	72.0073	58.8922	67.5840
Co 228.615	59.3834	54.6571	57.7946
Cr 267.716	115.185	106.467	115.498
Cu 324.754	91.2785	97.2013	95.9850
Fe 271.441	17927.0	16391.3	17836.1
K 766.491	11440.8	9506.58	11136.4
Mg 279.078	51016.3	43424.4	49010.9
Mn 257.610	4464.12	4128.76	4056.15
Mo 202.032	116.415	104.967	114.615
Na 330.237	19218.7	15936.5	17828.4
Ni 231.604	124.234	109.220	115.690
Pb 220.353	83.9203	60.1535	74.0910
Sb 206.834	57.6738	56.4265	57.8005
Se 196.026	162.631	129.706	136.025
Sn 189.925	270.912	231.795	257.134
Sr 216.596	565.478	489.985	549.161
Ti 334.941	95.4142	93.9102	98.1873
Tl 190.794	61.9466	55.3930	52.2632
V 292.401	109.428	102.721	107.021
Zn 206.200	174.011	132.188	154.439

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.4432	ppb	0.6915	1.3	4615.68
Al 308.215	4778.58	ppb	251.549	5.3	11203.6
As 188.980	146.752	ppb	15.8222	10.8	95.0132
B 249.678	220.372	ppb	7.0492	3.2	3585.68
Ba 389.178	174.301	ppb	4.3605	2.5	4733.05
Be 313.042	53.1182	ppb	1.7913	3.4	115413
Ca 370.602	202272	ppb	36708	18.1	708618
Cd 226.502	66.1611	ppb	6.6723	10.1	3328.28
Co 228.615	57.2784	ppb	2.4050	4.2	894.444
Cr 267.716	112.383	ppb	5.1264	4.6	6678.76
Cu 324.754	94.8216	ppb	3.1281	3.3	5238.51
Fe 271.441	17384.8	ppb	861.610	5.0	36018.0
K 766.491	10694.6	ppb	1040.06	9.7	448541
Mg 279.078	47817.2	ppb	3934.18	8.2	125840
Mn 257.610	4216.34	ppb	217.632	5.2	301140
Mo 202.032	111.999	ppb	6.1557	5.5	983.097
Na 330.237	17661.2	ppb	1647.48	9.3	1052.82
Ni 231.604	116.381	ppb	7.5306	6.5	417.065
Pb 220.353	72.7216	ppb	11.9425	16.4	196.477
Sb 206.834	57.3003	ppb	0.7593	1.3	66.6705
Se 196.026	142.788	ppb	17.4732	12.2	104.000
Sn 189.925	253.280	ppb	19.8410	7.8	271.364
Sr 216.596	534.875	ppb	39.7224	7.4	7844.52
Ti 334.941	95.8373	ppb	2.1697	2.3	32395.7
Tl 190.794	56.5343	ppb	4.9415	8.7	35.9103
V 292.401	106.390	ppb	3.3979	3.2	3377.25
Zn 206.200	153.546	ppb	20.9262	13.6	207.963

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680-90122-i-3-b msd (Samp) 5/16/2013, 11:09:32 PM Rack 2, Tube 24**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.2126	50.0874	50.1524
Al 308.215	5067.22	4654.71	5050.99
As 188.980	168.595	134.599	156.216
B 249.678	221.909	220.085	228.192
Ba 389.178	196.271	186.384	191.736
Be 313.042	53.1228	52.4343	54.5586
Ca 370.602	245293	247485	241766
Cd 226.502	68.3754	59.8806	69.8862
Co 228.615	58.9071	55.2522	49.2705
Cr 267.716	111.789	109.103	115.298
Cu 324.754	97.5684	88.1390	91.2115
Fe 271.441	14648.3	14022.4	15084.0
K 766.491	11238.1	9580.56	12492.7
Mg 279.078	58689.3	53789.5	60735.2
Mn 257.610	4998.02	4844.34	5089.56
Mo 202.032	122.765	114.573	127.525
Na 330.237	21604.0	19566.0	22322.6
Ni 231.604	125.659	115.582	131.802
Pb 220.353	76.4030	65.2989	77.6069
Sb 206.834	64.8273	55.3702	61.3402
Se 196.026	136.131	120.428	154.769
Sn 189.925	268.476	229.345	270.657
Sr 216.596	578.120	553.415	603.852
Ti 334.941	94.8965	95.9277	96.6367
Tl 190.794	51.2500	46.4178	62.3308
V 292.401	113.881	103.674	105.995
Zn 206.200	171.239	138.842	179.269

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.8175	ppb	2.9404	5.7	4562.03
Al 308.215	4924.31	ppb	233.618	4.7	11546.0
As 188.980	153.137	ppb	17.2060	11.2	99.9453
B 249.678	223.395	ppb	4.2531	1.9	3637.88
Ba 389.178	191.464	ppb	4.9488	2.6	5209.06
Be 313.042	53.3719	ppb	1.0838	2.0	115980
Ca 370.602	244848	ppb	2885	1.2	858372
Cd 226.502	66.0474	ppb	5.3938	8.2	3310.72
Co 228.615	54.4766	ppb	4.8649	8.9	850.544
Cr 267.716	112.063	ppb	3.1070	2.8	6663.19
Cu 324.754	92.3063	ppb	4.8091	5.2	5106.92
Fe 271.441	14584.9	ppb	533.634	3.7	30223.7
K 766.491	11103.8	ppb	1460.69	13.2	465691
Mg 279.078	57738.0	ppb	3569.25	6.2	151938
Mn 257.610	4977.31	ppb	123.920	2.5	355463
Mo 202.032	121.621	ppb	6.5517	5.4	1066.35
Na 330.237	21164.2	ppb	1429.96	6.8	1249.40
Ni 231.604	124.348	ppb	8.1890	6.6	445.494
Pb 220.353	73.1030	ppb	6.7852	9.3	197.563
Sb 206.834	60.5125	ppb	4.7826	7.9	70.3455
Se 196.026	137.109	ppb	17.1911	12.5	100.583
Sn 189.925	256.159	ppb	23.2476	9.1	274.661
Sr 216.596	578.462	ppb	25.2205	4.4	8483.41
Ti 334.941	95.8203	ppb	0.8750	0.9	32442.3
Tl 190.794	53.3329	ppb	8.1584	15.3	31.2947
V 292.401	107.850	ppb	5.3500	5.0	3422.51
Zn 206.200	163.117	ppb	21.4022	13.1	326.213

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mb 680-276661/1-a (Samp) **5/16/2013, 11:25:49 PM** **Rack 2, Tube 27**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3357u	-0.2425u	-0.8131u
Al 308.215	53.6888	23.6139	79.1169
As 188.980	6.4759	3.9680	6.1857
B 249.678	7.8132	4.1147	6.0139
Ba 389.178	3.0693	0.5233	2.2232
Be 313.042	-0.0844u	-0.0107u	-0.0596u
Ca 370.602	-15.74u	-10.86u	-20.32u
Cd 226.502	0.4391	0.1700	0.4076
Co 228.615	-0.3059u	0.3007	-3.4281u
Cr 267.716	-0.4395u	0.1694	-0.0028u
Cu 324.754	1.8414	-1.0645u	-1.0999u
Fe 271.441	13.2576	6.8532	7.2481
K 766.491	9.0741	3.4168	11.8454
Mg 279.078	25.3638	9.0255	28.3160
Mn 257.610	0.9369	0.1570	0.7130
Mo 202.032	2.9614	0.4674	2.0295
Na 330.237	455.624	-216.713u	-101.662u
Ni 231.604	0.1323	1.8212	-0.1793u
Pb 220.353	7.8357	4.5662	5.1439
Sb 206.834	3.0536	9.6374	-2.6384u
Se 196.026	8.5059	-3.1740u	-2.4165u
Sn 189.925	-4.3928u	-0.2887u	-1.0900u
Sr 216.596	1.4177	0.4177	2.2783
Ti 334.941	-0.1781u	0.0505	0.0194
Tl 190.794	-6.0705u	-4.4137u	-4.4991u
V 292.401	-0.1823u	0.0286	-0.0213u
Zn 206.200	1.7341	0.4977	1.4214

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4637	ppb	0.3061	66.0	-71.6591
Al 308.215	52.1399	ppb	27.7839	53.3	105.159
As 188.980	5.5432	ppb	1.3719	24.7	-7.4468
B 249.678	5.9806	ppb	1.8495	30.9	239.913
Ba 389.178	1.9386	ppb	1.2967	66.9	22.4645
Be 313.042	-0.0516	ppb	0.0375	72.7	-560.601
Ca 370.602	-15.64	ppb	4.729	30.2	-43.34
Cd 226.502	0.3389	ppb	0.1471	43.4	54.5889
Co 228.615	-1.1444	ppb	2.0009	174.8	-13.5882
Cr 267.716	-0.0910	ppb	0.3139	345.1	-0.3987
Cu 324.754	-0.1077	ppb	1.6881	1567.9	290.638
Fe 271.441	9.1196	ppb	3.5890	39.4	50.1409
K 766.491	8.1121	ppb	4.2959	53.0	619.312
Mg 279.078	20.9018	ppb	10.3905	49.7	90.8772
Mn 257.610	0.6023	ppb	0.4016	66.7	180.089
Mo 202.032	1.8195	ppb	1.2602	69.3	33.0061
Na 330.237	45.7500	ppb	359.593	786.0	76.6344
Ni 231.604	0.5914	ppb	1.0764	182.0	2.1435
Pb 220.353	5.8486	ppb	1.7449	29.8	43.4563
Sb 206.834	3.3509	ppb	6.1433	183.3	0.8355
Se 196.026	0.9718	ppb	6.5357	672.5	11.7482
Sn 189.925	-1.9238	ppb	2.1754	113.1	-18.7569
Sr 216.596	1.3713	ppb	0.9312	67.9	38.4752
Ti 334.941	-0.0361	ppb	0.1240	343.6	-57.1382
Tl 190.794	-4.9944	ppb	0.9329	18.7	-25.3917
V 292.401	-0.0583	ppb	0.1102	188.9	-12.2583
Zn 206.200	1.2177	ppb	0.6429	52.8	0.2286

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ics 680-276661/2-a (Samp) 5/16/2013, 11:31:14 PM Rack 2, Tube 28
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	54.9023	42.0484	52.6129
Al 308.215	4372.47	4581.84	4658.13
As 188.980	148.394	166.786	170.787
B 249.678	193.091	197.264	205.829
Ba 389.178	108.744	110.348	115.072
Be 313.042	50.8215	51.7753	53.3317
Ca 370.602	5419	5568	5491
Cd 226.502	74.8337	78.6466	80.4976
Co 228.615	60.9345	46.9952	56.8221
Cr 267.716	114.088	118.170	118.712
Cu 324.754	94.6043	71.3144	93.5217
Fe 271.441	5450.28	5635.28	5751.09
K 766.491	8189.29	9394.16	9529.43
Mg 279.078	6440.85	6781.98	6821.05
Mn 257.610	792.532	820.435	833.544
Mo 202.032	110.253	115.125	118.647
Na 330.237	5758.55	6147.34	6593.21
Ni 231.604	126.602	142.944	133.709
Pb 220.353	74.6874	78.9485	84.1107
Sb 206.834	56.3285	62.4923	57.0640
Se 196.026	148.614	158.124	162.488
Sn 189.925	282.932	302.710	307.848
Sr 216.596	130.578	134.620	136.578
Ti 334.941	91.2681	92.8035	94.3907
Tl 190.794	49.2141	52.2410	50.7311
V 292.401	108.328	108.144	115.010
Zn 206.200	181.265	192.234	199.017

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.8545	ppb	6.8565	13.8	4394.61
Al 308.215	4537.48	ppb	147.904	3.3	10638.1
As 188.980	161.989	ppb	11.9426	7.4	103.865
B 249.678	198.728	ppb	6.4944	3.3	3263.77
Ba 389.178	111.388	ppb	3.2897	3.0	2933.72
Be 313.042	51.9762	ppb	1.2671	2.4	112846
Ca 370.602	5492	ppb	74.42	1.4	18805
Cd 226.502	77.9926	ppb	2.8880	3.7	3853.68
Co 228.615	54.9173	ppb	7.1622	13.0	857.680
Cr 267.716	116.990	ppb	2.5279	2.2	6932.76
Cu 324.754	86.4802	ppb	13.1451	15.2	4800.95
Fe 271.441	5612.22	ppb	151.727	2.7	11656.5
K 766.491	9037.63	ppb	737.787	8.2	379089
Mg 279.078	6681.29	ppb	209.143	3.1	17611.2
Mn 257.610	815.504	ppb	20.9463	2.6	58351.2
Mo 202.032	114.675	ppb	4.2150	3.7	1006.90
Na 330.237	6166.37	ppb	417.659	6.8	414.296
Ni 231.604	134.418	ppb	8.1944	6.1	481.284
Pb 220.353	79.2489	ppb	4.7188	6.0	210.508
Sb 206.834	58.6283	ppb	3.3665	5.7	67.8844
Se 196.026	156.409	ppb	7.0946	4.5	111.763
Sn 189.925	297.830	ppb	13.1557	4.4	321.867
Sr 216.596	133.925	ppb	3.0598	2.3	1965.37
Ti 334.941	92.8208	ppb	1.5614	1.7	31155.2
Tl 190.794	50.7287	ppb	1.5134	3.0	34.6763
V 292.401	110.494	ppb	3.9122	3.5	3506.37
Zn 206.200	190.839	ppb	8.9581	4.7	378.999

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680-90160-a-6-a (Samp) **5/16/2013, 11:36:39 PM** **Rack 2, Tube 29**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7898u	-1.0973u	-1.0223u
Al 308.215	107.422	72.2648	71.0353
As 188.980	-10.8963u	7.0220	0.5579
B 249.678	5.9464	5.0232	4.5993
Ba 389.178	0.2046	1.5702	2.0212
Be 313.042	-0.0770u	-0.0398u	-0.0178u
Ca 370.602	-11.59u	-0.2070u	9.567
Cd 226.502	0.7742	0.8800	0.4652
Co 228.615	-2.2242u	-1.0148u	-0.1872u
Cr 267.716	0.3907	0.4101	0.2830
Cu 324.754	0.0635	-0.5974u	-1.2165u
Fe 271.441	29.2840	-6.9910u	8.5837
K 766.491	23.1674	18.2506	16.4998
Mg 279.078	48.4170	31.5093	27.8778
Mn 257.610	1.9534	1.6230	1.2772
Mo 202.032	3.9907	3.5300	2.6068
Na 330.237	76.6680	213.649	167.077
Ni 231.604	1.2817	4.3701	1.3510
Pb 220.353	12.0526	12.1873	5.4118
Sb 206.834	1.9082	8.4205	10.2719
Se 196.026	20.2893	5.6378	6.0536
Sn 189.925	-7.1722u	-2.1203u	1.4262
Sr 216.596	2.0107	3.8958	3.2210
Ti 334.941	0.0618	0.0322	0.1709
Tl 190.794	-13.7647u	-20.6142u	-8.3638u
V 292.401	0.5110	-0.1853u	-0.4815u
Zn 206.200	11.5922	11.7857	7.5083

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9698	ppb	0.1604	16.5	-116.710
Al 308.215	83.5742	ppb	20.6623	24.7	179.028
As 188.980	-1.1055	ppb	9.0742	820.9	-12.1760
B 249.678	5.1896	ppb	0.6888	13.3	227.449
Ba 389.178	1.2653	ppb	0.9459	74.8	4.8240
Be 313.042	-0.0449	ppb	0.0299	66.6	-546.280
Ca 370.602	-0.7442	ppb	10.59	1423.0	8.011
Cd 226.502	0.7064	ppb	0.2155	30.5	72.4992
Co 228.615	-1.1421	ppb	1.0244	89.7	-13.6214
Cr 267.716	0.3613	ppb	0.0685	19.0	26.3759
Cu 324.754	-0.5835	ppb	0.6401	109.7	265.929
Fe 271.441	10.2922	ppb	18.1977	176.8	52.5693
K 766.491	19.3059	ppb	3.4568	17.9	1088.50
Mg 279.078	35.9347	ppb	10.9614	30.5	130.438
Mn 257.610	1.6179	ppb	0.3381	20.9	252.606
Mo 202.032	3.3759	ppb	0.7047	20.9	46.4449
Na 330.237	152.465	ppb	69.6499	45.7	82.5173
Ni 231.604	2.3343	ppb	1.7634	75.5	8.3817
Pb 220.353	9.8839	ppb	3.8736	39.2	52.6388
Sb 206.834	6.8669	ppb	4.3930	64.0	5.0700
Se 196.026	10.6603	ppb	8.3416	78.2	17.9685
Sn 189.925	-2.6221	ppb	4.3211	164.8	-19.5503
Sr 216.596	3.0425	ppb	0.9552	31.4	62.7028
Ti 334.941	0.0883	ppb	0.0730	82.7	-15.2962
Tl 190.794	-14.2476	ppb	6.1395	43.1	-35.5657
V 292.401	-0.0519	ppb	0.5095	980.9	-12.4808
Zn 206.200	10.2954	ppb	2.4156	23.5	26.9139

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680-90160-a-6-a (Samp) **5/16/2013, 11:42:04 PM** **Rack 2, Tube 30****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1799u	-1.8243u	-0.3092u
Al 308.215	79.5343	64.6140	56.8366
As 188.980	-2.9925u	-1.5252u	-1.1817u
B 249.678	2.5012	3.2396	2.7733
Ba 389.178	3.8304	2.3231	3.3599
Be 313.042	-0.0636u	-0.0439u	-0.0318u
Ca 370.602	-6.613u	-14.12u	-9.745u
Cd 226.502	0.3825	0.5003	0.4596
Co 228.615	0.6021	-0.8473u	0.0803
Cr 267.716	0.2939	0.1330	0.6991
Cu 324.754	-0.9935u	-0.8099u	-2.0181u
Fe 271.441	18.5016	6.5472	-1.7877u
K 766.491	16.6066	15.8708	13.1907
Mg 279.078	36.2982	31.5558	28.4528
Mn 257.610	1.6654	1.5236	1.3231
Mo 202.032	2.5722	0.9798	0.8217
Na 330.237	-28.6364u	-99.4770u	39.5674
Ni 231.604	3.7799	1.8964	3.2757
Pb 220.353	9.7262	6.5467	2.5321
Sb 206.834	-5.6840u	-6.4714u	-1.4903u
Se 196.026	2.3390	-3.8875u	3.5900
Sn 189.925	2.1913	0.7869	1.0455
Sr 216.596	2.9018	2.0976	2.2883
Ti 334.941	-0.0121u	0.1485	0.1012
Tl 190.794	-11.8161u	-1.4324u	-8.4886u
V 292.401	0.2185	0.2349	1.2688
Zn 206.200	3.4941	0.4339	2.0575

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7711	ppb	0.9144	118.6	-99.0192
Al 308.215	66.9950	ppb	11.5347	17.2	140.026
As 188.980	-1.8998	ppb	0.9618	50.6	-12.7406
B 249.678	2.8380	ppb	0.3734	13.2	190.457
Ba 389.178	3.1711	ppb	0.7712	24.3	54.9399
Be 313.042	-0.0464	ppb	0.0160	34.5	-549.420
Ca 370.602	-10.16	ppb	3.772	37.1	-24.39
Cd 226.502	0.4475	ppb	0.0599	13.4	59.8830
Co 228.615	-0.0550	ppb	0.7341	1335.2	3.3870
Cr 267.716	0.3753	ppb	0.2917	77.7	27.1944
Cu 324.754	-1.2738	ppb	0.6510	51.1	229.950
Fe 271.441	7.7537	ppb	10.1983	131.5	47.5337
K 766.491	15.2227	ppb	1.7978	11.8	917.350
Mg 279.078	32.1023	ppb	3.9511	12.3	120.353
Mn 257.610	1.5040	ppb	0.1719	11.4	244.465
Mo 202.032	1.4579	ppb	0.9683	66.4	29.8823
Na 330.237	-29.5153	ppb	69.5264	235.6	72.4208
Ni 231.604	2.9840	ppb	0.9750	32.7	10.7068
Pb 220.353	6.2684	ppb	3.6051	57.5	44.4111
Sb 206.834	-4.5486	ppb	2.6777	58.9	-8.7260
Se 196.026	0.6805	ppb	4.0052	588.6	11.5614
Sn 189.925	1.3412	ppb	0.7475	55.7	-15.0468
Sr 216.596	2.4292	ppb	0.4202	17.3	53.8395
Ti 334.941	0.0792	ppb	0.0825	104.2	-18.3655
Tl 190.794	-7.2457	ppb	5.3023	73.2	-27.8664
V 292.401	0.5741	ppb	0.6017	104.8	8.0125
Zn 206.200	1.9952	ppb	1.5311	76.7	10.7420

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680-90160-a-6-a (Samp) **5/16/2013, 11:47:29 PM** **Rack 2, Tube 31****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.3301	55.2289	55.6667
Al 308.215	1882.53	1881.21	1907.00
As 188.980	3071.89	3074.58	3069.96
B 249.678	989.922	999.440	1008.78
Ba 389.178	2177.54	2192.41	2183.98
Be 313.042	52.4352	52.8363	52.3190
Ca 370.602	5818	5773	5811
Cd 226.502	76.5417	76.5571	76.7537
Co 228.615	531.600	687.379	687.777
Cr 267.716	235.987	236.477	237.097
Cu 324.754	230.444	243.316	250.399
Fe 271.441	1201.91	1274.23	1181.75
K 766.491	7712.77	7888.70	8314.48
Mg 279.078	6818.45	6828.60	6835.42
Mn 257.610	794.277	785.799	787.336
Mo 202.032	599.862	600.388	603.497
Na 330.237	6469.58	6576.82	6386.47
Ni 231.604	638.318	600.606	626.403
Pb 220.353	780.172	777.967	772.204
Sb 206.834	565.360	580.911	568.438
Se 196.026	3071.11	3079.56	3066.58
Sn 189.925	1540.03	1524.24	1534.21
Sr 216.596	673.555	675.605	672.561
Ti 334.941	964.326	967.622	963.618
Tl 190.794	3072.18	3066.78	3065.15
V 292.401	535.878	537.211	536.504
Zn 206.200	927.415	924.597	925.130

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.4086	ppb	1.8133	3.3	4770.27
Al 308.215	1890.25	ppb	14.5240	0.8	4450.46
As 188.980	3072.14	ppb	2.3203	0.1	2173.55
B 249.678	999.381	ppb	9.4299	0.9	15869.8
Ba 389.178	2184.65	ppb	7.4531	0.3	57487.4
Be 313.042	52.5301	ppb	0.2714	0.5	113939
Ca 370.602	5801	ppb	24.43	0.4	20483
Cd 226.502	76.6175	ppb	0.1182	0.2	3768.04
Co 228.615	635.585	ppb	90.0543	14.2	9913.43
Cr 267.716	236.521	ppb	0.5561	0.2	14003.8
Cu 324.754	241.386	ppb	10.1162	4.2	12871.6
Fe 271.441	1219.30	ppb	48.6268	4.0	2679.37
K 766.491	7971.98	ppb	309.378	3.9	334423
Mg 279.078	6827.49	ppb	8.5378	0.1	17996.1
Mn 257.610	789.138	ppb	4.5171	0.6	56466.3
Mo 202.032	601.249	ppb	1.9645	0.3	5207.74
Na 330.237	6477.62	ppb	95.4269	1.5	419.675
Ni 231.604	621.776	ppb	19.2771	3.1	2225.42
Pb 220.353	776.781	ppb	4.1143	0.5	1796.29
Sb 206.834	571.570	ppb	8.2350	1.4	681.991
Se 196.026	3072.42	ppb	6.5849	0.2	1983.84
Sn 189.925	1532.83	ppb	7.9848	0.5	1725.23
Sr 216.596	673.907	ppb	1.5522	0.2	9796.62
Ti 334.941	965.189	ppb	2.1368	0.2	324027
Tl 190.794	3068.04	ppb	3.6795	0.1	3352.14
V 292.401	536.531	ppb	0.6670	0.1	17089.7
Zn 206.200	925.714	ppb	1.4971	0.2	4809.65

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680-90160-a-6-b ms (Samp) 5/16/2013, 11:52:54 PM Rack 2, Tube 32**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.0972	55.0936	54.8580
Al 308.215	4072.95	4061.84	4009.09
As 188.980	151.456	142.400	143.824
B 249.678	205.258	204.155	203.538
Ba 389.178	109.235	109.603	107.709
Be 313.042	49.7512	49.2666	48.5403
Ca 370.602	5280	5244	5181
Cd 226.502	73.5180	73.7169	72.8392
Co 228.615	60.8113	60.2267	60.0582
Cr 267.716	113.201	112.878	112.209
Cu 324.754	87.1526	91.8115	92.3289
Fe 271.441	5356.47	5339.09	5292.82
K 766.491	7536.09	7642.52	8078.83
Mg 279.078	6298.24	6287.54	6226.11
Mn 257.610	832.147	828.905	819.601
Mo 202.032	108.595	107.443	106.856
Na 330.237	6495.34	6312.16	5647.33
Ni 231.604	124.798	127.496	119.879
Pb 220.353	78.5641	77.8847	78.8063
Sb 206.834	56.0405	62.7121	58.9997
Se 196.026	146.204	153.141	131.370
Sn 189.925	288.049	286.589	279.932
Sr 216.596	128.549	128.254	126.934
Ti 334.941	89.6196	89.6999	88.7871
Tl 190.794	54.2982	48.6374	53.5093
V 292.401	115.643	113.729	109.447
Zn 206.200	187.601	183.578	185.728

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.3496	ppb	1.0910	2.0	4794.09
Al 308.215	4047.96	ppb	34.1164	0.8	9488.98
As 188.980	145.894	ppb	4.8698	3.3	92.4167
B 249.678	204.317	ppb	0.8715	0.4	3352.07
Ba 389.178	108.849	ppb	1.0044	0.9	2865.27
Be 313.042	49.1860	ppb	0.6094	1.2	106763
Ca 370.602	5235	ppb	49.85	1.0	17919
Cd 226.502	73.3581	ppb	0.4602	0.6	3627.45
Co 228.615	60.3654	ppb	0.3952	0.7	942.648
Cr 267.716	112.763	ppb	0.5060	0.4	6682.33
Cu 324.754	90.4310	ppb	2.8510	3.2	5006.33
Fe 271.441	5329.46	ppb	32.9014	0.6	11072.4
K 766.491	7752.48	ppb	287.594	3.7	325222
Mg 279.078	6270.63	ppb	38.9216	0.6	16530.8
Mn 257.610	826.884	ppb	6.5123	0.8	59162.1
Mo 202.032	107.631	ppb	0.8844	0.8	946.090
Na 330.237	6151.61	ppb	446.216	7.3	413.618
Ni 231.604	124.058	ppb	3.8623	3.1	444.196
Pb 220.353	78.4183	ppb	0.4777	0.6	208.611
Sb 206.834	59.2508	ppb	3.3429	5.6	68.6343
Se 196.026	143.572	ppb	11.1217	7.7	103.511
Sn 189.925	284.857	ppb	4.3267	1.5	307.125
Sr 216.596	127.912	ppb	0.8596	0.7	1878.02
Ti 334.941	89.3689	ppb	0.5054	0.6	29994.0
Tl 190.794	52.1483	ppb	3.0660	5.9	36.2970
V 292.401	112.940	ppb	3.1725	2.8	3586.17
Zn 206.200	185.636	ppb	2.0134	1.1	368.848

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680-90160-a-6-c msd (Samp) 5/16/2013, 11:58:20 PM Rack 2, Tube 33**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.2630	55.2877	55.9535
Al 308.215	3852.61	3788.20	3800.98
As 188.980	130.007	141.915	135.321
B 249.678	203.048	201.707	202.723
Ba 389.178	112.701	110.479	112.117
Be 313.042	49.8486	48.9262	48.9097
Ca 370.602	5262	5259	5197
Cd 226.502	76.0277	74.6064	74.5243
Co 228.615	63.2634	62.5920	62.8421
Cr 267.716	116.339	115.815	115.040
Cu 324.754	82.5101	89.3346	92.1960
Fe 271.441	5483.55	5431.75	5427.13
K 766.491	7577.55	7684.52	8140.35
Mg 279.078	6466.04	6379.73	6362.46
Mn 257.610	956.184	944.780	939.545
Mo 202.032	108.421	107.357	106.109
Na 330.237	6542.46	6664.84	5676.03
Ni 231.604	129.102	128.260	129.847
Pb 220.353	80.1454	79.6043	81.5634
Sb 206.834	60.1617	53.0318	53.3854
Se 196.026	136.819	157.012	153.212
Sn 189.925	289.924	290.732	284.792
Sr 216.596	133.236	131.293	129.302
Ti 334.941	94.6275	93.7711	93.7163
Tl 190.794	57.4725	56.0338	61.9237
V 292.401	116.424	119.836	107.914
Zn 206.200	192.823	186.886	183.962

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.5014	ppb	1.9669	3.6	4807.32
Al 308.215	3813.93	ppb	34.0984	0.9	8939.86
As 188.980	135.748	ppb	5.9653	4.4	85.2023
B 249.678	202.493	ppb	0.6994	0.3	3323.03
Ba 389.178	111.766	ppb	1.1518	1.0	2942.81
Be 313.042	49.2282	ppb	0.5374	1.1	106855
Ca 370.602	5239	ppb	36.97	0.7	17917
Cd 226.502	75.0528	ppb	0.8453	1.1	3710.72
Co 228.615	62.8992	ppb	0.3393	0.5	982.163
Cr 267.716	115.731	ppb	0.6536	0.6	6858.19
Cu 324.754	88.0136	ppb	4.9763	5.7	4880.65
Fe 271.441	5447.48	ppb	31.3225	0.6	11317.2
K 766.491	7800.81	ppb	298.876	3.8	327248
Mg 279.078	6402.75	ppb	55.4923	0.9	16878.2
Mn 257.610	946.836	ppb	8.5080	0.9	67722.0
Mo 202.032	107.296	ppb	1.1573	1.1	943.172
Na 330.237	6294.44	ppb	539.049	8.6	421.454
Ni 231.604	129.069	ppb	0.7941	0.6	462.139
Pb 220.353	80.4377	ppb	1.0118	1.3	213.207
Sb 206.834	55.5263	ppb	4.0183	7.2	64.1326
Se 196.026	149.014	ppb	10.7312	7.2	107.013
Sn 189.925	288.483	ppb	3.2220	1.1	311.246
Sr 216.596	131.277	ppb	1.9669	1.5	1926.91
Ti 334.941	94.0383	ppb	0.5110	0.5	31562.4
Tl 190.794	58.4767	ppb	3.0706	5.3	43.2129
V 292.401	114.725	ppb	6.1402	5.4	3642.77
Zn 206.200	187.890	ppb	4.5150	2.4	373.258

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680-90212-b-1-a (Samp) 5/17/2013, 12:03:46 AM Rack 2, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.3881u	1.6190u	0.7512u
Al 308.215	214.552	260.547	220.778
As 188.980	3.2029	4.6999	-7.8159u
B 249.678	250.978	254.852	257.409
Ba 389.178	503.732	519.269	516.684
Be 313.042	0.0457u	0.0488u	0.0283u
Ca 370.602	225782	230906	180835
Cd 226.502	0.7681	0.8055	0.7963
Co 228.615	3.2399	0.1332	0.5120
Cr 267.716	3.8060	3.2592	3.9974
Cu 324.754	-0.1442u	-0.4107u	0.6648
Fe 271.441	37.1019	38.2540	46.6949
K 766.491	52574.1x	56993.5x	57522.8x
Mg 279.078	165899	177032	176363
Mn 257.610	-1.1791	-0.8311	-0.7203
Mo 202.032	6.8700	9.2832	8.4319
Na 330.237	1564436x	1660822x	1677900x
Ni 231.604	3.7255	3.6903	6.1401
Pb 220.353	5.7161	13.2597	10.5521
Sb 206.834	7.2384	7.3600	2.2025
Se 196.026	24.1446	6.1618	21.5736
Sn 189.925	1.4226	-5.4697u	-0.5206
Sr 216.596	5814.77	6071.25	6034.44
Ti 334.941	-1.7339	-1.7086	-1.8784
Tl 190.794	-8.4062u	-12.9419u	-11.9096u
V 292.401	23.1879	21.8915	21.8331
Zn 206.200	21.5492	20.1109	20.2915

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.2528b	ppb	0.4494	35.9	-313.454
Al 308.215	231.959b	ppb	24.9527	10.8	527.452
As 188.980	0.0290b	ppb	6.8350	23605.7	-9.0665
B 249.678	254.413b	ppb	3.2380	1.3	4149.27
Ba 389.178	513.228b	ppb	8.3251	1.6	14017.9
Be 313.042	0.0409b	ppb	0.0111	27.1	-482.629
Ca 370.602	212508b	ppb	27549	13.0	746018
Cd 226.502	0.7900b	ppb	0.0195	2.5	68.5242
Co 228.615	1.2951b	ppb	1.6949	130.9	24.1679
Cr 267.716	3.6875b	ppb	0.3831	10.4	256.666
Cu 324.754	0.0366b	ppb	0.5601	1528.8	298.152
Fe 271.441	40.6836b	ppb	5.2377	12.9	116.124
K 766.491	55696.8xb	ppb	2717.27	4.9	2334796
Mg 279.078	173098b	ppb	6243.69	3.6	455680
Mn 257.610	-0.9102b	ppb	0.2394	26.3	528.951
Mo 202.032	8.1950b	ppb	1.2239	14.9	88.0055
Na 330.237	1634386xb	ppb	61177.2	3.7	91375.2
Ni 231.604	4.5186b	ppb	1.4043	31.1	16.2006
Pb 220.353	9.8426b	ppb	3.8215	38.8	52.5361
Sb 206.834	5.6003b	ppb	2.9432	52.6	3.4860
Se 196.026	17.2934b	ppb	9.7255	56.2	22.2279
Sn 189.925	-1.5226b	ppb	3.5537	233.4	-17.4208
Sr 216.596	5973.49b	ppb	138.680	2.3	87119.4
Ti 334.941	-1.7736b	ppb	0.0916	5.2	202.218
Tl 190.794	-11.0859b	ppb	2.3774	21.4	-32.0843
V 292.401	22.3042b	ppb	0.7659	3.4	692.899
Zn 206.200	20.6505b	ppb	0.7835	3.8	47.0780

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90212-b-2-a (Samp) 5/17/2013, 12:09:23 AM Rack 2, Tube 35
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0089u	-0.1933u	-0.2922u
Al 308.215	178.402	165.541	195.047
As 188.980	6.1169	1.5958	6.2549
B 249.678	222.012	220.534	217.796
Ba 389.178	213.573	209.071	211.685
Be 313.042	-0.0289u	0.0029u	0.0285u
Ca 370.602	73564	73852	72056
Cd 226.502	0.5125	0.6972	0.5118
Co 228.615	0.4707	-0.4930u	0.6856
Cr 267.716	4.3970	4.1998	4.3058
Cu 324.754	3.6204	2.6667	1.3931
Fe 271.441	126.949	133.654	145.403
K 766.491	25462.9	23538.3	23182.5
Mg 279.078	52579.9	50815.7	47696.3
Mn 257.610	17.1792	17.4315	17.8498
Mo 202.032	10.4889	9.2611	9.9845
Na 330.237	903172x	824690x	808011x
Ni 231.604	6.8218	5.6670	3.4123
Pb 220.353	9.1865	4.6746	7.3138
Sb 206.834	0.6318	10.1236	-0.9670u
Se 196.026	1.2954	0.8267	1.7794
Sn 189.925	-5.9271u	-2.5909u	-1.9679u
Sr 216.596	1943.66	1883.28	1852.53
Ti 334.941	-0.2306	-0.0621	-0.3273
Tl 190.794	-18.3141u	-4.3892u	-10.6349u
V 292.401	21.1622	20.5962	20.2745
Zn 206.200	29.4159	29.4574	26.9211

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1648b	ppb	0.1438	87.2	-166.490
Al 308.215	179.664b	ppb	14.7933	8.2	404.832
As 188.980	4.6559b	ppb	2.6510	56.9	-7.2995
B 249.678	220.114b	ppb	2.1389	1.0	3609.31
Ba 389.178	211.443b	ppb	2.2607	1.1	5692.54
Be 313.042	0.0008b	ppb	0.0287	3425.1	-527.142
Ca 370.602	73157b	ppb	964.6	1.3	256819
Cd 226.502	0.5738b	ppb	0.1068	18.6	61.6442
Co 228.615	0.2211b	ppb	0.6277	283.9	7.3028
Cr 267.716	4.3009b	ppb	0.0987	2.3	276.910
Cu 324.754	2.5601b	ppb	1.1175	43.7	429.574
Fe 271.441	135.335b	ppb	9.3410	6.9	311.783
K 766.491	24061.2b	ppb	1226.84	5.1	1008799
Mg 279.078	50363.9b	ppb	2472.97	4.9	132608
Mn 257.610	17.4868b	ppb	0.3387	1.9	1516.85
Mo 202.032	9.9115b	ppb	0.6171	6.2	102.825
Na 330.237	845291xb	ppb	50815.7	6.0	47294.1
Ni 231.604	5.3004b	ppb	1.7341	32.7	19.0012
Pb 220.353	7.0583b	ppb	2.2668	32.1	46.1970
Sb 206.834	3.2628b	ppb	5.9952	183.7	0.6289
Se 196.026	1.3005b	ppb	0.4764	36.6	11.9637
Sn 189.925	-3.4953b	ppb	2.1289	60.9	-20.1096
Sr 216.596	1893.16b	ppb	46.3602	2.4	27623.4
Ti 334.941	-0.2067b	ppb	0.1342	64.9	96.8662
Tl 190.794	-11.1127b	ppb	6.9747	62.8	-32.1348
V 292.401	20.6776b	ppb	0.4494	2.2	645.128
Zn 206.200	28.5982b	ppb	1.4525	5.1	62.5732

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680-90212-b-3-a (Samp) 5/17/2013, 12:14:50 AM Rack 2, Tube 36
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1477u	-0.9672u	-1.1364u
Al 308.215	131.980	159.445	205.591
As 188.980	13.3720	6.3312	9.4135
B 249.678	199.115	199.324	207.601
Ba 389.178	111.515	107.597	108.856
Be 313.042	-0.0091u	-0.0008u	-0.0028u
Ca 370.602	38202	37398	33618
Cd 226.502	0.2404	0.4101	0.0913
Co 228.615	-0.3335u	0.2941	-1.6648u
Cr 267.716	3.3983	2.9380	3.2301
Cu 324.754	2.8091	3.1693	2.2378
Fe 271.441	283.830	276.854	281.562
K 766.491	13627.5	13861.7	16465.1
Mg 279.078	23557.6	23302.9	25241.4
Mn 257.610	23.8537	24.0177	23.4405
Mo 202.032	7.1933	7.9750	7.8562
Na 330.237	425859x	422993x	463848x
Ni 231.604	5.6614	3.4767	7.2543
Pb 220.353	6.8797	6.6755	12.6099
Sb 206.834	-3.8468u	7.7301	-1.1463u
Se 196.026	0.8550	9.0813	-2.4603u
Sn 189.925	-5.3593u	-3.8147u	-6.0253u
Sr 216.596	963.785	956.783	1018.65
Ti 334.941	0.0935	0.1615	0.0047
Tl 190.794	-12.7853u	-3.3052u	-10.7618u
V 292.401	9.6793	9.8643	9.2450
Zn 206.200	38.2571	38.8184	43.5013

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7504b	ppb	0.5288	70.5	-159.646
Al 308.215	165.672b	ppb	37.1985	22.5	371.907
As 188.980	9.7055b	ppb	3.5295	36.4	-4.1015
B 249.678	202.013b	ppb	4.8399	2.4	3324.21
Ba 389.178	109.323b	ppb	2.0000	1.8	2923.58
Be 313.042	-0.0042b	ppb	0.0044	103.6	-500.213
Ca 370.602	36406b	ppb	2448	6.7	127789
Cd 226.502	0.2473b	ppb	0.1595	64.5	48.7680
Co 228.615	-0.5681b	ppb	1.0003	176.1	-4.8781
Cr 267.716	3.1888b	ppb	0.2329	7.3	202.843
Cu 324.754	2.7387b	ppb	0.4697	17.2	438.948
Fe 271.441	280.749b	ppb	3.5584	1.3	612.430
K 766.491	14651.4b	ppb	1575.06	10.8	614390
Mg 279.078	24034.0b	ppb	1053.36	4.4	63300.1
Mn 257.610	23.7706b	ppb	0.2974	1.3	1896.43
Mo 202.032	7.6748b	ppb	0.4213	5.5	83.5270
Na 330.237	437567xb	ppb	22805.2	5.2	24517.3
Ni 231.604	5.4641b	ppb	1.8965	34.7	19.5918
Pb 220.353	8.7217b	ppb	3.3689	38.6	49.9899
Sb 206.834	0.9123b	ppb	6.0567	663.9	-2.1772
Se 196.026	2.4920b	ppb	5.9424	238.5	12.7309
Sn 189.925	-5.0664b	ppb	1.1340	22.4	-22.1049
Sr 216.596	979.738b	ppb	33.8775	3.5	14304.2
Ti 334.941	0.0866b	ppb	0.0786	90.8	81.9124
Tl 190.794	-8.9508b	ppb	4.9928	55.8	-29.7776
V 292.401	9.5962b	ppb	0.3179	3.3	292.865
Zn 206.200	40.1923b	ppb	2.8794	7.2	85.1875

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680-90194-f-1-a (Samp) **5/17/2013, 12:31:07 AM** **Rack 2, Tube 39**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8936u	-1.0144u	-0.9114u
Al 308.215	2448.20	2607.87	2675.49
As 188.980	2.4170	9.8054	-4.5895u
B 249.678	625.544	641.560	676.414
Ba 389.178	5.6172	6.8163	5.8057
Be 313.042	-0.0079u	-0.0391u	-0.0565u
Ca 370.602	8039	8440	8352
Cd 226.502	1.0154	0.7264	1.0252
Co 228.615	-1.0739u	-0.3776u	2.5092
Cr 267.716	31.0413	30.1581	31.6369
Cu 324.754	-0.0700u	0.3437	1.3217
Fe 271.441	37.0968	45.9859	51.0426
K 766.491	5853.28	6579.66	6900.71
Mg 279.078	1904.67	1917.86	2052.29
Mn 257.610	126.867	130.636	135.124
Mo 202.032	3.6595	2.6990	4.4089
Na 330.237	530706x	576976x	601866x
Ni 231.604	4.1750	3.7590	2.8125
Pb 220.353	1.4942	6.0856	11.6481
Sb 206.834	7.1181	3.7633	9.8263
Se 196.026	22.5573	15.8446	6.3641
Sn 189.925	-6.6324u	-2.1630u	-4.0921u
Sr 216.596	961.497	1012.47	1016.36
Ti 334.941	0.2022	0.0153u	0.0627u
Tl 190.794	-1.0027u	-8.0917u	-6.1241u
V 292.401	-0.0634u	0.4664	0.7335
Zn 206.200	34.1562	36.7909	41.5765

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9398b	ppb	0.0652	6.9	-173.779
Al 308.215	2577.19b	ppb	116.711	4.5	6031.51
As 188.980	2.5443b	ppb	7.1983	282.9	-9.4974
B 249.678	647.840b	ppb	26.0100	4.0	10340.0
Ba 389.178	6.0797b	ppb	0.6448	10.6	137.517
Be 313.042	-0.0345b	ppb	0.0246	71.4	-593.421
Ca 370.602	8277b	ppb	210.7	2.5	29068
Cd 226.502	0.9223b	ppb	0.1697	18.4	79.1679
Co 228.615	0.3526b	ppb	1.8999	538.8	9.7854
Cr 267.716	30.9454b	ppb	0.7440	2.4	1849.19
Cu 324.754	0.5318b	ppb	0.7147	134.4	323.988
Fe 271.441	44.7084b	ppb	7.0601	15.8	124.170
K 766.491	6444.55b	ppb	536.629	8.3	270401
Mg 279.078	1958.27b	ppb	81.6888	4.2	5187.76
Mn 257.610	130.876b	ppb	4.1340	3.2	9480.21
Mo 202.032	3.5891b	ppb	0.8571	23.9	48.2844
Na 330.237	569849xb	ppb	36111.0	6.3	31907.1
Ni 231.604	3.5822b	ppb	0.6983	19.5	12.8501
Pb 220.353	6.4093b	ppb	5.0847	79.3	44.8263
Sb 206.834	6.9026b	ppb	3.0372	44.0	5.4708
Se 196.026	14.9220b	ppb	8.1359	54.5	20.7335
Sn 189.925	-4.2959b	ppb	2.2417	52.2	-21.1829
Sr 216.596	996.775b	ppb	30.6133	3.1	14548.4
Ti 334.941	0.0934b	ppb	0.0972	104.0	-53.4301
Tl 190.794	-5.0729b	ppb	3.6596	72.1	-25.6244
V 292.401	0.3788b	ppb	0.4056	107.1	-6.0042
Zn 206.200	37.5079b	ppb	3.7618	10.0	79.8164

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680-90194-f-2-a (Samp) **5/17/2013, 12:36:32 AM** **Rack 2, Tube 40**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7866u	-1.2103u	0.1899u
Al 308.215	126.410	136.189	97.2628
As 188.980	8.0952	5.1808	16.8321
B 249.678	78.7181	85.7810	78.3347
Ba 389.178	15.6633	16.2240	14.1192
Be 313.042	-0.0080	-0.0214u	-0.0206u
Ca 370.602	137645	86587	126836
Cd 226.502	0.3039	0.7522	0.2869
Co 228.615	-1.6923u	-1.9727u	-0.1806u
Cr 267.716	1.2594	1.3812	1.3151
Cu 324.754	-2.6157u	0.1268	-2.9556u
Fe 271.441	320.304	354.158	372.496
K 766.491	6276.71	6645.95	6239.41
Mg 279.078	9889.24	10461.4	10033.7
Mn 257.610	54.4840	57.6499	54.2010
Mo 202.032	3.0927	3.3909	3.6576
Na 330.237	31788.7	33523.6	29788.9
Ni 231.604	1.8796	2.0921	2.1347
Pb 220.353	4.3314	18.9261	9.1723
Sb 206.834	-3.8241u	-3.5133u	7.7940
Se 196.026	15.6519	-7.6905u	12.7984
Sn 189.925	-4.5013u	-8.4391u	-1.0312u
Sr 216.596	992.194	1037.35	1005.17
Ti 334.941	0.6556	0.8471	0.8736
Tl 190.794	0.7180	-17.7957u	-6.6140u
V 292.401	1.9626	2.5960	2.7727
Zn 206.200	6.7886	6.9047	8.4349

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6023	ppb	0.7180	119.2	-147.587
Al 308.215	119.954	ppb	20.2505	16.9	264.376
As 188.980	10.0360	ppb	6.0633	60.4	-3.0508
B 249.678	80.9446	ppb	4.1929	5.2	1418.98
Ba 389.178	15.3355	ppb	1.0900	7.1	407.062
Be 313.042	-0.0167	ppb	0.0075	45.0	-440.226
Ca 370.602	117023	ppb	26906	23.0	410790
Cd 226.502	0.4477	ppb	0.2638	58.9	61.3266
Co 228.615	-1.2819	ppb	0.9640	75.2	-15.7612
Cr 267.716	1.3186	ppb	0.0610	4.6	83.9515
Cu 324.754	-1.8148	ppb	1.6901	93.1	201.921
Fe 271.441	348.986	ppb	26.4776	7.6	753.420
K 766.491	6387.36	ppb	224.725	3.5	268003
Mg 279.078	10128.1	ppb	297.530	2.9	26695.4
Mn 257.610	55.4450	ppb	1.9148	3.5	4120.90
Mo 202.032	3.3804	ppb	0.2826	8.4	46.4575
Na 330.237	31700.4	ppb	1868.92	5.9	1844.77
Ni 231.604	2.0355	ppb	0.1366	6.7	7.3222
Pb 220.353	10.8099	ppb	7.4339	68.8	54.7572
Sb 206.834	0.1522	ppb	6.6199	4349.4	-3.0342
Se 196.026	6.9199	ppb	12.7332	184.0	15.5808
Sn 189.925	-4.6572	ppb	3.7064	79.6	-21.7776
Sr 216.596	1011.57	ppb	23.2470	2.3	14780.1
Ti 334.941	0.7921	ppb	0.1189	15.0	275.503
Tl 190.794	-7.8973	ppb	9.3233	118.1	-28.6582
V 292.401	2.4438	ppb	0.4259	17.4	67.6376
Zn 206.200	7.3761	ppb	0.9188	12.5	21.2698

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680-90201-b-3-a (Samp) 5/17/2013, 12:41:58 AM Rack 2, Tube 41
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4695u	-0.9517u	-1.9869u
Al 308.215	1520.56	1526.44	1605.43
As 188.980	13.7442	9.4733	8.5659
B 249.678	11.9476	10.7161	11.1512
Ba 389.178	263.757	264.160	264.051
Be 313.042	0.1336	0.1365	0.1205
Ca 370.602	18026	17327	17021
Cd 226.502	0.4591	0.8378	1.0508
Co 228.615	47.6597	49.2562	36.0580
Cr 267.716	2.0712	1.7654	2.0833
Cu 324.754	0.9687	0.2956	-1.5844u
Fe 271.441	34215.8	34847.0	35828.0
K 766.491	5064.74	5115.12	5791.16
Mg 279.078	11558.4	11667.4	12118.6
Mn 257.610	12085.1	12148.3	12609.3
Mo 202.032	1.5429	2.1576	1.7909
Na 330.237	30535.8	32540.7	32210.7
Ni 231.604	18.6216	19.9538	21.6248
Pb 220.353	9.6103	13.0155	13.0502
Sb 206.834	-5.2021u	3.2748	3.8281
Se 196.026	15.6090	-7.3935u	-4.7735u
Sn 189.925	2.3586	1.9258	-7.6763u
Sr 216.596	136.272	139.366	142.283
Ti 334.941	25.8064	25.7048	25.2802
Tl 190.794	10.6696u	14.4466	13.8591
V 292.401	4.2492	4.2833	3.5301
Zn 206.200	29.3643	33.4186	34.7315

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1360	ppb	0.7754	68.2	-96.1546
Al 308.215	1550.81	ppb	47.3936	3.1	3622.47
As 188.980	10.5945	ppb	2.7652	26.1	-3.5397
B 249.678	11.2716	ppb	0.6245	5.5	265.623
Ba 389.178	263.989	ppb	0.2089	0.1	7013.72
Be 313.042	0.1302	ppb	0.0086	6.6	-165.338
Ca 370.602	17458	ppb	515.0	3.0	58263
Cd 226.502	0.7826	ppb	0.2997	38.3	227.553
Co 228.615	44.3246	ppb	7.2035	16.3	694.218
Cr 267.716	1.9733	ppb	0.1801	9.1	176.522
Cu 324.754	-0.1067	ppb	1.3232	1240.0	301.949
Fe 271.441	34963.6	ppb	812.403	2.3	72390.2
K 766.491	5323.68	ppb	405.637	7.6	223420
Mg 279.078	11781.5	ppb	296.978	2.5	30892.9
Mn 257.610	12280.9	ppb	286.168	2.3	876525
Mo 202.032	1.8305	ppb	0.3093	16.9	30.9027
Na 330.237	31762.4	ppb	1074.99	3.4	1835.97
Ni 231.604	20.0667	ppb	1.5048	7.5	72.8844
Pb 220.353	11.8920	ppb	1.9761	16.6	59.6265
Sb 206.834	0.6336	ppb	5.0614	798.8	-1.4055
Se 196.026	1.1473	ppb	12.5925	1097.6	14.7529
Sn 189.925	-1.1306	ppb	5.6728	501.7	-17.8316
Sr 216.596	139.307	ppb	3.0060	2.2	2071.42
Ti 334.941	25.5971	ppb	0.2791	1.1	8617.17
Tl 190.794	12.9917	ppb	2.0324	15.6	-20.7793
V 292.401	4.0209	ppb	0.4254	10.6	119.054
Zn 206.200	32.5048	ppb	2.7979	8.6	45.1115

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680-90201-b-4-a (Samp) 5/17/2013, 12:47:23 AM Rack 2, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6075u	-0.6642u	-0.7073u
Al 308.215	1411.70	1381.71	1332.89
As 188.980	1.5839	-2.3231u	-7.1261u
B 249.678	8.4218	7.0015	5.3137
Ba 389.178	112.926	120.334	115.913
Be 313.042	0.4462	0.4821	0.4861
Ca 370.602	8327	8288	8073
Cd 226.502	0.5645	0.6776	0.5434
Co 228.615	2.9455	0.9043	1.6409
Cr 267.716	7.5944	7.2542	7.2367
Cu 324.754	1.5724	3.1914	0.7186
Fe 271.441	1583.47	1588.59	1591.34
K 766.491	3171.53	3017.05	2917.17
Mg 279.078	5385.44	5270.45	5117.46
Mn 257.610	399.618	397.908	394.713
Mo 202.032	3.0348	1.3313	2.2892
Na 330.237	5883.25	6102.34	6715.18
Ni 231.604	3.6019	2.4924	3.4612
Pb 220.353	8.6196	4.9421	8.0202
Sb 206.834	-1.9469u	5.4145	1.3421
Se 196.026	16.1915	-3.0307u	17.1508
Sn 189.925	3.8972	-6.0636u	-3.6603u
Sr 216.596	66.7479	67.1608	65.5506
Ti 334.941	72.6120	72.3599	71.3380
Tl 190.794	-5.4220u	-9.0779u	-5.0268u
V 292.401	6.2466	6.0211	6.1380
Zn 206.200	28.6163	29.4868	27.1836

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9930	ppb	0.5326	53.6	-121.305
Al 308.215	1375.44	ppb	39.7755	2.9	3210.93
As 188.980	-2.6217	ppb	4.3626	166.4	-13.1646
B 249.678	6.9123	ppb	1.5560	22.5	251.985
Ba 389.178	116.391	ppb	3.7270	3.2	3053.19
Be 313.042	0.4715	ppb	0.0220	4.7	581.607
Ca 370.602	8229	ppb	137.0	1.7	28775
Cd 226.502	0.5952	ppb	0.0721	12.1	73.9261
Co 228.615	1.8303	ppb	1.0337	56.5	35.2706
Cr 267.716	7.3617	ppb	0.2016	2.7	442.896
Cu 324.754	1.8275	ppb	1.2560	68.7	391.823
Fe 271.441	1587.80	ppb	3.9964	0.3	3317.58
K 766.491	3035.25	ppb	128.152	4.2	127501
Mg 279.078	5257.78	ppb	134.442	2.6	13870.3
Mn 257.610	397.413	ppb	2.4897	0.6	28510.4
Mo 202.032	2.2184	ppb	0.8539	38.5	36.3382
Na 330.237	6233.59	ppb	431.219	6.9	420.919
Ni 231.604	3.1852	ppb	0.6040	19.0	11.4744
Pb 220.353	7.1940	ppb	1.9731	27.4	46.5783
Sb 206.834	1.6033	ppb	3.6876	230.0	-1.1596
Se 196.026	10.1039	ppb	11.3850	112.7	17.7095
Sn 189.925	-1.9422	ppb	5.1979	267.6	-18.7701
Sr 216.596	66.4864	ppb	0.8363	1.3	989.565
Ti 334.941	72.1033	ppb	0.6746	0.9	24191.0
Tl 190.794	-6.5089	ppb	2.2336	34.3	-27.5762
V 292.401	6.1353	ppb	0.1128	1.8	187.420
Zn 206.200	28.4289	ppb	1.1630	4.1	624369

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680-90201-b-5-a (Samp) **5/17/2013, 12:52:49 AM** **Rack 2, Tube 43**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2145u	-1.6282u	-1.6430u
Al 308.215	290.921	299.783	288.396
As 188.980	9.0640	8.3166	3.8137
B 249.678	26.0560	26.9855	27.3427
Ba 389.178	14.0758	15.7564	16.3135
Be 313.042	0.0701	0.0434	0.0417
Ca 370.602	23616	22672	25129
Cd 226.502	-0.1096	0.2411	0.4081
Co 228.615	-0.2098u	0.0619u	-0.2582u
Cr 267.716	0.8358	0.8704	0.5507
Cu 324.754	-1.3074u	-1.5089u	-0.2533u
Fe 271.441	1552.26	1585.53	1797.29
K 766.491	8768.02	9257.42	9635.36
Mg 279.078	6497.01	6557.46	6796.71
Mn 257.610	87.2400	88.1442	90.9372
Mo 202.032	55.4741	58.6481	59.9375
Na 330.237	64463.2	66387.5	75593.5
Ni 231.604	2.9046	3.6683	5.4672
Pb 220.353	8.7437	8.5824	4.8527
Sb 206.834	9.3941	-3.6421u	-2.3618u
Se 196.026	-6.7013u	16.7751	3.6497
Sn 189.925	5.5804	-0.3660u	-4.5736u
Sr 216.596	54.5717	55.3725	56.6059
Ti 334.941	5.0632	5.0391	5.3649
Tl 190.794	-7.4280u	-5.8493u	-12.2440u
V 292.401	1.4868	1.6022	1.3358
Zn 206.200	198.980	207.226	216.906

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4953	ppb	0.2432	16.3	-166.616
Al 308.215	293.033	ppb	5.9801	2.0	674.039
As 188.980	7.0648	ppb	2.8402	40.2	-6.1265
B 249.678	26.7947	ppb	0.6642	2.5	564.712
Ba 389.178	15.3819	ppb	1.1649	7.6	399.962
Be 313.042	0.0517	ppb	0.0160	30.8	-346.131
Ca 370.602	23806	ppb	1239	5.2	83428
Cd 226.502	0.1799	ppb	0.2643	146.9	53.7394
Co 228.615	-0.1354	ppb	0.1725	127.5	-0.6823
Cr 267.716	0.7523	ppb	0.1755	23.3	51.7320
Cu 324.754	-1.0232	ppb	0.6743	65.9	245.382
Fe 271.441	1645.02	ppb	132.909	8.1	3435.60
K 766.491	9220.27	ppb	434.860	4.7	386744
Mg 279.078	6617.06	ppb	158.493	2.4	17453.2
Mn 257.610	88.7738	ppb	1.9273	2.2	6490.60
Mo 202.032	58.0199	ppb	2.2971	4.0	518.184
Na 330.237	68814.7	ppb	5948.95	8.6	3915.96
Ni 231.604	4.0134	ppb	1.3157	32.8	14.4408
Pb 220.353	7.3929	ppb	2.2013	29.8	46.8707
Sb 206.834	1.1301	ppb	7.1854	635.8	-2.8626
Se 196.026	4.5745	ppb	11.7655	257.2	14.0913
Sn 189.925	0.2136	ppb	5.1017	2388.3	-16.2818
Sr 216.596	55.5167	ppb	1.0247	1.8	828.968
Ti 334.941	5.1557	ppb	0.1816	3.5	1717.49
Tl 190.794	-8.5071	ppb	3.3311	39.2	-29.4665
V 292.401	1.4749	ppb	0.1336	9.1	21.6561
Zn 206.200	207.704	ppb	8.9724	4.3	411.748

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680-90201-b-6-a (Samp) 5/17/2013, 12:58:14 AM Rack 2, Tube 44

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.8230u	-0.7135u	-0.6411u
Al 308.215	414.566	413.855	398.043
As 188.980	12.1105	1.3897	-2.4376u
B 249.678	12.2988	10.9424	9.6092
Ba 389.178	45.4323	48.8593	48.0100
Be 313.042	0.2820	0.2815	0.3015
Ca 370.602	2624	2598	2590
Cd 226.502	0.3863	0.6123	0.5945
Co 228.615	39.5753	31.6801	31.0327
Cr 267.716	0.7699	0.7045	0.5461
Cu 324.754	2.6331	0.7012	2.6008
Fe 271.441	1972.92	1959.41	1964.29
K 766.491	2459.55	2335.18	2317.31
Mg 279.078	1018.09	987.680	976.140
Mn 257.610	2349.12	2325.13	2280.96
Mo 202.032	3.1400	2.4235	2.9295
Na 330.237	5055.43	5341.86	5651.42
Ni 231.604	6.4298	6.4977	5.6588
Pb 220.353	8.6472	4.6829	0.5007
Sb 206.834	0.0520	0.3594	1.0711
Se 196.026	3.2732	-9.4617u	-2.0333u
Sn 189.925	1.0310	-2.9219u	-1.5462u
Sr 216.596	20.1884	17.6777	19.1096
Ti 334.941	6.3092	6.2648	6.3128
Tl 190.794	-2.4193u	-2.9113u	-6.4016u
V 292.401	1.3643	0.9398	0.6604
Zn 206.200	20.5710	19.5873	21.0682

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0592	ppb	0.6624	62.5	-117.777
Al 308.215	408.822	ppb	9.3411	2.3	942.331
As 188.980	3.6875	ppb	7.5413	204.5	-8.7316
B 249.678	10.9501	ppb	1.3448	12.3	314.848
Ba 389.178	47.4339	ppb	1.7847	3.8	1226.01
Be 313.042	0.2883	ppb	0.0114	4.0	180.047
Ca 370.602	2604	ppb	18.06	0.7	9012
Cd 226.502	0.5310	ppb	0.1256	23.7	72.5139
Co 228.615	34.0960	ppb	4.7562	13.9	535.660
Cr 267.716	0.6735	ppb	0.1151	17.1	53.3193
Cu 324.754	1.9784	ppb	1.1062	55.9	399.855
Fe 271.441	1965.54	ppb	6.8417	0.3	4105.15
K 766.491	2370.68	ppb	77.4830	3.3	99645.6
Mg 279.078	993.971	ppb	21.6725	2.2	2623.51
Mn 257.610	2318.40	ppb	34.5747	1.5	165575
Mo 202.032	2.8310	ppb	0.3683	13.0	41.6137
Na 330.237	5349.57	ppb	298.072	5.6	372.030
Ni 231.604	6.1954	ppb	0.4660	7.5	22.2598
Pb 220.353	4.6103	ppb	4.0737	88.4	41.0557
Sb 206.834	0.4942	ppb	0.5227	105.8	-2.5671
Se 196.026	-2.7406	ppb	6.3968	233.4	9.8473
Sn 189.925	-1.1457	ppb	2.0067	175.1	-17.8686
Sr 216.596	18.9919	ppb	1.2595	6.6	296.655
Ti 334.941	6.2956	ppb	0.0268	0.4	2073.83
Tl 190.794	-3.9108	ppb	2.1711	55.5	-26.6403
V 292.401	0.9882	ppb	0.3544	35.9	21.1708
Zn 206.200	20.4088	ppb	0.7536	3.7	46.8948

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680-90201-b-13-a (Samp) **5/17/2013, 1:03:40 AM** **Rack 2, Tube 45**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6386u	-0.6264u	-1.3169u
Al 308.215	614.180	586.759	625.213
As 188.980	-0.3456u	-0.3135u	5.7105
B 249.678	5.9969	5.4117	4.3923
Ba 389.178	117.493	117.338	119.916
Be 313.042	0.3240	0.3354	0.3269
Ca 370.602	11709	11518	11997
Cd 226.502	0.5664	0.4426	0.4071
Co 228.615	5.3665	6.0590	2.7494
Cr 267.716	16.9051	15.4958	15.2679
Cu 324.754	1.5549	3.1631	-0.8329u
Fe 271.441	1973.88	1740.13	1756.54
K 766.491	2695.72	2668.58	2867.30
Mg 279.078	5875.47	5734.62	6069.32
Mn 257.610	1126.98	1116.79	1179.40
Mo 202.032	2.3865	2.1007	3.0350
Na 330.237	5664.58	5687.22	5409.41
Ni 231.604	4.2640	6.9311	5.2412
Pb 220.353	11.0454	9.3807	12.5362
Sb 206.834	8.1630	6.7870	-2.1124u
Se 196.026	2.7134	7.1829	-17.9316u
Sn 189.925	-1.3038u	-1.2505u	0.1439
Sr 216.596	85.9433	83.5666	87.1358
Ti 334.941	13.1026	12.7641	12.9318
Tl 190.794	-0.5722u	-6.3301u	-5.8893u
V 292.401	20.2624	18.2270	17.1046
Zn 206.200	17.6620	18.5294	21.3014

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8606	ppb	0.3952	45.9	-108.679
Al 308.215	608.717	ppb	19.8004	3.3	1411.34
As 188.980	1.6838	ppb	3.4872	207.1	-10.0579
B 249.678	5.2670	ppb	0.8120	15.4	225.631
Ba 389.178	118.249	ppb	1.4453	1.2	3104.60
Be 313.042	0.3288	ppb	0.0059	1.8	271.592
Ca 370.602	11742	ppb	241.2	2.1	41079
Cd 226.502	0.4721	ppb	0.0836	17.7	69.1756
Co 228.615	4.7249	ppb	1.7456	36.9	78.2883
Cr 267.716	15.8896	ppb	0.8868	5.6	949.574
Cu 324.754	1.2950	ppb	2.0106	155.3	364.062
Fe 271.441	1823.52	ppb	130.477	7.2	3805.99
K 766.491	2743.87	ppb	107.755	3.9	115288
Mg 279.078	5893.14	ppb	168.048	2.9	15535.2
Mn 257.610	1141.05	ppb	33.5935	2.9	81576.1
Mo 202.032	2.5074	ppb	0.4787	19.1	38.7877
Na 330.237	5587.07	ppb	154.274	2.8	385.290
Ni 231.604	5.4788	ppb	1.3493	24.6	19.6911
Pb 220.353	10.9875	ppb	1.5785	14.4	55.3539
Sb 206.834	4.2792	ppb	5.5779	130.3	2.1966
Se 196.026	-2.6785	ppb	13.3973	500.2	9.6333
Sn 189.925	-0.8035	ppb	0.8209	102.2	-17.4738
Sr 216.596	85.5485	ppb	1.8170	2.1	1268.16
Ti 334.941	12.9329	ppb	0.1693	1.3	4329.96
Tl 190.794	-4.2639	ppb	3.2047	75.2	-25.7584
V 292.401	18.5313	ppb	1.6007	8.6	584.277
Zn 206.200	19.1643	ppb	1.9010	9.9	44.3942

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680-90201-b-14-a (Samp) **5/17/2013, 1:09:06 AM** **Rack 2, Tube 46**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.1555u	-1.1532u	-0.0127u
Al 308.215	847.307	857.172	851.878
As 188.980	-2.4394u	-4.1052u	0.0100
B 249.678	4.6493	4.9649	4.8229
Ba 389.178	102.150	108.025	101.978
Be 313.042	0.1805	0.1774	0.1780
Ca 370.602	14417	14152	14218
Cd 226.502	0.5185	0.4708	0.1845
Co 228.615	-1.7397u	2.3106	4.2554
Cr 267.716	3.6183	3.4921	4.3668
Cu 324.754	-0.2343u	2.2309	3.4652
Fe 271.441	837.678	848.559	929.560
K 766.491	4309.20	4272.69	4283.46
Mg 279.078	8459.36	8416.60	8369.20
Mn 257.610	422.958	426.201	423.571
Mo 202.032	2.9317	3.8267	3.4863
Na 330.237	8903.07	9249.46	9622.87
Ni 231.604	13.5874	15.7031	11.5509
Pb 220.353	11.3058	15.0157	8.3689
Sb 206.834	-7.2935u	6.0496	-7.0904u
Se 196.026	1.6029	-3.5855u	2.0961
Sn 189.925	-0.6622u	-2.8554u	-3.4463u
Sr 216.596	104.476	104.870	104.916
Ti 334.941	26.7040	26.8332	26.6344
Tl 190.794	-9.7363u	-6.5618u	-5.1281u
V 292.401	10.5025	10.8155	11.7516
Zn 206.200	12.5520	12.1916	9.3332

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7738	ppb	0.6592	85.2	-104.761
Al 308.215	852.119	ppb	4.9365	0.6	1982.71
As 188.980	-2.1782	ppb	2.0700	95.0	-12.7794
B 249.678	4.8123	ppb	0.1581	3.3	220.068
Ba 389.178	104.051	ppb	3.4424	3.3	2737.21
Be 313.042	0.1786	ppb	0.0016	0.9	-54.8360
Ca 370.602	14262	ppb	137.7	1.0	50008
Cd 226.502	0.3913	ppb	0.1806	46.2	61.0942
Co 228.615	1.6088	ppb	3.0586	190.1	30.1792
Cr 267.716	3.8257	ppb	0.4728	12.4	233.077
Cu 324.754	1.8206	ppb	1.8836	103.5	391.212
Fe 271.441	871.932	ppb	50.2028	5.8	1836.20
K 766.491	4288.45	ppb	18.7643	0.4	180028
Mg 279.078	8415.05	ppb	45.1004	0.5	22181.9
Mn 257.610	424.243	ppb	1.7225	0.4	30432.7
Mo 202.032	3.4149	ppb	0.4518	13.2	46.7014
Na 330.237	9258.47	ppb	359.985	3.9	590.658
Ni 231.604	13.6138	ppb	2.0762	15.3	48.7782
Pb 220.353	11.5635	ppb	3.3309	28.8	56.5353
Sb 206.834	-2.7781	ppb	7.6457	275.2	-6.5396
Se 196.026	0.0378	ppb	3.1476	8320.0	11.2299
Sn 189.925	-2.3213	ppb	1.4669	63.2	-19.1952
Sr 216.596	104.754	ppb	0.2415	0.2	1547.72
Ti 334.941	26.7239	ppb	0.1009	0.4	8973.81
Tl 190.794	-7.1421	ppb	2.3583	33.0	-28.1712
V 292.401	11.0232	ppb	0.6499	5.9	343.824
Zn 206.200	11.3589	ppb	1.7636	15.5	29.0976

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680-90201-b-15-a (Samp) **5/17/2013, 1:14:32 AM** **Rack 2, Tube 47**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3713u	-0.4554u	-1.0022u
Al 308.215	330.855	298.804	299.272
As 188.980	-7.5221u	1.1612	7.8148
B 249.678	6.0164	2.6214	3.9082
Ba 389.178	39.9282	34.9129	36.0981
Be 313.042	0.0138	0.0308	0.0282
Ca 370.602	16188	17573	17008
Cd 226.502	0.0510	0.3685	-0.0562u
Co 228.615	-0.6125u	0.6336	0.5028
Cr 267.716	2.6225	2.3561	2.5995
Cu 324.754	3.3625	0.1547	1.7605
Fe 271.441	566.765	541.651	534.144
K 766.491	8036.05	7147.73	6868.22
Mg 279.078	8157.77	7821.59	7609.69
Mn 257.610	46.6264	44.1340	43.3173
Mo 202.032	4.4363	2.3135	2.9557
Na 330.237	15036.8	14617.7	14678.4
Ni 231.604	7.0450	6.2838	3.7316
Pb 220.353	10.5168	4.6004	5.8274
Sb 206.834	8.8328	6.0128	-1.4783u
Se 196.026	10.7753	-6.8454u	3.2285
Sn 189.925	-4.9505u	-1.9650u	5.6438
Sr 216.596	80.9713	76.1249	75.6592
Ti 334.941	6.4475	5.9702	5.9858
Tl 190.794	-6.9577u	-2.6329u	-14.6477u
V 292.401	8.1061	7.5776	7.8745
Zn 206.200	34.0867	29.2091	28.8933

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6096	ppb	0.3426	56.2	-89.4631
Al 308.215	309.644	ppb	18.3709	5.9	709.579
As 188.980	0.4846	ppb	7.6908	1586.9	-10.8610
B 249.678	4.1820	ppb	1.7140	41.0	210.714
Ba 389.178	36.9797	ppb	2.6213	7.1	969.958
Be 313.042	0.0243	ppb	0.0092	37.8	-391.070
Ca 370.602	16923	ppb	696.8	4.1	59370
Cd 226.502	0.1211	ppb	0.2209	182.4	46.4475
Co 228.615	0.1746	ppb	0.6848	392.1	7.0815
Cr 267.716	2.5261	ppb	0.1476	5.8	155.043
Cu 324.754	1.7592	ppb	1.6039	91.2	387.954
Fe 271.441	547.520	ppb	17.0839	3.1	1164.58
K 766.491	7350.67	ppb	609.789	8.3	308380
Mg 279.078	7863.02	ppb	276.380	3.5	20733.1
Mn 257.610	44.6926	ppb	1.7238	3.9	3347.47
Mo 202.032	3.2352	ppb	1.0886	33.7	45.1775
Na 330.237	14777.6	ppb	226.480	1.5	899.111
Ni 231.604	5.6868	ppb	1.7355	30.5	20.3970
Pb 220.353	6.9815	ppb	3.1225	44.7	46.0414
Sb 206.834	4.4558	ppb	5.3289	119.6	2.1880
Se 196.026	2.3861	ppb	8.8405	370.5	12.6689
Sn 189.925	-0.4239	ppb	5.4627	1288.8	-17.0350
Sr 216.596	77.5851	ppb	2.9418	3.8	1152.06
Ti 334.941	6.1345	ppb	0.2712	4.4	2057.79
Tl 190.794	-8.0794	ppb	6.0854	75.3	-28.8530
V 292.401	7.8527	ppb	0.2649	3.4	241.459
Zn 206.200	30.7297	ppb	2.9115	9.5	66.7938

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680-90201-b-17-a (Samp) **5/17/2013, 1:19:58 AM** **Rack 2, Tube 48**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2896u	0.3831	-0.1443u
Al 308.215	171.059	165.632	169.936
As 188.980	-3.8358u	3.7284	3.6591
B 249.678	10.8285	10.0326	11.2648
Ba 389.178	31.4239	32.2963	33.5209
Be 313.042	0.0025	0.0203	-0.0018u
Ca 370.602	13409	13360	13370
Cd 226.502	-0.0477	0.2947	0.4813
Co 228.615	5.7374	5.8947	6.2228
Cr 267.716	1.0321	0.9069	0.4681
Cu 324.754	5.7736	2.4835	4.6290
Fe 271.441	689.579	627.631	691.133
K 766.491	8010.47	7165.88	7773.24
Mg 279.078	5693.29	5639.31	5675.77
Mn 257.610	659.685	644.658	649.116
Mo 202.032	12.9140	12.6367	13.6654
Na 330.237	31039.0	30133.2	28331.9
Ni 231.604	3.6297	1.3327	3.2104
Pb 220.353	3.0514	4.8627	5.1945
Sb 206.834	8.9137	-5.3767u	0.5122
Se 196.026	5.8654	16.6140	-3.3325u
Sn 189.925	-1.3022u	1.6062	-1.5498u
Sr 216.596	57.6040	57.1894	57.0750
Ti 334.941	6.5614	6.7179	6.7637
Tl 190.794	-0.7896u	-8.6452u	-8.9355u
V 292.401	2.2796	2.5141	2.7511
Zn 206.200	21.4839	22.4083	20.6166

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3502	ppb	0.8552	244.2	-62.9780
Al 308.215	168.876	ppb	2.8645	1.7	379.823
As 188.980	1.1839	ppb	4.3473	367.2	-10.4080
B 249.678	10.7086	ppb	0.6248	5.8	313.228
Ba 389.178	32.4137	ppb	1.0534	3.2	843.193
Be 313.042	0.0070	ppb	0.0117	167.0	-434.063
Ca 370.602	13380	ppb	25.68	0.2	46932
Cd 226.502	0.2428	ppb	0.2683	110.5	52.7151
Co 228.615	5.9516	ppb	0.2477	4.2	96.6234
Cr 267.716	0.8024	ppb	0.2962	36.9	55.4564
Cu 324.754	4.2954	ppb	1.6702	38.9	520.338
Fe 271.441	669.448	ppb	36.2230	5.4	1417.93
K 766.491	7649.86	ppb	435.600	5.7	320921
Mg 279.078	5669.46	ppb	27.5418	0.5	14951.5
Mn 257.610	651.153	ppb	7.7178	1.2	46616.7
Mo 202.032	13.0720	ppb	0.5323	4.1	130.123
Na 330.237	29834.7	ppb	1378.00	4.6	1740.27
Ni 231.604	2.7243	ppb	1.2232	44.9	9.7971
Pb 220.353	4.3695	ppb	1.1535	26.4	40.1808
Sb 206.834	1.3497	ppb	7.1819	532.1	-1.7695
Se 196.026	6.3823	ppb	9.9833	156.4	15.3576
Sn 189.925	-0.4153	ppb	1.7550	422.6	-17.0207
Sr 216.596	57.2895	ppb	0.2783	0.5	855.223
Ti 334.941	6.6810	ppb	0.1061	1.6	2227.44
Tl 190.794	-6.1234	ppb	4.6215	75.5	-27.3282
V 292.401	2.5149	ppb	0.2357	9.4	67.3548
Zn 206.200	21.5029	ppb	0.8960	4.2	48.8404

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680-90203-a-2-a (Samp) **5/17/2013, 1:36:15 AM** **Rack 2, Tube 51**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3927u	-0.6551u	-0.9778u
Al 308.215	91.3322	113.392	127.128
As 188.980	-4.2506u	16.4632	-1.6557u
B 249.678	20.8049	19.6095	19.0791
Ba 389.178	18.8361	19.4872	18.3327
Be 313.042	0.0272	0.0397	0.0304
Ca 370.602	4897	4811	4900
Cd 226.502	0.6574	0.0734	0.3541
Co 228.615	-0.7942u	-0.6330u	-0.3347u
Cr 267.716	0.5905	0.0763	0.6026
Cu 324.754	6.6483	6.6110	7.8946
Fe 271.441	89.9836	73.6007	105.786
K 766.491	10078.0	10194.2	10861.0
Mg 279.078	2462.55	2492.05	2469.63
Mn 257.610	12.0454	10.1816	11.2769
Mo 202.032	3.2367	3.1637	3.4553
Na 330.237	23780.3	25399.1	25004.2
Ni 231.604	4.6881	2.0426	5.0084
Pb 220.353	10.2782	11.3187	9.5568
Sb 206.834	-1.3608u	1.8144	2.8494
Se 196.026	-5.1906u	5.0152	-9.9268u
Sn 189.925	5.3924	-0.0708u	2.0478
Sr 216.596	44.2112	44.6592	44.6252
Ti 334.941	0.3261	0.3219	0.2284
Tl 190.794	-10.6687u	-5.2219u	-1.8905u
V 292.401	0.4356	0.1444	0.4625
Zn 206.200	34.5950	30.0452	31.1686

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0085	ppb	0.3698	36.7	-122.944
Al 308.215	110.617	ppb	18.0583	16.3	242.484
As 188.980	3.5190	ppb	11.2848	320.7	-8.8314
B 249.678	19.8311	ppb	0.8840	4.5	457.733
Ba 389.178	18.8853	ppb	0.5788	3.1	476.317
Be 313.042	0.0324	ppb	0.0065	20.1	-379.251
Ca 370.602	4869	ppb	50.59	1.0	17097
Cd 226.502	0.3616	ppb	0.2921	80.8	55.9820
Co 228.615	-0.5873	ppb	0.2331	39.7	-4.9585
Cr 267.716	0.4232	ppb	0.3004	71.0	30.5897
Cu 324.754	7.0513	ppb	0.7305	10.4	663.265
Fe 271.441	89.7902	ppb	16.0937	17.9	217.184
K 766.491	10377.7	ppb	422.542	4.1	435258
Mg 279.078	2474.74	ppb	15.4042	0.6	6550.02
Mn 257.610	11.1679	ppb	0.9367	8.4	940.644
Mo 202.032	3.2852	ppb	0.1517	4.6	45.6560
Na 330.237	24727.8	ppb	844.074	3.4	1455.15
Ni 231.604	3.9130	ppb	1.6277	41.6	14.0346
Pb 220.353	10.3846	ppb	0.8857	8.5	53.7800
Sb 206.834	1.1010	ppb	2.1939	199.3	-1.8999
Se 196.026	-3.3674	ppb	7.6360	226.8	8.9648
Sn 189.925	2.4564	ppb	2.7544	112.1	-13.7651
Sr 216.596	44.4985	ppb	0.2494	0.6	667.765
Ti 334.941	0.2921	ppb	0.0553	18.9	65.0151
Tl 190.794	-5.9271	ppb	4.4314	74.8	-26.4312
V 292.401	0.3475	ppb	0.1764	50.8	0.2305
Zn 206.200	31.9362	ppb	2.3701	7.4	69.0873

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680-90203-a-2-b ms (Samp) **5/17/2013, 1:41:40 AM** **Rack 2, Tube 52**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.8542	49.8111	47.6832
Al 308.215	3259.90	3258.22	3232.42
As 188.980	135.594	142.540	136.776
B 249.678	206.996	206.445	206.448
Ba 389.178	125.341	123.549	122.680
Be 313.042	45.9216	45.7867	45.7069
Ca 370.602	9594	9543	9412
Cd 226.502	73.9557	74.2120	73.4883
Co 228.615	63.4463	62.8725	61.8492
Cr 267.716	111.399	110.793	110.277
Cu 324.754	83.9905	79.7662	77.7506
Fe 271.441	5202.20	5218.46	5147.39
K 766.491	19071.1	19145.1	17971.4
Mg 279.078	8518.25	8477.59	8394.03
Mn 257.610	1086.44	1080.14	1080.43
Mo 202.032	99.9969	98.9613	98.1892
Na 330.237	29332.2	30534.4	31119.0
Ni 231.604	131.305	128.686	126.981
Pb 220.353	83.3373	81.0460	79.9158
Sb 206.834	54.0644	50.4126	49.1498
Se 196.026	153.445	143.033	162.540
Sn 189.925	286.117	284.828	284.567
Sr 216.596	165.158	164.625	163.137
Ti 334.941	84.7996	84.7074	84.3434
Tl 190.794	59.2744	53.9118	58.3176
V 292.401	117.196	120.337	107.984
Zn 206.200	219.891	220.707	217.316

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.7828	ppb	2.0857	4.2	4384.96
Al 308.215	3250.18	ppb	15.4076	0.5	7616.56
As 188.980	138.304	ppb	3.7163	2.7	87.0734
B 249.678	206.629	ppb	0.3175	0.2	3388.37
Ba 389.178	123.857	ppb	1.3568	1.1	3267.70
Be 313.042	45.8051	ppb	0.1085	0.2	99390.5
Ca 370.602	9516	ppb	94.04	1.0	32941
Cd 226.502	73.8853	ppb	0.3669	0.5	3653.26
Co 228.615	62.7227	ppb	0.8090	1.3	979.281
Cr 267.716	110.823	ppb	0.5614	0.5	6567.88
Cu 324.754	80.5024	ppb	3.1845	4.0	4489.62
Fe 271.441	5189.35	ppb	37.2364	0.7	10782.9
K 766.491	18729.2	ppb	657.325	3.5	785309
Mg 279.078	8463.29	ppb	63.3343	0.7	22302.9
Mn 257.610	1082.34	ppb	3.5598	0.3	77396.6
Mo 202.032	99.0491	ppb	0.9070	0.9	871.973
Na 330.237	30328.5	ppb	911.000	3.0	1763.91
Ni 231.604	128.991	ppb	2.1782	1.7	461.853
Pb 220.353	81.4331	ppb	1.7433	2.1	215.472
Sb 206.834	51.2090	ppb	2.5523	5.0	58.8870
Se 196.026	153.006	ppb	9.7608	6.4	109.562
Sn 189.925	285.171	ppb	0.8302	0.3	307.496
Sr 216.596	164.307	ppb	1.0472	0.6	2409.16
Ti 334.941	84.6168	ppb	0.2412	0.3	28410.0
Tl 190.794	57.1680	ppb	2.8602	5.0	41.8466
V 292.401	115.172	ppb	6.4204	5.6	3658.02
Zn 206.200	219.305	ppb	1.7700	0.8	434.462

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680-90203-a-2-c msd (Samp) 5/17/2013, 1:47:06 AM Rack 2, Tube 53**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.3573	47.8685	50.5294
Al 308.215	3343.84	3295.77	3295.86
As 188.980	150.547	138.279	137.020
B 249.678	210.942	212.046	213.840
Ba 389.178	126.984	126.950	124.745
Be 313.042	46.8547	46.7574	46.8175
Ca 370.602	9760	9728	9611
Cd 226.502	75.9999	74.9811	75.1793
Co 228.615	75.1935	64.4458	63.3694
Cr 267.716	113.984	113.064	113.433
Cu 324.754	83.9490	79.9886	82.3608
Fe 271.441	5324.64	5288.14	5243.61
K 766.491	19269.7	19225.7	18847.8
Mg 279.078	8680.63	8611.52	8535.81
Mn 257.610	1130.50	1109.72	1090.43
Mo 202.032	100.462	101.012	99.5456
Na 330.237	31882.7	30936.0	28997.4
Ni 231.604	127.117	130.810	129.603
Pb 220.353	81.4775	74.7156	79.1708
Sb 206.834	44.7725	54.2274	50.2832
Se 196.026	147.096	146.640	143.062
Sn 189.925	297.574	285.704	287.516
Sr 216.596	168.222	167.422	165.615
Ti 334.941	86.3806	86.2790	86.3645
Tl 190.794	59.2674	61.3026	58.9081
V 292.401	113.729	118.090	122.666
Zn 206.200	230.690	223.580	225.369

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.5851	ppb	1.4891	3.0	4367.18
Al 308.215	3311.82	ppb	27.7300	0.8	7761.33
As 188.980	141.948	ppb	7.4731	5.3	89.6676
B 249.678	212.276	ppb	1.4627	0.7	3477.04
Ba 389.178	126.226	ppb	1.2830	1.0	3330.77
Be 313.042	46.8099	ppb	0.0491	0.1	101581
Ca 370.602	9699	ppb	78.35	0.8	33574
Cd 226.502	75.3868	ppb	0.5401	0.7	3726.72
Co 228.615	67.6695	ppb	6.5381	9.7	1056.33
Cr 267.716	113.494	ppb	0.4629	0.4	6726.01
Cu 324.754	82.0995	ppb	1.9931	2.4	4572.80
Fe 271.441	5285.46	ppb	40.5829	0.8	10982.8
K 766.491	19114.4	ppb	231.882	1.2	801453
Mg 279.078	8609.32	ppb	72.4338	0.8	22687.1
Mn 257.610	1110.22	ppb	20.0404	1.8	79386.8
Mo 202.032	100.340	ppb	0.7406	0.7	883.104
Na 330.237	30605.4	ppb	1470.84	4.8	1779.26
Ni 231.604	129.177	ppb	1.8830	1.5	462.522
Pb 220.353	78.4547	ppb	3.4374	4.4	208.690
Sb 206.834	49.7610	ppb	4.7490	9.5	57.1439
Se 196.026	145.599	ppb	2.2093	1.5	104.811
Sn 189.925	290.265	ppb	6.3947	2.2	313.285
Sr 216.596	167.086	ppb	1.3359	0.8	2449.62
Ti 334.941	86.3414	ppb	0.0546	0.1	28989.9
Tl 190.794	59.8260	ppb	1.2913	2.2	44.7525
V 292.401	118.162	ppb	4.4686	3.8	3753.44
Zn 206.200	226.546	ppb	3.6980	1.6	448.576

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mb 680-276923/1-a (Samp) **5/17/2013, 1:52:31 AM** **Rack 2, Tube 54**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6966u	-1.6287u	-0.8323u
Al 308.215	70.6530	76.4269	71.3990
As 188.980	4.4642	9.7757	-0.7412u
B 249.678	8.0911	7.5015	7.7483
Ba 389.178	3.9699	4.0237	5.4696
Be 313.042	0.0213	0.0209	0.0346
Ca 370.602	-12.73u	-18.23u	-21.73u
Cd 226.502	0.5076	0.3301	0.4302
Co 228.615	0.9594	-0.0772u	0.1298
Cr 267.716	-0.0269u	0.2868	-0.1144u
Cu 324.754	-1.4501u	-0.1773u	-3.5210u
Fe 271.441	0.5858	16.1684	8.2209
K 766.491	15.7836	14.4712	13.9144
Mg 279.078	34.3430	32.9698	32.0025
Mn 257.610	1.1715	0.5935	1.1159
Mo 202.032	2.1766	2.3611	4.0446
Na 330.237	-158.558u	119.199	262.746
Ni 231.604	3.7149	2.3118	2.3645
Pb 220.353	3.2017	4.9418	4.8859
Sb 206.834	-4.2571u	-1.4679u	4.0161
Se 196.026	20.3042	11.0740	-13.6505u
Sn 189.925	-0.6769u	-2.4487u	-2.8579u
Sr 216.596	2.6737	2.5019	3.6166
Ti 334.941	-0.0586u	-0.0006u	0.0920
Tl 190.794	-7.2606u	-10.2719u	-6.4386u
V 292.401	-0.1356u	0.3325	-0.0783u
Zn 206.200	3.6781	2.3964	1.2409

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0525	ppb	0.5036	47.8	-124.047
Al 308.215	72.8263	ppb	3.1404	4.3	153.770
As 188.980	4.4996	ppb	5.2585	116.9	-8.1893
B 249.678	7.7803	ppb	0.2961	3.8	268.226
Ba 389.178	4.4877	ppb	0.8508	19.0	89.5940
Be 313.042	0.0256	ppb	0.0078	30.4	-392.471
Ca 370.602	-17.56	ppb	4.537	25.8	-50.47
Cd 226.502	0.4226	ppb	0.0890	21.1	58.6773
Co 228.615	0.3373	ppb	0.5486	162.6	9.4540
Cr 267.716	0.0485	ppb	0.2110	434.8	7.8602
Cu 324.754	-1.7162	ppb	1.6877	98.3	206.964
Fe 271.441	8.3250	ppb	7.7918	93.6	48.7732
K 766.491	14.7231	ppb	0.9597	6.5	896.408
Mg 279.078	33.1051	ppb	1.1761	3.6	123.004
Mn 257.610	0.9603	ppb	0.3189	33.2	205.672
Mo 202.032	2.8607	ppb	1.0294	36.0	41.9971
Na 330.237	74.4623	ppb	214.185	287.6	78.2232
Ni 231.604	2.7970	ppb	0.7953	28.4	10.0377
Pb 220.353	4.3431	ppb	0.9889	22.8	40.0264
Sb 206.834	-0.5696	ppb	4.2091	739.0	-3.9252
Se 196.026	5.9093	ppb	17.5567	297.1	14.9182
Sn 189.925	-1.9945	ppb	1.1593	58.1	-18.8372
Sr 216.596	2.9307	ppb	0.6001	20.5	61.0882
Ti 334.941	0.0109	ppb	0.0760	696.2	-41.3072
Tl 190.794	-7.9904	ppb	2.0181	25.3	-28.6852
V 292.401	0.0395	ppb	0.2553	646.1	-9.3833
Zn 206.200	2.4385	ppb	1.2191	50.0	116.070

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ics 680-276923/2-a (Samp) 5/17/2013, 1:57:57 AM Rack 2, Tube 55
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	21.7705	23.6623	21.0729
Al 308.215	1785.33	1695.68	1622.45
As 188.980	77.0572	60.5795	69.2170
B 249.678	91.0028	85.3499	84.5637
Ba 389.178	47.8139	46.9005	45.7421
Be 313.042	21.7959	20.5547	20.1827
Ca 370.602	2215	2171	2123
Cd 226.502	34.2924	32.3791	31.1414
Co 228.615	28.1411	30.3547	25.4542
Cr 267.716	51.9994	50.3941	48.7200
Cu 324.754	36.1035	29.8207	31.1914
Fe 271.441	2413.83	2308.68	2273.02
K 766.491	3996.72	3864.44	3585.51
Mg 279.078	2844.69	2727.78	2660.75
Mn 257.610	416.056	400.582	386.995
Mo 202.032	48.6234	44.7924	44.9202
Na 330.237	2946.87	2520.06	2596.49
Ni 231.604	53.4960	52.1596	55.7616
Pb 220.353	39.2092	40.3399	41.2137
Sb 206.834	26.4194	32.9640	19.3567
Se 196.026	61.8859	69.9758	63.2992
Sn 189.925	120.829	119.739	117.040
Sr 216.596	57.8809	56.9698	55.2806
Ti 334.941	38.8091	36.9605	36.3435
Tl 190.794	18.1671	23.6408	19.2233
V 292.401	52.2648	51.2876	48.7975
Zn 206.200	92.4637	87.0087	87.0040

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.1686	ppb	1.3398	6.0	1937.23
Al 308.215	1701.15	ppb	81.5771	4.8	3977.82
As 188.980	68.9512	ppb	8.2421	12.0	37.6693
B 249.678	86.9721	ppb	3.5127	4.0	1510.44
Ba 389.178	46.8188	ppb	1.0383	2.2	1216.42
Be 313.042	20.8445	ppb	0.8447	4.1	44986.4
Ca 370.602	2170	ppb	45.78	2.1	7418
Cd 226.502	32.6043	ppb	1.5875	4.9	1633.44
Co 228.615	27.9833	ppb	2.4541	8.8	439.282
Cr 267.716	50.3712	ppb	1.6399	3.3	2987.72
Cu 324.754	32.3718	ppb	3.3035	10.2	1982.63
Fe 271.441	2331.84	ppb	73.2049	3.1	4862.64
K 766.491	3815.56	ppb	209.921	5.5	160207
Mg 279.078	2744.41	ppb	93.0889	3.4	7255.07
Mn 257.610	401.211	ppb	14.5405	3.6	28775.5
Mo 202.032	46.1120	ppb	2.1759	4.7	415.203
Na 330.237	2687.81	ppb	227.588	8.5	222.365
Ni 231.604	53.8058	ppb	1.8209	3.4	192.672
Pb 220.353	40.2543	ppb	1.0050	2.5	121.759
Sb 206.834	26.2467	ppb	6.8053	25.9	28.6294
Se 196.026	65.0537	ppb	4.3209	6.6	52.9825
Sn 189.925	119.203	ppb	1.9504	1.6	118.885
Sr 216.596	56.7104	ppb	1.3194	2.3	842.970
Ti 334.941	37.3710	ppb	1.2830	3.4	12516.9
Tl 190.794	20.3437	ppb	2.9037	14.3	1.9697
V 292.401	50.7833	ppb	1.7878	3.5	1607.23
Zn 206.200	88.8255	ppb	3.1508	3.5	180.056

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Iics 680-276923/24-a (Samp) 5/17/2013, 2:03:22 AM Rack 2, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.7348	10.9376	11.9498
Al 308.215	304.771	290.748	290.505
As 188.980	43.4216	37.3524	29.1826
B 249.678	115.999	128.749	123.866
Ba 389.178	14.6606	17.3796	15.9108
Be 313.042	4.5227	4.9311	4.7511
Ca 370.602	585.5	624.7	604.0
Cd 226.502	9.2238	10.2279	9.7883
Co 228.615	6.7850	10.3108	17.9539
Cr 267.716	13.5092	14.3240	16.0865
Cu 324.754	15.1314	23.4719	21.6031
Fe 271.441	79.0976	79.5350	71.9553
K 766.491	2081.14	2206.96	2156.99
Mg 279.078	786.960	848.478	828.534
Mn 257.610	22.5668	24.3727	24.8701
Mo 202.032	14.2978	17.1880	17.5309
Na 330.237	985.423	1308.29	1979.43
Ni 231.604	67.2126	67.2780	60.9320
Pb 220.353	26.3093	26.2045	30.4701
Sb 206.834	25.4136	32.7559	20.7071
Se 196.026	16.5237	41.0410	30.8934
Sn 189.925	83.3801	81.7524	86.2484
Sr 216.596	18.3365	18.9404	18.7763
Ti 334.941	10.1287	11.2007	10.8281
Tl 190.794	36.9512	36.7030	32.0710
V 292.401	12.4639	14.0169	14.8991
Zn 206.200	46.3346	51.0203	50.9283

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.8741	ppb	1.1089	10.2	934.789
Al 308.215	295.341	ppb	8.1674	2.8	676.754
As 188.980	36.6522	ppb	7.1453	19.5	14.6813
B 249.678	122.871	ppb	6.4331	5.2	2079.16
Ba 389.178	15.9836	ppb	1.3610	8.5	394.800
Be 313.042	4.7350	ppb	0.2047	4.3	9871.48
Ca 370.602	604.7	ppb	19.62	3.2	2130
Cd 226.502	9.7467	ppb	0.5033	5.2	512.245
Co 228.615	11.6832	ppb	5.7095	48.9	185.915
Cr 267.716	14.6399	ppb	1.3174	9.0	871.437
Cu 324.754	20.0688	ppb	4.3768	21.8	1340.99
Fe 271.441	76.8626	ppb	4.2555	5.5	192.904
K 766.491	2148.36	ppb	63.3475	2.9	90327.3
Mg 279.078	821.324	ppb	31.3866	3.8	2197.46
Mn 257.610	23.9365	ppb	1.2120	5.1	1847.32
Mo 202.032	16.3389	ppb	1.7759	10.9	158.344
Na 330.237	1424.38	ppb	507.071	35.6	153.136
Ni 231.604	65.1408	ppb	3.6451	5.6	233.171
Pb 220.353	27.6613	ppb	2.4331	8.8	93.0734
Sb 206.834	26.2922	ppb	6.0723	23.1	28.5919
Se 196.026	29.4860	ppb	12.3191	41.8	30.0597
Sn 189.925	83.7936	ppb	2.2764	2.7	78.6472
Sr 216.596	18.6844	ppb	0.3122	1.7	288.623
Ti 334.941	10.7191	ppb	0.5442	5.1	3558.03
Tl 190.794	35.2417	ppb	2.7487	7.8	18.8201
V 292.401	13.7933	ppb	1.2329	8.9	428.328
Zn 206.200	49.4277	ppb	2.6791	5.4	103.108

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680-90063-g-3-j (Samp) **5/17/2013, 2:08:48 AM** **Rack 2, Tube 57**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7851u	0.1833	-1.1852u
Al 308.215	94.7235	66.9809	113.312
As 188.980	2.7335	6.7792	6.7500
B 249.678	16.9228	14.4875	15.9222
Ba 389.178	3.1847	3.1991	6.1038
Be 313.042	-0.0115u	0.0097	-0.0107u
Ca 370.602	175.3	173.2	180.6
Cd 226.502	0.3273	-0.0268u	0.5029
Co 228.615	0.0059	-0.5277u	-2.2833u
Cr 267.716	0.5835	0.1825	0.3269
Cu 324.754	1.1863	-1.1439u	-0.8324u
Fe 271.441	-16.8751u	1.6334	12.1767
K 766.491	5791.49	5258.84	6304.44
Mg 279.078	3852.51	3465.16	4156.69
Mn 257.610	0.1039	0.1201	1.0516
Mo 202.032	1.9945	2.6320	2.9919
Na 330.237	4561.02	3965.93	4463.40
Ni 231.604	2.3552	1.1115	3.7165
Pb 220.353	5.4152	2.7993	11.4439
Sb 206.834	0.2757	-2.3576u	-4.2566u
Se 196.026	-1.7009u	-3.0535u	14.4217
Sn 189.925	-2.9719u	6.5216	-4.2428u
Sr 216.596	2.8918	2.1073	3.1143
Ti 334.941	-0.0266	-0.0639u	-0.0732u
Tl 190.794	-14.7563u	-3.1219u	-7.6953u
V 292.401	-0.4627u	-0.2594u	0.3546
Zn 206.200	4.5206	2.4847	4.4003

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5957	ppb	0.7037	118.1	-83.5189
Al 308.215	91.6723	ppb	23.3160	25.4	197.992
As 188.980	5.4209	ppb	2.3274	42.9	-7.5318
B 249.678	15.7775	ppb	1.2241	7.8	394.089
Ba 389.178	4.1625	ppb	1.6812	40.4	92.8363
Be 313.042	-0.0042	ppb	0.0120	287.1	-458.362
Ca 370.602	176.4	ppb	3.844	2.2	630.6
Cd 226.502	0.2678	ppb	0.2698	100.7	51.1742
Co 228.615	-0.9350	ppb	1.1977	128.1	-10.3595
Cr 267.716	0.3643	ppb	0.2031	55.7	26.6413
Cu 324.754	-0.2633	ppb	1.2651	480.4	282.566
Fe 271.441	-1.0217	ppb	14.7068	1439.5	29.1996
K 766.491	5784.92	ppb	522.828	9.0	242753
Mg 279.078	3824.79	ppb	346.598	9.1	10103.8
Mn 257.610	0.4252	ppb	0.5426	127.6	177.484
Mo 202.032	2.5395	ppb	0.5051	19.9	39.2237
Na 330.237	4330.12	ppb	319.148	7.4	315.947
Ni 231.604	2.3944	ppb	1.3029	54.4	8.5966
Pb 220.353	6.5528	ppb	4.4331	67.7	45.0573
Sb 206.834	-2.1128	ppb	2.2761	107.7	-5.7875
Se 196.026	3.2224	ppb	9.7224	301.7	13.1932
Sn 189.925	-0.2310	ppb	5.8824	2546.4	-16.8312
Sr 216.596	2.7045	ppb	0.5290	19.6	57.8567
Ti 334.941	-0.0546	ppb	0.0247	45.2	-42.1318
Tl 190.794	-8.5245	ppb	5.8613	68.8	-29.2728
V 292.401	-0.1225	ppb	0.4255	347.3	-14.5485
Zn 206.200	3.8019	ppb	1.1423	30.0	14.2616

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680-90063-g-3-k ms (Samp) 5/17/2013, 2:14:14 AM Rack 2, Tube 58**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	19.5120	19.1049	22.0928
Al 308.215	1564.80	1555.99	1586.34
As 188.980	58.4037	52.4545	66.6093
B 249.678	92.5045	93.2078	97.5952
Ba 389.178	50.1380	49.7787	51.0241
Be 313.042	20.1107	20.0893	20.4829
Ca 370.602	2316	2283	2334
Cd 226.502	31.9310	31.3927	32.9606
Co 228.615	25.4510	24.9463	26.3226
Cr 267.716	50.8169	49.7639	55.4589
Cu 324.754	30.0255	31.8701	35.6564
Fe 271.441	2315.79	2289.09	2300.67
K 766.491	8159.50	7934.54	8153.11
Mg 279.078	6255.56	6167.22	6285.02
Mn 257.610	418.493	415.340	424.306
Mo 202.032	44.4427	44.0435	45.1028
Na 330.237	6873.85	6846.05	7684.50
Ni 231.604	54.8012	52.9251	56.8621
Pb 220.353	38.2009	37.3320	38.1719
Sb 206.834	22.8736	22.2693	18.0051
Se 196.026	76.7837	57.9233	61.9652
Sn 189.925	116.161	119.047	117.197
Sr 216.596	57.2469	56.0947	56.4151
Ti 334.941	36.3208	36.1970	37.1989
Tl 190.794	16.9856	21.5219	24.0224
V 292.401	50.5426	46.4537	50.5750
Zn 206.200	85.0474	81.6408	85.4033

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.2366	ppb	1.6204	8.0	1765.46
Al 308.215	1569.04	ppb	15.6150	1.0	3667.69
As 188.980	59.1558	ppb	7.1073	12.0	30.7047
B 249.678	94.4358	ppb	2.7586	2.9	1627.94
Ba 389.178	50.3136	ppb	0.6410	1.3	1319.24
Be 313.042	20.2276	ppb	0.2213	1.1	43641.0
Ca 370.602	2311	ppb	25.89	1.1	7915
Cd 226.502	32.0947	ppb	0.7967	2.5	1608.59
Co 228.615	25.5733	ppb	0.6963	2.7	401.784
Cr 267.716	52.0132	ppb	3.0301	5.8	3085.00
Cu 324.754	32.5173	ppb	2.8707	8.8	1990.16
Fe 271.441	2301.85	ppb	13.3902	0.6	4800.10
K 766.491	8082.38	ppb	128.075	1.6	339050
Mg 279.078	6235.93	ppb	61.3037	1.0	16445.9
Mn 257.610	419.380	ppb	4.5480	1.1	30081.2
Mo 202.032	44.5297	ppb	0.5350	1.2	401.544
Na 330.237	7134.80	ppb	476.255	6.7	470.837
Ni 231.604	54.8628	ppb	1.9692	3.6	196.454
Pb 220.353	37.9016	ppb	0.4935	1.3	116.406
Sb 206.834	21.0493	ppb	2.6537	12.6	22.3755
Se 196.026	65.5574	ppb	9.9301	15.1	53.3046
Sn 189.925	117.469	ppb	1.4622	1.2	116.917
Sr 216.596	56.5856	ppb	0.5947	1.1	841.217
Ti 334.941	36.5722	ppb	0.5462	1.5	12268.2
Tl 190.794	20.8433	ppb	3.5671	17.1	2.5247
V 292.401	49.1904	ppb	2.3701	4.8	1556.27
Zn 206.200	84.0305	ppb	2.0772	2.5	170.705

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680-90063-g-3-1 msd (Samp) **5/17/2013, 2:19:40 AM** **Rack 2, Tube 59**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.1692	24.4053	21.3052
Al 308.215	1767.32	1745.82	1702.71
As 188.980	65.7515	59.6686	67.5299
B 249.678	101.687	96.4915	96.6936
Ba 389.178	48.8283	50.3638	51.3534
Be 313.042	21.7740	21.1001	20.7463
Ca 370.602	2416	2430	2373
Cd 226.502	33.9232	32.7266	32.5932
Co 228.615	25.2068	31.8883	32.4784
Cr 267.716	52.3231	50.9369	50.9484
Cu 324.754	38.2376	33.0165	32.5543
Fe 271.441	2439.68	2359.73	2273.13
K 766.491	9698.34	9687.53	8443.86
Mg 279.078	6776.28	6685.79	6527.48
Mn 257.610	407.015	395.341	380.308
Mo 202.032	49.2762	46.8923	46.3679
Na 330.237	7603.58	7622.50	6914.89
Ni 231.604	56.9008	51.8388	53.9193
Pb 220.353	39.1578	38.1364	37.1770
Sb 206.834	38.0229	30.6111	14.7551
Se 196.026	85.7111	61.5353	52.7499
Sn 189.925	125.573	123.543	120.403
Sr 216.596	57.9137	57.2067	55.8607
Ti 334.941	38.2330	37.7154	36.9183
Tl 190.794	10.9226	15.6136	25.9052
V 292.401	51.0581	51.9181	51.0932
Zn 206.200	91.3235	88.3597	81.1919

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.2932	ppb	1.8304	8.2	1948.25
Al 308.215	1738.62	ppb	32.8994	1.9	4065.79
As 188.980	64.3167	ppb	4.1224	6.4	34.3751
B 249.678	98.2907	ppb	2.9431	3.0	1688.56
Ba 389.178	50.1818	ppb	1.2723	2.5	1317.13
Be 313.042	21.2068	ppb	0.5221	2.5	45775.3
Ca 370.602	2406	ppb	29.90	1.2	8248
Cd 226.502	33.0810	ppb	0.7324	2.2	1656.67
Co 228.615	29.8578	ppb	4.0387	13.5	468.470
Cr 267.716	51.4028	ppb	0.7970	1.6	3048.88
Cu 324.754	34.6028	ppb	3.1563	9.1	2098.75
Fe 271.441	2357.51	ppb	83.2992	3.5	4916.11
K 766.491	9276.58	ppb	721.174	7.8	389104
Mg 279.078	6663.18	ppb	125.931	1.9	17570.4
Mn 257.610	394.221	ppb	13.3885	3.4	28287.1
Mo 202.032	47.5121	ppb	1.5500	3.3	427.291
Na 330.237	7380.32	ppb	403.189	5.5	484.514
Ni 231.604	54.2196	ppb	2.5443	4.7	194.153
Pb 220.353	38.1571	ppb	0.9906	2.6	116.984
Sb 206.834	27.7964	ppb	11.8865	42.8	30.5072
Se 196.026	66.6654	ppb	17.0689	25.6	54.0182
Sn 189.925	123.173	ppb	2.6049	2.1	123.399
Sr 216.596	56.9937	ppb	1.0429	1.8	847.098
Ti 334.941	37.6222	ppb	0.6623	1.8	12623.1
Tl 190.794	17.4805	ppb	7.6638	43.8	-1.1812
V 292.401	51.3565	ppb	0.4867	0.9	1625.40
Zn 206.200	86.9584	ppb	5.2991	6.0	176.415

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680-90063-p-4-d (Samp) **5/17/2013, 2:25:06 AM** **Rack 2, Tube 60**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8511u	-1.9126u	-1.1838u
Al 308.215	69.8651	117.367	112.346
As 188.980	11.5228	16.7572	4.2878
B 249.678	18.8508	15.8382	16.9407
Ba 389.178	21.1320	20.1670	23.0600
Be 313.042	0.0020	-0.0128u	-0.0146u
Ca 370.602	5541	5655	5676
Cd 226.502	0.3185	0.9139	1.1330
Co 228.615	0.2897	-1.7387u	-2.6171u
Cr 267.716	0.7908	0.5985	0.3927
Cu 324.754	-0.4213u	-1.3687u	-1.0809u
Fe 271.441	-5.1588u	6.7517	-2.4279u
K 766.491	1146.24	1204.69	1234.16
Mg 279.078	4826.85	4988.14	5098.98
Mn 257.610	0.5764	1.1332	1.1301
Mo 202.032	3.2539	2.8833	3.1093
Na 330.237	7615.32	7334.69	7637.90
Ni 231.604	3.5423	1.7124	1.1802
Pb 220.353	8.5933	5.0905	10.1794
Sb 206.834	2.1322	0.1532	11.5090
Se 196.026	6.9928	17.1500	-20.9475u
Sn 189.925	-1.5819u	-0.1818u	-0.8212u
Sr 216.596	12.4557	13.1963	13.1681
Ti 334.941	-0.1251u	-0.0785	-0.1398u
Tl 190.794	-4.9207u	-16.9554u	-10.8332u
V 292.401	0.5080	0.1896	0.3938
Zn 206.200	61.7898	63.9272	65.9959

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3159	ppb	0.5429	41.3	-148.216
Al 308.215	99.8595	ppb	26.0970	26.1	217.227
As 188.980	10.8559	ppb	6.2614	57.7	-3.6078
B 249.678	17.2099	ppb	1.5242	8.9	416.631
Ba 389.178	21.4530	ppb	1.4730	6.9	551.399
Be 313.042	-0.0085	ppb	0.0091	108.0	-465.569
Ca 370.602	5624	ppb	72.60	1.3	19754
Cd 226.502	0.7885	ppb	0.4215	53.5	76.4451
Co 228.615	-1.3554	ppb	1.4908	110.0	-16.9341
Cr 267.716	0.5940	ppb	0.1991	33.5	40.2845
Cu 324.754	-0.9570	ppb	0.4857	50.8	246.470
Fe 271.441	-0.2783	ppb	6.2394	2242.0	30.6742
K 766.491	1195.03	ppb	44.7491	3.7	50368.5
Mg 279.078	4971.32	ppb	136.841	2.8	13121.8
Mn 257.610	0.9466	ppb	0.3206	33.9	217.737
Mo 202.032	3.0821	ppb	0.1868	6.1	43.9087
Na 330.237	7529.30	ppb	168.916	2.2	494.176
Ni 231.604	2.1450	ppb	1.2390	57.8	7.7037
Pb 220.353	7.9544	ppb	2.6039	32.7	48.2471
Sb 206.834	4.5981	ppb	6.0663	131.9	2.3341
Se 196.026	1.0651	ppb	19.7284	1852.2	11.8081
Sn 189.925	-0.8616	ppb	0.7009	81.3	-17.5429
Sr 216.596	12.9400	ppb	0.4197	3.2	207.853
Ti 334.941	-0.1145	ppb	0.0320	28.0	-55.9918
Tl 190.794	-10.9031	ppb	6.0177	55.2	-31.8874
V 292.401	0.3638	ppb	0.1613	44.3	0.9549
Zn 206.200	63.9043	ppb	2.1931	3.4	131.354

680-90063-n-1-d (Samp) 5/17/2013, 2:41:25 AM Rack 3, Tube 3
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1619u	0.1783u	-0.7300u
Al 308.215	99.9527	86.8574	93.6138
As 188.980	10.7038	0.2636	7.3782
B 249.678	370.368	365.472	406.615
Ba 389.178	103.901	101.669	103.677
Be 313.042	-0.0133	-0.0214u	-0.0265u
Ca 370.602	129192	172729	171795
Cd 226.502	0.2807	0.3447	0.6535
Co 228.615	-1.2696u	-0.2786u	-1.3282u
Cr 267.716	0.0770	0.4060	0.4804
Cu 324.754	5.6575	4.6264	6.0397
Fe 271.441	17.8248	8.1174	7.0586
K 766.491	4093.03	4085.16	4054.55
Mg 279.078	32027.8	31069.2	31496.5
Mn 257.610	0.5447	0.7779	0.3948
Mo 202.032	2.8707	2.2488	2.4728
Na 330.237	184343x	210711x	186291x
Ni 231.604	4.9217	5.3644	4.0082
Pb 220.353	14.6085	13.6520	7.1014
Sb 206.834	5.4671	10.6092	5.3776
Se 196.026	22.1708	5.6133	2.8719
Sn 189.925	-0.4724u	0.0442	0.9185
Sr 216.596	1228.91	1225.34	1234.08
Ti 334.941	-0.1436	-0.0190	0.0041
Tl 190.794	-2.1459u	-2.8678u	-7.9833u
V 292.401	4.7441	4.9384	6.0909
Zn 206.200	22.0370	21.3940	18.7817

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2378b	ppb	0.4589	192.9	-130.860
Al 308.215	93.4746b	ppb	6.5488	7.0	202.200
As 188.980	6.1152b	ppb	5.3334	87.2	-5.3427
B 249.678	380.819b	ppb	22.4740	5.9	6138.27
Ba 389.178	103.082b	ppb	1.2289	1.2	2782.10
Be 313.042	-0.0204b	ppb	0.0067	32.7	-449.005
Ca 370.602	157905b	ppb	24871	15.8	554339
Cd 226.502	0.4263b	ppb	0.1994	46.8	58.1124
Co 228.615	-0.9588b	ppb	0.5898	61.5	-10.7327
Cr 267.716	0.3211b	ppb	0.2147	66.8	27.9306
Cu 324.754	5.4412b	ppb	0.7311	13.4	579.386
Fe 271.441	11.0002b	ppb	5.9339	53.9	54.1207
K 766.491	4077.58b	ppb	20.3270	0.5	171190
Mg 279.078	31531.2b	ppb	480.230	1.5	83035.2
Mn 257.610	0.5725b	ppb	0.1931	33.7	261.464
Mo 202.032	2.5308b	ppb	0.3150	12.4	39.1351
Na 330.237	193782xb	ppb	14693.5	7.6	10899.1
Ni 231.604	4.7648b	ppb	0.6916	14.5	17.0806
Pb 220.353	11.7873b	ppb	4.0862	34.7	56.9715
Sb 206.834	7.1513b	ppb	2.9950	41.9	5.4261
Se 196.026	10.2187b	ppb	10.4412	102.2	17.6851
Sn 189.925	0.1634b	ppb	0.7031	430.2	-16.1966
Sr 216.596	1229.44b	ppb	4.3941	0.4	17962.6
Ti 334.941	-0.0528b	ppb	0.0794	150.3	98.9488
Tl 190.794	-4.3323b	ppb	3.1824	73.5	-24.6633
V 292.401	5.2578b	ppb	0.7280	13.8	157.104
Zn 206.200	20.7375b	ppb	1.7241	8.3	47.2581

680-90034-f-1-e (Samp) 5/17/2013, 2:46:51 AM Rack 3, Tube 4
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.9446u	1.5317u	1.8924u
Al 308.215	50.4211	67.6452	100.709
As 188.980	5.7961	-2.6271u	-0.6924u
B 249.678	63.9100	73.5998	74.5840
Ba 389.178	126.352	124.688	123.567
Be 313.042	0.0269	0.0151	0.0077
Ca 370.602	42943	38046	37768
Cd 226.502	0.5045	0.5316	0.4249
Co 228.615	0.2034	0.3747	-0.2998u
Cr 267.716	0.0596	0.2732	0.4269
Cu 324.754	0.7804	-0.2744u	-0.6036u
Fe 271.441	49.7460	76.8819	67.9055
K 766.491	8609.44	8706.50	9096.21
Mg 279.078	28900.5	28847.7	29265.8
Mn 257.610	3.8999	3.9568	3.8239
Mo 202.032	26.9070	27.5691	27.5560
Na 330.237	121040x	121988x	111162x
Ni 231.604	4.3633	2.6093	1.4551
Pb 220.353	8.0190	15.7149	7.3679
Sb 206.834	3.5076	-6.6802u	1.7081
Se 196.026	12.5650	12.8787	4.0493
Sn 189.925	2.2183	-0.9891u	-3.6579u
Sr 216.596	9630.26x	9573.23x	9721.26x
Ti 334.941	-0.2141	-0.1682	-0.3809
Tl 190.794	-11.0059u	-12.6469u	-7.1684u
V 292.401	-0.0494u	-0.2392u	0.2914
Zn 206.200	8.4488	9.1416	7.7976

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.7896b	ppb	0.2249	12.6	-494.335
Al 308.215	72.9250b	ppb	25.5561	35.0	155.598
As 188.980	0.8255b	ppb	4.4120	534.4	-10.3765
B 249.678	70.6980b	ppb	5.8991	8.3	1258.21
Ba 389.178	124.869b	ppb	1.4014	1.1	3347.91
Be 313.042	0.0166b	ppb	0.0097	58.3	-416.185
Ca 370.602	39586b	ppb	2911	7.4	138972
Cd 226.502	0.4870b	ppb	0.0555	11.4	61.7560
Co 228.615	0.0928b	ppb	0.3506	377.9	4.3224
Cr 267.716	0.2532b	ppb	0.1845	72.8	22.4288
Cu 324.754	-0.0326b	ppb	0.7230	2221.1	295.445
Fe 271.441	64.8445b	ppb	13.8245	21.3	165.720
K 766.491	8804.05b	ppb	257.632	2.9	369299
Mg 279.078	29004.7b	ppb	227.692	0.8	76384.7
Mn 257.610	3.8935b	ppb	0.0667	1.7	491.531
Mo 202.032	27.3440b	ppb	0.3786	1.4	253.404
Na 330.237	118063xb	ppb	5995.60	5.1	6669.32
Ni 231.604	2.8092b	ppb	1.4644	52.1	10.0832
Pb 220.353	10.3672b	ppb	4.6426	44.8	53.6858
Sb 206.834	-0.4882b	ppb	5.4374	1113.8	-4.3079
Se 196.026	9.8310b	ppb	5.0095	51.0	17.4372
Sn 189.925	-0.8096b	ppb	2.9422	363.4	-17.4115
Sr 216.596	9641.58xb	ppb	74.6614	0.8	140558
Ti 334.941	-0.2544b	ppb	0.1119	44.0	23.9022
Tl 190.794	-10.2737b	ppb	2.8116	27.4	-31.2168
V 292.401	0.0010b	ppb	0.2689	27570.1	-17.9892
Zn 206.200	8.4627b	ppb	0.6721	7.9	23.3509

680-90034-f-3-e (Samp) 5/17/2013, 2:52:17 AM Rack 3, Tube 5
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.7794u	3.8447u	3.9535u
Al 308.215	123.574	121.341	110.289
As 188.980	12.0846	6.7121	7.8010
B 249.678	67.2963	65.9820	67.3573
Ba 389.178	119.118	119.665	118.544
Be 313.042	-0.0225u	-0.0353u	-0.0274u
Ca 370.602	50063	49827	49559
Cd 226.502	0.0365	0.1829	0.6611
Co 228.615	-2.4381u	-0.3464u	-2.0774u
Cr 267.716	0.0104	-0.0398	0.0687
Cu 324.754	-1.2702u	-0.2810u	-0.2888u
Fe 271.441	135.163	140.267	127.903
K 766.491	10807.1	10638.2	10686.0
Mg 279.078	35879.5	35769.0	35453.8
Mn 257.610	34.3134	33.7525	33.4061
Mo 202.032	63.7420	64.0213	65.2857
Na 330.237	157933x	151232x	148246x
Ni 231.604	2.9628	1.8721	2.0686
Pb 220.353	8.3162	6.5112	2.4025
Sb 206.834	-1.4926u	6.6113	1.6795
Se 196.026	5.4885	24.0035	6.3027
Sn 189.925	-4.5156u	-0.3962u	-1.9098u
Sr 216.596	13947.0x	14022.6x	14287.5x
Ti 334.941	-0.3010	-0.4360	-0.4614
Tl 190.794	-17.0010u	-10.3366u	-11.2654u
V 292.401	0.3594u	0.3582u	-0.2421u
Zn 206.200	3.3648	2.1450	4.6077

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.8592b	ppb	0.0880	2.3	-579.145
Al 308.215	118.401b	ppb	7.1138	6.0	264.621
As 188.980	8.8659b	ppb	2.8401	32.0	-4.5724
B 249.678	66.8785b	ppb	0.7770	1.2	1198.00
Ba 389.178	119.109b	ppb	0.5606	0.5	3217.38
Be 313.042	-0.0284b	ppb	0.0065	22.7	-522.611
Ca 370.602	49816b	ppb	252.3	0.5	174879
Cd 226.502	0.2935b	ppb	0.3267	111.3	52.5298
Co 228.615	-1.6206b	ppb	1.1181	69.0	-24.2950
Cr 267.716	0.0131b	ppb	0.0543	414.0	9.0682
Cu 324.754	-0.6133b	ppb	0.5689	92.7	266.458
Fe 271.441	134.444b	ppb	6.2132	4.6	309.475
K 766.491	10710.4b	ppb	87.0229	0.8	449205
Mg 279.078	35700.8b	ppb	220.897	0.6	94010.4
Mn 257.610	33.8240b	ppb	0.4578	1.4	2644.84
Mo 202.032	64.3497b	ppb	0.8225	1.3	572.940
Na 330.237	152470xb	ppb	4960.78	3.3	8591.42
Ni 231.604	2.3012b	ppb	0.5813	25.3	8.2669
Pb 220.353	5.7433b	ppb	3.0307	52.8	43.0899
Sb 206.834	2.2661b	ppb	4.0837	180.2	-1.6730
Se 196.026	11.9315b	ppb	10.4625	87.7	18.7920
Sn 189.925	-2.2739b	ppb	2.0837	91.6	-19.0535
Sr 216.596	14085.7xb	ppb	178.816	1.3	205334
Ti 334.941	-0.3995b	ppb	0.0862	21.6	9.7721
Tl 190.794	-12.8677b	ppb	3.6096	28.1	-34.1223
V 292.401	0.1585b	ppb	0.3469	218.9	-22.8350
Zn 206.200	3.3725b	ppb	1.2313	36.5	13.4450

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680-90133-c-2-d (Samp) 5/17/2013, 2:57:44 AM Rack 3, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	4.9863u	5.8250u	5.9958u
Al 308.215	60.7729	75.4479	88.2510
As 188.980	7.8991	-0.0444	7.1992
B 249.678	73.5881	72.8836	72.6659
Ba 389.178	34.3501	35.0876	33.1425
Be 313.042	-0.0124u	0.0035	0.0045
Ca 370.602	48829	48636	48409
Cd 226.502	0.3489	0.4772	0.5708
Co 228.615	1.3416	-0.3262u	-0.5143u
Cr 267.716	0.0005	0.1829	0.1448
Cu 324.754	-2.3992u	0.0741	-1.3823u
Fe 271.441	7.9834	5.2236	-0.4021u
K 766.491	8195.51	7903.96	7891.00
Mg 279.078	45050.9	43913.9	43287.3
Mn 257.610	-0.9402	-0.7790	-0.6646
Mo 202.032	6.8654	6.3624	5.5814
Na 330.237	122874x	115687x	116914x
Ni 231.604	3.9289	2.8901	3.1854
Pb 220.353	11.0777	5.5081	4.3523
Sb 206.834	6.1627	-2.6279u	-3.2228u
Se 196.026	0.5171	11.5905	0.9671
Sn 189.925	-0.2089u	1.7220	5.7686
Sr 216.596	19708.1x	19606.9x	19404.1x
Ti 334.941	-0.5169	-0.4973	-0.5460
Tl 190.794	-10.8493u	-8.2690u	-10.0802u
V 292.401	0.0284u	-0.0438u	-0.4071u
Zn 206.200	5.8217	6.3698	5.3785

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.6024b	ppb	0.5403	9.6	-800.907
Al 308.215	74.8239b	ppb	13.7497	18.4	158.691
As 188.980	5.0180b	ppb	4.3981	87.6	-7.2864
B 249.678	73.0459b	ppb	0.4820	0.7	1295.25
Ba 389.178	34.1934b	ppb	0.9820	2.9	1008.77
Be 313.042	-0.0015b	ppb	0.0095	645.9	-447.511
Ca 370.602	48625b	ppb	210.1	0.4	170709
Cd 226.502	0.4656b	ppb	0.1114	23.9	60.7283
Co 228.615	0.1670b	ppb	1.0216	611.5	6.6186
Cr 267.716	0.1094b	ppb	0.0962	88.0	13.8947
Cu 324.754	-1.2358b	ppb	1.2431	100.6	232.088
Fe 271.441	4.2683b	ppb	4.2736	100.1	40.3531
K 766.491	7996.82b	ppb	172.188	2.2	335464
Mg 279.078	44084.0b	ppb	894.032	2.0	116078
Mn 257.610	-0.7946b	ppb	0.1385	17.4	196.968
Mo 202.032	6.2697b	ppb	0.6470	10.3	71.4337
Na 330.237	118492xb	ppb	3844.63	3.2	6693.32
Ni 231.604	3.3348b	ppb	0.5353	16.1	11.9625
Pb 220.353	6.9794b	ppb	3.5960	51.5	46.0194
Sb 206.834	0.1040b	ppb	5.2554	5053.4	-3.1781
Se 196.026	4.3582b	ppb	6.2674	143.8	13.9224
Sn 189.925	2.4273b	ppb	3.0505	125.7	-13.7272
Sr 216.596	19573.0xb	ppb	154.793	0.8	285320
Ti 334.941	-0.5201b	ppb	0.0245	4.7	20.6240
Tl 190.794	-9.7328b	ppb	1.3248	13.6	-30.6031
V 292.401	-0.1408b	ppb	0.2334	165.7	-16.5342
Zn 206.200	5.8567b	ppb	0.4966	8.5	182.663

680-90133-d-3-d (Samp) 5/17/2013, 3:03:21 AM Rack 3, Tube 7
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.6140u	2.4602u	2.2033u
Al 308.215	80.0632	80.3303	81.7093
As 188.980	16.0292	8.6190	13.0174
B 249.678	59.9290	60.4373	58.8965
Ba 389.178	121.748	121.372	118.010
Be 313.042	-0.0061u	-0.0158u	0.0013u
Ca 370.602	36565	42762	43097
Cd 226.502	0.4600	0.5456	0.2425
Co 228.615	0.7925	-1.2463u	0.1099
Cr 267.716	0.0137	0.0523	-0.0348
Cu 324.754	-0.5147u	-0.2085u	0.0845
Fe 271.441	65.6825	75.8361	64.8745
K 766.491	9577.48	9739.38	9383.27
Mg 279.078	29695.5	29859.3	29008.2
Mn 257.610	3.5439	3.8375	3.5006
Mo 202.032	28.8526	29.9765	27.9910
Na 330.237	119303x	125130x	128030x
Ni 231.604	1.4930	3.7085	1.7048
Pb 220.353	8.3447	8.3784	8.0935
Sb 206.834	3.6236	-0.5459u	4.3834
Se 196.026	4.0545	11.3464	-8.2978u
Sn 189.925	-1.1974u	-0.7070u	2.0627
Sr 216.596	9671.85x	10206.5x	10074.7x
Ti 334.941	-0.3329	-0.2442	-0.3694
Tl 190.794	-9.3371u	-11.4918u	-8.0010u
V 292.401	-0.1179u	-0.3266u	-0.0891u
Zn 206.200	4.4427	3.2251	4.7748

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.4258b	ppb	0.2075	8.6	-456.260
Al 308.215	80.7009b	ppb	0.8834	1.1	173.930
As 188.980	12.5552b	ppb	3.7267	29.7	-2.0239
B 249.678	59.7543b	ppb	0.7851	1.3	1086.00
Ba 389.178	120.377b	ppb	2.0581	1.7	3231.27
Be 313.042	-0.0069b	ppb	0.0086	124.6	-468.053
Ca 370.602	40808b	ppb	3678	9.0	143263
Cd 226.502	0.4160b	ppb	0.1562	37.6	58.2820
Co 228.615	-0.1146b	ppb	1.0378	905.4	1.0206
Cr 267.716	0.0104b	ppb	0.0437	419.2	8.1937
Cu 324.754	-0.2129b	ppb	0.2997	140.8	286.106
Fe 271.441	68.7977b	ppb	6.1088	8.9	173.862
K 766.491	9566.71b	ppb	178.303	1.9	401265
Mg 279.078	29521.0b	ppb	451.607	1.5	77743.8
Mn 257.610	3.6273b	ppb	0.1833	5.1	473.847
Mo 202.032	28.9400b	ppb	0.9956	3.4	267.186
Na 330.237	124155xb	ppb	4444.44	3.6	7009.65
Ni 231.604	2.3021b	ppb	1.2226	53.1	8.2683
Pb 220.353	8.2722b	ppb	0.1557	1.9	48.9144
Sb 206.834	2.4870b	ppb	2.6539	106.7	-0.7325
Se 196.026	2.3677b	ppb	9.9301	419.4	12.6456
Sn 189.925	0.0527b	ppb	1.7578	3332.8	-16.4281
Sr 216.596	9984.36xb	ppb	278.542	2.8	145554
Ti 334.941	-0.3155b	ppb	0.0644	20.4	5.6351
Tl 190.794	-9.6099b	ppb	1.7613	18.3	-30.4878
V 292.401	-0.1779b	ppb	0.1296	72.8	-24.1122
Zn 206.200	4.1475b	ppb	0.8159	19.7	14.9453

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680-90189-c-1-d (Samp) **5/17/2013, 3:08:48 AM** **Rack 3, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	4.7638u	6.0331u	4.6619u
Al 308.215	95.5235	85.9783	79.9623
As 188.980	5.7862	-0.0320	11.5431
B 249.678	92.0394	92.5461	91.2879
Ba 389.178	30.0164	32.9607	30.3484
Be 313.042	0.0176	0.0120	-0.0147u
Ca 370.602	47394	47427	47541
Cd 226.502	0.3983	0.4897	0.5959
Co 228.615	-0.6575u	-1.2777u	0.0527
Cr 267.716	-0.2562u	0.0222	0.0787
Cu 324.754	-0.0676u	0.5403	0.0323
Fe 271.441	-6.7200u	6.3921	-0.9773u
K 766.491	12543.3	12639.4	12458.8
Mg 279.078	47624.6	48086.6	47378.9
Mn 257.610	-0.6663	-0.5475	-0.3741
Mo 202.032	6.8703	7.9894	6.4148
Na 330.237	191920x	189108x	208681x
Ni 231.604	4.1270	1.1265	3.1990
Pb 220.353	7.6635	5.9631	8.3879
Sb 206.834	4.8347	-2.7296u	-0.4031u
Se 196.026	3.3594	4.2076	9.5972
Sn 189.925	4.6899	-6.8413u	1.1880
Sr 216.596	17061.0x	16989.7x	16922.3x
Ti 334.941	-0.6067	-0.5611	-0.4640
Tl 190.794	-7.3045u	-8.9583u	-5.2477u
V 292.401	0.0304u	-0.6400u	-0.1082u
Zn 206.200	4.6859	3.7725	1.6689

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.1529b	ppb	0.7639	14.8	-698.018
Al 308.215	87.1547b	ppb	7.8470	9.0	187.701
As 188.980	5.7658b	ppb	5.7876	100.4	-6.7608
B 249.678	91.9578b	ppb	0.6330	0.7	1592.86
Ba 389.178	31.1085b	ppb	1.6126	5.2	940.141
Be 313.042	0.0050b	ppb	0.0173	346.8	-444.131
Ca 370.602	47454b	ppb	77.34	0.2	166599
Cd 226.502	0.4946b	ppb	0.0989	20.0	61.6598
Co 228.615	-0.6275b	ppb	0.6657	106.1	-5.8145
Cr 267.716	-0.0518b	ppb	0.1793	346.4	5.9611
Cu 324.754	0.1683b	ppb	0.3260	193.7	305.195
Fe 271.441	-0.4351b	ppb	6.5728	1510.8	30.4799
K 766.491	12547.2b	ppb	90.3764	0.7	526190
Mg 279.078	47696.7b	ppb	359.311	0.8	125588
Mn 257.610	-0.5293b	ppb	0.1469	27.8	226.405
Mo 202.032	7.0915b	ppb	0.8102	11.4	78.5299
Na 330.237	196570xb	ppb	10582.7	5.4	11055.0
Ni 231.604	2.8175b	ppb	1.5362	54.5	10.1109
Pb 220.353	7.3382b	ppb	1.2447	17.0	46.8340
Sb 206.834	0.5673b	ppb	3.8744	682.9	-2.6399
Se 196.026	5.7214b	ppb	3.3832	59.1	14.7976
Sn 189.925	-0.3211b	ppb	5.9119	1841.0	-16.8152
Sr 216.596	16991.0xb	ppb	69.3935	0.4	247684
Ti 334.941	-0.5439b	ppb	0.0729	13.4	28.6626
Tl 190.794	-7.1702b	ppb	1.8589	25.9	-27.7868
V 292.401	-0.2392b	ppb	0.3539	147.9	-20.6008
Zn 206.200	3.3758b	ppb	1.5472	45.8	134329

680-90189-e-2-d (Samp) **5/17/2013, 3:14:14 AM** **Rack 3, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.9673u	2.6230u	2.6362u
Al 308.215	85.2645	87.1883	88.9323
As 188.980	11.1103	6.1528	-1.0086u
B 249.678	67.8615	66.3733	70.4248
Ba 389.178	47.3329	50.6943	51.8687
Be 313.042	0.0285	0.0341	0.0206
Ca 370.602	26613	27992	30459
Cd 226.502	0.5037	0.4709	0.2033
Co 228.615	0.2538	1.0670	-1.6385u
Cr 267.716	0.4080	0.0712	0.3957
Cu 324.754	-0.1267u	-0.8605u	-0.2005u
Fe 271.441	104.110	113.212	120.262
K 766.491	9670.80	9802.06	10173.2
Mg 279.078	29111.7	29602.0	30393.8
Mn 257.610	44.6339	45.2718	46.6038
Mo 202.032	20.1215	20.0738	21.9406
Na 330.237	121641x	127138x	138103x
Ni 231.604	4.2014	1.1776	3.1474
Pb 220.353	8.1269	5.0973	15.0257
Sb 206.834	-0.5072u	7.1159	6.9239
Se 196.026	6.1864	-6.1767u	-9.4526u
Sn 189.925	-1.7706u	2.3835	-0.0529
Sr 216.596	9977.68x	10305.1x	11319.1x
Ti 334.941	-0.3259	-0.3299	-0.3454
Tl 190.794	-6.8058u	-9.4300u	-6.9702u
V 292.401	0.5511	-0.3567u	-0.4488u
Zn 206.200	7.9985	4.4307	4.8477

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.7422b	ppb	0.1951	7.1	-503.084
Al 308.215	87.1284b	ppb	1.8347	2.1	188.553
As 188.980	5.4182b	ppb	6.0928	112.5	-7.2198
B 249.678	68.2199b	ppb	2.0494	3.0	1219.13
Ba 389.178	49.9653b	ppb	2.3541	4.7	1380.92
Be 313.042	0.0277b	ppb	0.0068	24.4	-396.627
Ca 370.602	28355b	ppb	1948	6.9	99541
Cd 226.502	0.3926b	ppb	0.1648	42.0	57.3472
Co 228.615	-0.1059b	ppb	1.3882	1310.8	1.5387
Cr 267.716	0.2916b	ppb	0.1910	65.5	25.0352
Cu 324.754	-0.3959b	ppb	0.4040	102.1	276.353
Fe 271.441	112.528b	ppb	8.0980	7.2	264.348
K 766.491	9882.03b	ppb	260.587	2.6	414482
Mg 279.078	29702.5b	ppb	646.935	2.2	78221.3
Mn 257.610	45.5032b	ppb	1.0051	2.2	3464.04
Mo 202.032	20.7120b	ppb	1.0643	5.1	196.134
Na 330.237	128961xb	ppb	8380.92	6.5	7278.10
Ni 231.604	2.8421b	ppb	1.5348	54.0	10.2024
Pb 220.353	9.4166b	ppb	5.0883	54.0	51.5405
Sb 206.834	4.5108b	ppb	4.3468	96.4	1.8656
Se 196.026	-3.1476b	ppb	8.2478	262.0	9.1115
Sn 189.925	0.1867b	ppb	2.0874	1118.2	-16.2814
Sr 216.596	10534.0xb	ppb	699.393	6.6	153563
Ti 334.941	-0.3337b	ppb	0.0103	3.1	3.6629
Tl 190.794	-7.7354b	ppb	1.4699	19.0	-28.4578
V 292.401	-0.0848b	ppb	0.5527	651.7	-19.2119
Zn 206.200	5.7589b	ppb	1.9507	33.9	48.0906

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680-90208-c-1-d (Samp) 5/17/2013, 3:19:40 AM Rack 3, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4116u	-0.5352u	-0.3941u
Al 308.215	107.887	73.9677	71.8600
As 188.980	5.4268	1.6372	7.6558
B 249.678	11.7215	8.6775	9.9472
Ba 389.178	6.5227	5.4309	5.0078
Be 313.042	0.0490	0.0723	0.0442
Ca 370.602	18167	13604	16184
Cd 226.502	0.4735	-0.0666u	0.4365
Co 228.615	0.3887	0.4539	-0.9932u
Cr 267.716	0.2660	0.6489	0.2009
Cu 324.754	1.2875	-1.9609u	-0.6122u
Fe 271.441	7.2478	7.9296	1.6642
K 766.491	3313.74	2830.85	3147.64
Mg 279.078	2485.35	2081.67	2661.48
Mn 257.610	156.805	128.592	149.116
Mo 202.032	3.0488	0.9919	2.4844
Na 330.237	26696.9	22096.5	29142.7
Ni 231.604	3.3933	5.7137	5.9313
Pb 220.353	14.3334	2.7564	0.6384
Sb 206.834	6.5651	2.8667	2.6703
Se 196.026	-13.2572u	-8.1923u	-14.1171u
Sn 189.925	5.0592	5.2866	2.3300
Sr 216.596	98.7692	81.4802	96.5178
Ti 334.941	0.0768	0.0045	0.0061
Tl 190.794	-12.6001u	-3.0873u	-10.2362u
V 292.401	-0.2039u	-0.0059u	-0.7967u
Zn 206.200	26.6023	22.4580	23.0632

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4470	ppb	0.0769	17.2	-76.1724
Al 308.215	84.5715	ppb	20.2191	23.9	181.322
As 188.980	4.9066	ppb	3.0428	62.0	-7.7157
B 249.678	10.1154	ppb	1.5290	15.1	304.982
Ba 389.178	5.6538	ppb	0.7817	13.8	127.869
Be 313.042	0.0552	ppb	0.0151	27.3	-323.872
Ca 370.602	15985	ppb	2288	14.3	56129
Cd 226.502	0.2811	ppb	0.3017	107.3	51.6578
Co 228.615	-0.0502	ppb	0.8173	1629.1	3.4304
Cr 267.716	0.3719	ppb	0.2421	65.1	27.8905
Cu 324.754	-0.4285	ppb	1.6320	380.8	273.966
Fe 271.441	5.6139	ppb	3.4374	61.2	43.0983
K 766.491	3097.41	ppb	245.337	7.9	130106
Mg 279.078	2409.50	ppb	297.254	12.3	6377.04
Mn 257.610	144.838	ppb	14.5850	10.1	10478.7
Mo 202.032	2.1750	ppb	1.0628	48.9	36.0767
Na 330.237	25978.7	ppb	3577.57	13.8	1525.13
Ni 231.604	5.0127	ppb	1.4067	28.1	17.9678
Pb 220.353	5.9094	ppb	7.3719	124.7	43.6118
Sb 206.834	4.0341	ppb	2.1941	54.4	1.6624
Se 196.026	-11.8555	ppb	3.2014	27.0	3.5343
Sn 189.925	4.2253	ppb	1.6453	38.9	-11.7469
Sr 216.596	92.2558	ppb	9.3995	10.2	1365.68
Ti 334.941	0.0291	ppb	0.0413	141.8	-23.5935
Tl 190.794	-8.6412	ppb	4.9529	57.3	-29.5078
V 292.401	-0.3355	ppb	0.4115	122.7	-21.5765
Zn 206.200	24.0412	ppb	2.2386	9.3	53.6928

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480-38002-b-10-d (Samp) **5/17/2013, 3:25:07 AM** **Rack 3, Tube 11****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.0254u	-0.4604u	-2.0052u
Al 308.215	108.581	116.618	105.778
As 188.980	2.2511	-0.2335	4.4014
B 249.678	25.7612	25.9011	24.9049
Ba 389.178	505.270	514.501	512.155
Be 313.042	0.0272	0.0089	0.0314
Ca 370.602	34420	34191	32975
Cd 226.502	0.2929	0.3241	-0.0348u
Co 228.615	-1.6843u	1.8744	-0.7989u
Cr 267.716	0.5910	0.1950	0.1985
Cu 324.754	40.4390	43.3037	31.6867
Fe 271.441	257.144	265.140	251.771
K 766.491	1280.10	1303.89	1284.92
Mg 279.078	12976.9	13203.7	13042.6
Mn 257.610	66.9206	67.6491	66.6843
Mo 202.032	4.3709	2.8006	3.9050
Na 330.237	7763.15	7339.39	7556.48
Ni 231.604	3.1057	0.2422	3.4422
Pb 220.353	11.5970	13.7407	15.1934
Sb 206.834	7.8527	0.3083	-4.9088u
Se 196.026	13.0397	5.2405	0.9844
Sn 189.925	0.5351	-2.8574u	-2.8388u
Sr 216.596	505.513	514.609	511.673
Ti 334.941	-0.0126	0.0031	-0.1171
Tl 190.794	-7.4155u	0.6221	-1.5948u
V 292.401	0.2201	-0.8254u	0.6581
Zn 206.200	30.7883	27.5488	30.7464

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1636	ppb	0.7816	67.2	-167.705
Al 308.215	110.326	ppb	5.6264	5.1	241.843
As 188.980	2.1397	ppb	2.3195	108.4	-9.4922
B 249.678	25.5224	ppb	0.5394	2.1	546.992
Ba 389.178	510.642	ppb	4.7980	0.9	13450.2
Be 313.042	0.0225	ppb	0.0120	53.2	-385.868
Ca 370.602	33862	ppb	776.8	2.3	118861
Cd 226.502	0.1941	ppb	0.1988	102.4	48.8558
Co 228.615	-0.2029	ppb	1.8527	912.9	0.9779
Cr 267.716	0.3282	ppb	0.2276	69.4	24.8277
Cu 324.754	38.4765	ppb	6.0520	15.7	2298.73
Fe 271.441	258.018	ppb	6.7275	2.6	565.383
K 766.491	1289.64	ppb	12.5729	1.0	54334.1
Mg 279.078	13074.4	ppb	116.686	0.9	34450.9
Mn 257.610	67.0847	ppb	0.5029	0.7	4959.19
Mo 202.032	3.6922	ppb	0.8065	21.8	49.1603
Na 330.237	7553.01	ppb	211.903	2.8	495.681
Ni 231.604	2.2633	ppb	1.7584	77.7	8.1353
Pb 220.353	13.5104	ppb	1.8092	13.4	60.9016
Sb 206.834	1.0841	ppb	6.4160	591.8	-1.9302
Se 196.026	6.4215	ppb	6.1138	95.2	15.2601
Sn 189.925	-1.7204	ppb	1.9533	113.5	-18.5002
Sr 216.596	510.598	ppb	4.6425	0.9	7466.20
Ti 334.941	-0.0422	ppb	0.0654	154.8	14.9587
Tl 190.794	-2.7961	ppb	4.1513	148.5	-23.0464
V 292.401	0.0176	ppb	0.7622	4328.2	-10.2391
Zn 206.200	29.6945	ppb	1.8583	6.3	64.7436

480-38002-b-11-d (Samp) 5/17/2013, 3:30:33 AM Rack 3, Tube 12
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0244u	-1.1285u	0.3966u
Al 308.215	69.1920	98.4960	84.9997
As 188.980	6.5835	7.3768	4.5009
B 249.678	133.787	133.554	135.185
Ba 389.178	710.322	709.044	707.397
Be 313.042	0.0041	-0.0098u	-0.0069u
Ca 370.602	31941	30955	31090
Cd 226.502	0.2536	0.7264	0.5407
Co 228.615	-0.5775u	0.1261	0.1198
Cr 267.716	0.1567	-0.2961u	0.0910
Cu 324.754	-0.0316u	-2.0113u	-0.3999u
Fe 271.441	176.333	178.030	176.501
K 766.491	3628.52	3674.14	3651.90
Mg 279.078	10937.1	10917.4	10912.0
Mn 257.610	153.823	155.192	155.589
Mo 202.032	8.0705	8.6170	8.9943
Na 330.237	32335.3	32754.1	33238.6
Ni 231.604	3.5448	3.8318	1.9983
Pb 220.353	4.9615	9.5322	6.2465
Sb 206.834	3.7685	-0.3529u	9.2373
Se 196.026	-0.5466u	-2.7740u	-2.6390u
Sn 189.925	-3.5634u	4.3764	-1.0086u
Sr 216.596	737.095	738.006	737.285
Ti 334.941	-0.0151	0.0402	-0.0393
Tl 190.794	-1.4180u	-8.1776u	-10.1798u
V 292.401	0.1216	0.1879	-0.1883u
Zn 206.200	8468.47	8494.11	8492.48

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2521	ppb	0.7877	312.5	-99.8290
Al 308.215	84.2292	ppb	14.6672	17.4	180.910
As 188.980	6.1537	ppb	1.4853	24.1	-6.6731
B 249.678	134.175	ppb	0.8819	0.7	2256.87
Ba 389.178	708.921	ppb	1.4666	0.2	18660.6
Be 313.042	-0.0042	ppb	0.0073	173.6	-449.166
Ca 370.602	31329	ppb	534.6	1.7	109977
Cd 226.502	0.5069	ppb	0.2382	47.0	63.4956
Co 228.615	-0.1105	ppb	0.4044	365.9	2.1577
Cr 267.716	-0.0162	ppb	0.2447	1514.1	5.0225
Cu 324.754	-0.8142	ppb	1.0529	129.3	254.156
Fe 271.441	176.955	ppb	0.9351	0.5	397.641
K 766.491	3651.52	ppb	22.8083	0.6	153332
Mg 279.078	10922.2	ppb	13.2182	0.1	28784.6
Mn 257.610	154.868	ppb	0.9262	0.6	11217.0
Mo 202.032	8.5606	ppb	0.4645	5.4	91.2039
Na 330.237	32776.0	ppb	452.043	1.4	1835.43
Ni 231.604	3.1249	ppb	0.9862	31.6	11.2275
Pb 220.353	6.9134	ppb	2.3572	34.1	45.8904
Sb 206.834	4.2176	ppb	4.8108	114.1	1.7619
Se 196.026	-1.9865	ppb	1.2489	62.9	9.8784
Sn 189.925	-0.0652	ppb	4.0531	6215.0	-16.6102
Sr 216.596	737.462	ppb	0.4802	0.1	10772.1
Ti 334.941	-0.0048	ppb	0.0408	857.7	12.5345
Tl 190.794	-6.5918	ppb	4.5911	69.6	-27.3026
V 292.401	0.0404	ppb	0.2008	496.9	-11.0626
Zn 206.200	8485.02	ppb	14.3553	0.2	16537.8

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480-38002-b-11-d (Samp) 5/17/2013, 3:46:52 AM Rack 3, Tube 15**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.0358u	-0.6204u	-0.7396u
Al 308.215	97.2491	77.7204	84.1821
As 188.980	5.8214	9.6289	2.8560
B 249.678	33.0984	31.9497	31.7003
Ba 389.178	151.408	151.869	147.689
Be 313.042	0.0030	0.0208	0.0221
Ca 370.602	7400	7336	7302
Cd 226.502	0.3797	0.3952	0.5315
Co 228.615	2.7709	-0.8283u	0.5581
Cr 267.716	-0.2455u	0.1832	-0.1789u
Cu 324.754	0.3367	-0.7425u	-0.1846u
Fe 271.441	31.8711	33.1224	49.2005
K 766.491	719.949	717.657	706.893
Mg 279.078	2294.49	2563.11	2263.05
Mn 257.610	35.9556	37.4658	37.2835
Mo 202.032	3.5205	3.6201	3.4204
Na 330.237	7456.62	7251.07	7253.76
Ni 231.604	3.0226	2.8961	2.9464
Pb 220.353	5.6899	9.3505	9.9430
Sb 206.834	5.2995	2.2930	0.4735
Se 196.026	24.0069	15.5093	8.4069
Sn 189.925	-6.2131u	0.1356	0.2261
Sr 216.596	158.493	157.214	155.939
Ti 334.941	-0.0241	0.0084	-0.0718u
Tl 190.794	-3.9046u	-4.6300u	-9.9616u
V 292.401	0.3447	0.5124	0.1065
Zn 206.200	1819.92	1801.84	1782.73

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7986	ppb	0.2139	26.8	-111.569
Al 308.215	86.3839	ppb	9.9488	11.5	185.656
As 188.980	6.1021	ppb	3.3952	55.6	-6.9680
B 249.678	32.2495	ppb	0.7457	2.3	653.217
Ba 389.178	150.322	ppb	2.2916	1.5	3934.54
Be 313.042	0.0153	ppb	0.0107	70.0	-412.909
Ca 370.602	7346	ppb	49.53	0.7	25797
Cd 226.502	0.4355	ppb	0.0835	19.2	59.4310
Co 228.615	0.8336	ppb	1.8153	217.8	17.1287
Cr 267.716	-0.0804	ppb	0.2307	287.0	0.4452
Cu 324.754	-0.1968	ppb	0.5397	274.3	286.077
Fe 271.441	38.0647	ppb	9.6641	25.4	110.413
K 766.491	714.833	ppb	6.9710	1.0	30241.3
Mg 279.078	2373.55	ppb	164.914	6.9	6283.37
Mn 257.610	36.9016	ppb	0.8244	2.2	2776.59
Mo 202.032	3.5203	ppb	0.0998	2.8	47.6901
Na 330.237	7320.48	ppb	117.907	1.6	468.199
Ni 231.604	2.9550	ppb	0.0637	2.2	10.6065
Pb 220.353	8.3278	ppb	2.3036	27.7	49.0997
Sb 206.834	2.6887	ppb	2.4372	90.6	-0.0009
Se 196.026	15.9743	ppb	7.8104	48.9	21.3865
Sn 189.925	-1.9505	ppb	3.6918	189.3	-18.7790
Sr 216.596	157.215	ppb	1.2770	0.8	2311.03
Ti 334.941	-0.0292	ppb	0.0404	138.3	-42.0233
Tl 190.794	-6.1654	ppb	3.3075	53.6	-26.7119
V 292.401	0.3212	ppb	0.2040	63.5	-0.6363
Zn 206.200	1801.50	ppb	18.5978	1.0	2516.62

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

480-38002-b-11-d (Samp) 5/17/2013, 3:52:18 AM Rack 3, Tube 16**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.5239	53.7549	53.4569
Al 308.215	1442.89	1456.74	1408.66
As 188.980	2798.76	3042.22	2905.34
B 249.678	1189.65	1224.40	1171.68
Ba 389.178	2781.09	2869.96	2833.73
Be 313.042	47.0045	48.2322	46.0274
Ca 370.602	33363	36757	38561
Cd 226.502	76.2701	78.3686	74.1360
Co 228.615	487.071	551.114	612.859
Cr 267.716	230.447	237.094	226.499
Cu 324.754	160.218	175.060	170.279
Fe 271.441	1285.88	1299.67	1210.60
K 766.491	13249.0	13553.4	13217.4
Mg 279.078	16612.6	17217.1	17027.7
Mn 257.610	1254.99	1303.75	1219.73
Mo 202.032	538.170	552.740	525.407
Na 330.237	42836.5	43243.8	43241.9
Ni 231.604	691.916	681.152	640.703
Pb 220.353	765.616	794.512	754.352
Sb 206.834	530.354	542.020	514.577
Se 196.026	3066.14	3139.87	2999.55
Sn 189.925	1544.35	1482.65	1413.13
Sr 216.596	1392.33	1433.79	1370.85
Ti 334.941	900.859	927.925	891.729
Tl 190.794	3382.11	3435.35	3294.12
V 292.401	536.796	552.217	525.022
Zn 206.200	9539.12	9740.09	9336.78

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.9119	ppb	1.2112	2.3	4583.67
Al 308.215	1436.09	ppb	24.7461	1.7	3384.77
As 188.980	2915.44	ppb	122.044	4.2	2062.44
B 249.678	1195.24	ppb	26.8038	2.2	18951.7
Ba 389.178	2828.26	ppb	44.6901	1.6	74456.6
Be 313.042	47.0880	ppb	1.1048	2.3	102082
Ca 370.602	36227	ppb	2639	7.3	127277
Cd 226.502	76.2582	ppb	2.1163	2.8	3750.98
Co 228.615	550.348	ppb	62.8972	11.4	8583.18
Cr 267.716	231.347	ppb	5.3544	2.3	13698.2
Cu 324.754	168.519	ppb	7.5761	4.5	9079.62
Fe 271.441	1265.38	ppb	47.9458	3.8	2758.50
K 766.491	13340.0	ppb	185.553	1.4	559420
Mg 279.078	16952.5	ppb	309.226	1.8	44646.9
Mn 257.610	1259.49	ppb	42.1869	3.3	90056.8
Mo 202.032	538.772	ppb	13.6763	2.5	4668.23
Na 330.237	43107.4	ppb	234.614	0.5	2395.35
Ni 231.604	671.257	ppb	27.0025	4.0	2402.53
Pb 220.353	771.493	ppb	20.7155	2.7	1784.34
Sb 206.834	528.984	ppb	13.7728	2.6	630.283
Se 196.026	3068.52	ppb	70.1903	2.3	1981.36
Sn 189.925	1480.04	ppb	65.6522	4.4	1665.28
Sr 216.596	1398.99	ppb	31.9949	2.3	20368.5
Ti 334.941	906.838	ppb	18.8241	2.1	304494
Tl 190.794	3370.53	ppb	71.3241	2.1	3684.53
V 292.401	538.012	ppb	13.6381	2.5	17135.6
Zn 206.200	9538.66	ppb	201.657	2.1	18589.8

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mb 680-276878/1-a (Samp) **5/17/2013, 3:57:44 AM** **Rack 3, Tube 17**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8711u	0.5704	-0.9587u
Al 308.215	120.815	109.577	105.761
As 188.980	0.2635	10.1275	-2.3644u
B 249.678	36.0016	30.5866	26.6576
Ba 389.178	6.2697	6.5822	8.3813
Be 313.042	-0.0008u	0.0094	0.0048
Ca 370.602	-25.74u	-31.66u	-24.98u
Cd 226.502	0.7743	1.1716	0.5551
Co 228.615	-0.9639u	0.7624	0.2393
Cr 267.716	-0.3939u	0.2182	0.2452
Cu 324.754	2.0597	1.0413	0.0159
Fe 271.441	-0.1826u	9.9735	1.5610
K 766.491	18.5580	15.6532	14.5826
Mg 279.078	45.6419	39.9007	36.4838
Mn 257.610	1.8229	1.5468	1.3148
Mo 202.032	4.6779	6.1756	4.3659
Na 330.237	126.836	418.411	163.372
Ni 231.604	3.3867	3.1340	2.6182
Pb 220.353	15.4582	18.9186	8.7669
Sb 206.834	-12.9070u	-3.9632u	0.3740
Se 196.026	21.8122	-9.0627u	3.2490
Sn 189.925	1.2139	-5.7149u	-0.3856u
Sr 216.596	4.8923	4.7823	3.1443
Ti 334.941	0.2832	0.3056	0.1941
Tl 190.794	-15.5340u	-12.6581u	-13.7178u
V 292.401	1.0858	0.1828	0.4244
Zn 206.200	30.4660	26.8478	26.9006

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4198	ppb	0.8587	204.5	-67.8872
Al 308.215	112.051	ppb	7.8261	7.0	245.963
As 188.980	2.6755	ppb	6.5860	246.2	-9.4875
B 249.678	31.0819	ppb	4.6917	15.1	634.885
Ba 389.178	7.0778	ppb	1.1397	16.1	157.800
Be 313.042	0.0045	ppb	0.0051	114.2	-439.069
Ca 370.602	-27.46	ppb	3.653	13.3	-85.72
Cd 226.502	0.8337	ppb	0.3125	37.5	78.6829
Co 228.615	0.0126	ppb	0.8852	7034.1	4.2866
Cr 267.716	0.0231	ppb	0.3614	1561.4	6.3537
Cu 324.754	1.0390	ppb	1.0219	98.4	350.411
Fe 271.441	3.7840	ppb	5.4307	143.5	39.3449
K 766.491	16.2646	ppb	2.0570	12.6	961.021
Mg 279.078	40.6755	ppb	4.6280	11.4	142.928
Mn 257.610	1.5615	ppb	0.2544	16.3	248.596
Mo 202.032	5.0731	ppb	0.9674	19.1	61.0994
Na 330.237	236.206	ppb	158.848	67.2	87.0433
Ni 231.604	3.0463	ppb	0.3917	12.9	10.9301
Pb 220.353	14.3812	ppb	5.1608	35.9	62.8710
Sb 206.834	-5.4987	ppb	6.7724	123.2	-9.9365
Se 196.026	5.3329	ppb	15.5426	291.4	14.5482
Sn 189.925	-1.6288	ppb	3.6278	222.7	-18.4216
Sr 216.596	4.2730	ppb	0.9790	22.9	80.5164
Ti 334.941	0.2610	ppb	0.0589	22.6	42.6713
Tl 190.794	-13.9700	ppb	1.4544	10.4	-35.2600
V 292.401	0.5643	ppb	0.4674	82.8	6.9109
Zn 206.200	28.0715	ppb	2.0739	7.4	61.5473

ics 680-276878/2-a (Samp) 5/17/2013, 4:03:11 AM Rack 3, Tube 18
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	48.8460	47.3391	46.4133
Al 308.215	3092.26	3024.75	3050.95
As 188.980	138.666	118.798	134.478
B 249.678	203.382	203.267	203.924
Ba 389.178	108.394	109.507	110.853
Be 313.042	45.2092	44.7856	45.0305
Ca 370.602	4800	4743	4748
Cd 226.502	72.8964	72.7023	73.2476
Co 228.615	74.0045	62.1725	62.6298
Cr 267.716	109.395	107.874	108.720
Cu 324.754	72.3446	72.2715	69.1418
Fe 271.441	5025.60	4957.42	5008.58
K 766.491	7822.77	7597.77	7545.36
Mg 279.078	6098.34	6000.47	6024.51
Mn 257.610	1151.14	1137.46	1152.08
Mo 202.032	94.7959	94.9524	95.1229
Na 330.237	6627.60	7108.68	6862.81
Ni 231.604	119.593	126.677	124.982
Pb 220.353	85.0081	76.3880	77.5973
Sb 206.834	51.7566	59.9477	49.7018
Se 196.026	124.509	145.238	151.703
Sn 189.925	282.496	283.061	281.673
Sr 216.596	123.252	122.803	123.324
Ti 334.941	82.8233	81.7751	81.8199
Tl 190.794	56.8635	52.2509	57.0217
V 292.401	111.231	111.296	111.034
Zn 206.200	189.249	186.042	189.217

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.5328	ppb	1.2279	2.6	4187.63
Al 308.215	3055.99	ppb	34.0331	1.1	7160.75
As 188.980	130.647	ppb	10.4733	8.0	81.5743
B 249.678	203.525	ppb	0.3507	0.2	3339.72
Ba 389.178	109.585	ppb	1.2313	1.1	2884.39
Be 313.042	45.0084	ppb	0.2126	0.5	97655.6
Ca 370.602	4763	ppb	31.59	0.7	16269
Cd 226.502	72.9488	ppb	0.2764	0.4	3607.22
Co 228.615	66.2689	ppb	6.7031	10.1	1034.51
Cr 267.716	108.663	ppb	0.7621	0.7	6439.52
Cu 324.754	71.2526	ppb	1.8284	2.6	4008.21
Fe 271.441	4997.20	ppb	35.4853	0.7	10385.9
K 766.491	7655.30	ppb	147.381	1.9	321149
Mg 279.078	6041.11	ppb	51.0007	0.8	15927.1
Mn 257.610	1146.89	ppb	8.1811	0.7	81996.6
Mo 202.032	94.9571	ppb	0.1636	0.2	836.656
Na 330.237	6866.36	ppb	240.561	3.5	453.572
Ni 231.604	123.751	ppb	3.6988	3.0	443.095
Pb 220.353	79.6645	ppb	4.6671	5.9	211.446
Sb 206.834	53.8020	ppb	5.4206	10.1	62.0197
Se 196.026	140.483	ppb	14.2071	10.1	101.519
Sn 189.925	282.410	ppb	0.6978	0.2	304.345
Sr 216.596	123.126	ppb	0.2823	0.2	1808.25
Ti 334.941	82.1394	ppb	0.5927	0.7	27566.6
Tl 190.794	55.3787	ppb	2.7099	4.9	39.8993
V 292.401	111.187	ppb	0.1366	0.1	3530.50
Zn 206.200	188.169	ppb	1.8425	1.0	373.790

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680-90218-c-2-a (Samp) 5/17/2013, 4:08:37 AM Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2000	-0.4943u	-0.2806u
Al 308.215	77.1458	78.9452	111.501
As 188.980	0.3368	0.6612	10.2871
B 249.678	43.6387	44.3504	42.6191
Ba 389.178	23.4424	24.7927	26.6930
Be 313.042	0.0989	0.1011	0.1037
Ca 370.602	5430	5451	5405
Cd 226.502	0.6326	0.8610	0.6035
Co 228.615	-0.8931u	-0.6899u	-0.3326u
Cr 267.716	0.7779	0.4918	1.0703
Cu 324.754	1.2710	-0.8434u	0.9574
Fe 271.441	25.5560	18.6627	22.5357
K 766.491	2108.45	2149.19	2144.60
Mg 279.078	924.176	926.791	918.801
Mn 257.610	5.4294	5.4886	5.4308
Mo 202.032	3.4323	4.1309	3.1252
Na 330.237	13680.1	12157.2	10942.4
Ni 231.604	2.0884	1.6128	1.7762
Pb 220.353	7.2071	10.4594	6.8903
Sb 206.834	0.3230	0.1959	-0.4193u
Se 196.026	-6.9475u	-7.5650u	-3.9901u
Sn 189.925	2.2384	-0.3126u	1.7773
Sr 216.596	38.3843	38.1544	37.4805
Ti 334.941	0.2770	0.1854	0.2820
Tl 190.794	-10.1620u	-12.8548u	-14.6674u
V 292.401	0.2724	0.2908	0.1076
Zn 206.200	3.8967	7.8888	4.7401

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1916	ppb	0.3556	185.6	-50.0116
Al 308.215	89.1973	ppb	19.3363	21.7	192.231
As 188.980	3.7617	ppb	5.6535	150.3	-8.6521
B 249.678	43.5361	ppb	0.8702	2.0	830.856
Ba 389.178	24.9760	ppb	1.6330	6.5	631.585
Be 313.042	0.1012	ppb	0.0024	2.4	-226.857
Ca 370.602	5429	ppb	23.10	0.4	19069
Cd 226.502	0.6990	ppb	0.1410	20.2	72.1007
Co 228.615	-0.6386	ppb	0.2838	44.4	-5.7759
Cr 267.716	0.7800	ppb	0.2893	37.1	51.4130
Cu 324.754	0.4617	ppb	1.1411	247.2	320.322
Fe 271.441	22.2514	ppb	3.4554	15.5	77.4188
K 766.491	2134.08	ppb	22.3122	1.0	89728.6
Mg 279.078	923.256	ppb	4.0735	0.4	2466.10
Mn 257.610	5.4496	ppb	0.0338	0.6	528.423
Mo 202.032	3.5628	ppb	0.5154	14.5	48.0580
Na 330.237	12259.9	ppb	1371.73	11.2	758.902
Ni 231.604	1.8258	ppb	0.2416	13.2	6.5619
Pb 220.353	8.1856	ppb	1.9755	24.1	48.7727
Sb 206.834	0.0332	ppb	0.3970	1195.2	-3.1956
Se 196.026	-6.1675	ppb	1.9108	31.0	7.1656
Sn 189.925	1.2344	ppb	1.3594	110.1	-15.1591
Sr 216.596	38.0064	ppb	0.4698	1.2	573.208
Ti 334.941	0.2481	ppb	0.0544	21.9	42.4559
Tl 190.794	-12.5614	ppb	2.2670	18.0	-33.7153
V 292.401	0.2236	ppb	0.1009	45.1	-3.7707
Zn 206.200	5.5085	ppb	2.1041	38.2	17.5871

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680-90218-c-2-a (Samp) 5/17/2013, 4:14:03 AM Rack 3, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5873u	-0.2818u	-1.1349u
Al 308.215	59.6911	66.1483	55.8278
As 188.980	-1.3064u	-9.5116u	6.5351
B 249.678	10.3098	8.5424	11.0874
Ba 389.178	8.4174	8.1338	9.3449
Be 313.042	0.0302	0.0182	0.0407
Ca 370.602	1131	1107	1118
Cd 226.502	0.5622	0.2022	0.0904
Co 228.615	1.0531	-0.1905u	0.2627
Cr 267.716	0.4920	0.2720	0.5219
Cu 324.754	-0.7519u	-0.2530u	0.7640
Fe 271.441	-0.1187u	7.3470	-2.3860u
K 766.491	429.972	434.134	434.826
Mg 279.078	215.304	242.631	226.212
Mn 257.610	1.5925	1.7726	1.2479
Mo 202.032	2.3654	2.6313	2.9523
Na 330.237	2661.87	2485.11	2332.94
Ni 231.604	2.5993	2.4758	4.1367
Pb 220.353	8.1926	9.2991	5.4441
Sb 206.834	1.0388	3.5154	-4.0883u
Se 196.026	9.6400	6.5418	12.2796
Sn 189.925	0.5967	0.6210	1.5982
Sr 216.596	10.3972	10.0636	8.8769
Ti 334.941	0.0183	0.0802	0.0250
Tl 190.794	-4.6117u	-8.7860u	-4.9414u
V 292.401	0.2403	-0.1141u	-0.0279u
Zn 206.200	2.8103	2.0626	4.4206

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6680	ppb	0.4322	64.7	-90.3528
Al 308.215	60.5557	ppb	5.2143	8.6	124.985
As 188.980	-1.4276	ppb	8.0240	562.1	-12.3924
B 249.678	9.9799	ppb	1.3042	13.1	302.845
Ba 389.178	8.6320	ppb	0.6334	7.3	199.262
Be 313.042	0.0297	ppb	0.0113	38.0	-383.543
Ca 370.602	1119	ppb	12.05	1.1	3938
Cd 226.502	0.2849	ppb	0.2466	86.5	51.9538
Co 228.615	0.3751	ppb	0.6294	167.8	10.0321
Cr 267.716	0.4286	ppb	0.1364	31.8	30.4127
Cu 324.754	-0.0803	ppb	0.7726	962.1	292.101
Fe 271.441	1.6141	ppb	5.0926	315.5	34.9042
K 766.491	432.977	ppb	2.6258	0.6	18427.4
Mg 279.078	228.049	ppb	13.7556	6.0	636.145
Mn 257.610	1.5377	ppb	0.2666	17.3	247.389
Mo 202.032	2.6497	ppb	0.2939	11.1	40.1746
Na 330.237	2493.31	ppb	164.621	6.6	213.341
Ni 231.604	3.0706	ppb	0.9253	30.1	11.0167
Pb 220.353	7.6453	ppb	1.9849	26.0	47.5424
Sb 206.834	0.1553	ppb	3.8781	2497.1	-3.0463
Se 196.026	9.4871	ppb	2.8719	30.3	17.2153
Sn 189.925	0.9386	ppb	0.5713	60.9	-15.5023
Sr 216.596	9.7792	ppb	0.7990	8.2	161.073
Ti 334.941	0.0412	ppb	0.0340	82.6	-30.2488
Tl 190.794	-6.1130	ppb	2.3207	38.0	-26.6220
V 292.401	0.0328	ppb	0.1848	564.1	-9.7047
Zn 206.200	3.0979	ppb	1.2950	38.9	12.8896

680-90218-c-2-a (Samp) 5/17/2013, 4:19:30 AM Rack 3, Tube 21
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	55.3227	55.6753	56.8594
Al 308.215	1524.51	1512.26	1526.83
As 188.980	2809.12	2818.97	2842.51
B 249.678	1057.28	1067.85	1074.07
Ba 389.178	2086.69	2090.16	2112.01
Be 313.042	47.9429	48.2097	48.6511
Ca 370.602	10991	11076	11054
Cd 226.502	73.9126	73.7708	74.5581
Co 228.615	705.332	703.786	712.167
Cr 267.716	229.616	230.647	232.409
Cu 324.754	229.391	233.310	237.527
Fe 271.441	1218.30	1171.95	1149.42
K 766.491	9973.64	10232.8	10612.8
Mg 279.078	7505.56	7544.63	7594.42
Mn 257.610	896.581	896.884	907.072
Mo 202.032	539.244	541.955	544.601
Na 330.237	20554.2	19594.7	18889.3
Ni 231.604	567.512	576.818	596.689
Pb 220.353	755.557	755.608	767.269
Sb 206.834	534.550	526.676	532.772
Se 196.026	2975.09	3003.71	3022.22
Sn 189.925	1517.50	1515.48	1515.63
Sr 216.596	681.925	682.124	687.769
Ti 334.941	907.347	914.140	917.676
Tl 190.794	3129.61	3136.61	3163.42
V 292.401	518.932	523.386	525.330
Zn 206.200	935.456	936.002	934.621

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.9525	ppb	0.8050	1.4	4903.82
Al 308.215	1521.20	ppb	7.8280	0.5	3583.62
As 188.980	2823.54	ppb	17.1523	0.6	1996.79
B 249.678	1066.40	ppb	8.4872	0.8	16924.3
Ba 389.178	2096.28	ppb	13.7322	0.7	55164.6
Be 313.042	48.2679	ppb	0.3577	0.7	104650
Ca 370.602	11040	ppb	44.40	0.4	38861
Cd 226.502	74.0805	ppb	0.4197	0.6	3644.75
Co 228.615	707.095	ppb	4.4598	0.6	11026.5
Cr 267.716	230.890	ppb	1.4124	0.6	13670.5
Cu 324.754	233.409	ppb	4.0690	1.7	12456.2
Fe 271.441	1179.89	ppb	35.1236	3.0	2610.99
K 766.491	10273.1	ppb	321.457	3.1	430871
Mg 279.078	7548.20	ppb	44.5364	0.6	19894.3
Mn 257.610	900.179	ppb	5.9715	0.7	64391.9
Mo 202.032	541.933	ppb	2.6785	0.5	4695.57
Na 330.237	19679.4	ppb	835.639	4.2	1157.43
Ni 231.604	580.339	ppb	14.9039	2.6	2077.12
Pb 220.353	759.478	ppb	6.7470	0.9	1756.92
Sb 206.834	531.333	ppb	4.1297	0.8	633.428
Se 196.026	3000.34	ppb	23.7461	0.8	1937.55
Sn 189.925	1516.21	ppb	1.1246	0.1	1706.35
Sr 216.596	683.939	ppb	3.3184	0.5	9944.98
Ti 334.941	913.055	ppb	5.2496	0.6	306528
Tl 190.794	3143.22	ppb	17.8471	0.6	3434.92
V 292.401	522.549	ppb	3.2804	0.6	16642.7
Zn 206.200	935.360	ppb	0.6957	0.1	1828.47

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90218-c-2-b ms (Samp) 5/17/2013, 4:24:56 AM Rack 3, Tube 22**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	56.1346	51.6738	40.9962
Al 308.215	3893.42	3935.73	4086.20
As 188.980	132.396	152.137	151.188
B 249.678	243.006	245.557	252.507
Ba 389.178	126.210	127.832	126.477
Be 313.042	49.4871	49.7612	51.9134
Ca 370.602	10913	11055	11233
Cd 226.502	73.3117	74.5238	76.9678
Co 228.615	60.6618	45.5664	43.8769
Cr 267.716	112.836	114.466	117.252
Cu 324.754	96.0061	86.3626	70.2303
Fe 271.441	5322.85	5384.03	5506.49
K 766.491	10007.8	10582.1	11081.1
Mg 279.078	7208.10	7350.97	7583.41
Mn 257.610	835.893	851.565	867.409
Mo 202.032	105.893	107.236	110.107
Na 330.237	18367.6	18047.0	18926.5
Ni 231.604	125.656	143.288	145.366
Pb 220.353	78.1189	81.2369	82.2392
Sb 206.834	51.5612	65.6787	64.9241
Se 196.026	137.822	161.101	155.230
Sn 189.925	284.203	285.531	291.277
Sr 216.596	163.450	164.887	168.613
Ti 334.941	88.4094	88.6158	91.3909
Tl 190.794	46.7090	53.8432	53.2339
V 292.401	113.358	105.332	107.849
Zn 206.200	191.560	193.342	203.383

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.6015	ppb	7.7790	15.7	4369.68
Al 308.215	3971.78	ppb	101.321	2.6	9310.32
As 188.980	145.240	ppb	11.1334	7.7	92.0156
B 249.678	247.024	ppb	4.9175	2.0	4023.89
Ba 389.178	126.840	ppb	0.8694	0.7	3342.34
Be 313.042	50.3872	ppb	1.3288	2.6	109383
Ca 370.602	11067	ppb	160.7	1.5	38381
Cd 226.502	74.9344	ppb	1.8623	2.5	3704.55
Co 228.615	50.0351	ppb	9.2417	18.5	781.591
Cr 267.716	114.851	ppb	2.2328	1.9	6806.22
Cu 324.754	84.1996	ppb	13.0233	15.5	4682.18
Fe 271.441	5404.46	ppb	93.5092	1.7	11225.7
K 766.491	10557.0	ppb	537.095	5.1	442773
Mg 279.078	7380.83	ppb	189.430	2.6	19453.4
Mn 257.610	851.623	ppb	15.7580	1.9	60930.4
Mo 202.032	107.745	ppb	2.1525	2.0	947.075
Na 330.237	18447.0	ppb	445.110	2.4	1100.34
Ni 231.604	138.103	ppb	10.8298	7.8	494.468
Pb 220.353	80.5316	ppb	2.1488	2.7	213.422
Sb 206.834	60.7213	ppb	7.9419	13.1	70.4345
Se 196.026	151.384	ppb	12.1066	8.0	108.524
Sn 189.925	287.004	ppb	3.7596	1.3	309.574
Sr 216.596	165.650	ppb	2.6648	1.6	2428.61
Ti 334.941	89.4720	ppb	1.6650	1.9	30033.8
Tl 190.794	51.2620	ppb	3.9548	7.7	35.3238
V 292.401	108.846	ppb	4.1046	3.8	3453.93
Zn 206.200	196.095	ppb	6.3740	3.3	389.235

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680-90218-c-2-c msd (Samp) 5/17/2013, 4:30:22 AM Rack 3, Tube 23**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.5509	56.1896	54.1538
Al 308.215	4068.63	4038.71	4036.78
As 188.980	151.465	154.215	158.132
B 249.678	254.539	249.867	248.862
Ba 389.178	131.769	129.633	131.132
Be 313.042	52.5742	51.8864	51.9242
Ca 370.602	11365	11384	11452
Cd 226.502	79.8876	78.9752	78.8790
Co 228.615	66.5538	74.5249	77.6651
Cr 267.716	121.748	120.167	120.442
Cu 324.754	92.8942	95.8472	89.1707
Fe 271.441	5719.57	5659.01	5648.22
K 766.491	11158.6	11402.6	11028.4
Mg 279.078	7790.07	7716.91	7657.19
Mn 257.610	949.642	944.506	933.136
Mo 202.032	112.485	110.835	110.612
Na 330.237	20053.2	21548.0	18886.1
Ni 231.604	130.088	123.870	121.731
Pb 220.353	87.3452	82.9711	85.2807
Sb 206.834	53.5812	57.4418	60.6556
Se 196.026	165.280	148.140	178.399
Sn 189.925	301.969	298.760	295.150
Sr 216.596	174.620	173.012	173.653
Ti 334.941	94.0247	92.8081	93.0719
Tl 190.794	63.1560	55.8794	52.4960
V 292.401	118.295	117.459	114.448
Zn 206.200	202.944	197.328	200.611

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.2981	ppb	1.0412	1.9	4875.46
Al 308.215	4048.04	ppb	17.8582	0.4	9489.52
As 188.980	154.604	ppb	3.3502	2.2	98.6799
B 249.678	251.089	ppb	3.0293	1.2	4087.36
Ba 389.178	130.845	ppb	1.0966	0.8	3449.38
Be 313.042	52.1283	ppb	0.3866	0.7	113177
Ca 370.602	11400	ppb	45.77	0.4	39524
Cd 226.502	79.2473	ppb	0.5566	0.7	3915.53
Co 228.615	72.9146	ppb	5.7280	7.9	1138.03
Cr 267.716	120.786	ppb	0.8446	0.7	7157.67
Cu 324.754	92.6374	ppb	3.3456	3.6	5121.45
Fe 271.441	5675.60	ppb	38.4614	0.7	11791.1
K 766.491	11196.5	ppb	190.000	1.7	469579
Mg 279.078	7721.39	ppb	66.5514	0.9	20349.1
Mn 257.610	942.428	ppb	8.4466	0.9	67411.1
Mo 202.032	111.310	ppb	1.0231	0.9	977.821
Na 330.237	20162.5	ppb	1334.29	6.6	1195.99
Ni 231.604	125.230	ppb	4.3414	3.5	448.403
Pb 220.353	85.1990	ppb	2.1882	2.6	224.041
Sb 206.834	57.2262	ppb	3.5421	6.2	66.2215
Se 196.026	163.940	ppb	15.1743	9.3	116.599
Sn 189.925	298.626	ppb	3.4114	1.1	322.782
Sr 216.596	173.762	ppb	0.8098	0.5	2547.11
Ti 334.941	93.3016	ppb	0.6400	0.7	31321.3
Tl 190.794	57.1771	ppb	5.4472	9.5	41.7662
V 292.401	116.734	ppb	2.0236	1.7	3705.94
Zn 206.200	200.295	ppb	2.8212	1.4	207.438

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680-90218-c-3-a (Samp) 5/17/2013, 4:35:49 AM Rack 3, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.3168u	-0.9975u	-1.7421u
Al 308.215	419.987	419.716	413.969
As 188.980	0.6466	15.9514	11.7472
B 249.678	25.4962	25.5760	25.0411
Ba 389.178	49.1611	54.3480	52.9899
Be 313.042	0.1169	0.1162	0.1197
Ca 370.602	15303	15527	15375
Cd 226.502	0.5590	0.4009	0.1707
Co 228.615	0.1940	0.9821	1.0805
Cr 267.716	14.7259	14.6948	14.1486
Cu 324.754	0.3691	0.3917	-0.7059u
Fe 271.441	789.312	817.182	760.684
K 766.491	3480.97	3479.27	3429.76
Mg 279.078	2741.71	2762.44	2734.99
Mn 257.610	108.625	109.833	108.275
Mo 202.032	1.4476	0.3444	2.0545
Na 330.237	15356.8	16250.0	16341.3
Ni 231.604	8.7509	8.1224	8.1341
Pb 220.353	7.3815	14.5322	4.5104
Sb 206.834	5.5082	3.3047	1.9716
Se 196.026	-3.8675u	-13.9404u	7.9745
Sn 189.925	-0.9754u	-1.1623u	2.2662
Sr 216.596	133.005	135.146	133.915
Ti 334.941	6.3940	6.6483	6.5119
Tl 190.794	-9.4367u	4.1859	-1.8954u
V 292.401	2.5870	2.8163	2.7828
Zn 206.200	12.1706	11.2939	11.0654

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3521	ppb	0.3736	27.6	-159.048
Al 308.215	417.891	ppb	3.3992	0.8	963.572
As 188.980	9.4484	ppb	7.9071	83.7	-4.4941
B 249.678	25.3711	ppb	0.2886	1.1	543.711
Ba 389.178	52.1663	ppb	2.6898	5.2	1354.11
Be 313.042	0.1176	ppb	0.0018	1.6	-187.156
Ca 370.602	15402	ppb	114.2	0.7	54006
Cd 226.502	0.3769	ppb	0.1953	51.8	59.8893
Co 228.615	0.7522	ppb	0.4859	64.6	16.2119
Cr 267.716	14.5231	ppb	0.3247	2.2	865.509
Cu 324.754	0.0183	ppb	0.6273	3424.3	297.439
Fe 271.441	789.059	ppb	28.2501	3.6	1664.49
K 766.491	3463.33	ppb	29.0894	0.8	145444
Mg 279.078	2746.38	ppb	14.3077	0.5	7264.02
Mn 257.610	108.911	ppb	0.8171	0.8	7916.65
Mo 202.032	1.2822	ppb	0.8670	67.6	28.3095
Na 330.237	15982.7	ppb	543.951	3.4	966.494
Ni 231.604	8.3358	ppb	0.3595	4.3	29.8854
Pb 220.353	8.8080	ppb	5.1610	58.6	50.2149
Sb 206.834	3.5948	ppb	1.7861	49.7	1.3270
Se 196.026	-3.2778	ppb	10.9693	334.7	9.0447
Sn 189.925	0.0428	ppb	1.9278	4500.2	-16.5048
Sr 216.596	134.022	ppb	1.0746	0.8	1974.71
Ti 334.941	6.5180	ppb	0.1273	2.0	2157.55
Tl 190.794	-2.3821	ppb	6.8243	286.5	-22.6572
V 292.401	2.7287	ppb	0.1239	4.5	76.2121
Zn 206.200	11.5099	ppb	0.5834	5.1	20.3393

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680-90218-a-8-a (Samp) 5/17/2013, 4:52:08 AM Rack 3, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1496u	-0.8990u	-0.5001u
Al 308.215	131.090	118.166	102.823
As 188.980	2.0998	1.6570	11.2044
B 249.678	11.4138	11.9070	9.9235
Ba 389.178	9.4344	10.5915	6.9575
Be 313.042	-0.0298u	-0.0149u	-0.0298u
Ca 370.602	39304	38815	38160
Cd 226.502	0.1690	0.1739	0.5048
Co 228.615	-4.1713u	-3.5287u	-1.4649u
Cr 267.716	0.8113	0.4149	0.3296
Cu 324.754	-0.6862u	-1.4753u	-0.9015u
Fe 271.441	15.9310	16.5818	17.9022
K 766.491	3803.49	3781.80	3870.31
Mg 279.078	11138.7	11061.8	11258.2
Mn 257.610	3.0482	3.1625	3.1547
Mo 202.032	3.8179	4.8429	5.1345
Na 330.237	29464.1	29153.8	31302.3
Ni 231.604	2.8210	2.6375	2.8994
Pb 220.353	4.5397	4.6702	11.6777
Sb 206.834	-3.8749u	-1.8718u	15.8867
Se 196.026	11.4509	12.2044	3.0165
Sn 189.925	-5.3996u	3.7694	-6.3249u
Sr 216.596	121.030	120.119	122.408
Ti 334.941	0.1540	0.0794	0.1249
Tl 190.794	-5.7852u	-6.5878u	-6.9799u
V 292.401	1.7513	1.6277	1.9021
Zn 206.200	11.1341	12.6983	11.6880

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8496	ppb	0.3276	38.6	-113.659
Al 308.215	117.360	ppb	14.1508	12.1	258.382
As 188.980	4.9871	ppb	5.3889	108.1	-7.4419
B 249.678	11.0815	ppb	1.0327	9.3	320.166
Ba 389.178	8.9945	ppb	1.8565	20.6	242.831
Be 313.042	-0.0248	ppb	0.0086	34.6	-490.849
Ca 370.602	38760	ppb	573.8	1.5	136077
Cd 226.502	0.2826	ppb	0.1925	68.1	51.8972
Co 228.615	-3.0550	ppb	1.4140	46.3	-43.4811
Cr 267.716	0.5186	ppb	0.2571	49.6	36.2982
Cu 324.754	-1.0210	ppb	0.4079	40.0	243.179
Fe 271.441	16.8050	ppb	1.0044	6.0	65.7118
K 766.491	3818.53	ppb	46.1349	1.2	160332
Mg 279.078	11152.9	ppb	98.9972	0.9	29393.5
Mn 257.610	3.1218	ppb	0.0639	2.0	389.366
Mo 202.032	4.5984	ppb	0.6915	15.0	56.9970
Na 330.237	29973.4	ppb	1161.31	3.9	1748.38
Ni 231.604	2.7859	ppb	0.1344	4.8	9.9983
Pb 220.353	6.9625	ppb	4.0840	58.7	45.9877
Sb 206.834	3.3800	ppb	10.8773	321.8	0.8293
Se 196.026	8.8906	ppb	5.1010	57.4	16.8329
Sn 189.925	-2.6517	ppb	5.5801	210.4	-19.5465
Sr 216.596	121.185	ppb	1.1525	1.0	1790.38
Ti 334.941	0.1194	ppb	0.0376	31.5	55.5762
Tl 190.794	-6.4510	ppb	0.6090	9.4	-26.9980
V 292.401	1.7604	ppb	0.1374	7.8	45.3678
Zn 206.200	11.8401	ppb	0.7931	6.7	20.9233

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680-90236-c-2-a (Samp) **5/17/2013, 4:57:35 AM** **Rack 3, Tube 28**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8945u	0.1092	-0.8258u
Al 308.215	117.110	89.6987	107.563
As 188.980	1.6108	11.1423	1.8820
B 249.678	4.7730	4.9428	6.6177
Ba 389.178	68.5190	69.9636	72.1105
Be 313.042	0.0512	0.0656	0.0442
Ca 370.602	17492	17343	18991
Cd 226.502	0.1221	0.4108	0.5287
Co 228.615	-2.6400u	-1.9320u	-0.5021u
Cr 267.716	0.9386	0.7443	1.0040
Cu 324.754	-0.6702u	-1.7348u	0.4318
Fe 271.441	31.5802	40.5868	34.4715
K 766.491	3532.58	3517.56	3663.17
Mg 279.078	2836.67	2823.03	2913.31
Mn 257.610	38.1171	38.6468	39.7568
Mo 202.032	1.8539	2.2811	2.6548
Na 330.237	11816.7	11812.7	12441.9
Ni 231.604	2.7930	1.9361	4.4170
Pb 220.353	6.9353	-0.4568u	1.7734
Sb 206.834	0.8909	3.1447	0.5512
Se 196.026	-8.5219u	-4.8687u	-10.2389u
Sn 189.925	1.7413	1.3646	1.3823
Sr 216.596	134.010	133.376	139.181
Ti 334.941	0.5905	0.6517	0.5305
Tl 190.794	-4.5740u	-5.2135u	-12.3249u
V 292.401	2.0989	2.1445	1.6430
Zn 206.200	12.5744	14.2500	16.1063

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5370	ppb	0.5607	104.4	-86.3226
Al 308.215	104.791	ppb	13.9144	13.3	228.757
As 188.980	4.8784	ppb	5.4264	111.2	-7.7381
B 249.678	5.4445	ppb	1.0196	18.7	231.443
Ba 389.178	70.1977	ppb	1.8072	2.6	1827.55
Be 313.042	0.0537	ppb	0.0109	20.4	-325.736
Ca 370.602	17942	ppb	911.2	5.1	62995
Cd 226.502	0.3539	ppb	0.2092	59.1	55.3974
Co 228.615	-1.6914	ppb	1.0890	64.4	-22.1179
Cr 267.716	0.8956	ppb	0.1350	15.1	58.3746
Cu 324.754	-0.6577	ppb	1.0834	164.7	262.022
Fe 271.441	35.5462	ppb	4.5984	12.9	104.743
K 766.491	3571.10	ppb	80.0855	2.2	149961
Mg 279.078	2857.67	ppb	48.6628	1.7	7557.57
Mn 257.610	38.8402	ppb	0.8368	2.2	2916.18
Mo 202.032	2.2633	ppb	0.4007	17.7	36.8322
Na 330.237	12023.8	ppb	362.071	3.0	745.639
Ni 231.604	3.0487	ppb	1.2601	41.3	10.9392
Pb 220.353	2.7506	ppb	3.7917	137.8	36.4111
Sb 206.834	1.5289	ppb	1.4095	92.2	-1.3679
Se 196.026	-7.8765	ppb	2.7427	34.8	6.0760
Sn 189.925	1.4961	ppb	0.2126	14.2	-14.8545
Sr 216.596	135.522	ppb	3.1841	2.3	1996.37
Ti 334.941	0.5909	ppb	0.0606	10.3	168.379
Tl 190.794	-7.3708	ppb	4.3023	58.4	-28.0471
V 292.401	1.9621	ppb	0.2773	14.1	52.3942
Zn 206.200	14.3102	ppb	1.7667	12.3	24.7360

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680-90236-c-5-a (Samp) 5/17/2013, 5:03:02 AM Rack 3, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2419	-0.7102u	-0.1983
Al 308.215	276.703	273.801	270.359
As 188.980	-1.5133u	8.1750	4.0368
B 249.678	1.3946u	1.6236u	2.0923u
Ba 389.178	52.9675	53.7596	53.3563
Be 313.042	-0.0192u	-0.0272u	-0.0110u
Ca 370.602	8958	9029	9039
Cd 226.502	0.6196	0.5777	0.5717
Co 228.615	70.3856	80.9143	89.6283
Cr 267.716	1.1183	0.6977	0.6032
Cu 324.754	-0.9758u	0.9456	0.4167
Fe 271.441	60751.1	63582.1	63881.1
K 766.491	6002.08	6041.39	6100.13
Mg 279.078	6594.49	6688.31	6763.60
Mn 257.610	8615.12	8951.05	8979.01
Mo 202.032	2.6032	1.2033	1.8472
Na 330.237	121123x	126523x	130158x
Ni 231.604	6.0351	4.8271	4.2414
Pb 220.353	11.6371	11.0245	8.7919
Sb 206.834	4.3158	-0.2912	-1.9222u
Se 196.026	1.6467	14.3790	6.4574
Sn 189.925	-4.4886u	-4.5532u	0.7343
Sr 216.596	27.7704	27.5200	28.3623
Ti 334.941	-0.0785	-0.0222	-0.1402u
Tl 190.794	1.1820u	10.3281u	8.2615u
V 292.401	0.0209u	0.0532	1.2244
Zn 206.200	7.1075	7.7137	9.9169

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3835b	ppb	0.2838	74.0	-33.8621
Al 308.215	273.621b	ppb	3.1761	1.2	624.986
As 188.980	3.5662b	ppb	4.8613	136.3	-8.5179
B 249.678	1.7035b	ppb	0.3556	20.9	69.7260
Ba 389.178	53.3611b	ppb	0.3961	0.7	1501.87
Be 313.042	-0.0191b	ppb	0.0081	42.2	-506.263
Ca 370.602	9009b	ppb	44.11	0.5	25938
Cd 226.502	0.5897b	ppb	0.0261	4.4	336.693
Co 228.615	80.3094b	ppb	9.6356	12.0	1252.69
Cr 267.716	0.8064b	ppb	0.2742	34.0	106.551
Cu 324.754	0.1288b	ppb	0.9925	770.4	323.164
Fe 271.441	62738.1b	ppb	1727.26	2.8	129871
K 766.491	6047.87b	ppb	49.3412	0.8	253774
Mg 279.078	6682.13b	ppb	84.7249	1.3	17519.3
Mn 257.610	8848.39b	ppb	202.508	2.3	631602
Mo 202.032	1.8846b	ppb	0.7007	37.2	29.6540
Na 330.237	125935xb	ppb	4545.93	3.6	7087.69
Ni 231.604	5.0346b	ppb	0.9147	18.2	19.8997
Pb 220.353	10.4845b	ppb	1.4975	14.3	55.7615
Sb 206.834	0.7008b	ppb	3.2352	461.6	-0.5544
Se 196.026	7.4943b	ppb	6.4292	85.8	18.3703
Sn 189.925	-2.7692b	ppb	3.0342	109.6	-19.6560
Sr 216.596	27.8842b	ppb	0.4326	1.6	462.429
Ti 334.941	-0.0803b	ppb	0.0591	73.6	-36.6104
Tl 190.794	6.5905b	ppb	4.7965	72.8	-26.0283
V 292.401	0.4328b	ppb	0.6857	158.4	2.3107
Zn 206.200	8.2460b	ppb	1.4784	37.8	31.7443

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680-90236-c-6-a (Samp) 5/17/2013, 5:08:28 AM Rack 3, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.0740u	-0.6268u	-0.0051u
Al 308.215	130.381	124.101	118.813
As 188.980	3.7842	9.3452	7.5593
B 249.678	3.6462	3.4631	4.1725
Ba 389.178	30.3594	31.9677	32.4649
Be 313.042	0.0156	0.0344	0.0139
Ca 370.602	14984	15542	16723
Cd 226.502	0.1017	0.3413	0.2728
Co 228.615	-0.4436u	-0.3403u	-0.6143u
Cr 267.716	1.0717	0.6658	0.8943
Cu 324.754	-2.0635u	-0.0418u	0.5331
Fe 271.441	88.6951	87.6543	99.7241
K 766.491	4639.54	4691.18	4778.14
Mg 279.078	4654.96	4740.18	4871.30
Mn 257.610	250.605	254.407	245.606
Mo 202.032	2.0995	2.2863	1.9024
Na 330.237	10692.1	11226.8	11115.0
Ni 231.604	3.3672	5.1969	3.1919
Pb 220.353	9.4731	7.0867	3.8787
Sb 206.834	5.5811	6.1703	5.4781
Se 196.026	-6.6709u	2.4828	0.0614
Sn 189.925	2.2805	0.5974	-0.2806u
Sr 216.596	90.1119	90.3682	93.5254
Ti 334.941	1.3872	1.2816	1.5006
Tl 190.794	-5.0756u	-1.4260u	-3.7519u
V 292.401	1.0472	1.5283	0.7396
Zn 206.200	10.0163	10.2909	11.7970

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9020	ppb	1.0616	117.7	-115.399
Al 308.215	124.431	ppb	5.7914	4.7	274.849
As 188.980	6.8962	ppb	2.8392	41.2	-6.3225
B 249.678	3.7606	ppb	0.3683	9.8	204.853
Ba 389.178	31.5974	ppb	1.1005	3.5	817.816
Be 313.042	0.0213	ppb	0.0113	53.2	-397.093
Ca 370.602	15750	ppb	887.7	5.6	55298
Cd 226.502	0.2386	ppb	0.1234	51.7	50.0859
Co 228.615	-0.4661	ppb	0.1383	29.7	-2.9869
Cr 267.716	0.8773	ppb	0.2035	23.2	58.0358
Cu 324.754	-0.5241	ppb	1.3638	260.2	269.000
Fe 271.441	92.0245	ppb	6.6883	7.3	221.829
K 766.491	4702.95	ppb	70.0446	1.5	197402
Mg 279.078	4755.48	ppb	108.980	2.3	12550.4
Mn 257.610	250.206	ppb	4.4141	1.8	18003.6
Mo 202.032	2.0961	ppb	0.1920	9.2	35.3870
Na 330.237	11011.3	ppb	282.030	2.6	689.082
Ni 231.604	3.9187	ppb	1.1104	28.3	14.0545
Pb 220.353	6.8128	ppb	2.8073	41.2	45.6984
Sb 206.834	5.7432	ppb	0.3735	6.5	3.7405
Se 196.026	-1.3756	ppb	4.7430	344.8	10.2947
Sn 189.925	0.8658	ppb	1.3015	150.3	-15.5724
Sr 216.596	91.3352	ppb	1.9011	2.1	1352.02
Ti 334.941	1.3898	ppb	0.1096	7.9	447.484
Tl 190.794	-3.4178	ppb	1.8476	54.1	-23.9281
V 292.401	1.1050	ppb	0.3975	36.0	24.9417
Zn 206.200	10.7014	ppb	0.9587	9.0	27.7133

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680-90236-c-7-a (Samp) 5/17/2013, 5:13:55 AM Rack 3, Tube 31

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2993u	-1.2294u	-0.9204
Al 308.215	1117.53	1109.40	1117.82
As 188.980	6.4338	12.9122	2.5437
B 249.678	48.8989	50.0423	51.3859
Ba 389.178	307.316	304.236	301.627
Be 313.042	0.4209	0.4063	0.4127
Ca 370.602	9701	9746	9735
Cd 226.502	0.4637	0.3748	0.3200
Co 228.615	154.624	142.669	134.854
Cr 267.716	0.3042	-0.2711	0.4353
Cu 324.754	2.7396	2.3683	0.8994
Fe 271.441	31290.9	31292.8	31373.5
K 766.491	5771.84	5739.47	5749.79
Mg 279.078	8197.74	8193.66	8210.42
Mn 257.610	26411.1	27436.9	26897.9
Mo 202.032	1.7631	1.9106	1.9563
Na 330.237	20739.0	20463.2	24165.9
Ni 231.604	1.6035	2.5264	0.8075
Pb 220.353	13.2594	6.7261	12.1481
Sb 206.834	4.7715	11.6141	-4.8466u
Se 196.026	1.1806	2.1958	11.3684
Sn 189.925	-1.3479u	0.6566	-1.4756u
Sr 216.596	55.6125	55.8689	55.5888
Ti 334.941	0.0886	-0.1405	0.0398
Tl 190.794	34.9044	32.4915	35.0709
V 292.401	-0.5589u	-0.7642u	-1.6513u
Zn 206.200	56.5035	56.7357	59.7047

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1497	ppb	0.2016	17.5	-35.6481
Al 308.215	1114.92	ppb	4.7807	0.4	2599.48
As 188.980	7.2965	ppb	5.2378	71.8	-5.9780
B 249.678	50.1090	ppb	1.2449	2.5	883.033
Ba 389.178	304.393	ppb	2.8477	0.9	8059.06
Be 313.042	0.4133	ppb	0.0073	1.8	446.854
Ca 370.602	9728	ppb	23.21	0.2	31800
Cd 226.502	0.3862	ppb	0.0725	18.8	191.792
Co 228.615	144.049	ppb	9.9568	6.9	2247.48
Cr 267.716	0.1561	ppb	0.3757	240.6	123.076
Cu 324.754	2.0024	ppb	0.9731	48.6	410.533
Fe 271.441	31319.1	ppb	47.1344	0.2	64867.1
K 766.491	5753.70	ppb	16.5366	0.3	241444
Mg 279.078	8200.61	ppb	8.7427	0.1	21258.0
Mn 257.610	26915.3	ppb	513.102	1.9	1920770
Mo 202.032	1.8767	ppb	0.1010	5.4	31.5517
Na 330.237	21789.4	ppb	2062.77	9.5	1280.18
Ni 231.604	1.6458	ppb	0.8602	52.3	6.8420
Pb 220.353	10.7112	ppb	3.4956	32.6	59.9815
Sb 206.834	3.8463	ppb	8.2693	215.0	2.3642
Se 196.026	4.9149	ppb	5.6119	114.2	20.4850
Sn 189.925	-0.7223	ppb	1.1958	165.6	-17.3766
Sr 216.596	55.6900	ppb	0.1553	0.3	849.699
Ti 334.941	-0.0040	ppb	0.1207	3006.1	1.8371
Tl 190.794	34.1556	ppb	1.4435	4.2	-14.0200
V 292.401	-0.9915	ppb	0.5806	58.6	-42.4928
Zn 206.200	57.6480	ppb	1.7850	3.1	123.562

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680-90236-c-8-a (Samp) 5/17/2013, 5:19:22 AM Rack 3, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7728u	-0.5100u	-0.4843u
Al 308.215	96.5713	107.520	102.202
As 188.980	0.1330	6.2439	5.9220
B 249.678	4.0233	2.9989	4.0221
Ba 389.178	8.2697	6.9712	8.5066
Be 313.042	-0.0135u	-0.0228u	-0.0179u
Ca 370.602	6838	6905	6811
Cd 226.502	0.4168	0.6844	0.0572
Co 228.615	-0.3074u	0.0516	1.1667
Cr 267.716	0.4325	0.4398	0.9128
Cu 324.754	0.2767	-0.0794u	-0.8183u
Fe 271.441	64.1533	61.1991	63.9042
K 766.491	2043.22	2085.97	2086.47
Mg 279.078	1288.87	1305.17	1293.60
Mn 257.610	18.0632	18.2254	18.0038
Mo 202.032	3.2390	2.6199	1.7929
Na 330.237	8226.52	8406.36	8395.61
Ni 231.604	3.5682	0.8340	2.6216
Pb 220.353	10.2573	3.5896	8.5606
Sb 206.834	-4.5123u	-2.1551u	3.4771
Se 196.026	0.2405	5.5562	2.4879
Sn 189.925	-2.0164u	-2.1054u	-1.4521u
Sr 216.596	37.9068	40.3612	39.0259
Ti 334.941	1.2089	1.1992	1.2908
Tl 190.794	-3.0621u	-8.9062u	1.6609
V 292.401	1.3752	1.0061	1.6888
Zn 206.200	9.7382	10.9035	11.9876

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5890	ppb	0.1596	27.1	-85.0495
Al 308.215	102.098	ppb	5.4749	5.4	222.469
As 188.980	4.0996	ppb	3.4390	83.9	-8.4035
B 249.678	3.6814	ppb	0.5911	16.1	203.646
Ba 389.178	7.9158	ppb	0.8266	10.4	183.829
Be 313.042	-0.0181	ppb	0.0047	25.9	-486.164
Ca 370.602	6852	ppb	48.40	0.7	24060
Cd 226.502	0.3861	ppb	0.3147	81.5	57.0945
Co 228.615	0.3036	ppb	0.7687	253.2	8.9669
Cr 267.716	0.5950	ppb	0.2752	46.3	40.4486
Cu 324.754	-0.2070	ppb	0.5585	269.8	285.509
Fe 271.441	63.0855	ppb	1.6384	2.6	162.100
K 766.491	2071.89	ppb	24.8251	1.2	87121.9
Mg 279.078	1295.88	ppb	8.3843	0.6	3446.76
Mn 257.610	18.0975	ppb	0.1147	0.6	1431.91
Mo 202.032	2.5506	ppb	0.7255	28.4	39.3129
Na 330.237	8342.83	ppb	100.874	1.2	540.022
Ni 231.604	2.3413	ppb	1.3885	59.3	8.4081
Pb 220.353	7.4692	ppb	3.4653	46.4	47.1453
Sb 206.834	-1.0634	ppb	4.1051	386.0	-4.5210
Se 196.026	2.7615	ppb	2.6684	96.6	12.9016
Sn 189.925	-1.8580	ppb	0.3543	19.1	-18.6741
Sr 216.596	39.0980	ppb	1.2288	3.1	589.331
Ti 334.941	1.2330	ppb	0.0503	4.1	375.423
Tl 190.794	-3.4358	ppb	5.2935	154.1	-23.7002
V 292.401	1.3567	ppb	0.3417	25.2	32.8539
Zn 206.200	10.8764	ppb	1.1250	10.3	28.0515

680-90236-c-9-a (Samp) 5/17/2013, 5:24:48 AM Rack 3, Tube 33

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0299u	-0.6390u	-0.7821u
Al 308.215	227.535	229.171	220.828
As 188.980	-3.7832u	7.6778	-1.6906u
B 249.678	3.4709	3.5669	4.4617
Ba 389.178	28.0370	29.6466	29.7679
Be 313.042	0.0126	0.0288	0.0048
Ca 370.602	12893	12880	12810
Cd 226.502	0.5331	0.1686	0.2576
Co 228.615	2.2931	1.4984	0.7595
Cr 267.716	4.3291	4.1955	4.4382
Cu 324.754	2.4712	3.4089	0.8328
Fe 271.441	267.147	270.422	261.477
K 766.491	5725.12	5781.16	5701.26
Mg 279.078	2170.47	2313.88	2359.07
Mn 257.610	150.053	151.041	150.473
Mo 202.032	2.6205	1.7794	3.5062
Na 330.237	11014.2	11312.1	11386.1
Ni 231.604	4.7934	2.9642	2.7914
Pb 220.353	9.2336	6.6108	7.3875
Sb 206.834	9.0951	9.2900	0.5221
Se 196.026	-1.3632u	-5.6380u	3.7290
Sn 189.925	-4.9039u	-5.5119u	-0.6927u
Sr 216.596	82.4776	83.4354	83.1286
Ti 334.941	4.7416	4.6427	4.6881
Tl 190.794	-8.9244u	-8.7890u	-9.5465u
V 292.401	1.5659	2.0065	2.3150
Zn 206.200	67.2161	66.5056	62.7659

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8170	ppb	0.1978	24.2	-107.777
Al 308.215	225.844	ppb	4.4210	2.0	512.886
As 188.980	0.7347	ppb	6.1033	830.7	-10.7280
B 249.678	3.8332	ppb	0.5465	14.3	205.695
Ba 389.178	29.1505	ppb	0.9662	3.3	746.049
Be 313.042	0.0154	ppb	0.0123	79.8	-411.078
Ca 370.602	12861	ppb	44.53	0.3	45138
Cd 226.502	0.3198	ppb	0.1900	59.4	54.7843
Co 228.615	1.5170	ppb	0.7670	50.6	28.0196
Cr 267.716	4.3209	ppb	0.1216	2.8	261.539
Cu 324.754	2.2376	ppb	1.3038	58.3	412.786
Fe 271.441	266.349	ppb	4.5253	1.7	582.950
K 766.491	5735.85	ppb	41.0142	0.7	240696
Mg 279.078	2281.14	ppb	98.4677	4.3	6038.67
Mn 257.610	150.522	ppb	0.4961	0.3	10884.1
Mo 202.032	2.6353	ppb	0.8635	32.8	40.0299
Na 330.237	11237.5	ppb	196.877	1.8	701.179
Ni 231.604	3.5163	ppb	1.1093	31.5	12.6201
Pb 220.353	7.7440	ppb	1.3472	17.4	47.7953
Sb 206.834	6.3024	ppb	5.0069	79.4	4.4535
Se 196.026	-1.0907	ppb	4.6894	429.9	10.4553
Sn 189.925	-3.7028	ppb	2.6245	70.9	-20.7651
Sr 216.596	83.0139	ppb	0.4891	0.6	1230.49
Ti 334.941	4.6908	ppb	0.0495	1.1	1541.68
Tl 190.794	-9.0866	ppb	0.4040	4.4	-30.0501
V 292.401	1.9624	ppb	0.3765	19.2	52.1516
Zn 206.200	65.4959	ppb	2.3998	3.7	134.479

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680-90236-c-10-a (Samp) **5/17/2013, 5:30:25 AM** **Rack 3, Tube 34****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9263u	-0.8138u	0.4287
Al 308.215	87.5475	80.5859	95.4435
As 188.980	10.5114	6.4805	11.3762
B 249.678	1.9901	2.6455	1.3065
Ba 389.178	23.7913	22.4975	24.0739
Be 313.042	0.0382	0.0195	0.0268
Ca 370.602	15638	15676	15654
Cd 226.502	0.3045	0.4516	0.2828
Co 228.615	1.9281	1.7240	2.4128
Cr 267.716	0.3147	0.4253	0.1737
Cu 324.754	-0.3927u	0.2132	0.4466
Fe 271.441	78.1844	69.2048	79.9068
K 766.491	2639.68	2621.79	2656.66
Mg 279.078	2750.79	2725.67	2760.37
Mn 257.610	2375.31	2308.87	2254.23
Mo 202.032	2.0180	2.5013	3.9752
Na 330.237	6792.93	6886.41	7139.19
Ni 231.604	4.0813	4.6195	1.2279
Pb 220.353	2.3062	2.9988	3.1384
Sb 206.834	5.7325	1.8120	0.3652
Se 196.026	-1.1601u	4.7285	5.5323
Sn 189.925	5.8325	0.5652	-1.7299u
Sr 216.596	95.5399	94.0341	93.6816
Ti 334.941	0.1492	0.2055	0.0860
Tl 190.794	-6.6389u	1.9748u	-3.9583u
V 292.401	1.5661	1.3761	1.8887
Zn 206.200	7.6646	8.3524	8.6423

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4371	ppb	0.7520	172.0	-67.0745
Al 308.215	87.8589	ppb	7.4337	8.5	189.052
As 188.980	9.4560	ppb	2.6129	27.6	-4.5004
B 249.678	1.9807	ppb	0.6695	33.8	176.881
Ba 389.178	23.4542	ppb	0.8405	3.6	597.205
Be 313.042	0.0282	ppb	0.0094	33.5	-381.872
Ca 370.602	15656	ppb	18.99	0.1	55014
Cd 226.502	0.3463	ppb	0.0919	26.5	55.2056
Co 228.615	2.0216	ppb	0.3538	17.5	35.6956
Cr 267.716	0.3046	ppb	0.1261	41.4	31.1321
Cu 324.754	0.0890	ppb	0.4332	486.8	300.912
Fe 271.441	75.7653	ppb	5.7465	7.6	188.660
K 766.491	2639.38	ppb	17.4377	0.7	110908
Mg 279.078	2745.61	ppb	17.9207	0.7	7233.16
Mn 257.610	2312.81	ppb	60.6333	2.6	165178
Mo 202.032	2.8315	ppb	1.0195	36.0	41.7377
Na 330.237	6939.51	ppb	179.136	2.6	461.659
Ni 231.604	3.3096	ppb	1.8227	55.1	11.8737
Pb 220.353	2.8145	ppb	0.4457	15.8	36.9890
Sb 206.834	2.6366	ppb	2.7771	105.3	-0.0399
Se 196.026	3.0336	ppb	3.6540	120.5	13.5530
Sn 189.925	1.5559	ppb	3.8773	249.2	-14.7900
Sr 216.596	94.4186	ppb	0.9870	1.0	1396.97
Ti 334.941	0.1469	ppb	0.0598	40.7	19.0974
Tl 190.794	-2.8741	ppb	4.4080	153.4	-25.4752
V 292.401	1.6103	ppb	0.2591	16.1	41.0179
Zn 206.200	8.2198	ppb	0.5021	6.1	22.8767

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680-90236-c-12-a (Samp) **5/17/2013, 5:35:53 AM** **Rack 3, Tube 35**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2438u	0.4286u	-0.1391u
Al 308.215	6607.81	6624.32	6610.48
As 188.980	7.8558	16.6943	9.8323
B 249.678	55.7379	57.3155	55.5317
Ba 389.178	145.787	148.952	148.897
Be 313.042	0.0320u	0.0256u	0.0520u
Ca 370.602	18591	18685	18612
Cd 226.502	1.2288	0.3147	1.0449
Co 228.615	9.3208	9.7951	9.2218
Cr 267.716	11.5394	11.2852	11.3262
Cu 324.754	86.5434	86.8886	87.4419
Fe 271.441	140.985	123.672	136.109
K 766.491	686547o	688838o	687499x
Mg 279.078	28.5392	35.5018	26.7154
Mn 257.610	6.4289	6.9008	6.6702
Mo 202.032	61.7701	61.8695	62.0455
Na 330.237	1154573x	1155494x	1144797x
Ni 231.604	49.9096	53.8260	53.1762
Pb 220.353	7.0433	13.8718	9.6168
Sb 206.834	2.8164	5.9344	5.2771
Se 196.026	16.8583	18.5415	7.7731
Sn 189.925	108.322	111.495	106.622
Sr 216.596	3256.97	3279.40	3250.55
Ti 334.941	0.4500	0.4441	0.4240
Tl 190.794	-13.8598u	-11.5703u	-9.3520u
V 292.401	84.6113	85.4372	86.4198
Zn 206.200	16.0763	13.5670	16.1034

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0152b	ppb	0.3618	2374.7	-233.003
Al 308.215	6614.20b	ppb	8.8624	0.1	15509.3
As 188.980	11.4608b	ppb	4.6388	40.5	-3.0638
B 249.678	56.1950b	ppb	0.9758	1.7	1031.69
Ba 389.178	147.879b	ppb	1.8119	1.2	3863.66
Be 313.042	0.0366b	ppb	0.0138	37.6	-560.206
Ca 370.602	18629b	ppb	49.43	0.3	65399
Cd 226.502	0.8628b	ppb	0.4835	56.0	72.6740
Co 228.615	9.4459b	ppb	0.3065	3.2	148.880
Cr 267.716	11.3836b	ppb	0.1365	1.2	701.915
Cu 324.754	86.9580b	ppb	0.4533	0.5	4822.72
Fe 271.441	133.589b	ppb	8.9276	6.7	310.544
K 766.491	687628oxb	ppb	1150.85	0.2	28822010
Mg 279.078	30.2521b	ppb	4.6369	15.3	112.355
Mn 257.610	6.6666b	ppb	0.2360	3.5	611.212
Mo 202.032	61.8950b	ppb	0.1395	0.2	551.551
Na 330.237	1151621xb	ppb	5927.88	0.5	64406.7
Ni 231.604	52.3039b	ppb	2.0988	4.0	187.232
Pb 220.353	10.1773b	ppb	3.4486	33.9	53.3865
Sb 206.834	4.6760b	ppb	1.6436	35.2	1.4679
Se 196.026	14.3909b	ppb	5.7927	40.3	20.3656
Sn 189.925	108.813b	ppb	2.4733	2.3	107.618
Sr 216.596	3262.31b	ppb	15.1475	0.5	47567.7
Ti 334.941	0.4394b	ppb	0.0136	3.1	1.0355
Tl 190.794	-11.5940b	ppb	2.2540	19.4	-32.6395
V 292.401	85.4894b	ppb	0.9054	1.1	2710.89
Zn 206.200	15.2489b	ppb	1.4566	9.6	26.5381

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680-90236-c-13-a (Samp) **5/17/2013, 5:41:20 AM** **Rack 3, Tube 36**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.1054u	-0.1327u	-0.9733u
Al 308.215	335.497	330.801	313.057
As 188.980	4.3765	5.5360	9.2552
B 249.678	27.4444	27.6141	26.0617
Ba 389.178	156.455	155.776	154.362
Be 313.042	0.0196	0.0122	0.0092
Ca 370.602	35791	35550	35697
Cd 226.502	0.5859	0.5622	0.2922
Co 228.615	3.1216	-0.0080u	0.9594
Cr 267.716	2.9397	2.2505	2.7682
Cu 324.754	12.6133	11.6921	10.7852
Fe 271.441	3706.59	3702.94	3665.74
K 766.491	9267.80	9099.24	9038.66
Mg 279.078	1572.62	1559.93	1559.40
Mn 257.610	254.203	254.134	251.429
Mo 202.032	4.8722	3.8198	3.0856
Na 330.237	6077.06	6000.25	5541.27
Ni 231.604	5.2644	4.0014	2.0815
Pb 220.353	18.1001	15.2646	10.6328
Sb 206.834	7.8321	7.5481	9.5675
Se 196.026	11.4667	-0.2506u	5.6534
Sn 189.925	-1.0077u	-2.2549u	-1.3591u
Sr 216.596	100.926	99.1748	100.410
Ti 334.941	8.1736	7.5515	7.5317
Tl 190.794	-5.4104u	-1.0997u	-3.0246u
V 292.401	7.4853	7.3424	6.4172
Zn 206.200	317.829	310.611	307.563

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7371	ppb	0.5276	71.6	-101.427
Al 308.215	326.451	ppb	11.8352	3.6	749.050
As 188.980	6.3892	ppb	2.5488	39.9	-6.4522
B 249.678	27.0401	ppb	0.8515	3.1	565.175
Ba 389.178	155.531	ppb	1.0680	0.7	4075.31
Be 313.042	0.0137	ppb	0.0054	39.1	-404.840
Ca 370.602	35679	ppb	121.5	0.3	124920
Cd 226.502	0.4801	ppb	0.1631	34.0	77.6192
Co 228.615	1.3576	ppb	1.6024	118.0	25.4064
Cr 267.716	2.6528	ppb	0.3588	13.5	164.038
Cu 324.754	11.6969	ppb	0.9141	7.8	906.159
Fe 271.441	3691.76	ppb	22.6042	0.6	7671.19
K 766.491	9135.23	ppb	118.734	1.3	383180
Mg 279.078	1563.98	ppb	7.4850	0.5	4150.35
Mn 257.610	253.255	ppb	1.5818	0.6	18216.1
Mo 202.032	3.9259	ppb	0.8980	22.9	50.9446
Na 330.237	5872.86	ppb	289.723	4.9	398.279
Ni 231.604	3.7824	ppb	1.6027	42.4	13.6757
Pb 220.353	14.6658	ppb	3.7695	25.7	63.5692
Sb 206.834	8.3159	ppb	1.0932	13.1	6.9493
Se 196.026	5.6232	ppb	5.8587	104.2	14.8145
Sn 189.925	-1.5406	ppb	0.6431	41.7	-18.2965
Sr 216.596	100.170	ppb	0.8998	0.9	1485.88
Ti 334.941	7.7523	ppb	0.3650	4.7	2566.37
Tl 190.794	-3.1782	ppb	2.1595	67.9	-23.8647
V 292.401	7.0816	ppb	0.5799	8.2	216.593
Zn 206.200	312.001	ppb	5.2722	1.7	615.228

680-90236-c-14-a (Samp) 5/17/2013, 5:57:40 AM Rack 3, Tube 39
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5870u	-1.9992u	-1.7945u
Al 308.215	188.111	199.470	190.566
As 188.980	-0.6009	9.1753	-1.2250u
B 249.678	7.2116	8.8653	6.3216
Ba 389.178	124.862	125.191	122.051
Be 313.042	0.0605	0.0558	0.0716
Ca 370.602	58799	49770	58991
Cd 226.502	0.8616	0.7929	0.8198
Co 228.615	5.3624	5.6099	3.2914
Cr 267.716	0.7477	0.9603	0.6022
Cu 324.754	0.2155	-0.4742u	0.2157
Fe 271.441	2566.98	2605.04	2527.85
K 766.491	5034.54	5119.90	5067.78
Mg 279.078	11175.7	11279.1	11061.9
Mn 257.610	10753.2	11061.2	10695.6
Mo 202.032	3.4300	2.3416	2.8964
Na 330.237	13539.8	13728.2	13572.3
Ni 231.604	3.9452	1.8808	3.1225
Pb 220.353	6.0640	15.1269	12.2000
Sb 206.834	4.6076	10.6459	0.2317
Se 196.026	3.8251	0.6730	19.5555
Sn 189.925	-7.8689u	-7.4861u	1.7833
Sr 216.596	246.246	247.688	242.495
Ti 334.941	3.5383	3.6814	3.4541
Tl 190.794	3.6894u	-3.1337u	-1.0560u
V 292.401	0.0248	-0.1938u	-0.4288u
Zn 206.200	30.1340	31.6867	30.9508

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7936	ppb	0.2061	11.5	-173.869
Al 308.215	192.716	ppb	5.9766	3.1	435.152
As 188.980	2.4498	ppb	5.8328	238.1	-9.0191
B 249.678	7.4662	ppb	1.2908	17.3	258.956
Ba 389.178	124.035	ppb	1.7255	1.4	3274.54
Be 313.042	0.0626	ppb	0.0081	13.0	-290.768
Ca 370.602	55853	ppb	5269	9.4	196021
Cd 226.502	0.8248	ppb	0.0346	4.2	89.7422
Co 228.615	4.7546	ppb	1.2731	26.8	78.3060
Cr 267.716	0.7701	ppb	0.1801	23.4	83.2138
Cu 324.754	-0.0143	ppb	0.3982	2779.6	296.384
Fe 271.441	2566.62	ppb	38.5932	1.5	5343.51
K 766.491	5074.07	ppb	43.0282	0.8	212958
Mg 279.078	11172.3	ppb	108.656	1.0	29326.6
Mn 257.610	10836.7	ppb	196.582	1.8	773438
Mo 202.032	2.8893	ppb	0.5442	18.8	42.0794
Na 330.237	13613.4	ppb	100.670	0.7	833.381
Ni 231.604	2.9828	ppb	1.0393	34.8	10.7810
Pb 220.353	11.1303	ppb	4.6252	41.6	57.2270
Sb 206.834	5.1617	ppb	5.2291	101.3	3.1052
Se 196.026	8.0179	ppb	10.1154	126.2	18.1944
Sn 189.925	-4.5239	ppb	5.4656	120.8	-21.6689
Sr 216.596	245.476	ppb	2.6810	1.1	3606.71
Ti 334.941	3.5580	ppb	0.1149	3.2	1211.93
Tl 190.794	-0.1668	ppb	3.4974	2097.3	-29.7845
V 292.401	-0.1992	ppb	0.2268	113.8	-17.0424
Zn 206.200	30.9238	ppb	0.7767	2.5	67.4710

680-90281-a-1-a (Samp) 5/17/2013, 6:03:08 AM Rack 3, Tube 40
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4867u	-0.3269u	-0.6834u
Al 308.215	101.712	103.094	93.8749
As 188.980	7.2483	2.9595	-2.5236u
B 249.678	351.084	353.626	351.430
Ba 389.178	328.940	326.235	322.494
Be 313.042	-0.0217u	-0.0195u	-0.0059
Ca 370.602	115480	116708	117532
Cd 226.502	0.9698	0.4291	0.5649
Co 228.615	-1.5236u	-1.4380u	-1.5872u
Cr 267.716	-0.1795	0.1223	-0.2660u
Cu 324.754	-0.5634u	-0.3453u	0.4475
Fe 271.441	11358.4	11327.4	11272.6
K 766.491	36550.0	36395.7	36271.5
Mg 279.078	55568.6	55669.1	55339.3
Mn 257.610	1235.01	1238.04	1240.22
Mo 202.032	3.4823	2.9676	2.2355
Na 330.237	209443x	199552x	206190x
Ni 231.604	-0.1599u	0.5524	4.8924
Pb 220.353	12.2402	7.2033	11.3217
Sb 206.834	3.5129	-2.5003u	-7.2808u
Se 196.026	4.5188	-3.4947u	19.7166
Sn 189.925	-1.7481u	-0.1437	0.6905
Sr 216.596	962.748	959.181	955.052
Ti 334.941	-0.2676	-0.1829	-0.1897
Tl 190.794	-9.6622u	-5.7672u	-4.1647u
V 292.401	0.5714	0.7984	0.5921
Zn 206.200	3.2269	0.8217	3.2141

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4990b	ppb	0.1786	35.8	-134.401
Al 308.215	99.5603b	ppb	4.9720	5.0	216.507
As 188.980	2.5614b	ppb	4.8981	191.2	-8.2672
B 249.678	352.047b	ppb	1.3786	0.4	5666.44
Ba 389.178	325.889b	ppb	3.2369	1.0	8740.09
Be 313.042	-0.0157b	ppb	0.0086	54.7	-461.675
Ca 370.602	116573b	ppb	1033	0.9	408167
Cd 226.502	0.6546b	ppb	0.2813	43.0	119.983
Co 228.615	-1.5162b	ppb	0.0749	4.9	-19.9366
Cr 267.716	-0.1077b	ppb	0.2039	189.2	10.0131
Cu 324.754	-0.1537b	ppb	0.5320	346.1	292.035
Fe 271.441	11319.5b	ppb	43.4355	0.4	23454.7
K 766.491	36405.7b	ppb	139.533	0.4	1526214
Mg 279.078	55525.6b	ppb	169.031	0.3	146185
Mn 257.610	1237.76b	ppb	2.6180	0.2	88616.8
Mo 202.032	2.8951b	ppb	0.6265	21.6	41.5627
Na 330.237	205062xb	ppb	5040.93	2.5	11525.4
Ni 231.604	1.7616b	ppb	2.7346	155.2	6.6777
Pb 220.353	10.2551b	ppb	2.6825	26.2	53.6862
Sb 206.834	-2.0894b	ppb	5.4086	258.9	-5.4292
Se 196.026	6.9136b	ppb	11.7895	170.5	15.8751
Sn 189.925	-0.4004b	ppb	1.2394	309.5	-16.8589
Sr 216.596	958.994b	ppb	3.8515	0.4	14021.1
Ti 334.941	-0.2134b	ppb	0.0470	22.0	182.961
Tl 190.794	-6.5314b	ppb	2.8273	43.3	-28.8724
V 292.401	0.6540b	ppb	0.1255	19.2	9.4360
Zn 206.200	2.4209b	ppb	1.3849	57.3	13.2190

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680-90281-a-2-a (Samp) **5/17/2013, 6:08:35 AM** **Rack 3, Tube 41****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3274u	-0.8411u	-0.3133u
Al 308.215	76.4308	88.5535	97.5035
As 188.980	9.0732	4.0503	3.2391
B 249.678	333.211	337.023	337.191
Ba 389.178	314.638	303.920	304.915
Be 313.042	-0.0365u	-0.0657u	-0.0457u
Ca 370.602	175773	173577	174161
Cd 226.502	0.4140	0.2324	0.7263
Co 228.615	-0.4172u	-0.8468u	-0.7722u
Cr 267.716	0.2572	-0.2392u	0.4881
Cu 324.754	-0.1866u	-0.4585u	0.4772
Fe 271.441	10771.6	10777.7	10737.8
K 766.491	34006.7	34191.1	34392.8
Mg 279.078	53765.4	53398.9	53381.5
Mn 257.610	1079.01	1085.80	1080.70
Mo 202.032	2.9781	2.8054	2.5105
Na 330.237	198044x	194567x	196374x
Ni 231.604	5.5078	4.2537	3.1780
Pb 220.353	10.1280	3.2303	12.5026
Sb 206.834	13.7988	5.8924	3.5082
Se 196.026	23.7252	8.5956	-1.4000u
Sn 189.925	-2.5670u	-5.4931u	3.8795
Sr 216.596	901.035	900.471	897.038
Ti 334.941	-0.2757	-0.3961	-0.2997
Tl 190.794	-8.8758u	-6.9938u	-7.8277u
V 292.401	0.3847	-0.0972u	-0.3469u
Zn 206.200	8.3973	6.6890	7.8533

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8273b	ppb	0.5072	61.3	-159.127
Al 308.215	87.4959b	ppb	10.5761	12.1	188.197
As 188.980	5.4542b	ppb	3.1603	57.9	-5.5908
B 249.678	335.808b	ppb	2.2508	0.7	5412.04
Ba 389.178	307.824b	ppb	5.9215	1.9	8257.12
Be 313.042	-0.0493b	ppb	0.0150	30.4	-508.007
Ca 370.602	174504b	ppb	1138	0.7	611597
Cd 226.502	0.4576b	ppb	0.2498	54.6	107.432
Co 228.615	-0.6788b	ppb	0.2295	33.8	-6.8591
Cr 267.716	0.1687b	ppb	0.3716	220.3	25.8089
Cu 324.754	-0.0560b	ppb	0.4813	860.0	296.906
Fe 271.441	10762.4b	ppb	21.5281	0.2	22302.0
K 766.491	34196.8b	ppb	193.084	0.6	1433630
Mg 279.078	53515.2b	ppb	216.783	0.4	140893
Mn 257.610	1081.84b	ppb	3.5316	0.3	77485.1
Mo 202.032	2.7647b	ppb	0.2365	8.6	40.4809
Na 330.237	196328xb	ppb	1738.87	0.9	11037.7
Ni 231.604	4.3132b	ppb	1.1660	27.0	15.7893
Pb 220.353	8.6203b	ppb	4.8165	55.9	49.9536
Sb 206.834	7.7331b	ppb	5.3866	69.7	6.4484
Se 196.026	10.3069b	ppb	12.6497	122.7	18.0359
Sn 189.925	-1.3935b	ppb	4.7952	344.1	-17.9543
Sr 216.596	899.515b	ppb	2.1632	0.2	13162.5
Ti 334.941	-0.3239b	ppb	0.0637	19.7	134.748
Tl 190.794	-7.8991b	ppb	0.9431	11.9	-30.2732
V 292.401	-0.0198b	ppb	0.3719	1879.9	-12.2090
Zn 206.200	7.6465b	ppb	0.8727	11.4	23.3012

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680-90332-c-1-a (Samp) 5/17/2013, 6:14:02 AM Rack 3, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8450u	-0.7453u	-1.1151u
Al 308.215	70.2930	77.3368	81.3963
As 188.980	5.8354	-0.6599	14.8801
B 249.678	20.2622	19.5231	18.9262
Ba 389.178	118.462	118.629	120.211
Be 313.042	-0.0732u	-0.0588u	-0.0781u
Ca 370.602	166773	165896	165117
Cd 226.502	0.6637	0.4064	0.3300
Co 228.615	0.5288	-1.8362u	-1.1777u
Cr 267.716	0.3290	0.4088	0.3736
Cu 324.754	0.9356	-0.9727u	-1.2960u
Fe 271.441	21.9367	2.2854	5.0088
K 766.491	1069.62	1070.69	1062.39
Mg 279.078	86853.4	86444.6	86413.0
Mn 257.610	-0.9506	-1.9575	-1.2995
Mo 202.032	4.9059	4.4428	2.7261
Na 330.237	16758.2	17877.5	17909.0
Ni 231.604	0.9806	1.5483	1.5809
Pb 220.353	5.5012	7.0663	3.8099
Sb 206.834	-1.8033u	1.7191	3.6039
Se 196.026	-12.1721u	-16.0088u	-7.6624u
Sn 189.925	0.1459	-4.0969u	-2.2728u
Sr 216.596	196.727	195.947	195.829
Ti 334.941	-0.8662	-0.9946	-0.9181
Tl 190.794	-15.2519u	-8.5042u	-13.5577u
V 292.401	0.4123	-0.3495u	0.4980
Zn 206.200	10.0561	8.1498	7.2142

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9018	ppb	0.1913	21.2	-124.904
Al 308.215	76.3420	ppb	5.6181	7.4	162.112
As 188.980	6.6852	ppb	7.8048	116.7	-4.8840
B 249.678	19.5705	ppb	0.6692	3.4	453.748
Ba 389.178	119.101	ppb	0.9650	0.8	3375.59
Be 313.042	-0.0700	ppb	0.0101	14.4	-535.310
Ca 370.602	165929	ppb	828.3	0.5	582505
Cd 226.502	0.4667	ppb	0.1748	37.5	62.2141
Co 228.615	-0.8283	ppb	1.2206	147.4	-8.7678
Cr 267.716	0.3705	ppb	0.0400	10.8	27.2820
Cu 324.754	-0.4444	ppb	1.2060	271.4	273.195
Fe 271.441	9.7436	ppb	10.6470	109.3	51.4975
K 766.491	1067.57	ppb	4.5133	0.4	45026.1
Mg 279.078	86570.3	ppb	245.648	0.3	227915
Mn 257.610	-1.4026	ppb	0.5113	36.5	266.569
Mo 202.032	4.0249	ppb	1.1484	28.5	52.0489
Na 330.237	17514.9	ppb	655.520	3.7	1052.44
Ni 231.604	1.3699	ppb	0.3376	24.6	4.9302
Pb 220.353	5.4591	ppb	1.6286	29.8	42.5643
Sb 206.834	1.1733	ppb	2.7446	233.9	-1.8411
Se 196.026	-11.9477	ppb	4.1777	35.0	3.4541
Sn 189.925	-2.0746	ppb	2.1283	102.6	-18.8168
Sr 216.596	196.168	ppb	0.4878	0.2	2902.49
Ti 334.941	-0.9263	ppb	0.0646	7.0	134.604
Tl 190.794	-12.4379	ppb	3.5104	28.2	-33.5773
V 292.401	0.1869	ppb	0.4665	249.6	-3.9161
Zn 206.200	8.4734	ppb	1.4483	17.1	23.3639

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680-90332-c-2-a (Samp) **5/17/2013, 6:19:29 AM** **Rack 3, Tube 43****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8530u	-1.4198u	-1.1194u
Al 308.215	87.9664	73.5614	90.9299
As 188.980	1.1087	-2.2899u	-3.2533u
B 249.678	20.6117	20.8988	19.9099
Ba 389.178	148.166	146.906	144.217
Be 313.042	-0.0479u	-0.0433u	-0.0232
Ca 370.602	134723	136120	133300
Cd 226.502	0.4510	0.3964	0.8680
Co 228.615	0.6620	0.0058u	-0.3409u
Cr 267.716	0.5840	0.5350	-0.0450u
Cu 324.754	1.5151	-0.0865u	0.4061
Fe 271.441	20.9803	16.1099	15.1576
K 766.491	2012.62	2002.12	1972.71
Mg 279.078	87792.1	87456.5	86277.8
Mn 257.610	6.3157	5.9436	5.6031
Mo 202.032	3.5969	3.5604	3.4693
Na 330.237	15674.7	15038.5	14799.3
Ni 231.604	3.3453	2.7525	3.7060
Pb 220.353	-0.3328u	9.2514	6.7510
Sb 206.834	-10.7564u	0.1805	-5.2414u
Se 196.026	-3.0199u	18.1112	11.8200
Sn 189.925	-2.3187u	4.8583	2.4598
Sr 216.596	290.805	288.088	282.937
Ti 334.941	-1.0711	-1.1570	-1.0563
Tl 190.794	-11.1280u	-12.6334u	-12.5353u
V 292.401	-0.3487u	-0.0549u	-0.2289u
Zn 206.200	7.8230	10.5673	9.7692

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1307	ppb	0.2836	25.1	-151.107
Al 308.215	84.1526	ppb	9.2911	11.0	180.412
As 188.980	-1.4782	ppb	2.2915	155.0	-10.9826
B 249.678	20.4735	ppb	0.5087	2.5	467.953
Ba 389.178	146.430	ppb	2.0169	1.4	4096.77
Be 313.042	-0.0381	ppb	0.0131	34.5	-477.503
Ca 370.602	134714	ppb	1410	1.0	472926
Cd 226.502	0.5718	ppb	0.2580	45.1	67.3667
Co 228.615	0.1090	ppb	0.5093	467.3	5.8591
Cr 267.716	0.3580	ppb	0.3499	97.7	26.5239
Cu 324.754	0.6116	ppb	0.8203	134.1	328.135
Fe 271.441	17.4159	ppb	3.1233	17.9	67.5445
K 766.491	1995.82	ppb	20.6874	1.0	83933.5
Mg 279.078	87175.5	ppb	795.332	0.9	229507
Mn 257.610	5.9541	ppb	0.3564	6.0	793.122
Mo 202.032	3.5422	ppb	0.0657	1.9	47.8808
Na 330.237	15170.8	ppb	452.447	3.0	921.487
Ni 231.604	3.2680	ppb	0.4814	14.7	11.7234
Pb 220.353	5.2232	ppb	4.9714	95.2	42.0293
Sb 206.834	-5.2724	ppb	5.4686	103.7	-9.6353
Se 196.026	8.9705	ppb	10.8499	121.0	16.8852
Sn 189.925	1.6665	ppb	3.6537	219.2	-14.5841
Sr 216.596	287.277	ppb	3.9962	1.4	4226.31
Ti 334.941	-1.0948	ppb	0.0544	5.0	81.9385
Tl 190.794	-12.0989	ppb	0.8422	7.0	-33.2109
V 292.401	-0.2108	ppb	0.1477	70.1	-16.5313
Zn 206.200	9.3865	ppb	1.4116	15.0	25.1436

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680-90332-c-3-a (Samp) **5/17/2013, 6:24:56 AM** **Rack 3, Tube 44****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7140u	0.1860	-1.0884u
Al 308.215	88.0193	106.374	118.858
As 188.980	7.8992	-1.1931	0.0044
B 249.678	9.7869	9.0123	7.7917
Ba 389.178	71.4071	71.0337	71.4801
Be 313.042	-0.0552u	-0.0499u	-0.0486u
Ca 370.602	105777	105796	105501
Cd 226.502	0.4859	0.2640	0.3523
Co 228.615	-0.0861u	-0.4573u	-1.3868u
Cr 267.716	9.5927	9.7489	9.8070
Cu 324.754	0.0563	-1.7683u	-0.0189u
Fe 271.441	8.4422	6.0973	9.0538
K 766.491	861.303	853.753	857.294
Mg 279.078	59569.6	58830.6	59144.4
Mn 257.610	-0.2705	-0.4941	-0.5417
Mo 202.032	3.9464	3.3497	3.6182
Na 330.237	10673.7	11485.5	11591.4
Ni 231.604	2.6267	3.5710	2.1741
Pb 220.353	14.1216	2.2593	7.8701
Sb 206.834	2.2960	5.5527	7.7506
Se 196.026	5.0893	5.9116	-1.9129u
Sn 189.925	-1.0574u	-0.5800u	-2.7619u
Sr 216.596	146.788	143.097	142.135
Ti 334.941	-0.6916	-0.6410	-0.7018
Tl 190.794	-4.1936u	-4.9023u	-7.2419u
V 292.401	0.5892	-0.0067u	0.4523
Zn 206.200	12.2864	10.3226	11.3365

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5388	ppb	0.6550	121.6	-88.7149
Al 308.215	104.417	ppb	15.5123	14.9	227.935
As 188.980	2.2369	ppb	4.9402	220.9	-8.6641
B 249.678	8.8636	ppb	1.0059	11.3	285.263
Ba 389.178	71.3070	ppb	0.2395	0.3	2032.53
Be 313.042	-0.0512	ppb	0.0035	6.8	-517.474
Ca 370.602	105691	ppb	165.1	0.2	371041
Cd 226.502	0.3674	ppb	0.1117	30.4	56.9651
Co 228.615	-0.6434	ppb	0.6700	104.1	-5.7970
Cr 267.716	9.7162	ppb	0.1108	1.1	580.350
Cu 324.754	-0.5769	ppb	1.0324	178.9	266.260
Fe 271.441	7.8644	ppb	1.5606	19.8	47.6665
K 766.491	857.450	ppb	3.7775	0.4	36219.1
Mg 279.078	59181.5	ppb	370.943	0.6	155819
Mn 257.610	-0.4354	ppb	0.1448	33.3	262.978
Mo 202.032	3.6381	ppb	0.2988	8.2	48.7082
Na 330.237	11250.2	ppb	502.112	4.5	702.457
Ni 231.604	2.7906	ppb	0.7127	25.5	10.0148
Pb 220.353	8.0836	ppb	5.9340	73.4	48.5406
Sb 206.834	5.1998	ppb	2.7444	52.8	3.1676
Se 196.026	3.0293	ppb	4.2998	141.9	13.0694
Sn 189.925	-1.4664	ppb	1.1470	78.2	-18.1649
Sr 216.596	144.007	ppb	2.4561	1.7	2133.48
Ti 334.941	-0.6781	ppb	0.0326	4.8	62.8450
Tl 190.794	-5.4459	ppb	1.5952	29.3	-25.8897
V 292.401	0.3449	ppb	0.3121	90.5	0.4253
Zn 206.200	11.3152	ppb	0.9821	8.7	28.8651

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680-90332-c-4-a (Samp) 5/17/2013, 6:30:23 AM Rack 3, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2124u	-0.9881u	-0.8755u
Al 308.215	98.5497	92.8877	86.2023
As 188.980	-1.7255	1.4298	9.9001
B 249.678	11.4010	11.9514	9.8957
Ba 389.178	129.094	129.228	125.084
Be 313.042	-0.0587u	-0.0640u	-0.0623u
Ca 370.602	136244	136138	133739
Cd 226.502	0.4027	0.2745	0.4118
Co 228.615	-0.7049u	-0.8246u	-1.8360u
Cr 267.716	0.8056	0.7042	0.4993
Cu 324.754	-0.3005u	-1.1129u	-1.9774u
Fe 271.441	16.3846	15.8245	10.5697
K 766.491	1167.16	1146.53	1114.41
Mg 279.078	97909.2	97437.5	96631.6
Mn 257.610	-2.3255	-2.1299	-2.6150
Mo 202.032	2.9734	3.5775	3.2989
Na 330.237	24204.1	24567.5	23627.1
Ni 231.604	3.5927	4.4241	4.1469
Pb 220.353	7.3640	2.5352	8.2905
Sb 206.834	-7.3330u	-2.1716u	-6.2639u
Se 196.026	11.3176	-0.7822u	-9.5646u
Sn 189.925	-0.0040	1.4055	-1.1393u
Sr 216.596	247.088	247.256	244.101
Ti 334.941	-1.2813	-1.2693	-1.2138
Tl 190.794	-17.3261u	-9.3093u	-1.3216u
V 292.401	0.2941	-0.1610u	-0.3297u
Zn 206.200	5.8315	5.9516	6.8859

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6920	ppb	0.4191	60.6	-109.474
Al 308.215	92.5466	ppb	6.1808	6.7	200.089
As 188.980	3.2015	ppb	6.0119	187.8	-7.6962
B 249.678	11.0827	ppb	1.0642	9.6	320.186
Ba 389.178	127.802	ppb	2.3546	1.8	3638.16
Be 313.042	-0.0617	ppb	0.0027	4.4	-532.114
Ca 370.602	135374	ppb	1417	1.0	475241
Cd 226.502	0.3630	ppb	0.0768	21.1	57.3118
Co 228.615	-1.1218	ppb	0.6214	55.4	-13.2990
Cr 267.716	0.6697	ppb	0.1560	23.3	45.1325
Cu 324.754	-1.1303	ppb	0.8386	74.2	237.475
Fe 271.441	14.2596	ppb	3.2078	22.5	60.7911
K 766.491	1142.70	ppb	26.5814	2.3	48175.2
Mg 279.078	97326.1	ppb	646.064	0.7	256227
Mn 257.610	-2.3568	ppb	0.2440	10.4	226.808
Mo 202.032	3.2833	ppb	0.3024	9.2	45.6455
Na 330.237	24132.9	ppb	474.215	2.0	1422.16
Ni 231.604	4.0546	ppb	0.4233	10.4	14.5386
Pb 220.353	6.0632	ppb	3.0903	51.0	43.9414
Sb 206.834	-5.2562	ppb	2.7243	51.8	-9.6062
Se 196.026	0.3236	ppb	10.4849	3240.2	11.3322
Sn 189.925	0.0874	ppb	1.2749	1458.7	-16.3768
Sr 216.596	246.149	ppb	1.7750	0.7	3626.25
Ti 334.941	-1.2548	ppb	0.0360	2.9	84.9733
Tl 190.794	-9.3190	ppb	8.0023	85.9	-30.1474
V 292.401	-0.0655	ppb	0.3227	492.4	-11.7131
Zn 206.200	6.2230	ppb	0.5772	9.3	18.9786

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680-90332-c-5-a (Samp) 5/17/2013, 6:35:50 AM Rack 3, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.1005u	-1.1883u	-0.0984u
Al 308.215	101.262	120.950	110.622
As 188.980	11.2397	-2.9606u	5.7671
B 249.678	30.5326	29.7090	30.7307
Ba 389.178	54.2827	55.9843	55.4493
Be 313.042	-0.0599u	-0.0651u	-0.0586u
Ca 370.602	99271	101374	102313
Cd 226.502	0.5109	0.5124	0.4688
Co 228.615	-1.4219u	-0.3646u	-0.0060u
Cr 267.716	3.3350	3.5123	3.6035
Cu 324.754	-1.7805u	-1.1388u	-0.6908u
Fe 271.441	20.0489	25.3470	-0.3604u
K 766.491	1188.75	1203.58	1211.07
Mg 279.078	32696.1	33137.2	33599.5
Mn 257.610	13.3396	12.7016	12.8462
Mo 202.032	2.1069	2.6979	2.5385
Na 330.237	8822.35	8819.64	9251.89
Ni 231.604	0.3491	3.6634	2.4620
Pb 220.353	6.1577	7.6851	4.1879
Sb 206.834	0.4244	6.9704	0.4592
Se 196.026	-4.3287u	16.4381	-10.7498u
Sn 189.925	-1.3837u	1.8128	-1.5935u
Sr 216.596	145.517	145.782	146.063
Ti 334.941	-0.2278	-0.1413	-0.3987
Tl 190.794	-14.2539u	-1.1397u	-9.5393u
V 292.401	1.2154	0.2740	0.0430
Zn 206.200	3.3997	7.8020	3.9887

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1291	ppb	1.0024	88.8	-140.625
Al 308.215	110.945	ppb	9.8476	8.9	243.262
As 188.980	4.6820	ppb	7.1621	153.0	-7.0047
B 249.678	30.3241	ppb	0.5419	1.8	622.960
Ba 389.178	55.2388	ppb	0.8701	1.6	1528.37
Be 313.042	-0.0612	ppb	0.0034	5.6	-541.038
Ca 370.602	100986	ppb	1558	1.5	354525
Cd 226.502	0.4973	ppb	0.0248	5.0	62.8522
Co 228.615	-0.5975	ppb	0.7361	123.2	-5.1155
Cr 267.716	3.4836	ppb	0.1365	3.9	211.416
Cu 324.754	-1.2033	ppb	0.5477	45.5	233.665
Fe 271.441	15.0118	ppb	13.5737	90.4	62.4513
K 766.491	1201.13	ppb	11.3572	0.9	50624.4
Mg 279.078	33144.3	ppb	451.762	1.4	87281.2
Mn 257.610	12.9625	ppb	0.3345	2.6	1150.05
Mo 202.032	2.4477	ppb	0.3058	12.5	38.4292
Na 330.237	8964.63	ppb	248.779	2.8	574.830
Ni 231.604	2.1582	ppb	1.6779	77.7	7.7515
Pb 220.353	6.0102	ppb	1.7533	29.2	43.8234
Sb 206.834	2.6180	ppb	3.7694	144.0	-0.0367
Se 196.026	0.4532	ppb	14.2107	3135.6	11.4182
Sn 189.925	-0.3881	ppb	1.9089	491.8	-16.9454
Sr 216.596	145.787	ppb	0.2731	0.2	2158.30
Ti 334.941	-0.2559	ppb	0.1310	51.2	56.5391
Tl 190.794	-8.3110	ppb	6.6428	79.9	-29.0526
V 292.401	0.5108	ppb	0.6210	121.6	5.8013
Zn 206.200	5.0635	ppb	2.3898	47.2	16.7091

680-0/0-a (Samp) 5/17/2013, 6:41:17 AM Rack 3, Tube 47
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.5124	42.0755	43.4255
Al 308.215	3757.75	3781.34	3760.24
As 188.980	159.637	152.742	143.301
B 249.678	202.800	203.523	204.635
Ba 389.178	110.109	110.669	111.059
Be 313.042	50.7075	50.0458	50.1060
Ca 370.602	5121	5107	5103
Cd 226.502	74.4443	74.8694	74.2880
Co 228.615	62.6791	62.2865	62.6995
Cr 267.716	113.143	113.662	113.555
Cu 324.754	85.5622	72.0339	69.0471
Fe 271.441	5333.88	5334.20	5341.63
K 766.491	7704.91	7721.90	7622.10
Mg 279.078	6350.33	6371.21	6335.60
Mn 257.610	873.553	901.906	894.311
Mo 202.032	106.498	105.193	105.837
Na 330.237	6976.78	6070.54	6735.89
Ni 231.604	126.837	129.532	126.831
Pb 220.353	83.4430	85.8455	79.8245
Sb 206.834	59.3369	58.4108	54.8348
Se 196.026	149.927	153.254	156.463
Sn 189.925	286.001	284.331	290.143
Sr 216.596	128.599	127.764	127.605
Ti 334.941	89.0405	89.5930	89.2289
Tl 190.794	56.7201	55.7315	52.7106
V 292.401	117.398	114.636	108.522
Zn 206.200	187.754	188.130	191.403

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.3378	ppb	6.2500	13.5	4081.95
Al 308.215	3766.44	ppb	12.9603	0.3	8828.36
As 188.980	151.894	ppb	8.2010	5.4	96.6852
B 249.678	203.653	ppb	0.9241	0.5	3341.46
Ba 389.178	110.612	ppb	0.4777	0.4	2912.15
Be 313.042	50.2864	ppb	0.3659	0.7	109162
Ca 370.602	5111	ppb	9.238	0.2	17474
Cd 226.502	74.5339	ppb	0.3009	0.4	3684.99
Co 228.615	62.5550	ppb	0.2328	0.4	976.676
Cr 267.716	113.454	ppb	0.2742	0.2	6723.16
Cu 324.754	75.5477	ppb	8.8004	11.6	4231.87
Fe 271.441	5336.57	ppb	4.3853	0.1	11087.6
K 766.491	7682.97	ppb	53.3981	0.7	322309
Mg 279.078	6352.38	ppb	17.8942	0.3	16746.3
Mn 257.610	889.923	ppb	14.6770	1.6	63660.7
Mo 202.032	105.843	ppb	0.6525	0.6	930.639
Na 330.237	6594.40	ppb	469.397	7.1	438.283
Ni 231.604	127.733	ppb	1.5578	1.2	457.353
Pb 220.353	83.0377	ppb	3.0309	3.7	219.120
Sb 206.834	57.5275	ppb	2.3775	4.1	66.5543
Se 196.026	153.215	ppb	3.2683	2.1	109.698
Sn 189.925	286.825	ppb	2.9919	1.0	309.362
Sr 216.596	127.989	ppb	0.5339	0.4	1878.97
Ti 334.941	89.2875	ppb	0.2809	0.3	29967.2
Tl 190.794	55.0540	ppb	2.0888	3.8	39.5110
V 292.401	113.519	ppb	4.5423	4.0	3604.30
Zn 206.200	189.096	ppb	2.0972	1.1	375.600

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680-0/0-a (Samp) **5/17/2013, 6:46:44 AM** **Rack 3, Tube 48**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.0331	49.0305	48.6031
Al 308.215	4264.97	4098.77	4068.26
As 188.980	156.418	151.543	153.839
B 249.678	218.238	213.900	217.657
Ba 389.178	113.398	109.498	108.516
Be 313.042	54.5413	52.2942	52.8204
Ca 370.602	5571	5335	5290
Cd 226.502	78.1229	75.2714	76.1511
Co 228.615	56.1299	46.0930	41.7237
Cr 267.716	122.580	118.305	118.077
Cu 324.754	87.6728	82.9239	85.3560
Fe 271.441	5771.00	5571.30	5581.51
K 766.491	8259.97	7938.59	8045.03
Mg 279.078	6789.73	6511.98	6483.11
Mn 257.610	866.764	799.074	816.214
Mo 202.032	115.014	111.378	111.606
Na 330.237	6570.98	6336.15	6347.25
Ni 231.604	136.303	135.192	137.994
Pb 220.353	83.5234	84.2820	79.0242
Sb 206.834	68.8005	54.3113	62.1877
Se 196.026	163.607	153.541	159.236
Sn 189.925	292.706	290.616	286.555
Sr 216.596	134.957	129.903	128.000
Ti 334.941	97.5117	94.4833	94.3608
Tl 190.794	54.0221	54.5307	57.4295
V 292.401	112.504	109.720	109.878
Zn 206.200	195.808	186.943	188.051

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.5556	ppb	1.2973	2.6	4367.79
Al 308.215	4144.00	ppb	105.864	2.6	9714.79
As 188.980	153.933	ppb	2.4392	1.6	98.1372
B 249.678	216.598	ppb	2.3549	1.1	3544.77
Ba 389.178	110.471	ppb	2.5824	2.3	2909.62
Be 313.042	53.2186	ppb	1.1753	2.2	115554
Ca 370.602	5398	ppb	150.8	2.8	18463
Cd 226.502	76.5152	ppb	1.4602	1.9	3782.37
Co 228.615	47.9822	ppb	7.3866	15.4	749.585
Cr 267.716	119.654	ppb	2.5366	2.1	7090.30
Cu 324.754	85.3176	ppb	2.3747	2.8	4740.56
Fe 271.441	5641.27	ppb	112.465	2.0	11715.4
K 766.491	8081.20	ppb	163.712	2.0	339000
Mg 279.078	6594.94	ppb	169.312	2.6	17384.7
Mn 257.610	827.350	ppb	35.1924	4.3	59196.5
Mo 202.032	112.666	ppb	2.0362	1.8	989.547
Na 330.237	6418.12	ppb	132.489	2.1	428.299
Ni 231.604	136.496	ppb	1.4110	1.0	488.724
Pb 220.353	82.2765	ppb	2.8420	3.5	217.385
Sb 206.834	61.7665	ppb	7.2537	11.7	71.7037
Se 196.026	158.795	ppb	5.0475	3.2	113.283
Sn 189.925	289.959	ppb	3.1278	1.1	312.923
Sr 216.596	130.953	ppb	3.5955	2.7	1921.93
Ti 334.941	95.4520	ppb	1.7849	1.9	32038.2
Tl 190.794	55.3274	ppb	1.8381	3.3	39.7792
V 292.401	110.701	ppb	1.5634	1.4	3512.18
Zn 206.200	190.268	ppb	4.8304	2.5	377.893

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-0/0-a (Samp) **5/17/2013, 7:03:17 AM** **Rack 3, Tube 51**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	60.5888	61.1113	58.7712
Al 308.215	3669.20	3702.25	3582.22
As 188.980	162.872	145.160	138.283
B 249.678	213.140	215.865	211.738
Ba 389.178	111.583	113.175	111.457
Be 313.042	50.7180	51.1551	49.6374
Ca 370.602	5177	5200	5102
Cd 226.502	77.1863	77.5274	75.3373
Co 228.615	64.4874	64.2259	62.6104
Cr 267.716	117.476	118.603	114.921
Cu 324.754	97.7277	97.3491	93.8832
Fe 271.441	5450.57	5517.09	5346.02
K 766.491	8488.83	8323.09	7924.13
Mg 279.078	6517.23	6591.13	6393.71
Mn 257.610	957.285	975.817	926.108
Mo 202.032	107.229	107.299	102.366
Na 330.237	7305.48	7475.13	7588.19
Ni 231.604	132.219	129.639	127.912
Pb 220.353	85.2864	85.1264	78.9281
Sb 206.834	49.9114	56.2197	53.9341
Se 196.026	164.121	141.581	156.433
Sn 189.925	290.444	299.486	286.638
Sr 216.596	130.847	131.132	128.082
Ti 334.941	90.6206	91.9745	89.2062
Tl 190.794	52.5779	52.4367	54.9508
V 292.401	112.016	124.234	124.264
Zn 206.200	197.264	199.479	195.382

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.1571	ppb	1.2283	2.0	5309.60
Al 308.215	3651.22	ppb	62.0023	1.7	8557.98
As 188.980	148.772	ppb	12.6865	8.5	94.4662
B 249.678	213.581	ppb	2.0986	1.0	3497.45
Ba 389.178	112.072	ppb	0.9579	0.9	2951.31
Be 313.042	50.5035	ppb	0.7812	1.5	109635
Ca 370.602	5159	ppb	51.57	1.0	17632
Cd 226.502	76.6837	ppb	1.1784	1.5	3790.15
Co 228.615	63.7746	ppb	1.0166	1.6	995.656
Cr 267.716	117.000	ppb	1.8866	1.6	6933.06
Cu 324.754	96.3200	ppb	2.1188	2.2	5312.90
Fe 271.441	5437.89	ppb	86.2335	1.6	11297.5
K 766.491	8245.35	ppb	290.264	3.5	345881
Mg 279.078	6500.69	ppb	99.7457	1.5	17136.6
Mn 257.610	953.070	ppb	25.1214	2.6	68167.1
Mo 202.032	105.631	ppb	2.8279	2.7	928.788
Na 330.237	7456.27	ppb	142.298	1.9	486.287
Ni 231.604	129.924	ppb	2.1677	1.7	465.197
Pb 220.353	83.1137	ppb	3.6257	4.4	219.293
Sb 206.834	53.3551	ppb	3.1938	6.0	61.5312
Se 196.026	154.045	ppb	11.4584	7.4	110.234
Sn 189.925	292.189	ppb	6.5992	2.3	315.458
Sr 216.596	130.020	ppb	1.6850	1.3	1908.54
Ti 334.941	90.6004	ppb	1.3842	1.5	30408.8
Tl 190.794	53.3218	ppb	1.4125	2.6	37.5950
V 292.401	120.171	ppb	7.0629	5.9	3817.58
Zn 206.200	197.375	ppb	2.0508	1.0	391.738

680-0/0-a (Samp) 5/17/2013, 7:08:44 AM Rack 3, Tube 52
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.0813	52.6767	51.7362
Al 308.215	4154.92	4093.66	3990.68
As 188.980	152.822	158.568	160.124
B 249.678	226.830	225.916	225.869
Ba 389.178	117.643	113.225	110.981
Be 313.042	54.0418	54.4442	53.0740
Ca 370.602	5631	5538	5286
Cd 226.502	78.4686	77.6059	76.9486
Co 228.615	60.1184	52.1750	42.9336
Cr 267.716	124.979	123.306	119.734
Cu 324.754	87.4411	87.9741	85.7085
Fe 271.441	5834.65	5758.03	5643.97
K 766.491	8437.35	8117.96	8269.18
Mg 279.078	6895.03	6745.76	6543.01
Mn 257.610	943.406	899.071	847.851
Mo 202.032	115.445	115.040	111.901
Na 330.237	6434.18	7030.08	6486.97
Ni 231.604	134.060	136.848	142.512
Pb 220.353	86.1488	83.1097	81.2394
Sb 206.834	57.3500	55.1089	47.4981
Se 196.026	161.093	159.708	167.094
Sn 189.925	301.784	298.315	300.276
Sr 216.596	138.220	135.062	130.667
Ti 334.941	99.6721	98.2526	95.5122
Tl 190.794	62.2633	54.6396	59.2880
V 292.401	116.082	114.526	112.369
Zn 206.200	193.657	193.013	192.924

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.4981	ppb	0.6901	1.3	4629.05
Al 308.215	4079.75	ppb	82.9991	2.0	9564.17
As 188.980	157.171	ppb	3.8461	2.4	100.442
B 249.678	226.205	ppb	0.5419	0.2	3695.69
Ba 389.178	113.950	ppb	3.3894	3.0	3001.88
Be 313.042	53.8534	ppb	0.7043	1.3	116937
Ca 370.602	5485	ppb	178.4	3.3	18753
Cd 226.502	77.6744	ppb	0.7623	1.0	3839.40
Co 228.615	51.7423	ppb	8.6006	16.6	808.094
Cr 267.716	122.673	ppb	2.6789	2.2	7269.09
Cu 324.754	87.0412	ppb	1.1846	1.4	4830.38
Fe 271.441	5745.55	ppb	95.9523	1.7	11931.9
K 766.491	8274.83	ppb	159.771	1.9	347116
Mg 279.078	6727.93	ppb	176.686	2.6	17734.4
Mn 257.610	896.776	ppb	47.8188	5.3	64151.0
Mo 202.032	114.129	ppb	1.9397	1.7	1002.16
Na 330.237	6650.41	ppb	329.862	5.0	441.170
Ni 231.604	137.807	ppb	4.3068	3.1	493.419
Pb 220.353	83.4993	ppb	2.4778	3.0	220.167
Sb 206.834	53.3190	ppb	5.1641	9.7	61.4704
Se 196.026	162.632	ppb	3.9263	2.4	115.754
Sn 189.925	300.125	ppb	1.7392	0.6	324.476
Sr 216.596	134.650	ppb	3.7933	2.8	1975.70
Ti 334.941	97.8123	ppb	2.1146	2.2	32831.4
Tl 190.794	58.7303	ppb	3.8423	6.5	43.4837
V 292.401	114.326	ppb	1.8648	1.6	3627.69
Zn 206.200	193.198	ppb	0.4000	0.2	383.613

mb 680-276886/1-a (Samp) 5/17/2013, 7:14:11 AM Rack 3, Tube 53

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0805u	-1.6158u	-0.9089u
Al 308.215	60.7784	87.9376	86.8926
As 188.980	-1.4359u	-2.6147u	-8.6663u
B 249.678	8.6692	10.4083	10.8389
Ba 389.178	2.6007	3.3353	2.8651
Be 313.042	0.0077	-0.0186u	-0.0323u
Ca 370.602	-17.53u	-29.04u	-22.18u
Cd 226.502	0.4239	1.0253	0.6124
Co 228.615	1.4703	-0.5510u	1.5822
Cr 267.716	-0.1993u	-0.1659u	0.4470
Cu 324.754	-0.5144u	-0.5797u	-0.2267u
Fe 271.441	5.2243	-0.7299u	1.5437
K 766.491	10.5617	12.7066	14.8848
Mg 279.078	27.7336	30.7411	31.9129
Mn 257.610	1.2455	1.3359	1.4553
Mo 202.032	3.1366	2.1117	2.4422
Na 330.237	-138.058u	207.710	553.110
Ni 231.604	1.0811	0.7958	3.5342
Pb 220.353	13.8180	10.4024	10.6926
Sb 206.834	-5.2370u	-9.5183u	0.1938
Se 196.026	4.0851	8.7730	12.4361
Sn 189.925	3.4070	-6.1735u	1.0020
Sr 216.596	1.1134	2.0545	2.5639
Ti 334.941	0.2884	-0.1210u	-0.0458u
Tl 190.794	-7.5435u	-7.3793u	-14.4309u
V 292.401	-0.4630u	0.2411	0.8297
Zn 206.200	3.3879	1.7062	2.4405

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2017	ppb	0.3687	30.7	-137.257
Al 308.215	78.5362	ppb	15.3876	19.6	167.177
As 188.980	-4.2390	ppb	3.8792	91.5	-14.4048
B 249.678	9.9721	ppb	1.1487	11.5	302.718
Ba 389.178	2.9337	ppb	0.3721	12.7	48.6932
Be 313.042	-0.0144	ppb	0.0203	141.4	-479.729
Ca 370.602	-22.91	ppb	5.790	25.3	-69.16
Cd 226.502	0.6872	ppb	0.3076	44.8	71.5331
Co 228.615	0.8339	ppb	1.2006	144.0	17.1854
Cr 267.716	0.0273	ppb	0.3639	1334.2	6.5977
Cu 324.754	-0.4403	ppb	0.1878	42.7	273.364
Fe 271.441	2.0127	ppb	3.0047	149.3	35.8052
K 766.491	12.7177	ppb	2.1616	17.0	812.353
Mg 279.078	30.1292	ppb	2.1558	7.2	115.168
Mn 257.610	1.3456	ppb	0.1053	7.8	233.154
Mo 202.032	2.5635	ppb	0.5231	20.4	39.4302
Na 330.237	207.587	ppb	345.584	166.5	85.6587
Ni 231.604	1.8037	ppb	1.5054	83.5	6.4825
Pb 220.353	11.6377	ppb	1.8938	16.3	56.6303
Sb 206.834	-4.8538	ppb	4.8674	100.3	-9.1169
Se 196.026	8.4314	ppb	4.1859	49.6	16.5374
Sn 189.925	-0.5882	ppb	4.9843	847.4	-17.2391
Sr 216.596	1.9106	ppb	0.7358	38.5	46.2129
Ti 334.941	0.0406	ppb	0.2179	537.4	-31.3712
Tl 190.794	-9.7846	ppb	4.0247	41.1	-30.6570
V 292.401	0.2026	ppb	0.6472	319.4	-4.1663
Zn 206.200	2.5115	ppb	0.8431	33.6	117.7492

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

ics 680-276886/2-a (Samp) 5/17/2013, 7:19:38 AM Rack 3, Tube 54
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	52.0260	55.9685	53.3119
Al 308.215	3277.04	3319.16	3484.08
As 188.980	132.098	128.712	128.131
B 249.678	202.812	206.723	212.926
Ba 389.178	110.172	106.069	112.194
Be 313.042	48.4095	48.2683	49.5990
Ca 370.602	4821	4836	5105
Cd 226.502	70.2457	70.7794	73.3363
Co 228.615	60.5210	74.1726	74.9053
Cr 267.716	109.856	111.891	117.423
Cu 324.754	82.6310	88.1774	79.6354
Fe 271.441	5075.30	5184.52	5399.38
K 766.491	7202.44	7225.43	7845.98
Mg 279.078	5871.70	5980.52	6364.55
Mn 257.610	971.633	996.474	1057.11
Mo 202.032	97.3035	98.6392	104.380
Na 330.237	5451.05	5908.65	7047.86
Ni 231.604	119.766	115.546	122.722
Pb 220.353	79.1922	76.1854	78.6951
Sb 206.834	52.6800	48.5952	45.5530
Se 196.026	154.797	138.576	139.669
Sn 189.925	264.480	266.443	278.232
Sr 216.596	119.207	120.498	129.478
Ti 334.941	86.3740	88.4139	92.0395
Tl 190.794	52.2866	48.5424	63.5488
V 292.401	121.516	123.051	109.276
Zn 206.200	176.786	175.685	182.496

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.7688	ppb	2.0106	3.7	4742.40
Al 308.215	3360.09	ppb	109.422	3.3	7874.47
As 188.980	129.647	ppb	2.1427	1.7	80.8626
B 249.678	207.487	ppb	5.1001	2.5	3401.91
Ba 389.178	109.478	ppb	3.1211	2.9	2881.41
Be 313.042	48.7589	ppb	0.7309	1.5	105832
Ca 370.602	4921	ppb	159.7	3.2	16814
Cd 226.502	71.4538	ppb	1.6520	2.3	3534.98
Co 228.615	69.8663	ppb	8.1015	11.6	1090.75
Cr 267.716	113.057	ppb	3.9154	3.5	6699.69
Cu 324.754	83.4813	ppb	4.3340	5.2	4644.58
Fe 271.441	5219.73	ppb	164.882	3.2	10847.2
K 766.491	7424.62	ppb	365.095	4.9	311480
Mg 279.078	6072.26	ppb	258.913	4.3	16008.7
Mn 257.610	1008.41	ppb	43.9693	4.4	72114.5
Mo 202.032	100.107	ppb	3.7596	3.8	881.108
Na 330.237	6135.85	ppb	822.293	13.4	412.769
Ni 231.604	119.345	ppb	3.6067	3.0	427.329
Pb 220.353	78.0242	ppb	1.6117	2.1	207.712
Sb 206.834	48.9427	ppb	3.5762	7.3	56.1924
Se 196.026	144.347	ppb	9.0664	6.3	104.009
Sn 189.925	269.719	ppb	7.4383	2.8	289.923
Sr 216.596	123.061	ppb	5.5943	4.5	1807.39
Ti 334.941	88.9424	ppb	2.8695	3.2	29850.0
Tl 190.794	54.7926	ppb	7.8108	14.3	39.2144
V 292.401	117.947	ppb	7.5487	6.4	3747.42
Zn 206.200	178.323	ppb	3.6562	2.1	354.603

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90184-a-1-a (Samp) **5/17/2013, 7:25:05 AM** **Rack 3, Tube 55****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3555u	-0.7686u	-0.4928u
Al 308.215	62.6209	71.4993	89.4715
As 188.980	2.7321	-0.1545	10.7210
B 249.678	13.7126	13.3773	11.8728
Ba 389.178	54.4615	53.1471	55.0314
Be 313.042	-0.0013	0.0235	0.0337
Ca 370.602	143235	144817	137097
Cd 226.502	0.8244	0.5455	0.5884
Co 228.615	4.5778	5.0111	5.7267
Cr 267.716	-0.1230u	0.5128	0.1533
Cu 324.754	2.2071	0.2460	0.9848
Fe 271.441	2394.09	2417.68	2435.29
K 766.491	1935.89	1884.63	1876.84
Mg 279.078	32879.9	33287.7	33817.1
Mn 257.610	1130.54	1166.00	1152.58
Mo 202.032	2.6283	2.3591	3.4709
Na 330.237	10712.4	11844.9	12038.7
Ni 231.604	6.2554	10.3965	9.9202
Pb 220.353	7.8597	5.3087	6.7426
Sb 206.834	0.1832	2.5602	-1.8754u
Se 196.026	-10.9306u	6.3980	2.5675
Sn 189.925	0.1769	0.4373	2.2605
Sr 216.596	262.489	268.984	268.248
Ti 334.941	0.1038	0.0792	0.0007
Tl 190.794	-10.5702u	-9.9815u	-7.9196u
V 292.401	-0.0975u	-0.0639u	0.0627
Zn 206.200	21.3430	20.7068	19.1594

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5390	ppb	0.2104	39.0	-94.5762
Al 308.215	74.5305	ppb	13.6796	18.4	157.808
As 188.980	4.4329	ppb	5.6337	127.1	-6.5858
B 249.678	12.9875	ppb	0.9799	7.5	346.014
Ba 389.178	54.2133	ppb	0.9664	1.8	1508.13
Be 313.042	0.0186	ppb	0.0180	96.6	-343.432
Ca 370.602	141716	ppb	4078	2.9	497287
Cd 226.502	0.6528	ppb	0.1502	23.0	81.3046
Co 228.615	5.1052	ppb	0.5802	11.4	83.6199
Cr 267.716	0.1810	ppb	0.3188	176.1	19.6204
Cu 324.754	1.1460	ppb	0.9904	86.4	356.747
Fe 271.441	2415.69	ppb	20.6729	0.9	5031.23
K 766.491	1899.12	ppb	32.0821	1.7	79880.5
Mg 279.078	33328.3	ppb	469.898	1.4	87755.3
Mn 257.610	1149.71	ppb	17.9073	1.6	82269.0
Mo 202.032	2.8195	ppb	0.5800	20.6	41.4823
Na 330.237	11532.0	ppb	716.385	6.2	717.256
Ni 231.604	8.8574	ppb	2.2659	25.6	31.8028
Pb 220.353	6.6370	ppb	1.2788	19.3	45.4059
Sb 206.834	0.2893	ppb	2.2197	767.2	-2.8196
Se 196.026	-0.6550	ppb	9.1027	1389.7	10.8996
Sn 189.925	0.9582	ppb	1.1353	118.5	-15.3799
Sr 216.596	266.574	ppb	3.5565	1.3	3928.47
Ti 334.941	0.0612	ppb	0.0539	88.0	167.713
Tl 190.794	-9.4904	ppb	1.3918	14.7	-31.3627
V 292.401	-0.0329	ppb	0.0845	256.9	-11.4722
Zn 206.200	20.4031	ppb	1.1230	5.5	46.9624

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90184-a-4-a (Samp) **5/17/2013, 7:30:32 AM** **Rack 3, Tube 56****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0834u	-0.7954u	-0.3401u
Al 308.215	50.2408	89.9100	95.4594
As 188.980	-7.8803u	4.5776	4.8409
B 249.678	8.2634	9.1118	10.0754
Ba 389.178	6.5815	4.6092	7.4684
Be 313.042	0.0707	0.0582	0.0546
Ca 370.602	26.91	16.14	6.715
Cd 226.502	0.5033	0.5850	0.7525
Co 228.615	0.7873	-2.2032u	-2.1833u
Cr 267.716	0.0579	-0.2300u	0.1810
Cu 324.754	3.0364	3.8523	3.7001
Fe 271.441	12.7471	10.2624	28.2858
K 766.491	28.2111	31.2495	33.9866
Mg 279.078	34.4721	21.1763	40.1775
Mn 257.610	2.1470	2.2481	2.7705
Mo 202.032	1.9599	2.2404	2.5946
Na 330.237	169.074	362.799	359.599
Ni 231.604	2.0882	4.3839	2.0318
Pb 220.353	7.3998	10.0533	8.0646
Sb 206.834	-7.5168u	1.8327	1.7761
Se 196.026	-1.1791u	18.8976	-0.2896u
Sn 189.925	-2.6552u	-0.0992u	-1.7088u
Sr 216.596	2.0332	3.0553	2.9777
Ti 334.941	-0.0527u	-0.0806u	0.0723
Tl 190.794	-3.9067u	-7.0985u	-10.9877u
V 292.401	-0.0211u	-0.6077u	0.2112
Zn 206.200	9.9536	11.1941	13.8125

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4063	ppb	0.3606	88.7	-66.6509
Al 308.215	78.5367	ppb	24.6616	31.4	167.152
As 188.980	0.5127	ppb	7.2698	1417.9	-11.0244
B 249.678	9.1502	ppb	0.9066	9.9	289.763
Ba 389.178	6.2197	ppb	1.4635	23.5	135.188
Be 313.042	0.0612	ppb	0.0085	13.8	-314.947
Ca 370.602	16.59	ppb	10.10	60.9	68.29
Cd 226.502	0.6136	ppb	0.1270	20.7	68.0111
Co 228.615	-1.1997	ppb	1.7209	143.4	-14.4813
Cr 267.716	0.0030	ppb	0.2109	7051.0	5.1750
Cu 324.754	3.5296	ppb	0.4338	12.3	479.949
Fe 271.441	17.0984	ppb	9.7679	57.1	66.6414
K 766.491	31.1491	ppb	2.8891	9.3	1584.90
Mg 279.078	31.9420	ppb	9.7500	30.5	119.932
Mn 257.610	2.3885	ppb	0.3346	14.0	307.595
Mo 202.032	2.2650	ppb	0.3180	14.0	36.8522
Na 330.237	297.158	ppb	110.935	37.3	90.5826
Ni 231.604	2.8346	ppb	1.3420	47.3	10.1726
Pb 220.353	8.5059	ppb	1.3807	16.2	49.5035
Sb 206.834	-1.3027	ppb	5.3817	413.1	-4.8055
Se 196.026	5.8096	ppb	11.3432	195.2	14.8545
Sn 189.925	-1.4877	ppb	1.2923	86.9	-18.2612
Sr 216.596	2.6887	ppb	0.5691	21.2	57.5898
Ti 334.941	-0.0203	ppb	0.0815	400.8	-51.8045
Tl 190.794	-7.3310	ppb	3.5463	48.4	-27.9628
V 292.401	-0.1392	ppb	0.4220	303.2	-15.0358
Zn 206.200	11.6534	ppb	1.9700	16.9	29.5618

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90222-b-1-a (Samp) 5/17/2013, 7:36:00 AM Rack 3, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7532u	-1.3135u	-1.3088u
Al 308.215	203.345	212.211	175.966
As 188.980	6.1843	11.1956	9.3417
B 249.678	40.5092	39.3942	46.8402
Ba 389.178	13.3672	12.2485	11.7639
Be 313.042	0.0978	0.0985	0.0936
Ca 370.602	19011	21025	21615
Cd 226.502	0.1357	0.4738	0.1958
Co 228.615	-1.6864u	0.1579	1.7358
Cr 267.716	1.0819	1.4397	1.3626
Cu 324.754	0.4553	1.9775	3.2289
Fe 271.441	80.9201	72.7508	97.8310
K 766.491	4011.27	4191.94	4146.00
Mg 279.078	8668.98	8951.21	8792.50
Mn 257.610	107.498	107.926	106.923
Mo 202.032	2.5387	3.1037	3.7968
Na 330.237	37325.4	40002.9	39326.5
Ni 231.604	6.4628	6.1589	8.1837
Pb 220.353	11.8088	7.7206	4.2278
Sb 206.834	-5.3231u	-2.0728u	-0.2921u
Se 196.026	2.6642	-2.6167u	18.1683
Sn 189.925	-2.7029u	3.7044	-1.6738u
Sr 216.596	172.212	176.857	173.265
Ti 334.941	0.4968	0.4360	0.4212
Tl 190.794	-2.3370u	-7.7168u	-5.0114u
V 292.401	0.5334	-0.7501u	1.0087
Zn 206.200	17.6614	16.1882	16.4075

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1252	ppb	0.3222	28.6	-141.767
Al 308.215	197.174	ppb	18.8943	9.6	445.638
As 188.980	8.9072	ppb	2.5338	28.4	-4.8245
B 249.678	42.2479	ppb	4.0159	9.5	810.479
Ba 389.178	12.4599	ppb	0.8223	6.6	327.044
Be 313.042	0.0966	ppb	0.0026	2.7	-233.770
Ca 370.602	20551	ppb	1365	6.6	72148
Cd 226.502	0.2684	ppb	0.1804	67.2	51.4181
Co 228.615	0.0691	ppb	1.7128	2479.3	5.2751
Cr 267.716	1.2947	ppb	0.1883	14.5	82.7421
Cu 324.754	1.8873	ppb	1.3890	73.6	394.526
Fe 271.441	83.8340	ppb	12.7915	15.3	204.994
K 766.491	4116.41	ppb	93.8997	2.3	172817
Mg 279.078	8804.23	ppb	141.482	1.6	23210.0
Mn 257.610	107.449	ppb	0.5029	0.5	7827.79
Mo 202.032	3.1464	ppb	0.6302	20.0	44.4580
Na 330.237	38884.9	ppb	1392.27	3.6	2246.13
Ni 231.604	6.9351	ppb	1.0919	15.7	24.8505
Pb 220.353	7.9191	ppb	3.7944	47.9	48.1849
Sb 206.834	-2.5627	ppb	2.5510	99.5	-6.3289
Se 196.026	6.0719	ppb	10.8034	177.9	15.0411
Sn 189.925	-0.2241	ppb	3.4408	1535.4	-16.7943
Sr 216.596	174.111	ppb	2.4354	1.4	2559.38
Ti 334.941	0.4513	ppb	0.0400	8.9	153.362
Tl 190.794	-5.0217	ppb	2.6899	53.6	-25.5162
V 292.401	0.2640	ppb	0.9099	344.6	-2.5724
Zn 206.200	16.7524	ppb	0.7949	4.7	39.5005

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90222-d-2-a (Samp) 5/17/2013, 7:41:27 AM Rack 3, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7649u	-1.8929u	-0.5995u
Al 308.215	523.574	503.170	471.548
As 188.980	4.9763	-0.2811u	11.5405
B 249.678	32.5741	32.9387	38.2102
Ba 389.178	16.0902	18.8788	18.7893
Be 313.042	0.2225	0.2259	0.2168
Ca 370.602	16150	16370	16375
Cd 226.502	0.9571	0.5007	0.5041
Co 228.615	7.3612	7.1200	6.9577
Cr 267.716	2.7800	3.0860	3.1301
Cu 324.754	2.1499	0.8856	1.4129
Fe 271.441	96.4064	117.536	97.4391
K 766.491	4830.88	4728.80	4541.72
Mg 279.078	5201.96	5090.04	4898.30
Mn 257.610	26.5336	27.5789	27.3053
Mo 202.032	3.5003	1.3395	3.3916
Na 330.237	45625.7	47815.3	47494.6
Ni 231.604	5.5085	3.6954	4.8199
Pb 220.353	1.7450	5.1564	7.5977
Sb 206.834	5.9076	1.0209	7.2996
Se 196.026	3.6454	-2.1620u	3.7608
Sn 189.925	-1.4219u	1.9225	5.7351
Sr 216.596	105.690	102.981	99.5553
Ti 334.941	1.5315	1.3831	1.4091
Tl 190.794	-9.6584u	-7.6007u	-6.8670u
V 292.401	2.1431	1.9629	1.6829
Zn 206.200	16.8296	19.3382	16.4551

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0858	ppb	0.7039	64.8	-133.556
Al 308.215	499.430	ppb	26.2138	5.2	1155.00
As 188.980	5.4119	ppb	5.9228	109.4	-7.3597
B 249.678	34.5743	ppb	3.1540	9.1	689.713
Ba 389.178	17.9194	ppb	1.5848	8.8	458.942
Be 313.042	0.2217	ppb	0.0046	2.1	36.1244
Ca 370.602	16299	ppb	128.4	0.8	57220
Cd 226.502	0.6540	ppb	0.2625	40.1	70.0870
Co 228.615	7.1463	ppb	0.2030	2.8	115.612
Cr 267.716	2.9987	ppb	0.1907	6.4	183.543
Cu 324.754	1.4828	ppb	0.6350	42.8	373.457
Fe 271.441	103.794	ppb	11.9124	11.5	247.627
K 766.491	4700.47	ppb	146.651	3.1	197298
Mg 279.078	5063.43	ppb	153.569	3.0	13363.8
Mn 257.610	27.1392	ppb	0.5421	2.0	2087.13
Mo 202.032	2.7438	ppb	1.2173	44.4	40.9773
Na 330.237	46978.5	ppb	1182.52	2.5	2698.25
Ni 231.604	4.6746	ppb	0.9152	19.6	16.7605
Pb 220.353	4.8330	ppb	2.9397	60.8	41.1563
Sb 206.834	4.7427	ppb	3.2975	69.5	2.5451
Se 196.026	1.7481	ppb	3.3867	193.7	12.2523
Sn 189.925	2.0786	ppb	3.5810	172.3	-14.1769
Sr 216.596	102.742	ppb	3.0744	3.0	1518.50
Ti 334.941	1.4412	ppb	0.0792	5.5	463.535
Tl 190.794	-8.0420	ppb	1.4471	18.0	-28.7670
V 292.401	1.9297	ppb	0.2319	12.0	50.8070
Zn 206.200	17.5410	ppb	1.5677	8.9	41.0320

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90222-b-3-a (Samp) 5/17/2013, 7:46:54 AM Rack 3, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5896	-0.2308u	-1.3961u
Al 308.215	222.492	223.842	245.565
As 188.980	3.1519	-1.0610u	-1.8456u
B 249.678	8.4921	8.9367	8.2921
Ba 389.178	19.5533	18.3841	19.7976
Be 313.042	0.0712	0.0820	0.0820
Ca 370.602	7477	7586	7458
Cd 226.502	0.5575	0.7399	0.6407
Co 228.615	-0.2237u	-1.3487u	0.0623
Cr 267.716	0.4721	0.7639	0.3231
Cu 324.754	-0.6329u	0.2497	-0.2661u
Fe 271.441	292.513	279.910	288.165
K 766.491	1320.08	1334.90	1352.77
Mg 279.078	3105.50	3138.96	3095.72
Mn 257.610	110.382	111.063	110.598
Mo 202.032	2.4795	1.1982	1.7536
Na 330.237	8197.52	7960.30	8290.82
Ni 231.604	5.9326	2.3871	5.3584
Pb 220.353	4.1677	3.8554	8.5427
Sb 206.834	-6.3112u	-2.6434u	-6.4959u
Se 196.026	-4.0925u	5.1936	-11.5855u
Sn 189.925	1.0259	4.0059	1.9646
Sr 216.596	55.4573	54.5904	54.6664
Ti 334.941	3.4912	3.3718	3.4532
Tl 190.794	-4.0061u	1.6493	-11.0246u
V 292.401	0.7610	1.0250	0.5058
Zn 206.200	10.9921	10.3849	11.2965

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3457	ppb	0.9978	288.6	-64.4952
Al 308.215	230.633	ppb	12.9494	5.6	524.087
As 188.980	0.0818	ppb	2.6876	3286.2	-11.2442
B 249.678	8.5736	ppb	0.3300	3.8	280.237
Ba 389.178	19.2450	ppb	0.7555	3.9	488.109
Be 313.042	0.0784	ppb	0.0062	7.9	-275.004
Ca 370.602	7507	ppb	69.43	0.9	26340
Cd 226.502	0.6460	ppb	0.0913	14.1	70.7876
Co 228.615	-0.5034	ppb	0.7459	148.2	-3.4958
Cr 267.716	0.5197	ppb	0.2242	43.1	36.3026
Cu 324.754	-0.2165	ppb	0.4434	204.8	285.070
Fe 271.441	286.863	ppb	6.4018	2.2	625.010
K 766.491	1335.91	ppb	16.3700	1.2	56273.8
Mg 279.078	3113.39	ppb	22.6742	0.7	8230.07
Mn 257.610	110.681	ppb	0.3483	0.3	8043.49
Mo 202.032	1.8104	ppb	0.6425	35.5	32.9079
Na 330.237	8149.55	ppb	170.402	2.1	529.120
Ni 231.604	4.5594	ppb	1.9030	41.7	16.3538
Pb 220.353	5.5219	ppb	2.6207	47.5	42.7320
Sb 206.834	-5.1502	ppb	2.1729	42.2	-9.4420
Se 196.026	-3.4948	ppb	8.4055	240.5	8.9011
Sn 189.925	2.3321	ppb	1.5236	65.3	-13.9120
Sr 216.596	54.9047	ppb	0.4800	0.9	820.045
Ti 334.941	3.4388	ppb	0.0610	1.8	1126.53
Tl 190.794	-4.4605	ppb	6.3492	142.3	-24.9127
V 292.401	0.7639	ppb	0.2596	34.0	14.1110
Zn 206.200	10.8912	ppb	0.4641	4.3	28.1139

680-90215-b-1-a (Samp) 5/17/2013, 7:52:21 AM Rack 3, Tube 60
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8674u	1.3244u	1.0993u
Al 308.215	89.8246	125.991	78.2459
As 188.980	12.8848	11.7968	12.1753
B 249.678	596.212	600.583	605.768
Ba 389.178	21.9313	24.5017	22.9945
Be 313.042	-0.0226u	-0.0200u	-0.0264u
Ca 370.602	180624	179765	180158
Cd 226.502	0.8488	0.6833	0.6146
Co 228.615	-0.0100	0.2233	0.0855
Cr 267.716	330.593	332.210	331.484
Cu 324.754	0.5392	0.4039	0.2813
Fe 271.441	59.0167	55.3133	45.8833
K 766.491	12095.0	11938.3	11750.6
Mg 279.078	78893.7	78909.6	78965.7
Mn 257.610	5.7629	6.1719	6.4960
Mo 202.032	5.5173	5.8430	6.3988
Na 330.237	378749x	366334x	408551x
Ni 231.604	7.6583	7.4901	10.7633
Pb 220.353	11.5178	8.7220	5.9648
Sb 206.834	6.0428	6.8501	17.8461
Se 196.026	7.6270	9.5729	17.2678
Sn 189.925	-4.6135u	1.9115	-3.9795u
Sr 216.596	6152.46x	6186.46	6154.21
Ti 334.941	-0.6641	-0.6933	-0.5694
Tl 190.794	-10.9709u	-9.1040u	-16.3671u
V 292.401	59.0112	61.9872	63.9007
Zn 206.200	22.6913	25.3041	24.5940

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0970b	ppb	0.2285	20.8	-331.536
Al 308.215	98.0206b	ppb	24.9055	25.4	212.658
As 188.980	12.2856b	ppb	0.5523	4.5	-0.6800
B 249.678	600.854b	ppb	4.7839	0.8	9600.66
Ba 389.178	23.1425b	ppb	1.2916	5.6	827.312
Be 313.042	-0.0230b	ppb	0.0032	14.0	-472.950
Ca 370.602	180183b	ppb	429.9	0.2	632540
Cd 226.502	0.7156b	ppb	0.1203	16.8	71.8446
Co 228.615	0.0996b	ppb	0.1173	117.8	7.0512
Cr 267.716	331.429b	ppb	0.8097	0.2	19630.3
Cu 324.754	0.4081b	ppb	0.1290	31.6	316.992
Fe 271.441	53.4044b	ppb	6.7716	12.7	143.373
K 766.491	11928.0b	ppb	172.427	1.4	500237
Mg 279.078	78923.0b	ppb	37.8313	0.0	207784
Mn 257.610	6.1436b	ppb	0.3674	6.0	784.736
Mo 202.032	5.9197b	ppb	0.4458	7.5	68.2689
Na 330.237	384545xb	ppb	21697.0	5.6	21555.6
Ni 231.604	8.6373b	ppb	1.8432	21.3	30.9417
Pb 220.353	8.7349b	ppb	2.7765	31.8	50.0175
Sb 206.834	10.2463b	ppb	6.5940	64.4	13.0419
Se 196.026	11.4892b	ppb	5.0981	44.4	18.5024
Sn 189.925	-2.2271b	ppb	3.5982	161.6	-18.8100
Sr 216.596	6164.38xb	ppb	19.1463	0.3	89897.2
Ti 334.941	-0.6423b	ppb	0.0648	10.1	155.125
Tl 190.794	-12.1473b	ppb	3.7718	31.1	-33.2329
V 292.401	61.6331b	ppb	2.4639	4.0	1943.78
Zn 206.200	24.1965b	ppb	1.3510	5.6	52.7378

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90215-b-2-a (Samp) **5/17/2013, 8:08:44 AM** **Rack 4, Tube 3**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.3424u	1.1975u	0.5039u
Al 308.215	97.1168	106.520	121.951
As 188.980	7.3395	5.0624	5.7420
B 249.678	692.194	706.065	694.266
Ba 389.178	42.5599	43.7713	39.7706
Be 313.042	0.0020	-0.0074u	-0.0122u
Ca 370.602	147032	126299	205201
Cd 226.502	0.3328	0.3054	0.6403
Co 228.615	-1.3772u	-1.4390u	-2.2971u
Cr 267.716	88.0498	88.2483	85.8285
Cu 324.754	2.8795	2.9770	3.0470
Fe 271.441	185.720	185.643	181.223
K 766.491	13431.4	13153.0	13623.0
Mg 279.078	86752.5	86610.4	85208.1
Mn 257.610	7.2659	7.6908	7.3970
Mo 202.032	4.8019	5.6530	6.5362
Na 330.237	420739x	402529x	388422x
Ni 231.604	6.2379	5.2387	3.1830
Pb 220.353	9.0331	8.7979	9.7387
Sb 206.834	5.0514	5.9788	5.7250
Se 196.026	16.7516	15.9372	26.2721
Sn 189.925	1.9120	4.2685	-3.4188u
Sr 216.596	6835.83x	6604.13x	6334.12x
Ti 334.941	-0.7924	-0.8832	-0.8446
Tl 190.794	-5.5946u	-10.1613u	-11.6413u
V 292.401	42.7484	42.1752	42.3972
Zn 206.200	148.564	148.469	149.551

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0146b	ppb	0.4482	44.2	-371.543
Al 308.215	108.529b	ppb	12.5382	11.6	237.485
As 188.980	6.0480b	ppb	1.1690	19.3	-5.3362
B 249.678	697.508b	ppb	7.4824	1.1	11121.3
Ba 389.178	42.0339b	ppb	2.0516	4.9	1347.86
Be 313.042	-0.0059b	ppb	0.0072	123.2	-446.700
Ca 370.602	159511b	ppb	40904	25.6	559958
Cd 226.502	0.4261b	ppb	0.1860	43.6	58.4342
Co 228.615	-1.7044b	ppb	0.5142	30.2	-22.1588
Cr 267.716	87.3755b	ppb	1.3435	1.5	5184.82
Cu 324.754	2.9678b	ppb	0.0841	2.8	450.462
Fe 271.441	184.195b	ppb	2.5748	1.4	412.920
K 766.491	13402.5b	ppb	236.361	1.8	562040
Mg 279.078	86190.3b	ppb	853.607	1.0	226914
Mn 257.610	7.4512b	ppb	0.2176	2.9	897.734
Mo 202.032	5.6637b	ppb	0.8672	15.3	66.0916
Na 330.237	403897xb	ppb	16202.2	4.0	22635.6
Ni 231.604	4.8865b	ppb	1.5576	31.9	17.5221
Pb 220.353	9.1899b	ppb	0.4896	5.3	51.0535
Sb 206.834	5.5851b	ppb	0.4793	8.6	4.5005
Se 196.026	19.6536b	ppb	5.7462	29.2	23.7455
Sn 189.925	0.9206b	ppb	3.9384	427.8	-15.2378
Sr 216.596	6591.36xb	ppb	251.095	3.8	96117.8
Ti 334.941	-0.8401b	ppb	0.0456	5.4	129.438
Tl 190.794	-9.1324b	ppb	3.1519	34.5	-29.9404
V 292.401	42.4403b	ppb	0.2890	0.7	1344.19
Zn 206.200	148.861b	ppb	0.5994	0.4	296.568

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90215-b-3-a (Samp) 5/17/2013, 8:14:23 AM Rack 4, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2096u	0.5323u	0.6235u
Al 308.215	85.9274	122.361	136.260
As 188.980	14.0397	7.4013	13.8777
B 249.678	550.451	555.368	554.636
Ba 389.178	28.8328	26.3966	26.1518
Be 313.042	-0.0286u	-0.0039	-0.0162u
Ca 370.602	158679	160578	159851
Cd 226.502	0.1994	0.6764	0.4724
Co 228.615	-0.5726u	-0.2021u	0.4783
Cr 267.716	6.9511	6.3620	7.0412
Cu 324.754	0.2883	0.6378	0.5619
Fe 271.441	43.7397	34.5205	42.1612
K 766.491	9406.57	9377.34	9269.86
Mg 279.078	56326.9	56171.9	55889.5
Mn 257.610	1.9649	1.5782	1.5231
Mo 202.032	7.2955	10.0737	7.6916
Na 330.237	372560x	375316x	373209x
Ni 231.604	9.3270	8.2974	10.5948
Pb 220.353	15.2940	8.0121	9.2935
Sb 206.834	6.5306	3.4916	-8.1232u
Se 196.026	10.7847	19.1280	12.7966
Sn 189.925	-5.9614u	-3.0045u	4.5824
Sr 216.596	3932.26	3933.04	3913.65
Ti 334.941	-0.1890	-0.1030	-0.1308
Tl 190.794	-9.0149u	-14.3069u	-15.9219u
V 292.401	61.4778	56.6808	58.5167
Zn 206.200	7.4506	5.7885	6.0566

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4552b	ppb	0.2175	47.8	-246.377
Al 308.215	114.849b	ppb	25.9935	22.6	252.331
As 188.980	11.7729b	ppb	3.7868	32.2	-1.2486
B 249.678	553.485b	ppb	2.6527	0.5	8855.27
Ba 389.178	27.1271b	ppb	1.4822	5.5	861.094
Be 313.042	-0.0162b	ppb	0.0123	76.2	-464.262
Ca 370.602	159703b	ppb	958.2	0.6	560646
Cd 226.502	0.4494b	ppb	0.2393	53.3	58.5756
Co 228.615	-0.0988b	ppb	0.5330	539.4	2.4100
Cr 267.716	6.7848b	ppb	0.3689	5.4	413.588
Cu 324.754	0.4960b	ppb	0.1838	37.1	321.671
Fe 271.441	40.1405b	ppb	4.9306	12.3	115.075
K 766.491	9351.26b	ppb	71.9928	0.8	392235
Mg 279.078	56129.4b	ppb	221.755	0.4	147785
Mn 257.610	1.6887b	ppb	0.2407	14.3	406.552
Mo 202.032	8.3536b	ppb	1.5028	18.0	89.2905
Na 330.237	373695xb	ppb	1440.80	0.4	20949.7
Ni 231.604	9.4064b	ppb	1.1508	12.2	33.6941
Pb 220.353	10.8666b	ppb	3.8875	35.8	54.8639
Sb 206.834	0.6330b	ppb	7.7339	1221.8	-2.5003
Se 196.026	14.2364b	ppb	4.3540	30.6	20.2651
Sn 189.925	-1.4612b	ppb	5.4386	372.2	-17.9568
Sr 216.596	3926.32b	ppb	10.9772	0.3	57272.5
Ti 334.941	-0.1409b	ppb	0.0438	31.1	194.905
Tl 190.794	-13.0812b	ppb	3.6129	27.6	-34.2566
V 292.401	58.8918b	ppb	2.4204	4.1	1878.10
Zn 206.200	6.4319b	ppb	0.8924	13.9	19.3667

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680-90215-b-4-a (Samp) **5/17/2013, 8:19:51 AM** **Rack 4, Tube 5****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0499u	0.5488u	0.3681u
Al 308.215	796.424	791.755	823.770
As 188.980	22.2596	11.3475	5.0348
B 249.678	893.904	854.992	884.888
Ba 389.178	37.1363	31.9281	33.9115
Be 313.042	0.7924	0.7291	0.7588
Ca 370.602	113303	196466	206742
Cd 226.502	0.2267	0.3207	0.7198
Co 228.615	-2.0555u	-2.8598u	0.1763
Cr 267.716	19.2462	18.4062	19.0553
Cu 324.754	3.1361	4.3922	4.3706
Fe 271.441	798.446	773.171	805.490
K 766.491	9942.28	9640.22	10659.4
Mg 279.078	88983.2	85816.4	89970.4
Mn 257.610	132.552	124.695	129.684
Mo 202.032	8.7824	7.5058	8.1975
Na 330.237	336349x	332109x	351568x
Ni 231.604	11.2650	9.4744	12.3911
Pb 220.353	18.3430	15.6338	20.5374
Sb 206.834	5.9372	3.8443	5.8296
Se 196.026	26.1549	31.4265	18.7565
Sn 189.925	0.4034	-4.1463u	-1.7906u
Sr 216.596	5435.21	5225.77	5382.32
Ti 334.941	8.2081	9.2394	10.7765
Tl 190.794	-10.3949u	-14.2845u	-16.9862u
V 292.401	123.674	118.608	121.208
Zn 206.200	33.9712	29.7026	35.2499

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3223b	ppb	0.2526	78.4	-345.232
Al 308.215	803.983b	ppb	17.2941	2.2	1869.25
As 188.980	12.8806b	ppb	8.7141	67.7	-0.3871
B 249.678	877.928b	ppb	20.3684	2.3	13959.4
Ba 389.178	34.3253b	ppb	2.6287	7.7	1152.38
Be 313.042	0.7601b	ppb	0.0317	4.2	1231.07
Ca 370.602	172171b	ppb	51239	29.8	604348
Cd 226.502	0.4224b	ppb	0.2618	62.0	61.3541
Co 228.615	-1.5796b	ppb	1.5730	99.6	-20.2778
Cr 267.716	18.9026b	ppb	0.4404	2.3	1130.14
Cu 324.754	3.9663b	ppb	0.7191	18.1	501.852
Fe 271.441	792.369b	ppb	16.9950	2.1	1671.99
K 766.491	10080.6b	ppb	523.494	5.2	422806
Mg 279.078	88256.7b	ppb	2170.22	2.5	232352
Mn 257.610	128.977b	ppb	3.9761	3.1	9575.24
Mo 202.032	8.1619b	ppb	0.6391	7.8	87.4447
Na 330.237	340009xb	ppb	10233.0	3.0	19067.3
Ni 231.604	11.0435b	ppb	1.4709	13.3	39.5765
Pb 220.353	18.1714b	ppb	2.4563	13.5	71.5295
Sb 206.834	5.2037b	ppb	1.1785	22.6	3.2100
Se 196.026	25.4460b	ppb	6.3646	25.0	27.4921
Sn 189.925	-1.8445b	ppb	2.2753	123.4	-18.4027
Sr 216.596	5347.76b	ppb	108.910	2.0	77992.7
Ti 334.941	9.4080b	ppb	1.2924	13.7	3586.64
Tl 190.794	-13.8885b	ppb	3.3135	23.9	-35.2771
V 292.401	121.163b	ppb	2.5329	2.1	3880.07
Zn 206.200	32.9746b	ppb	2.9048	8.8	71.1405

680-90215-b-5-a (Samp) **5/17/2013, 8:25:19 AM** **Rack 4, Tube 6**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.6963u	0.3162u	0.8671u
Al 308.215	463.363	450.109	447.939
As 188.980	20.7061	23.5308	-1.5286
B 249.678	958.503	959.435	973.636
Ba 389.178	47.1414	48.0386	50.4601
Be 313.042	0.1575	0.1577	0.1640
Ca 370.602	240253	242828	244340
Cd 226.502	0.5518	0.5596	0.6733
Co 228.615	0.9561	0.9312	0.6713
Cr 267.716	33.8564	32.9557	33.4767
Cu 324.754	2.7907	0.6336	2.9115
Fe 271.441	736.422	744.395	740.896
K 766.491	12626.8	12258.5	12466.1
Mg 279.078	105698	105427	106780
Mn 257.610	54.6939	54.0600	54.8598
Mo 202.032	7.1209	6.1780	7.5865
Na 330.237	459569x	460314x	466910x
Ni 231.604	15.6686	18.4066	16.5132
Pb 220.353	13.5466	14.2582	20.2999
Sb 206.834	-3.3419u	2.7427	9.3064
Se 196.026	27.1597	25.3333	19.8020
Sn 189.925	2.4910	2.0618	-2.8119u
Sr 216.596	6866.32x	6892.67x	6985.34x
Ti 334.941	7.8890	8.3769	7.8899
Tl 190.794	-10.8621u	-12.9950u	-15.4451u
V 292.401	91.1548	91.7240	92.2991
Zn 206.200	24.8333	22.8534	24.8357

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6265b	ppb	0.2820	45.0	-432.270
Al 308.215	453.804b	ppb	8.3491	1.8	1047.52
As 188.980	14.2361b	ppb	13.7255	96.4	1.4481
B 249.678	963.858b	ppb	8.4805	0.9	15311.6
Ba 389.178	48.5467b	ppb	1.7167	3.5	1582.30
Be 313.042	0.1597b	ppb	0.0037	2.3	-56.2788
Ca 370.602	242474b	ppb	2067	0.9	851149
Cd 226.502	0.5949b	ppb	0.0680	11.4	69.0695
Co 228.615	0.8529b	ppb	0.1578	18.5	17.7229
Cr 267.716	33.4296b	ppb	0.4522	1.4	1992.55
Cu 324.754	2.1119b	ppb	1.2817	60.7	405.603
Fe 271.441	740.571b	ppb	3.9963	0.5	1565.02
K 766.491	12450.5b	ppb	184.658	1.5	522137
Mg 279.078	105968b	ppb	715.851	0.7	278975
Mn 257.610	54.5379b	ppb	0.4221	0.8	4311.01
Mo 202.032	6.9618b	ppb	0.7176	10.3	77.1515
Na 330.237	462264xb	ppb	4040.82	0.9	25896.9
Ni 231.604	16.8628b	ppb	1.4021	8.3	60.4026
Pb 220.353	16.0349b	ppb	3.7107	23.1	66.6445
Sb 206.834	2.9024b	ppb	6.3256	217.9	0.6141
Se 196.026	24.0983b	ppb	3.8312	15.9	26.6115
Sn 189.925	0.5803b	ppb	2.9456	507.6	-15.5419
Sr 216.596	6914.78xb	ppb	62.5114	0.9	100846
Ti 334.941	8.0519b	ppb	0.2815	3.5	3222.72
Tl 190.794	-13.1007b	ppb	2.2933	17.5	-34.3473
V 292.401	91.7260b	ppb	0.5721	0.6	2932.26
Zn 206.200	24.1741b	ppb	1.1437	4.7	53.9343

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680-90186-c-29-b (Samp) **5/17/2013, 8:30:47 AM** **Rack 4, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6618u	-0.3192u	0.3054
Al 308.215	76.6435	80.9215	83.2906
As 188.980	7.9909	11.5802	12.1421
B 249.678	21.4706	20.0720	19.3823
Ba 389.178	3.8798	4.7324	5.9553
Be 313.042	0.0664	0.0781	0.0556
Ca 370.602	-12.25u	-3.678u	-2.247u
Cd 226.502	0.4280	0.4611	0.5018
Co 228.615	-0.0205u	1.0192	-0.8482u
Cr 267.716	0.2180	0.4446	0.0590
Cu 324.754	-0.1118u	0.3887	0.8603
Fe 271.441	12.9864	12.9046	16.1111
K 766.491	13.3223	13.2311	14.2211
Mg 279.078	16.9900	33.7013	37.0750
Mn 257.610	0.9682	1.0189	1.0297
Mo 202.032	3.1991	1.9818	2.8044
Na 330.237	-97.0089u	282.076	353.668
Ni 231.604	4.4620	2.4826	1.0404
Pb 220.353	9.5436	9.1270	5.8731
Sb 206.834	-3.1476u	2.3057	13.2093
Se 196.026	13.6525	0.2058	23.9769
Sn 189.925	0.6827	-1.8550u	7.6581
Sr 216.596	2.3893	3.2516	3.6084
Ti 334.941	0.1363	0.0281	0.0266
Tl 190.794	-11.4805u	-4.1825u	-5.8868u
V 292.401	0.6404	0.6368	0.4079
Zn 206.200	1.5190	3.1934	0.3534

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2252	ppb	0.4904	217.8	-50.5662
Al 308.215	80.2852	ppb	3.3689	4.2	171.269
As 188.980	10.5711	ppb	2.2521	21.3	-3.8708
B 249.678	20.3083	ppb	1.0640	5.2	465.369
Ba 389.178	4.8558	ppb	1.0432	21.5	99.2667
Be 313.042	0.0667	ppb	0.0113	16.9	-302.858
Ca 370.602	-6.060	ppb	5.412	89.3	-9.792
Cd 226.502	0.4637	ppb	0.0370	8.0	60.6595
Co 228.615	0.0502	ppb	0.9357	1865.7	4.9812
Cr 267.716	0.2406	ppb	0.1938	80.5	19.2192
Cu 324.754	0.3791	ppb	0.4861	128.2	315.992
Fe 271.441	14.0007	ppb	1.8281	13.1	60.4724
K 766.491	13.5915	ppb	0.5471	4.0	848.978
Mg 279.078	29.2555	ppb	10.7553	36.8	112.868
Mn 257.610	1.0056	ppb	0.0329	3.3	208.890
Mo 202.032	2.6618	ppb	0.6211	23.3	40.2780
Na 330.237	179.578	ppb	242.192	134.9	84.1030
Ni 231.604	2.6617	ppb	1.7178	64.5	9.5532
Pb 220.353	8.1812	ppb	2.0098	24.6	48.7630
Sb 206.834	4.1225	ppb	8.3284	202.0	1.7624
Se 196.026	12.6117	ppb	11.9197	94.5	19.2213
Sn 189.925	2.1619	ppb	4.9261	227.9	-14.1141
Sr 216.596	3.0831	ppb	0.6267	20.3	63.3075
Ti 334.941	0.0637	ppb	0.0629	98.7	-23.5964
Tl 190.794	-7.1832	ppb	3.8179	53.1	-27.7978
V 292.401	0.5617	ppb	0.1332	23.7	7.4083
Zn 206.200	1.6886	ppb	1.4276	84.5	10.1449

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680-90240-g-1-b (Samp) **5/17/2013, 8:36:15 AM** **Rack 4, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-4.9008u	-4.5055u	-3.8649u
Al 308.215	7098.41	7002.70	6919.62
As 188.980	5.3627	-3.1642	5.9135
B 249.678	69.7896u	68.5094u	70.6689u
Ba 389.178	76.0475	76.1835	72.9406
Be 313.042	6.7546	6.7430	6.7030
Ca 370.602	83819	83856	83450
Cd 226.502	15.0571	14.7014	14.9522
Co 228.615	430.363	427.334	450.679
Cr 267.716	76.5738	75.3277	74.7178
Cu 324.754	8.2987	7.8440	8.5321
Fe 271.441	822979	834757	820075
K 766.491	39714.3	39717.0	39373.9
Mg 279.078	82536.5	82340.3	81781.7
Mn 257.610	23957.1	24316.5	24052.4
Mo 202.032	-0.3928u	-1.2799u	-2.5037u
Na 330.237	2756057x	2744569x	2745277x
Ni 231.604	464.089	450.043	428.280
Pb 220.353	27.9806	31.5248	28.6790
Sb 206.834	-8.7710	-30.7830u	-21.6390u
Se 196.026	6.6084	35.1313	22.8111
Sn 189.925	0.9169	9.4746	1.9937
Sr 216.596	663.364	659.270	657.049
Ti 334.941	4.2022	4.1497	3.7569
Tl 190.794	13.3612u	5.8979u	8.2910u
V 292.401	-4.6946u	-5.3038u	-4.1177u
Zn 206.200	4210.70	4181.84	4170.72

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.4238b	ppb	0.5228	11.8	-401.446
Al 308.215	7006.91b	ppb	89.4713	1.3	16427.6
As 188.980	2.7040b	ppb	5.0894	188.2	-5.2150
B 249.678	69.6560b	ppb	1.0859	1.6	-163.180
Ba 389.178	75.0572b	ppb	1.8343	2.4	3646.02
Be 313.042	6.7335b	ppb	0.0271	0.4	13898.1
Ca 370.602	83708b	ppb	224.2	0.3	213916
Cd 226.502	14.9036b	ppb	0.1827	1.2	4441.49
Co 228.615	436.125b	ppb	12.6941	2.9	6759.94
Cr 267.716	75.5397b	ppb	0.9460	1.3	4862.74
Cu 324.754	8.2249b	ppb	0.3499	4.3	1000.20
Fe 271.441	825937b	ppb	7775.02	0.9	1709230
K 766.491	39601.7b	ppb	197.314	0.5	1660173
Mg 279.078	82219.5b	ppb	391.607	0.5	216400
Mn 257.610	24108.7b	ppb	186.192	0.8	1721420
Mo 202.032	-1.3921b	ppb	1.0599	76.1	-48.1595
Na 330.237	2748634xb	ppb	6437.60	0.2	153294
Ni 231.604	447.471b	ppb	18.0423	4.0	1626.86
Pb 220.353	29.3948b	ppb	1.8774	6.4	100.965
Sb 206.834	-20.3977b	ppb	11.0584	54.2	-2.1488
Se 196.026	21.5169b	ppb	14.3054	66.5	35.9258
Sn 189.925	4.1284b	ppb	4.6612	112.9	-10.6039
Sr 216.596	659.894b	ppb	3.2031	0.5	10135.8
Ti 334.941	4.0363b	ppb	0.2433	6.0	1661.15
Tl 190.794	9.1833b	ppb	3.8108	41.5	-81.0579
V 292.401	-4.7054b	ppb	0.5932	12.6	-188.812
Zn 206.200	4187.76b	ppb	20.6348	0.5	8285.90

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460-55825-a-1-a (Samp) **5/17/2013, 8:41:43 AM** **Rack 4, Tube 9****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.4910u	-1.0008u	-0.9689u
Al 308.215	130.391	110.293	110.581
As 188.980	-4.9524u	7.7442	4.2645
B 249.678	10657.7x	10909.8x	10947.8x
Ba 389.178	3.5598	4.1931	5.7764
Be 313.042	0.0426	0.0184	0.0333
Ca 370.602	860.6	865.7	857.3
Cd 226.502	0.3147	0.2158	0.6600
Co 228.615	0.3284	0.3440	-1.6449u
Cr 267.716	0.3169	0.4012	0.4960
Cu 324.754	22.0007	21.3392	22.4103
Fe 271.441	27.1935	34.3865	33.2065
K 766.491	902.833	905.199	916.012
Mg 279.078	433.703	422.876	455.234
Mn 257.610	1.9534	1.5089	1.0337
Mo 202.032	3.3938	3.0750	3.1045
Na 330.237	287484x	287718x	290330x
Ni 231.604	3.0513	5.8142	4.2336
Pb 220.353	7.4910	4.7116	6.4421
Sb 206.834	4.2072	-6.1927u	-13.8025u
Se 196.026	3.0145	1.7504	7.3554
Sn 189.925	0.2362	-2.1720u	-3.4960u
Sr 216.596	7.1517	6.0813	7.0446
Ti 334.941	0.2297	0.0010u	0.1513
Tl 190.794	-8.5788u	-9.3919u	-10.5917u
V 292.401	-0.1968u	0.4380	0.8199
Zn 206.200	7.0488	5.0198	8.4537

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1536b	ppb	0.2926	25.4	-133.287
Al 308.215	117.088b	ppb	11.5213	9.8	257.687
As 188.980	2.3521b	ppb	6.5607	278.9	-9.7069
B 249.678	10838.4xb	ppb	157.646	1.5	170696
Ba 389.178	4.5098b	ppb	1.1417	25.3	91.5089
Be 313.042	0.0315b	ppb	0.0122	38.8	-415.488
Ca 370.602	861.2b	ppb	4.199	0.5	3031
Cd 226.502	0.3968b	ppb	0.2332	58.8	55.6139
Co 228.615	-0.3242b	ppb	1.1438	352.8	-0.8822
Cr 267.716	0.4047b	ppb	0.0896	22.1	34.8473
Cu 324.754	21.9167b	ppb	0.5404	2.5	1436.86
Fe 271.441	31.5955b	ppb	3.8576	12.2	96.8160
K 766.491	908.015b	ppb	7.0266	0.8	38338.5
Mg 279.078	437.271b	ppb	16.4715	3.8	1186.88
Mn 257.610	1.4987b	ppb	0.4599	30.7	244.749
Mo 202.032	3.1911b	ppb	0.1762	5.5	44.8474
Na 330.237	288511xb	ppb	1579.98	0.5	16191.0
Ni 231.604	4.3664b	ppb	1.3863	31.7	15.6554
Pb 220.353	6.2149b	ppb	1.4036	22.6	44.2869
Sb 206.834	-5.2627b	ppb	9.0408	171.8	-9.6137
Se 196.026	4.0401b	ppb	2.9399	72.8	13.7185
Sn 189.925	-1.8106b	ppb	1.8922	104.5	-18.4973
Sr 216.596	6.7592b	ppb	0.5895	8.7	116.982
Ti 334.941	0.1273b	ppb	0.1162	91.2	-24.9720
Tl 190.794	-9.5208b	ppb	1.0126	10.6	-30.3704
V 292.401	0.3537b	ppb	0.5136	145.2	-1.9535
Zn 206.200	6.8408b	ppb	1.7263	25.2	201866

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460-55825-a-1-a (Samp) **5/17/2013, 8:47:11 AM** **Rack 4, Tube 10****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6365u	-0.3375u	-0.4370u
Al 308.215	93.4846	113.025	99.1146
As 188.980	-0.0478u	5.3813	10.0784
B 249.678	2434.94	2491.75	2539.27
Ba 389.178	4.7089	3.3374	5.6122
Be 313.042	0.0602	0.0495	0.0651
Ca 370.602	180.4	185.3	170.2
Cd 226.502	0.1837	0.5449	0.7383
Co 228.615	-0.5544u	-0.4357u	-0.8322u
Cr 267.716	-0.1615u	-0.3164u	-0.0897u
Cu 324.754	4.3690	3.9920	4.9316
Fe 271.441	2.5670	-3.0513u	-8.6956u
K 766.491	175.107	181.691	179.626
Mg 279.078	91.7123	87.7243	100.344
Mn 257.610	0.4524	0.8952	0.7147
Mo 202.032	2.3754	3.2101	3.3919
Na 330.237	55569.2	54721.0	59293.0
Ni 231.604	3.6132	5.5694	5.9535
Pb 220.353	6.5576	6.2755	6.3205
Sb 206.834	-10.3678u	-7.2109u	-11.9196u
Se 196.026	-4.5505u	-2.4730u	25.4889
Sn 189.925	4.7555	-1.2410u	-7.3977u
Sr 216.596	2.2653	3.9151	2.2859
Ti 334.941	-0.0116u	0.0065u	0.0633
Tl 190.794	-4.5265u	-10.8725u	-10.6131u
V 292.401	0.1530	0.5010	-0.6404u
Zn 206.200	4.5634	5.8587	3.7416

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4703	ppb	0.1523	32.4	-72.3533
Al 308.215	101.875	ppb	10.0583	9.9	221.963
As 188.980	5.1373	ppb	5.0675	98.6	-7.7336
B 249.678	2488.65	ppb	52.2333	2.1	39306.7
Ba 389.178	4.5528	ppb	1.1454	25.2	91.4919
Be 313.042	0.0583	ppb	0.0080	13.7	-328.299
Ca 370.602	178.6	ppb	7.692	4.3	639.0
Cd 226.502	0.4890	ppb	0.2815	57.6	61.4837
Co 228.615	-0.6075	ppb	0.2035	33.5	-5.2842
Cr 267.716	-0.1892	ppb	0.1158	61.2	-5.0686
Cu 324.754	4.4309	ppb	0.4729	10.7	526.864
Fe 271.441	-3.0600	ppb	5.6313	184.0	25.0444
K 766.491	178.808	ppb	3.3673	1.9	7773.98
Mg 279.078	93.2604	ppb	6.4509	6.9	281.348
Mn 257.610	0.6875	ppb	0.2227	32.4	186.273
Mo 202.032	2.9924	ppb	0.5421	18.1	43.1349
Na 330.237	56527.7	ppb	2432.07	4.3	3231.84
Ni 231.604	5.0454	ppb	1.2551	24.9	18.0842
Pb 220.353	6.3846	ppb	0.1515	2.4	44.6731
Sb 206.834	-9.8328	ppb	2.3995	24.4	-15.1491
Se 196.026	6.1552	ppb	16.7757	272.5	15.0760
Sn 189.925	-1.2944	ppb	6.0767	469.5	-18.0161
Sr 216.596	2.8221	ppb	0.9466	33.5	59.4592
Ti 334.941	0.0194	ppb	0.0391	201.4	-42.9749
Tl 190.794	-8.6707	ppb	3.5913	41.4	-29.4332
V 292.401	0.0045	ppb	0.5850	12934.9	-11.0454
Zn 206.200	4.7212	ppb	1.0673	22.6	16.0539

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460-55825-a-1-a (Samp) **5/17/2013, 8:52:39 AM** **Rack 4, Tube 11****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.1156	52.2817	52.1035
Al 308.215	1444.68	1436.00	1416.14
As 188.980	2868.90	2856.99	2834.18
B 249.678	12429.2x	12419.7x	12400.9x
Ba 389.178	2218.78	2186.32	2185.53
Be 313.042	50.2598	49.3804	49.5874
Ca 370.602	6417	6339	6342
Cd 226.502	81.1687	79.7563	79.1188
Co 228.615	715.589	574.040	549.874
Cr 267.716	243.208	241.036	238.733
Cu 324.754	225.699	224.522	222.645
Fe 271.441	1329.40	1268.36	1217.32
K 766.491	10890.3	10887.3	10716.7
Mg 279.078	7424.28	7365.26	7266.29
Mn 257.610	1237.52	1219.33	1235.44
Mo 202.032	538.459	533.395	527.617
Na 330.237	297666x	296069x	292879x
Ni 231.604	606.200	631.876	666.943
Pb 220.353	798.547	795.266	785.518
Sb 206.834	543.979	534.288	530.075
Se 196.026	3327.33	3259.22	3268.53
Sn 189.925	1640.39	1614.03	1605.15
Sr 216.596	707.482	617.679	684.402
Ti 334.941	939.470	930.336	933.170
Tl 190.794	3544.56	3496.71	3475.42
V 292.401	578.337	571.180	568.866
Zn 206.200	1071.01	1057.35	1048.61

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.5002b	ppb	0.5403	1.0	4594.25
Al 308.215	1432.27b	ppb	14.6325	1.0	3376.67
As 188.980	2853.36b	ppb	17.6459	0.6	2017.94
B 249.678	12416.6xb	ppb	14.3841	0.1	195528
Ba 389.178	2196.87b	ppb	18.9717	0.9	57812.2
Be 313.042	49.7425b	ppb	0.4598	0.9	107819
Ca 370.602	6366b	ppb	43.94	0.7	22450
Cd 226.502	80.0146b	ppb	1.0491	1.3	3931.92
Co 228.615	613.167b	ppb	89.5185	14.6	9562.45
Cr 267.716	240.992b	ppb	2.2381	0.9	14273.7
Cu 324.754	224.289b	ppb	1.5403	0.7	11982.2
Fe 271.441	1271.69b	ppb	56.1138	4.4	2783.50
K 766.491	10831.5b	ppb	99.3605	0.9	454277
Mg 279.078	7351.94b	ppb	79.8314	1.1	19377.0
Mn 257.610	1230.77b	ppb	9.9565	0.8	87981.2
Mo 202.032	533.157b	ppb	5.4249	1.0	4619.66
Na 330.237	295538xb	ppb	2437.14	0.8	16566.2
Ni 231.604	635.006b	ppb	30.4920	4.8	2272.78
Pb 220.353	793.110b	ppb	6.7768	0.9	1833.43
Sb 206.834	536.114b	ppb	7.1294	1.3	638.773
Se 196.026	3285.03b	ppb	36.9290	1.1	2120.33
Sn 189.925	1619.86b	ppb	18.3291	1.1	1824.25
Sr 216.596	669.854b	ppb	46.6355	7.0	9735.70
Ti 334.941	934.325b	ppb	4.6752	0.5	313645
Tl 190.794	3505.56b	ppb	35.4068	1.0	3833.14
V 292.401	572.794b	ppb	4.9373	0.9	18246.7
Zn 206.200	1058.99b	ppb	11.2901	1.1	2069.31

460-55825-a-1-b ms (Samp) 5/17/2013, 8:58:06 AM Rack 4, Tube 12

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	61.0093	59.7827	59.2763
Al 308.215	3614.03	3656.10	3713.63
As 188.980	151.730	152.959	148.217
B 249.678	12611.2x	12828.8x	13088.8x
Ba 389.178	111.520	118.169	117.131
Be 313.042	51.6057	52.2547	53.1661
Ca 370.602	6229	6295	6468
Cd 226.502	78.2102	78.8544	79.9207
Co 228.615	78.9247	75.1596	73.5466
Cr 267.716	121.708	123.375	125.141
Cu 324.754	118.727	117.136	112.802
Fe 271.441	5644.74	5685.44	5764.72
K 766.491	10185.4	10627.2	10662.4
Mg 279.078	7052.23	7206.17	7267.69
Mn 257.610	1096.21	1134.15	1158.83
Mo 202.032	108.000	108.875	109.791
Na 330.237	319014x	327212x	331415x
Ni 231.604	125.617	130.305	129.886
Pb 220.353	88.3000	86.6589	86.7126
Sb 206.834	62.7727	57.6093	61.3858
Se 196.026	159.208	159.785	176.346
Sn 189.925	295.547	299.675	302.255
Sr 216.596	139.214	140.538	140.157
Ti 334.941	94.2906	95.1208	96.2853
Tl 190.794	61.1520	59.3160	60.3240
V 292.401	114.915	114.795	118.149
Zn 206.200	207.818	208.529	209.007

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.0228b	ppb	0.8911	1.5	5296.98
Al 308.215	3661.25b	ppb	50.0032	1.4	8581.93
As 188.980	150.968b	ppb	2.4612	1.6	96.0424
B 249.678	12843.0xb	ppb	239.109	1.9	202230
Ba 389.178	115.607b	ppb	3.5769	3.1	3047.14
Be 313.042	52.3422b	ppb	0.7839	1.5	113603
Ca 370.602	6331b	ppb	123.5	2.0	21718
Cd 226.502	78.9951b	ppb	0.8639	1.1	3901.67
Co 228.615	75.8770b	ppb	2.7599	3.6	1184.11
Cr 267.716	123.408b	ppb	1.7170	1.4	7319.26
Cu 324.754	116.222b	ppb	3.0663	2.6	6348.95
Fe 271.441	5698.30b	ppb	61.0168	1.1	11838.6
K 766.491	10491.6b	ppb	265.802	2.5	440033
Mg 279.078	7175.36b	ppb	110.983	1.5	18911.5
Mn 257.610	1129.73b	ppb	31.5470	2.8	80774.6
Mo 202.032	108.889b	ppb	0.8957	0.8	956.906
Na 330.237	325880xb	ppb	6306.83	1.9	18274.1
Ni 231.604	128.603b	ppb	2.5941	2.0	460.479
Pb 220.353	87.2239b	ppb	0.9324	1.1	228.647
Sb 206.834	60.5893b	ppb	2.6723	4.4	70.2958
Se 196.026	165.113b	ppb	9.7322	5.9	117.357
Sn 189.925	299.159b	ppb	3.3834	1.1	323.523
Sr 216.596	139.970b	ppb	0.6816	0.5	2053.61
Ti 334.941	95.2322b	ppb	1.0020	1.1	31940.3
Tl 190.794	60.2640b	ppb	0.9194	1.5	45.1341
V 292.401	115.953b	ppb	1.9026	1.6	3677.25
Zn 206.200	208.451b	ppb	0.5981	0.3	413.335

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460-55825-a-1-c msd (Samp) 5/17/2013, 9:14:30 AM Rack 4, Tube 15**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.6037	52.7512	51.2264
Al 308.215	4064.30	4071.63	4077.32
As 188.980	149.091	163.929	162.752
B 249.678	12470.4x	12660.6x	13013.9x
Ba 389.178	113.715	116.529	117.038
Be 313.042	52.6050	52.7021	53.3905
Ca 370.602	6236	6246	6277
Cd 226.502	77.0942	77.3327	77.5180
Co 228.615	58.7199	57.2693	62.8458
Cr 267.716	117.645	117.605	118.768
Cu 324.754	124.826	124.439	125.368
Fe 271.441	5564.85	5593.80	5610.98
K 766.491	9764.79	9817.82	9881.26
Mg 279.078	6902.97	6891.28	6918.61
Mn 257.610	889.695	893.666	895.052
Mo 202.032	108.479	111.269	111.445
Na 330.237	290241x	289244x	290653x
Ni 231.604	840.582	865.697	739.399
Pb 220.353	84.3465	81.0326	88.7027
Sb 206.834	61.8830	58.5456	57.8342
Se 196.026	184.374	155.275	164.866
Sn 189.925	278.778	289.403	285.777
Sr 216.596	133.223	132.895	133.900
Ti 334.941	91.8584	92.2328	92.2121
Tl 190.794	45.0355	51.7228	53.5163
V 292.401	127.259	126.182	129.463
Zn 206.200	203.415	199.121	201.622

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.8605b	ppb	0.7941	1.5	4572.66
Al 308.215	4071.09b	ppb	6.5275	0.2	9543.47
As 188.980	158.591b	ppb	8.2481	5.2	101.460
B 249.678	12715.0xb	ppb	275.820	2.2	200216
Ba 389.178	115.761b	ppb	1.7895	1.5	3049.82
Be 313.042	52.8992b	ppb	0.4282	0.8	114822
Ca 370.602	6253b	ppb	21.11	0.3	21465
Cd 226.502	77.3150b	ppb	0.2125	0.3	3819.22
Co 228.615	59.6117b	ppb	2.8932	4.9	930.741
Cr 267.716	118.006b	ppb	0.6603	0.6	6998.50
Cu 324.754	124.877b	ppb	0.4668	0.4	6799.06
Fe 271.441	5589.88b	ppb	23.3161	0.4	11611.3
K 766.491	9821.29b	ppb	58.3132	0.6	411936
Mg 279.078	6904.29b	ppb	13.7098	0.2	18198.5
Mn 257.610	892.805b	ppb	2.7805	0.3	63867.5
Mo 202.032	110.398b	ppb	1.6643	1.5	969.923
Na 330.237	290046xb	ppb	724.924	0.2	16272.5
Ni 231.604	815.226b	ppb	66.8581	8.2	2917.92
Pb 220.353	84.6939b	ppb	3.8468	4.5	222.893
Sb 206.834	59.4209b	ppb	2.1617	3.6	68.8628
Se 196.026	168.172b	ppb	14.8286	8.8	119.310
Sn 189.925	284.653b	ppb	5.4010	1.9	307.024
Sr 216.596	133.339b	ppb	0.5124	0.4	1940.91
Ti 334.941	92.1011b	ppb	0.2104	0.2	30890.1
Tl 190.794	50.0915b	ppb	4.4695	8.9	34.0068
V 292.401	127.635b	ppb	1.6725	1.3	4054.41
Zn 206.200	201.386b	ppb	2.1567	1.1	200.558

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460-55825-a-2-a (Samp) **5/17/2013, 9:19:58 AM** **Rack 4, Tube 16****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-4.7492u	-4.9541u	-4.6480u
Al 308.215	155.490	184.200	163.692
As 188.980	66.3652	61.2677	71.2381
B 249.678	1557696o	1586129x	1583467x
Ba 389.178	29.8543	29.4561	30.4748
Be 313.042	-0.0404u	-0.0518u	-0.0423u
Ca 370.602	3336	3340	3379
Cd 226.502	3.1537	3.3026	3.1503
Co 228.615	2.4478	0.8067	1.4058
Cr 267.716	5.1622	4.9824	4.8202
Cu 324.754	28.3677	28.3170	29.5049
Fe 271.441	366.052	355.466	363.397
K 766.491	848.265	851.177	855.769
Mg 279.078	1199.08	1206.24	1217.97
Mn 257.610	5.4025	5.3072	5.4727
Mo 202.032	5.1790	5.5666	6.0303
Na 330.237	307965x	309658x	311205x
Ni 231.604	24.9748	27.6522	26.5301
Pb 220.353	-18.6716u	-26.6694u	-21.5505u
Sb 206.834	3.6645	-10.1950u	-13.7261u
Se 196.026	-39.3162u	-42.2449u	-64.0650u
Sn 189.925	-1.1843u	2.4489	9.6980
Sr 216.596	16.1723	15.6085	16.4702
Ti 334.941	-0.5490u	-0.4181u	-0.7832u
Tl 190.794	11.2786	-1.1432u	5.4265
V 292.401	-1.5659u	-0.4020u	-0.4693u
Zn 206.200	14.2952	10.4693	12.4626

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.7838b	ppb	0.1560	3.3	-456.291
Al 308.215	167.794b	ppb	14.7884	8.8	376.875
As 188.980	66.2903b	ppb	4.9856	7.5	35.7952
B 249.678	1575764oxb	ppb	15703.8	1.0	24796014
Ba 389.178	29.9284b	ppb	0.5134	1.7	763.307
Be 313.042	-0.0448b	ppb	0.0061	13.6	-584.577
Ca 370.602	3352b	ppb	23.92	0.7	11745
Cd 226.502	3.2022b	ppb	0.0870	2.7	193.131
Co 228.615	1.5534b	ppb	0.8305	53.5	28.2059
Cr 267.716	4.9882b	ppb	0.1711	3.4	306.771
Cu 324.754	28.7299b	ppb	0.6717	2.3	1791.62
Fe 271.441	361.638b	ppb	5.5077	1.5	780.119
K 766.491	851.737b	ppb	3.7833	0.4	35979.6
Mg 279.078	1207.76b	ppb	9.5380	0.8	3215.09
Mn 257.610	5.3941b	ppb	0.0831	1.5	524.980
Mo 202.032	5.5920b	ppb	0.4262	7.6	65.5620
Na 330.237	309609xb	ppb	1620.64	0.5	17369.5
Ni 231.604	26.3857b	ppb	1.3446	5.1	94.4723
Pb 220.353	-22.2972b	ppb	4.0508	18.2	-20.6189
Sb 206.834	-6.7522b	ppb	9.1923	136.1	-11.4080
Se 196.026	-48.5420b	ppb	13.5228	27.9	-20.0370
Sn 189.925	3.6542b	ppb	5.5404	151.6	-12.2741
Sr 216.596	16.0836b	ppb	0.4376	2.7	252.788
Ti 334.941	-0.5834b	ppb	0.1850	31.7	-261.465
Tl 190.794	5.1873b	ppb	6.2144	119.8	-14.2230
V 292.401	-0.8124b	ppb	0.6534	80.4	-40.7382
Zn 206.200	12.4090b	ppb	1.9135	15.4	31.0601

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Batch Number: 276285 Batch Start Date: 05/10/13 11:07 Batch Analyst: Boyuk, Brian

Batch Method: 3010A Batch End Date: 05/10/13 15:49

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00002	MS_LCS1_WK 00003	MS_LCS2_wk 00144
MB 680-276285/1		3010A, 6010C			50 mL	50 mL			
LCS 680-276285/2		3010A, 6010C			50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-90039-B-9 MS		3010A, 6010C	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-90039-B-9 MSD		3010A, 6010C	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-90076-A-1	25LM20107	3010A, 6010C	T	<2	50 mL	50 mL			
680-90076-A-3	25LM20100	3010A, 6010C	T	<2	50 mL	50 mL			
680-90076-A-4	25LM20103	3010A, 6010C	T	<2	50 mL	50 mL			
680-90076-A-5	25LM20104	3010A, 6010C	T	<2	50 mL	50 mL			

Batch Notes	
Lot # of hydrochloric acid	24317
Lot # of Nitric Acid	LO8022
Hot Block ID number	HB5
Pipette ID	ME8
ID number of the thermometer	MEPrep13
Digestion Tube/Cup Lot #	ML27KK03
Uncorrected Temperature	93 Degrees C

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: 680-90076-1

SDG No.: _____

Project: Seneca Army Depot - LTM Monitoring

Client Sample ID	Lab Sample ID
<u>25LM20107</u>	<u>680-90076-1</u>
<u>25LM20105</u>	<u>680-90076-2</u>
<u>25LM20100</u>	<u>680-90076-3</u>
<u>25LM20103</u>	<u>680-90076-4</u>
<u>25LM20104</u>	<u>680-90076-5</u>

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: 25LM20107

Lab Sample ID: 680-90076-1

Lab Name: TestAmerica Savannah

Job No.: 680-90076-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/07/2013 14:05

Reporting Basis: WET

Date Received: 05/08/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.019	0.050	0.010	mg/L	J		1	353.2
14797-65-0	Nitrite as N	ND	0.050	0.010	mg/L			1	353.2
16887-00-6	Chloride	ND	5.0	1.0	mg/L			5	300.0
14808-79-8	Sulfate	9.5	5.0	2.6	mg/L			5	300.0

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: 25LM20105

Lab Sample ID: 680-90076-2

Lab Name: TestAmerica Savannah

Job No.: 680-90076-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/07/2013 13:26

Reporting Basis: WET

Date Received: 05/08/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.026	0.050	0.010	mg/L	J		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: 25LM20100

Lab Sample ID: 680-90076-3

Lab Name: TestAmerica Savannah

Job No.: 680-90076-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/07/2013 12:20

Reporting Basis: WET

Date Received: 05/08/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.13	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
16887-00-6	Chloride	ND	5.0	1.0	mg/L			5	300.0
14808-79-8	Sulfate	29	5.0	2.6	mg/L			5	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 25LM20103

Lab Sample ID: 680-90076-4

Lab Name: TestAmerica Savannah

Job No.: 680-90076-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/07/2013 15:36

Reporting Basis: WET

Date Received: 05/08/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.041	0.050	0.010	mg/L	J		1	353.2
14797-65-0	Nitrite as N	ND	0.050	0.010	mg/L			1	353.2
16887-00-6	Chloride	ND	5.0	1.0	mg/L			5	300.0
14808-79-8	Sulfate	12	5.0	2.6	mg/L			5	300.0

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: 25LM20104

Lab Sample ID: 680-90076-5

Lab Name: TestAmerica Savannah

Job No.: 680-90076-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/07/2013 16:10

Reporting Basis: WET

Date Received: 05/08/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.033	0.050	0.010	mg/L	J		1	353.2
14797-65-0	Nitrite as N	ND	0.050	0.010	mg/L			1	353.2
16887-00-6	Chloride	ND	5.0	1.0	mg/L			5	300.0
14808-79-8	Sulfate	28	5.0	2.6	mg/L			5	300.0

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Analyst: RW Batch Start Date: 05/08/2013
 Reporting Units: mg/L Analytical Batch No.: 276026

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	16:16	Nitrate as N	0.511	0.499	102			NO3+NO2 ICV_00037
			Nitrite as N	0.480	0.500	96			NO3+NO2 ICV_00037
8	ICB	16:17	Nitrate as N	ND					
			Nitrite as N	ND					
11	CCV	16:21	Nitrate as N	0.498	0.497	100	90-110		NO3/NO2 LCS_00044
			Nitrite as N	0.497	0.500	99	90-110		NO3/NO2 LCS_00044
12	CCB	16:22	Nitrate as N	ND					
			Nitrite as N	ND					
23	CCV	16:35	Nitrate as N	0.489	0.497	99	90-110		NO3/NO2 LCS_00044
			Nitrite as N	0.509	0.500	102	90-110		NO3/NO2 LCS_00044
24	CCB	16:37	Nitrate as N	ND					
			Nitrite as N	ND					
28	CCV	16:50	Nitrate as N	0.483	0.497	97	90-110		NO3/NO2 LCS_00044
			Nitrite as N	0.510	0.500	102	90-110		NO3/NO2 LCS_00044
29	CCB	16:51	Nitrate as N	ND					
			Nitrite as N	ND					

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Analyst: PAT Batch Start Date: 05/16/2013
 Reporting Units: mg/L Analytical Batch No.: 277124

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:58	Chloride	46.9	50.0	94	90-110		Anion-4_00147
			Sulfate	47.3	50.0	95	90-110		Anion-4_00147
15	CCV	19:26	Chloride	46.9	50.0	94	90-110		Anion-4_00147
			Sulfate	46.6	50.0	93	90-110		Anion-4_00147
16	CCB	19:38	Chloride	ND					
			Sulfate	ND					
22	CCV	20:53	Chloride	47.0	50.0	94	90-110		Anion-4_00147
			Sulfate	47.3	50.0	95	90-110		Anion-4_00147
23	CCB	21:05	Chloride	ND					
			Sulfate	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.: 680-90076-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 277124 Date: 05/16/2013 15:11							
300.0	MB 680-277124/2	Chloride	ND		mg/L	5.0	5
300.0	MB 680-277124/2	Sulfate	ND		mg/L	5.0	5
Batch ID: 276026 Date: 05/08/2013 16:23							
353.2	MB 680-276026/13	Nitrate as N	ND		mg/L	0.050	1
353.2	MB 680-276026/13	Nitrite as N	ND		mg/L	0.050	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90076-1
 SDG No.: _____
 Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 276026 Date: 05/08/2013 16:27											
353.2	680-90076-1	Nitrite as N	ND		mg/L						
353.2	680-90076-1	Nitrite as N	0.508		mg/L	0.500	102	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.: 680-90076-1
SDG No.: _____
Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 276026 Date: 05/08/2013 16:28											
353.2	680-90076-1	Nitrite as N	0.509		mg/L	0.500	102	90-110	0	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.: 680-90076-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 277124		Date: 05/16/2013 16:57									
						LCS Source: Anion_ICV_00119					
300.0	LCS 680-277124/3	Chloride	47.7		mg/L	50.0	95	90-110	0	30	
300.0	LCS 680-277124/3	Sulfate	49.7		mg/L	50.0	99	90-110	1	30	
Batch ID: 276026		Date: 05/08/2013 16:24									
						LCS Source: NO3/NO2 LCS_00044					
353.2	LCS 680-276026/14	Nitrite as N	0.496		mg/L	0.500	99	90-110			

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

7A-IN
 LAB CONTROL SAMPLE DUPLICATE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 277124		Date: 05/16/2013 17:09									
						LCSD Source: Anion_ICV_00119					
300.0	LCSD 680-277124/4	Chloride	47.8		mg/L	50.0	96	90-110	0	30	
300.0	LCSD 680-277124/4	Sulfate	50.4		mg/L	50.0	101	90-110	1	30	

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: 680-90076-1
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: 680-90076-1
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

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-90076-1
SDG Number: _____
Matrix: Water Instrument ID: ICG
Method: 300.0 MDL Date: 07/14/2009 08:26

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		5	1
Sulfate		5	2.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-90076-1
SDG Number: _____
Matrix: Water Instrument ID: ICG
Method: 300.0 XMDL Date: 07/14/2009 08:29

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		5	1
Sulfate		5	2.6

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Instrument ID: LACHAT2 Method: 353.2

Start Date: 05/08/2013 16:03 End Date: 05/08/2013 16:51

Lab Sample ID	D / F	Type	Time	Analytes															
				N - N O 2	N O 3														
IC 680-276026/1			16:03	X	X														
IC 680-276026/2			16:06	X	X														
IC 680-276026/3			16:08	X	X														
IC 680-276026/4			16:11	X	X														
IC 680-276026/5			16:14	X	X														
IC 680-276026/6			16:15	X	X														
ICV 680-276026/7	1		16:16	X	X														
ICB 680-276026/8	1		16:17	X	X														
ZZZZZZ			16:18																
ZZZZZZ			16:20																
CCV 680-276026/11	1		16:21	X	X														
CCB 680-276026/12	1		16:22	X	X														
MB 680-276026/13	1	T	16:23	X	X														
LCS 680-276026/14	1	T	16:24	X	X														
680-90076-1	1	T	16:26	X	X														
680-90076-1 MS	1	T	16:27	X	X														
680-90076-1 MSD	1	T	16:28	X	X														
680-90076-3	1	T	16:29	X	X														
680-90076-5	1	T	16:30	X	X														
680-90076-4	1	T	16:32	X	X														
ZZZZZZ			16:33																
ZZZZZZ			16:34																
CCV 680-276026/23	1		16:35	X	X														
CCB 680-276026/24	1		16:37	X	X														
ZZZZZZ			16:38																
ZZZZZZ			16:39																
680-90076-2	1	T	16:40	X	X														
CCV 680-276026/28	1		16:50	X	X														
CCB 680-276026/29	1		16:51	X	X														

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Instrument ID: ICG Method: 300.0

Start Date: 05/16/2013 14:58 End Date: 05/16/2013 21:17

Lab Sample ID	D / F	T y p e	Time	Analytes																
				C L -	S O 4															
CCV 680-277124/1	5		14:58	X	X															
MB 680-277124/2	5	T	15:11	X	X															
LCS 680-277124/3	5	T	16:57	X	X															
LCSD 680-277124/4	5	T	17:09	X	X															
ZZZZZZ			17:22																	
ZZZZZZ			17:34																	
ZZZZZZ			17:47																	
ZZZZZZ			17:59																	
ZZZZZZ			18:11																	
680-90076-1	5	T	18:24	X	X															
680-90076-3	5	T	18:36	X	X															
680-90076-4	5	T	18:49	X	X															
680-90076-5	5	T	19:01	X	X															
ZZZZZZ			19:13																	
CCV 680-277124/15	5		19:26	X	X															
CCB 680-277124/16	5		19:38	X	X															
ZZZZZZ			19:51																	
ZZZZZZ			20:03																	
ZZZZZZ			20:15																	
ZZZZZZ			20:28																	
ZZZZZZ			20:40																	
CCV 680-277124/22	5		20:53	X	X															
CCB 680-277124/23	5		21:05	X	X															
ZZZZZZ			21:17																	

Prep Types

T = Total/NA

Original Run Filename: OM_5-8-2013_16-01-28.OMN Created: 5/8/2013 16:01:28
 Original Run Author's Signature: [rossje]
 Current Run Filename: OM_5-8-2013_16-01-28.OMN Last Modified: 5/8/2013 17:04:30
 Current Run Author's Signature: [rossje]
 Description: 353.2 NITRATE+NITRITE
 LACHAT 2

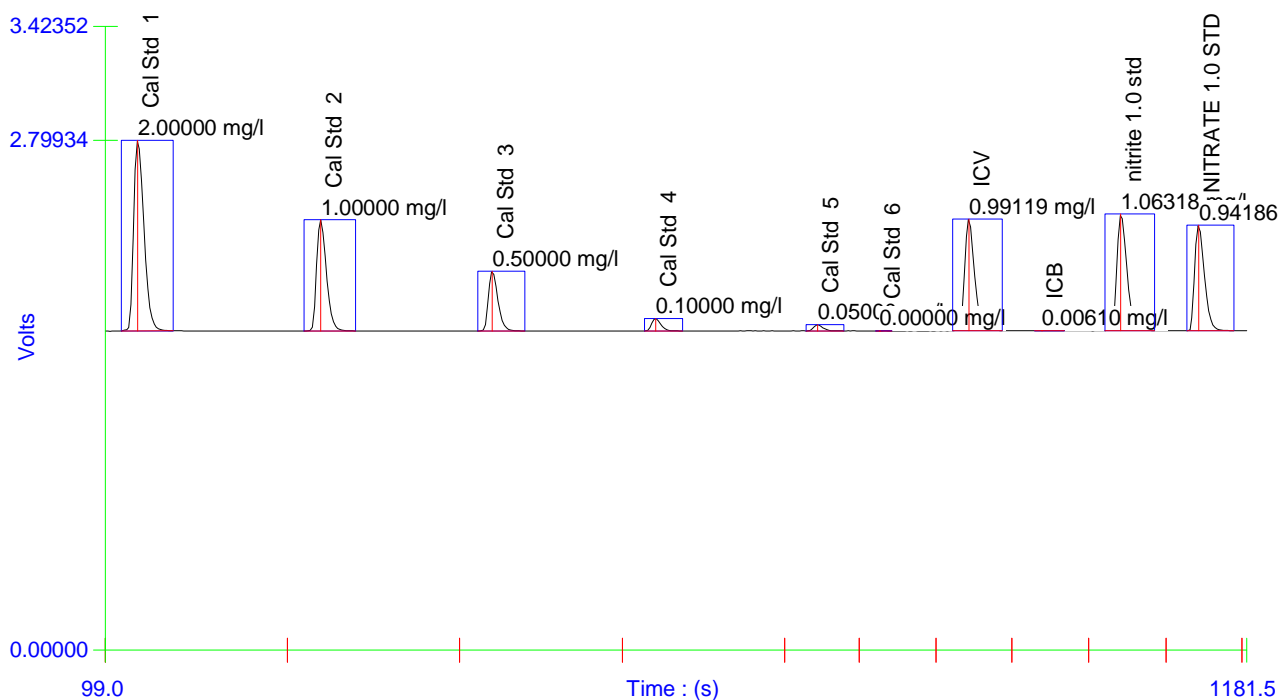
Sample	Cup No.	Channel 1		Channel 2		Detection Time	ADF	MDF
		NO3+NO2		NO2				
		Conc. (mg/l)	Area (V.s)	Conc. (mg/l)	Area (V.s)			
Cal Std 1	S5	2.00000	11.86336	1.00000	14.08733	5/8/2013@16:03:12		
Cal Std 2	S5	1.00000	6.56353	0.50000	7.11710	5/8/2013@16:06:06	2.00	
Cal Std 3	S5	0.50000	3.40266	0.25000	3.68345	5/8/2013@16:08:49	4.00	
Cal Std 4	S5	0.10000	0.68298	0.05000	0.70539	5/8/2013@16:11:25	20.00	
Cal Std 5	S5	0.05000	0.33877	0.02500	0.36453	5/8/2013@16:13:58	40.00	
Cal Std 6	S1	0.00000	0.00082	0.00000	-0.02178	5/8/2013@16:15:08		
ICV	S3	0.99119	6.47373	0.47984	6.79974	5/8/2013@16:16:22		
	Known Conc:	1.00000		0.50000				
	Calibration:	Table/Fig. : 1		Table/Fig. : 2				
ICB	S1	0.00610	0.01128	-0.00078	0.02266	5/8/2013@16:17:33		
	Known Conc:	0.00000		0.00000				
nitrite 1.0 std	S4	1.06318	6.89118	1.00689	14.23153	5/8/2013@16:18:46		
	Known Conc:	1.00000		1.00000				
NITRATE 1.0 STD	S6	0.94186	6.18422	0.00166	0.05705	5/8/2013@16:20:00		
	Known Conc:	1.00000		0.00000				
CCV	S2	0.99547	6.49873	0.49704	7.04234	5/8/2013@16:21:12		
	Known Conc:	1.00000		0.50000				
CCB	S1	0.00521	0.00457	-0.00100	0.01959	5/8/2013@16:22:24		
	Known Conc:	0.00000		0.00000				
MB	S1	0.00482	0.00169	-0.00297	-0.00821	5/8/2013@16:23:37		
	Known Conc:	0.00000		0.00000				
LCS	S2	0.99313	6.48503	0.49579	7.02463	5/8/2013@16:24:49		
	Known Conc:	1.00000		0.50000				
680-90076-B-1	1	0.02139	0.12535	0.00268	0.07143	5/8/2013@16:26:02		
680-90076-B-1 MS	2	1.00979	6.58212	0.50804	7.19741	5/8/2013@16:27:16		
680-90076-B-1 MSD	3	1.00971	6.58168	0.50928	7.21488	5/8/2013@16:28:29		
	Spiking Conc:	1.00000		0.50000				
680-90076-B-3	4	0.13336	0.94462	0.00066	0.04297	5/8/2013@16:29:42		
680-90076-B-5	5	0.03498	0.22634	0.00201	0.06207	5/8/2013@16:30:55		
680-90076-B-4	6	0.04514	0.30155	0.00386	0.08807	5/8/2013@16:32:08		
680-90082-B-1	7	0.07586	0.52751	0.00815	0.14856	5/8/2013@16:33:21		
680-90082-B-4	8	0.05879	0.40223	0.00679	0.12940	5/8/2013@16:34:35		
CCV	S2	0.99779	6.51225	0.50852	7.20416	5/8/2013@16:35:46		
	Known Conc:	1.00000		0.50000				
CCB	S1	0.00626	0.01244	-0.00143	0.01348	5/8/2013@16:36:58		
	Known Conc:	0.00000		0.00000				
680-90082-B-3	9	0.02732	0.16952	0.01033	0.17938	5/8/2013@16:38:10		
680-90082-B-2	10	0.60002	4.09303	0.01538	0.25063	5/8/2013@16:39:22		
680-90076-E-2	11	0.03029	0.19156	0.00395	0.08935	5/8/2013@16:40:36		
lcs 680-275949/1-a	12	0.97283	6.36632	0.50050	7.09118	5/8/2013@16:41:48		
mb 680-275949/2-a	13	0.00740	0.02096	0.00104	0.04841	5/8/2013@16:43:00		
640-43370-b-5-c	14	0.00555	0.00716	-0.00110	0.01813	5/8/2013@16:44:11		
640-43370-b-5-d ms	15	0.92335	6.07483	0.47806	6.77470	5/8/2013@16:45:23		
640-43370-b-5-e msd	16	0.93828	6.16310	0.48664	6.89570	5/8/2013@16:46:36		
460-55347-b-1-b	17	0.02013	0.11600	0.00710	0.13387	5/8/2013@16:47:50		
640-43463-a-2-a	18	0.17872	1.26857	0.00139	0.05333	5/8/2013@16:49:03		
CCV	S2	0.99266	6.48233	0.50991	7.22384	5/8/2013@16:50:16		
	Known Conc:	1.00000		0.50000				
CCB	S1	0.00429	-0.00231	0.00045	0.03998	5/8/2013@16:51:28		
	Known Conc:	0.00000		0.00000				
640-43464-c-1-b	19	0.01319	0.06422	0.00040	0.03934	5/8/2013@16:52:40		
700-75994-c-1-a	20	0.09030	0.63292	0.00557	0.11230	5/8/2013@16:53:53		
700-76264-b-1-d	21	0.02885	0.18084	0.00148	0.05461	5/8/2013@16:55:06		
700-76265-b-1-b	22	0.05621	0.38323	0.00261	0.07048	5/8/2013@16:56:19		
700-76265-b-2-b	23	0.03016	0.19059	0.00233	0.06660	5/8/2013@16:59:06		
700-76265-b-3-b	24	0.02997	0.18921	0.00166	0.05715	5/8/2013@17:00:18		

CCV	S2	0.98369	6.42989	0.50942	7.21687	5/8/2013@17:01:31		
	Known Conc:	1.00000		0.50000				
CCB	S1	0.00713	0.01896	-0.00142	0.01371	5/8/2013@17:02:43		
	Known Conc:	0.00000		0.00000				

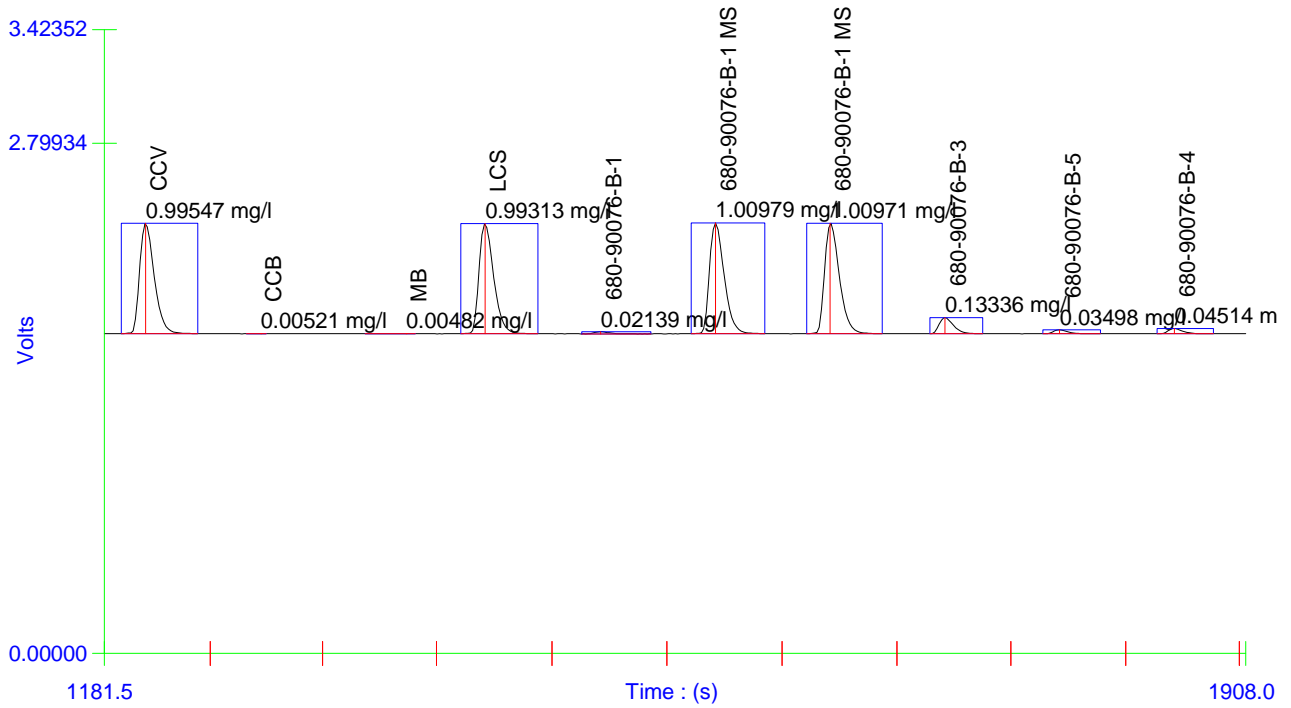
Analyte Properties Table for : OM_5-8-2013_16-01-28.OMN

Property	Channel 1	Channel 2
	NO3+NO2	NO2
Concentration Units	mg/l	mg/l
Calibration Fit Type	Second Order	First Order
Clear Calibration	No	No
Force through Zero	No	No
Calibration Weighting	None	None
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

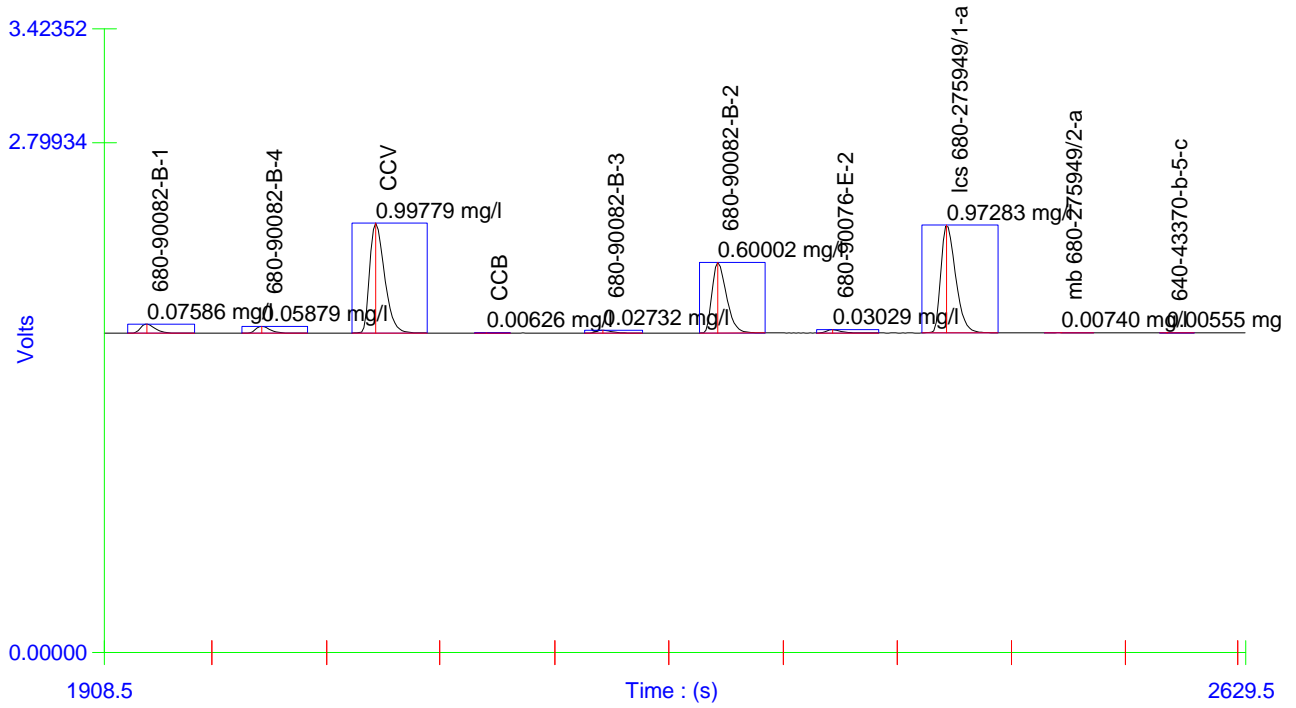
Channel 1 - Set: 1 / 5



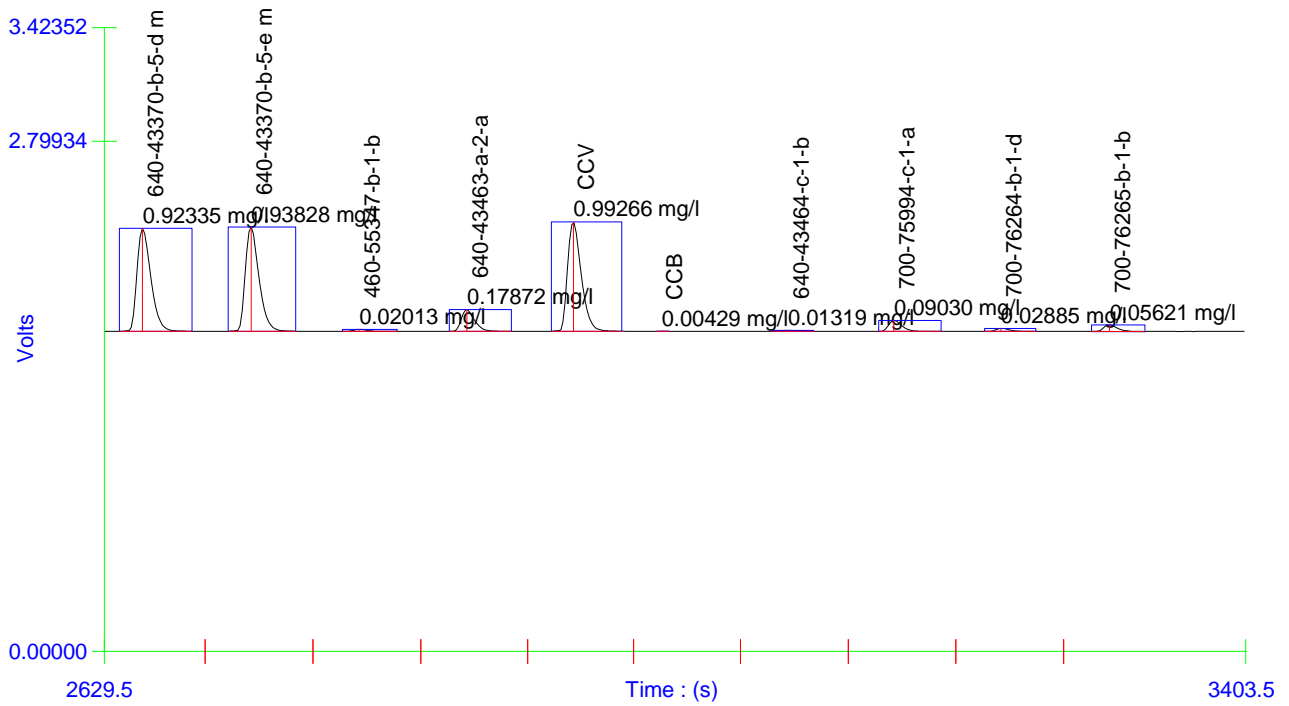
Channel 1 - Set: 2 / 5



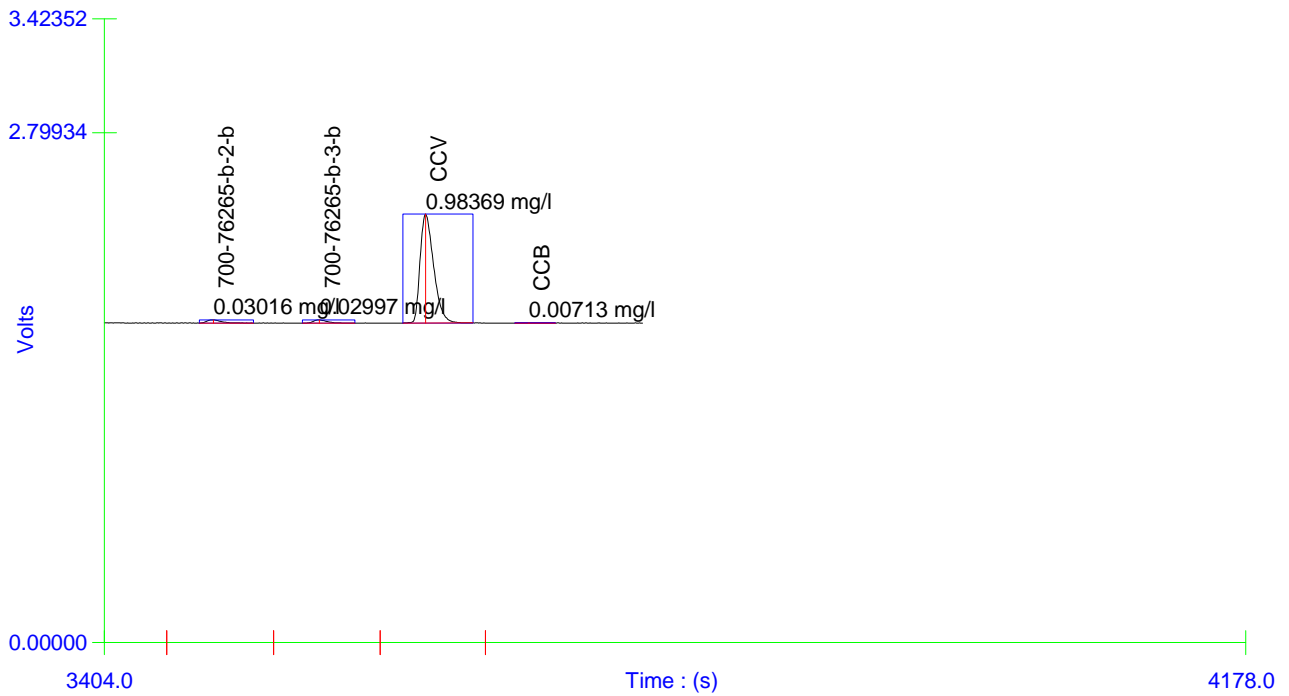
Channel 1 - Set: 3 / 5



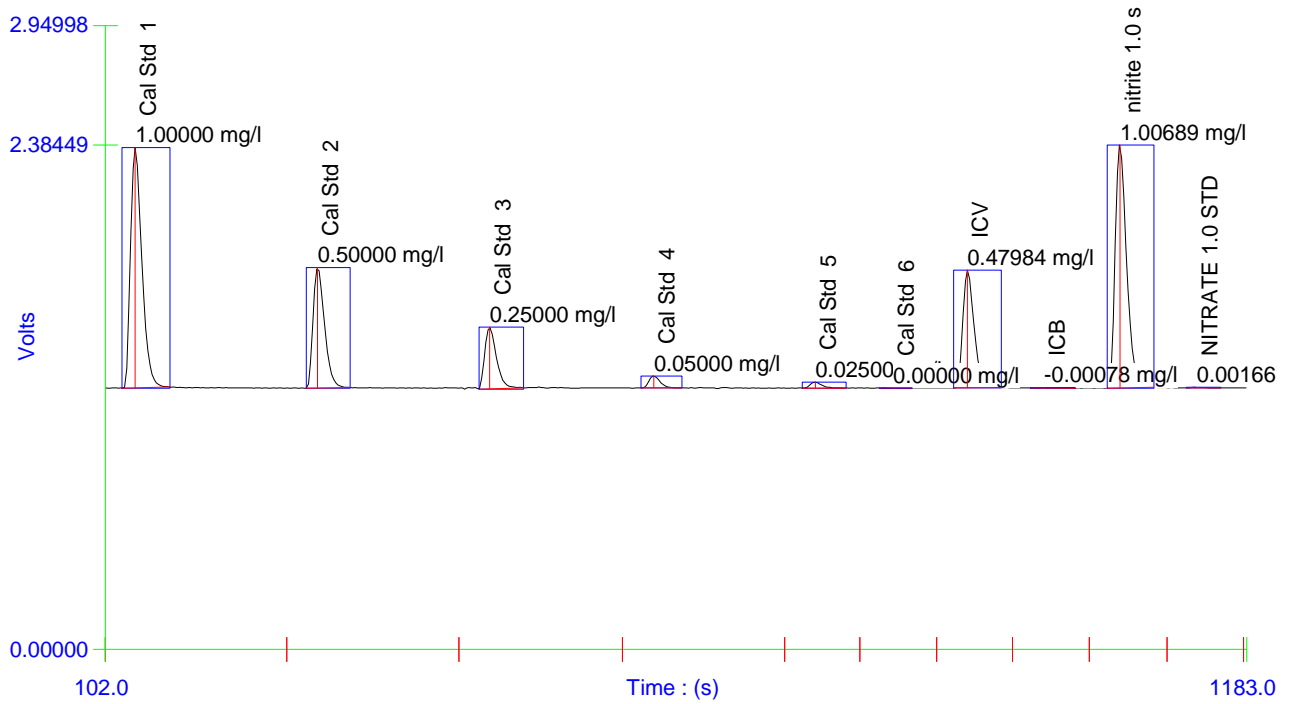
Channel 1 - Set: 4 / 5



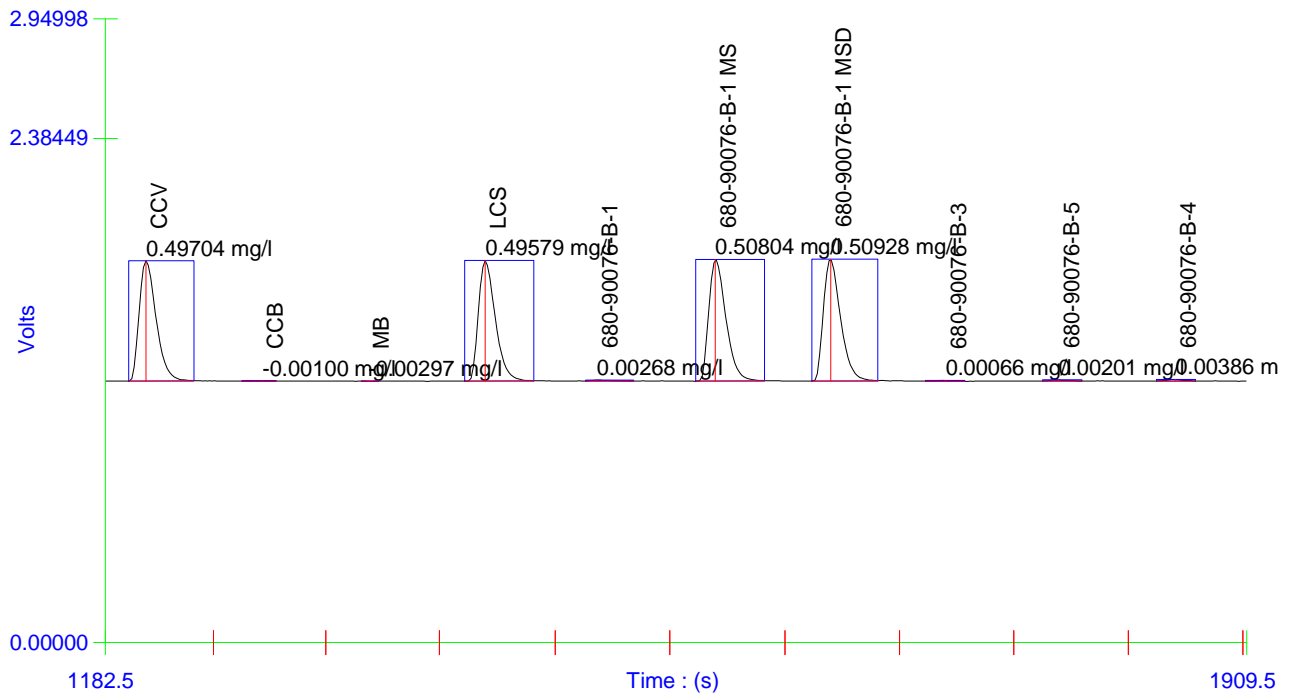
Channel 1 - Set: 5 / 5



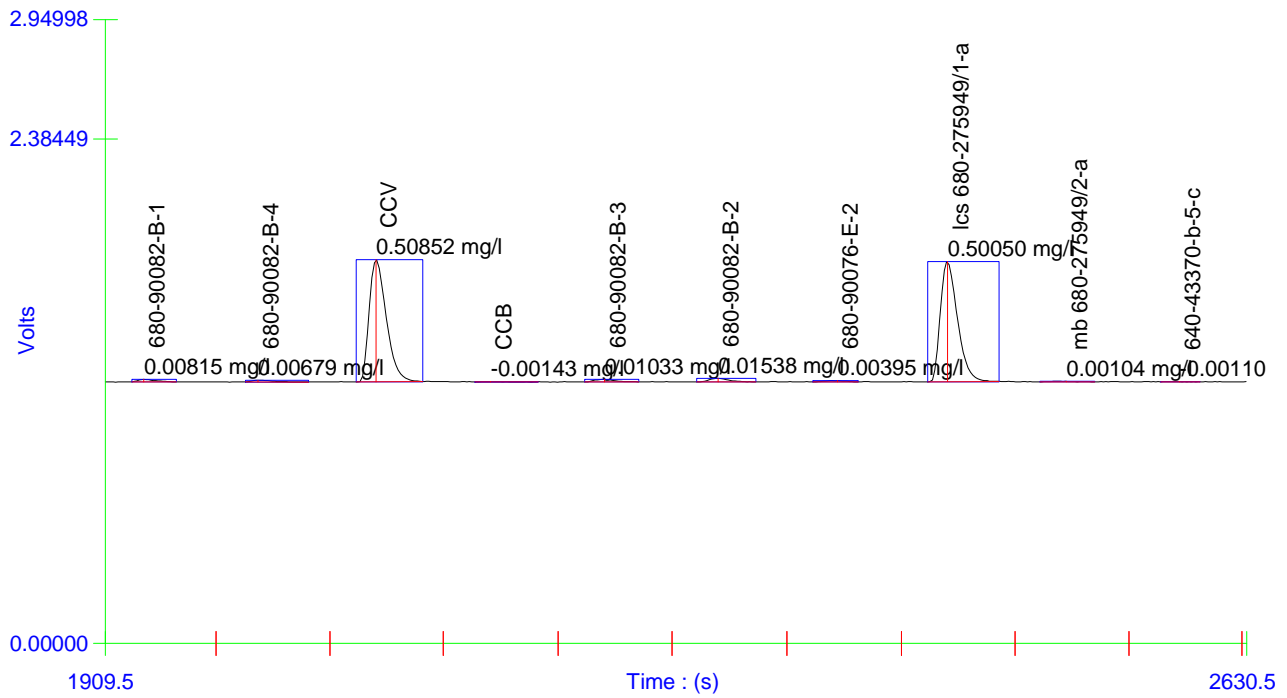
Channel 2 - Set: 1 / 5



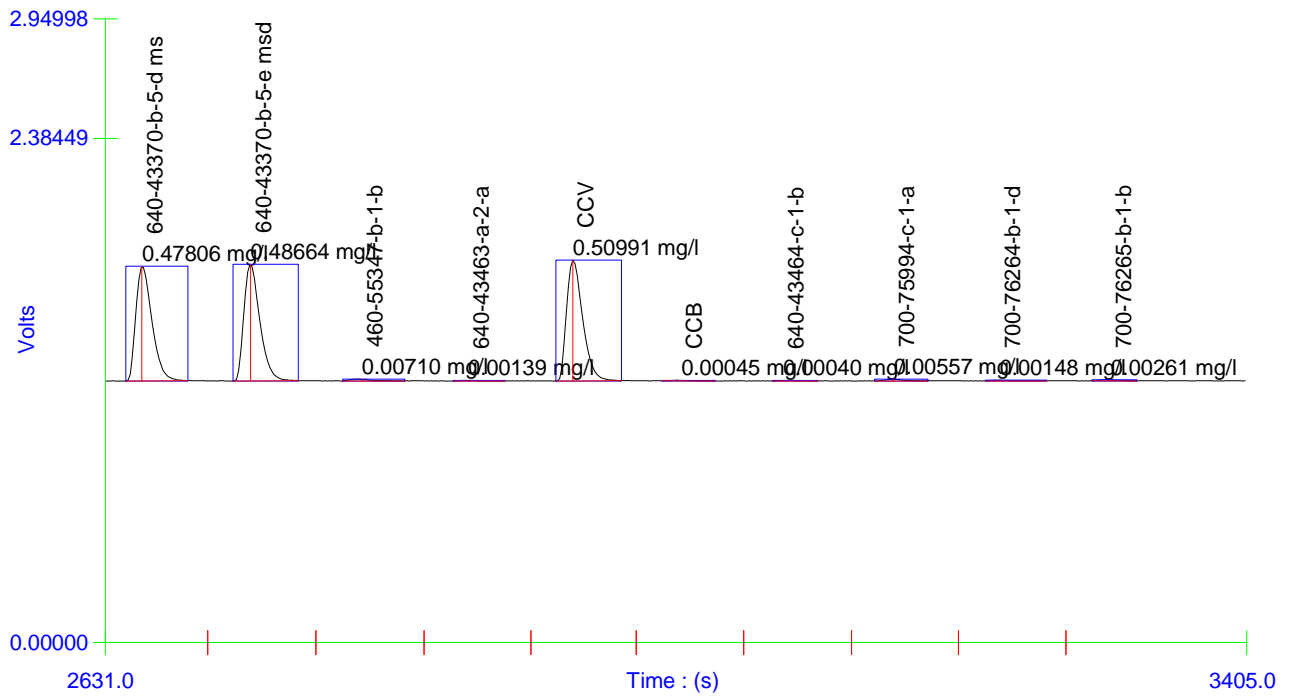
Channel 2 - Set: 2 / 5



Channel 2 - Set: 3 / 5



Channel 2 - Set: 4 / 5



Channel 2 - Set: 5 / 5

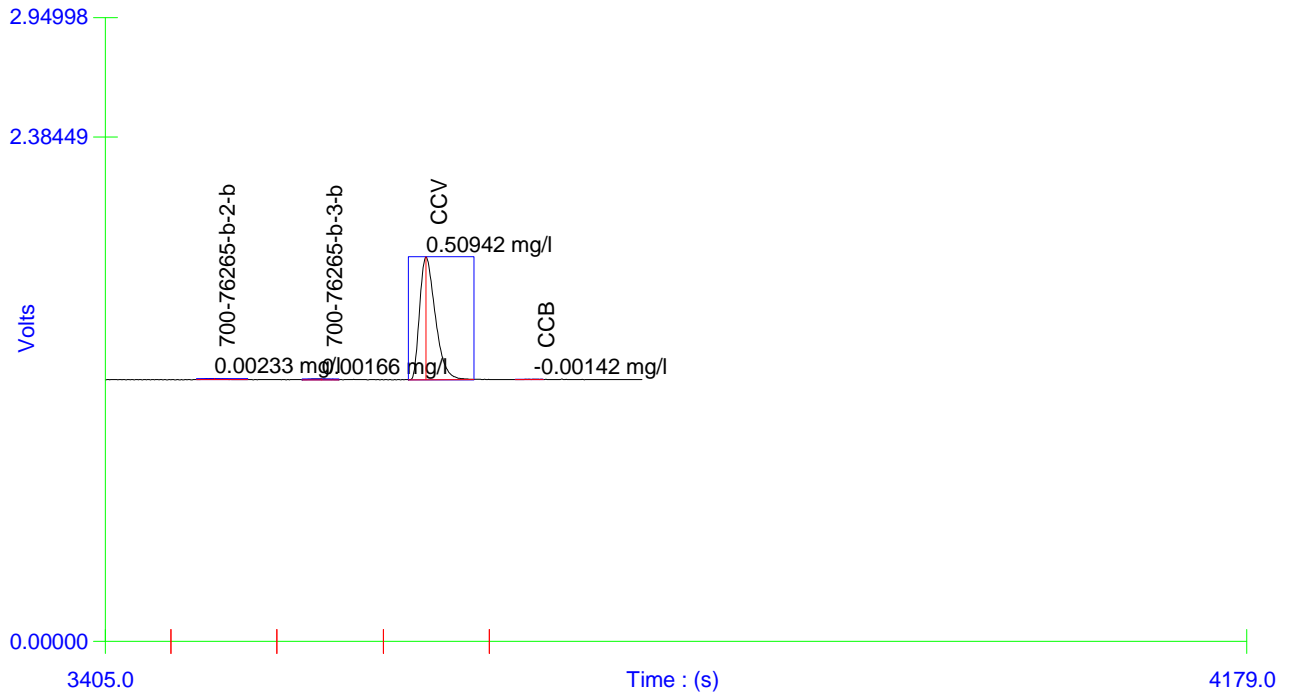


Table : 1 (NO3+NO2)

	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	11.86336	1.04665	0.0	0.0	1.99859	5/8/2013	16:03:12
2	1.00000	1	6.56353	0.61111	0.0	-0.2	1.00659	5/8/2013	16:06:06
3	0.50000	1	3.40266	0.32686	0.0	0.5	0.49276	5/8/2013	16:08:49
4	0.10000	1	0.68298	0.06739	0.0	1.7	0.09718	5/8/2013	16:11:25
5	0.05000	1	0.33877	0.03349	0.0	0.4	0.05018	5/8/2013	16:13:58
6	0.00000	1	0.00082	-0.00044			0.00471	5/8/2013	16:15:08

Figure : 1 (NO3+NO2)

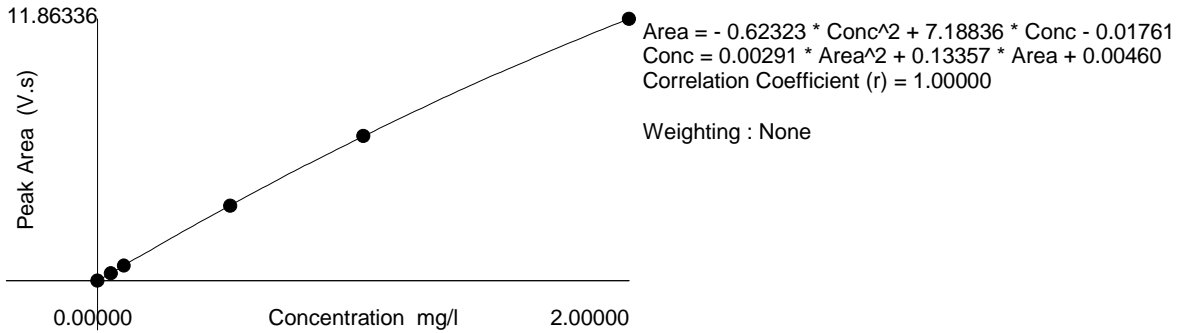
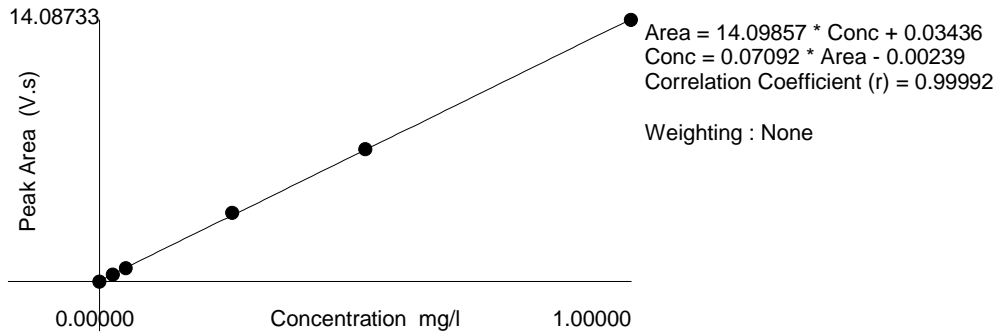


Table : 2 (NO2)

	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	14.08733	1.13550	0.0	0.3	0.99666	5/8/2013	16:03:15
2	0.50000	1	7.11710	0.56942	0.0	-0.5	0.50234	5/8/2013	16:06:08
3	0.25000	1	3.68345	0.29040	0.0	-3.5	0.25883	5/8/2013	16:08:51
4	0.05000	1	0.70539	0.05676	0.0	4.6	0.04764	5/8/2013	16:11:26
5	0.02500	1	0.36453	0.02863	0.0	5.8	0.02346	5/8/2013	16:14:00
6	0.00000	1	-0.02178	-0.00207			-0.00393	5/8/2013	16:15:11

Figure : 2 (NO2)



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G042613A-NPW.b/0027.d
Lab Smp Id: IC Client Smp ID: ANION-1
Inj Date : 26-APR-2013 15:51
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-1~2G042613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G042613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 29-Apr-2013 13:16 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 15:51 Cal File: 0027.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.083	3.083	0.000	59123	0.20000	0.19	

4	BROMIDE					CAS #: 24959-67-9
6.208	6.208	0.000	59362	1.00000	0.69	

2	CHLORIDE					CAS #: 16887-00-6
4.042	4.042	0.000	161264	1.00000	0.82	

3	SULFATE					CAS #: 14808-79-8
4.808	4.808	0.000	173475	1.00000	1.2	

Data File: 0027.d

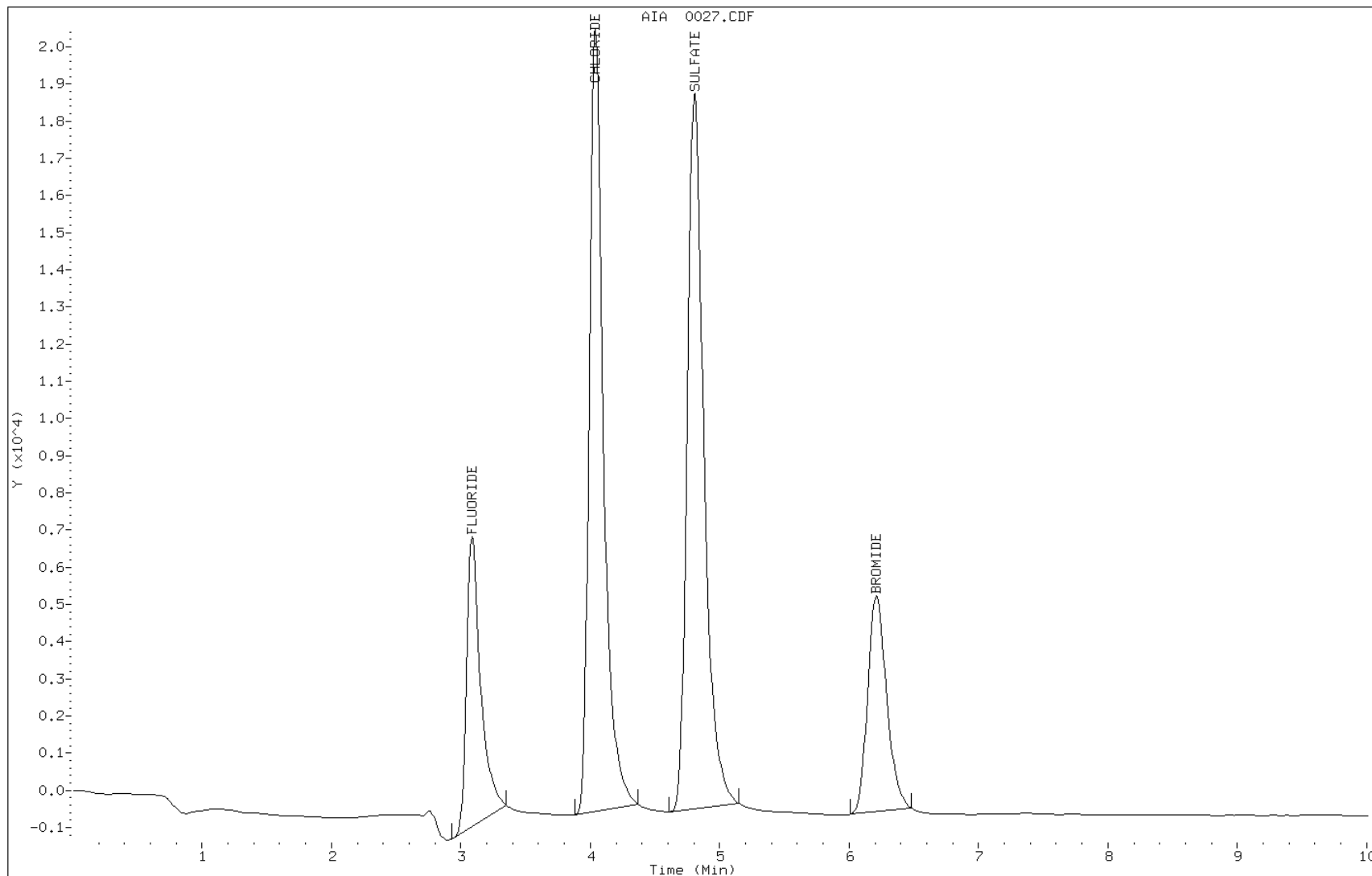
Date: 26-APR-2013 15:51

Client ID: ANION-1

Instrument: LCGIC.i

Sample Info: ANION-1~2G042613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G042613A-NPW.b/0028.d
Lab Smp Id: IC Client Smp ID: ANION-2
Inj Date : 26-APR-2013 16:03
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-2~2G042613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G042613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 29-Apr-2013 13:16 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:03 Cal File: 0028.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.083	3.083	0.000	123871	0.40000	0.39	

4	BROMIDE					CAS #: 24959-67-9
6.208	6.208	0.000	133321	2.00000	1.6	

2	CHLORIDE					CAS #: 16887-00-6
4.033	4.033	0.000	351252	2.00000	1.8	

3	SULFATE					CAS #: 14808-79-8
4.792	4.792	0.000	329476	2.00000	2.2	

Data File: 0028.d

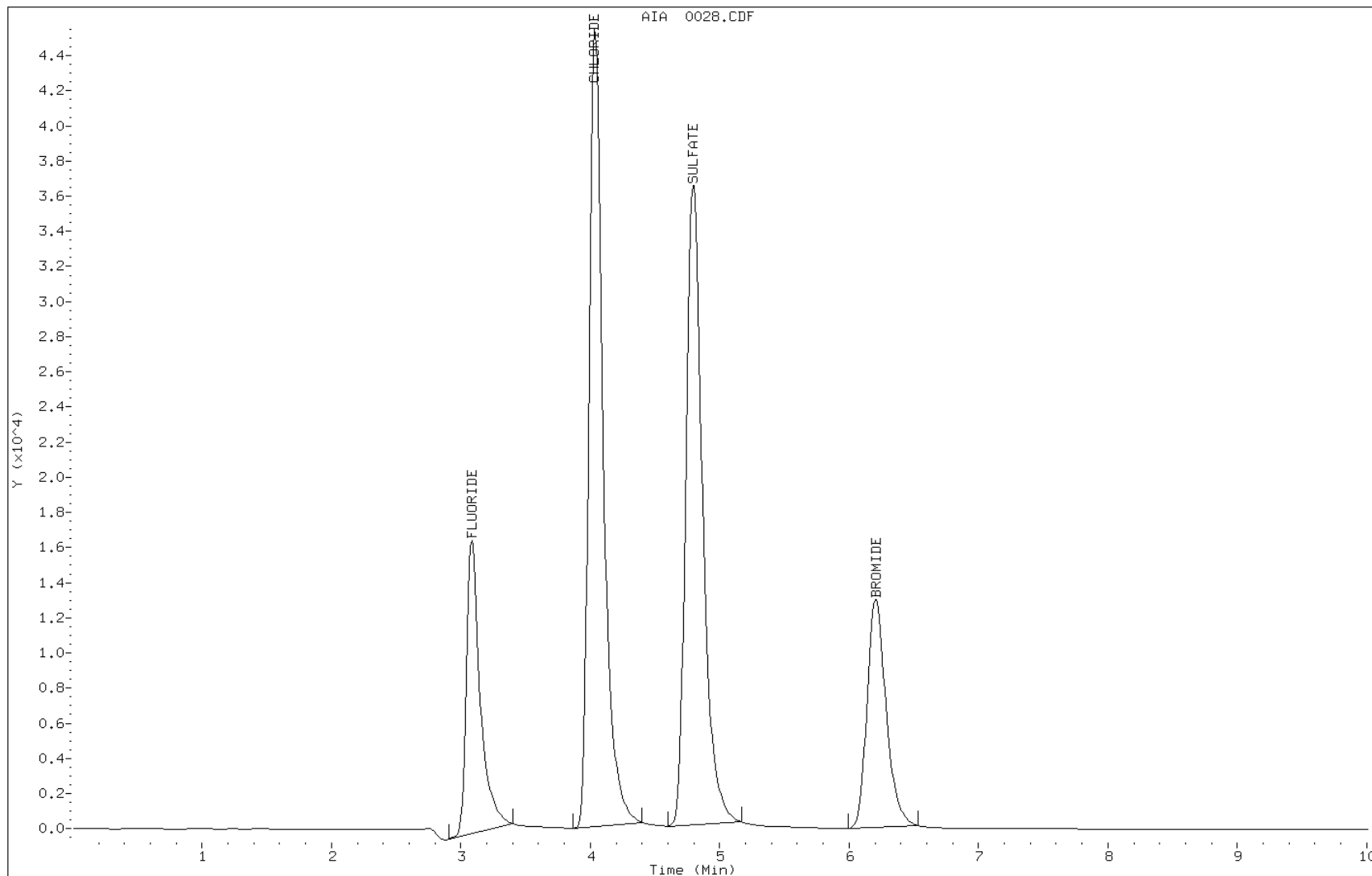
Date: 26-APR-2013 16:03

Client ID: ANION-2

Instrument: LCGIC.i

Sample Info: ANION-2~2G042613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G042613A-NPW.b/0029.d
Lab Smp Id: IC Client Smp ID: ANION-3
Inj Date : 26-APR-2013 16:16
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-3~2G042613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G042613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 29-Apr-2013 13:16 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:16 Cal File: 0029.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.083	3.083	0.000	316257	1.00000	1.0	

4	BROMIDE					CAS #: 24959-67-9
6.200	6.200	0.000	375419	5.00000	4.4	

2	CHLORIDE					CAS #: 16887-00-6
4.042	4.042	0.000	927871	5.00000	4.7	

3	SULFATE					CAS #: 14808-79-8
4.800	4.800	0.000	756935	5.00000	5.1	

Data File: 0029.d

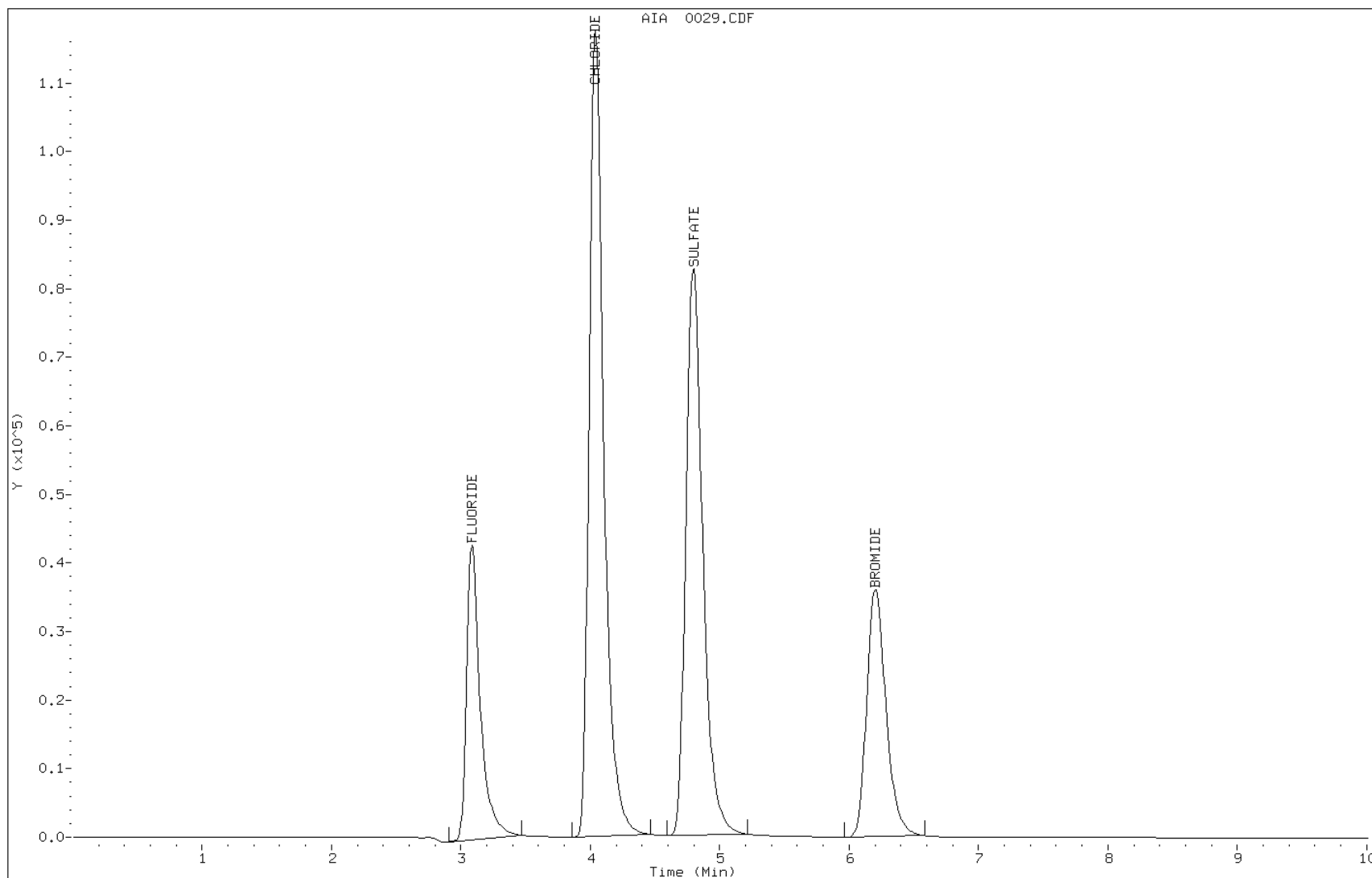
Date: 26-APR-2013 16:16

Client ID: ANION-3

Instrument: LCGIC.i

Sample Info: ANION-3~2G042613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G042613A-NPW.b/0030.d
Lab Smp Id: IC Client Smp ID: ANION-4
Inj Date : 26-APR-2013 16:28
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-4~2G042613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G042613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 29-Apr-2013 13:16 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:28 Cal File: 0030.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.083	3.083	0.000	640138	2.00000	2.0	

4	BROMIDE					CAS #: 24959-67-9
6.200	6.200	0.000	798625	10.0000	9.3	

2	CHLORIDE					CAS #: 16887-00-6
4.033	4.033	0.000	1903999	10.0000	9.7	

3	SULFATE					CAS #: 14808-79-8
4.792	4.792	0.000	1475410	10.0000	10	

Data File: 0030.d

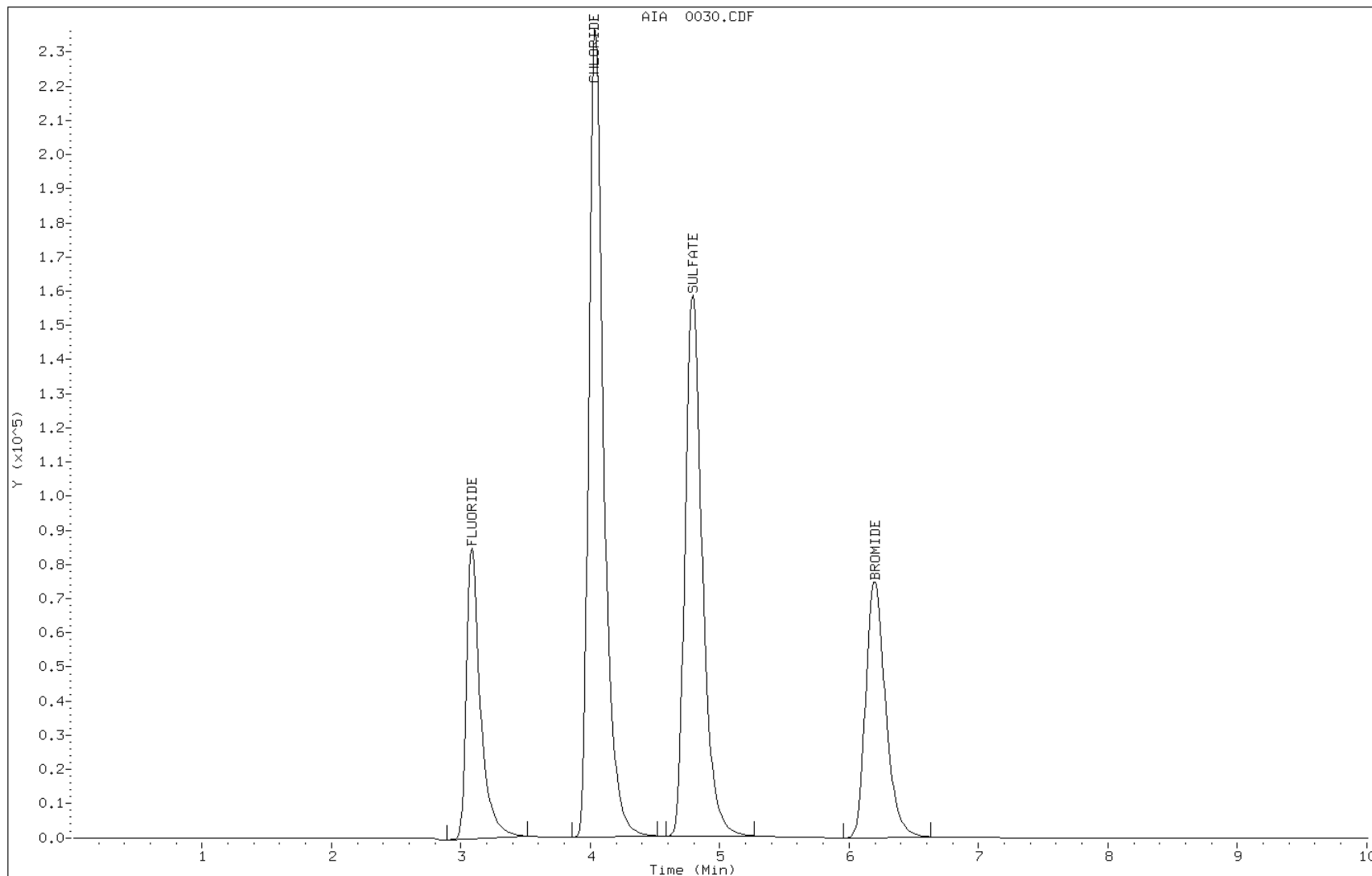
Date: 26-APR-2013 16:28

Client ID: ANION-4

Instrument: LCGIC.i

Sample Info: ANION-4~2G042613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G042613A-NPW.b/0031.d
Lab Smp Id: IC Client Smp ID: ANION-5
Inj Date : 26-APR-2013 16:40
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-5~2G042613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G042613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 29-Apr-2013 13:16 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:40 Cal File: 0031.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.083	3.083	0.000	1284576	4.00000	4.1	

4	BROMIDE				CAS #: 24959-67-9	
6.184	6.184	0.000	1669627	20.0000	19	

2	CHLORIDE				CAS #: 16887-00-6	
4.034	4.034	0.000	3891689	20.0000	20	

3	SULFATE				CAS #: 14808-79-8	
4.792	4.792	0.000	2940666	20.0000	20	

Data File: 0031.d

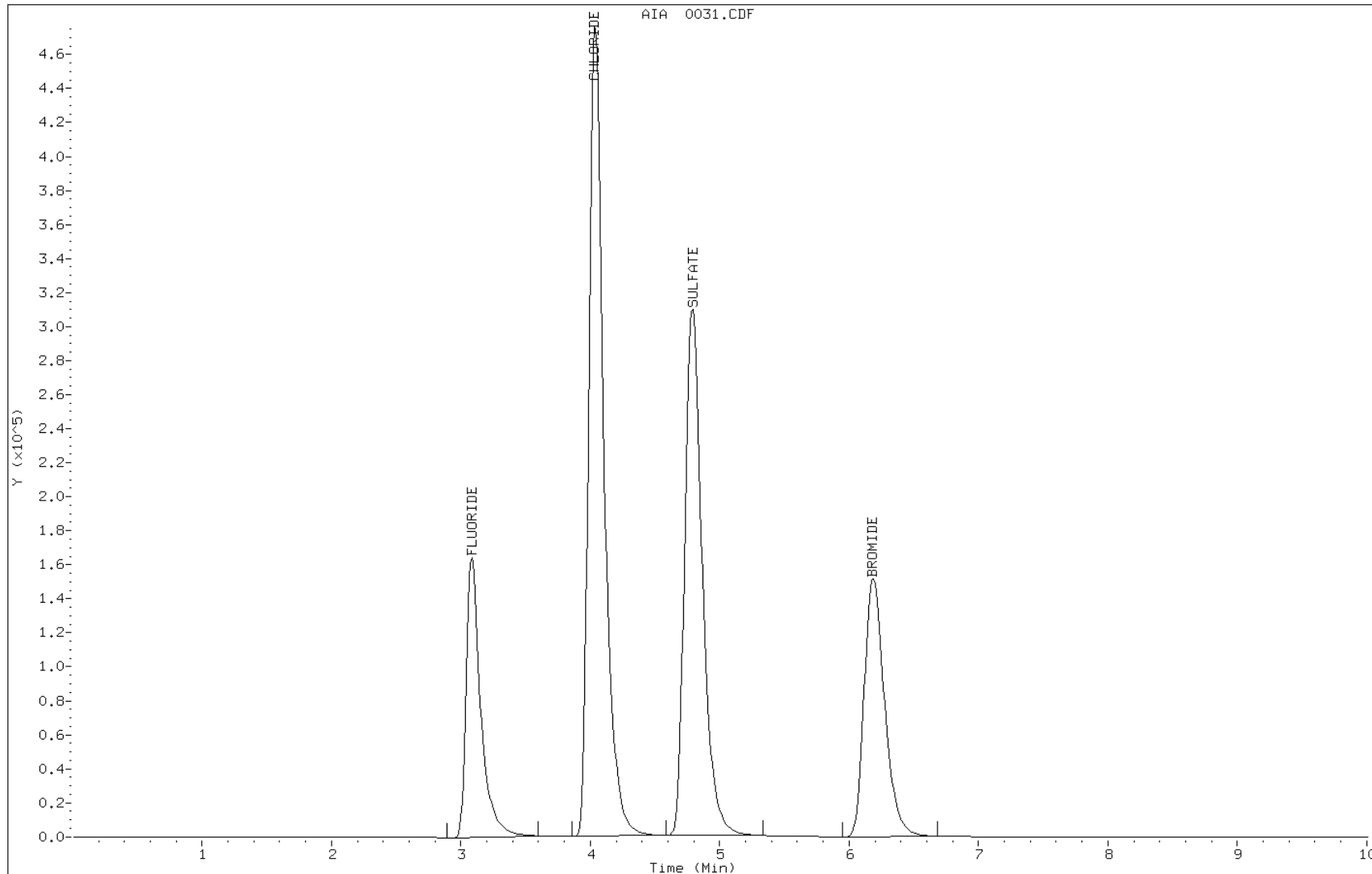
Date: 26-APR-2013 16:40

Client ID: ANION-5

Instrument: LCGIC.i

Sample Info: ANION-5~2G042613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G042613A-NPW.b/0032.d
Lab Smp Id: IC Client Smp ID: ANION-6
Inj Date : 26-APR-2013 16:53
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-6~2G042613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G042613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 29-Apr-2013 13:16 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.083	3.083	0.000	3134087	10.0000	10	

4	BROMIDE				CAS #: 24959-67-9	
6.159	6.159	0.000	4318355	50.0000	50	(A)

2	CHLORIDE				CAS #: 16887-00-6	
4.034	4.034	0.000	9854364	50.0000	50	(A)

3	SULFATE				CAS #: 14808-79-8	
4.775	4.775	0.000	7362046	50.0000	50	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: 0032.d

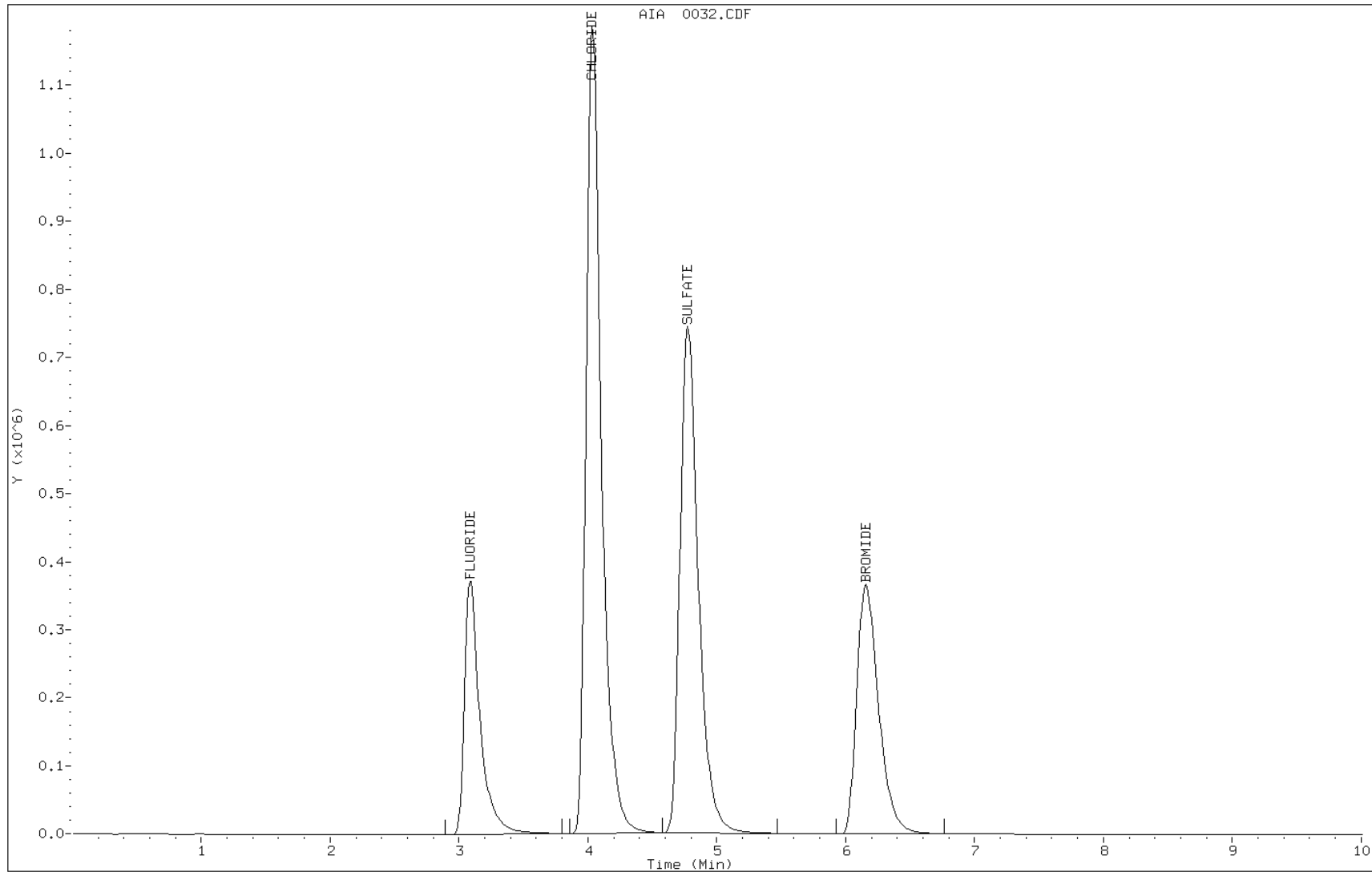
Date: 26-APR-2013 16:53

Client ID: ANION-6

Instrument: LCGIC.i

Sample Info: ANION-6~2G042613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G051613A-NPW.b/0017.d
Lab Smp Id: ANION-4 Client Smp ID: ANION-4
Inj Date : 16-MAY-2013 14:58
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-4~1G051613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G051613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 16-May-2013 17:09 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	
==	=====	=====	RESPONSE (mg/L)	(mg/L)	
			=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8
3.092	3.092	0.000	601812 2.00000	1.9	

4	BROMIDE				CAS #: 24959-67-9
6.150	6.150	0.000	767299 10.0000	9.0	

2	CHLORIDE				CAS #: 16887-00-6
4.034	4.034	0.000	1840600 10.0000	9.4	

3	SULFATE				CAS #: 14808-79-8
4.758	4.758	0.000	1393586 10.0000	9.5	

Data File: 0017.d

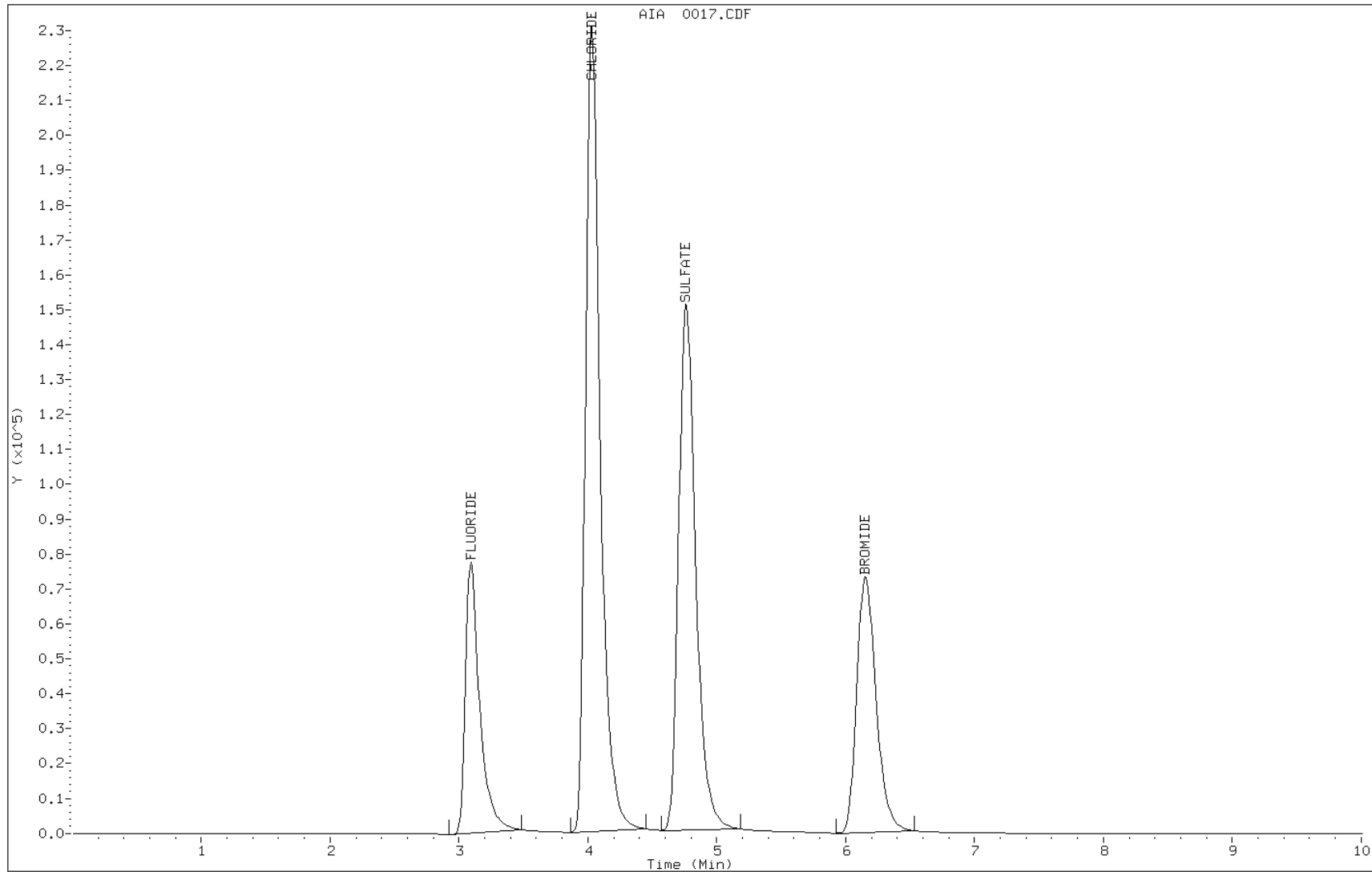
Date: 16-MAY-2013 14:58

Client ID: ANION-4

Instrument: LCGIC.i

Sample Info: ANION-4~1G051613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G051613A-NPW.b/0018.d
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 16-MAY-2013 15:11
Operator : PT Inst ID: LCGIC.i
Smp Info : CCB~1G051613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G051613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 16-May-2013 17:09 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS				
		ON-COL	FINAL	
RT	EXP RT	DLT RT	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====

Data File: 0018.d

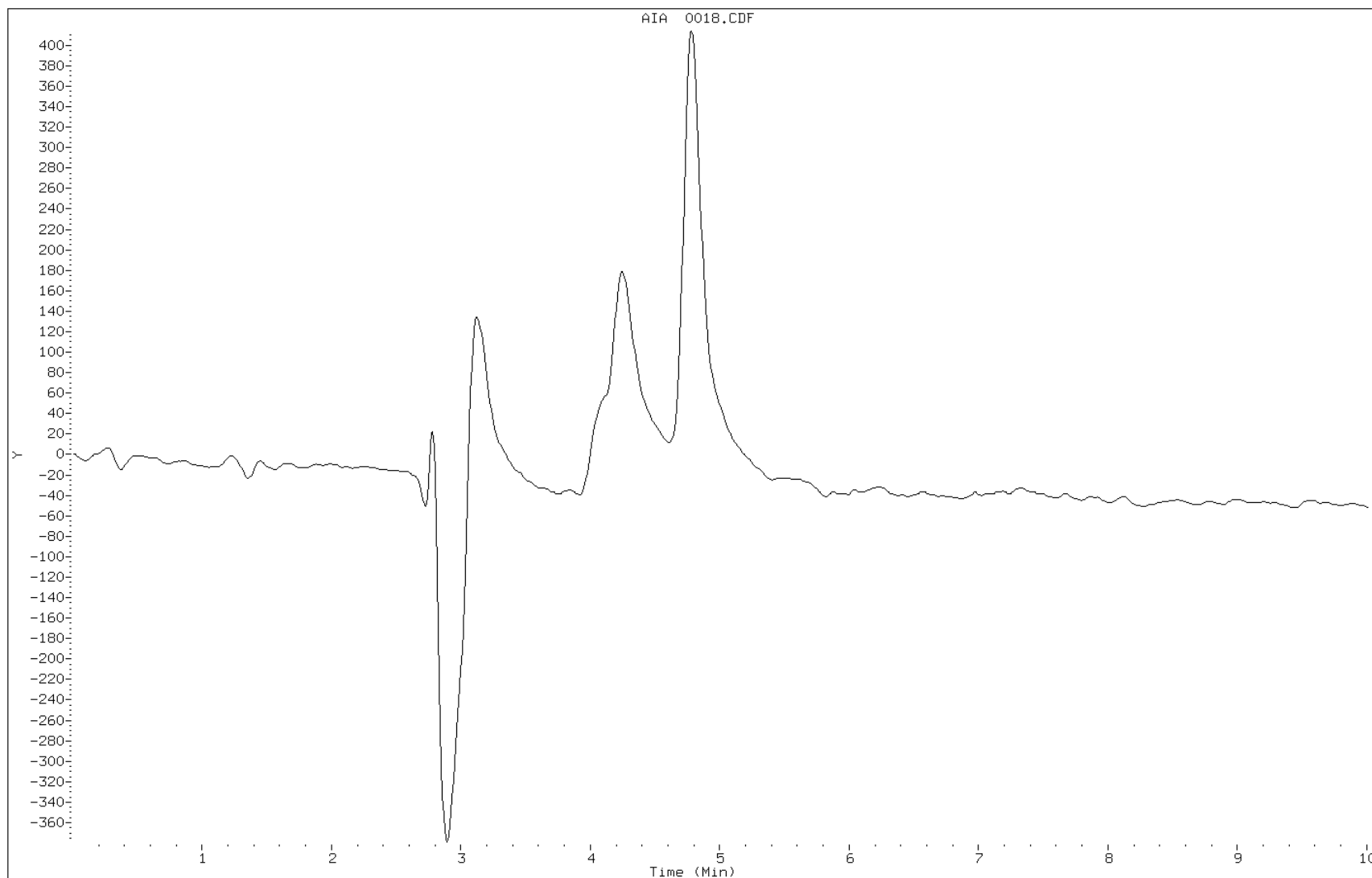
Date: 16-MAY-2013 15:11

Client ID: MB

Instrument: LCGIC.i

Sample Info: CCB~1G051613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G051613A-NPW.b/0019.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 16-MAY-2013 16:57
Operator : PT Inst ID: LCGIC.i
Smp Info : LCS~2G051613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G051613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 16-May-2013 17:09 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.092	3.092	0.000	609474	1.93676	9.7	
4	BROMIDE					CAS #: 24959-67-9
6.159	6.150	0.009	772047	9.01003	45	
2	CHLORIDE					CAS #: 16887-00-6
4.034	4.034	0.000	1874978	9.54570	48	
3	SULFATE					CAS #: 14808-79-8
4.775	4.758	0.017	1463600	9.93654	50	

Data File: 0019.d

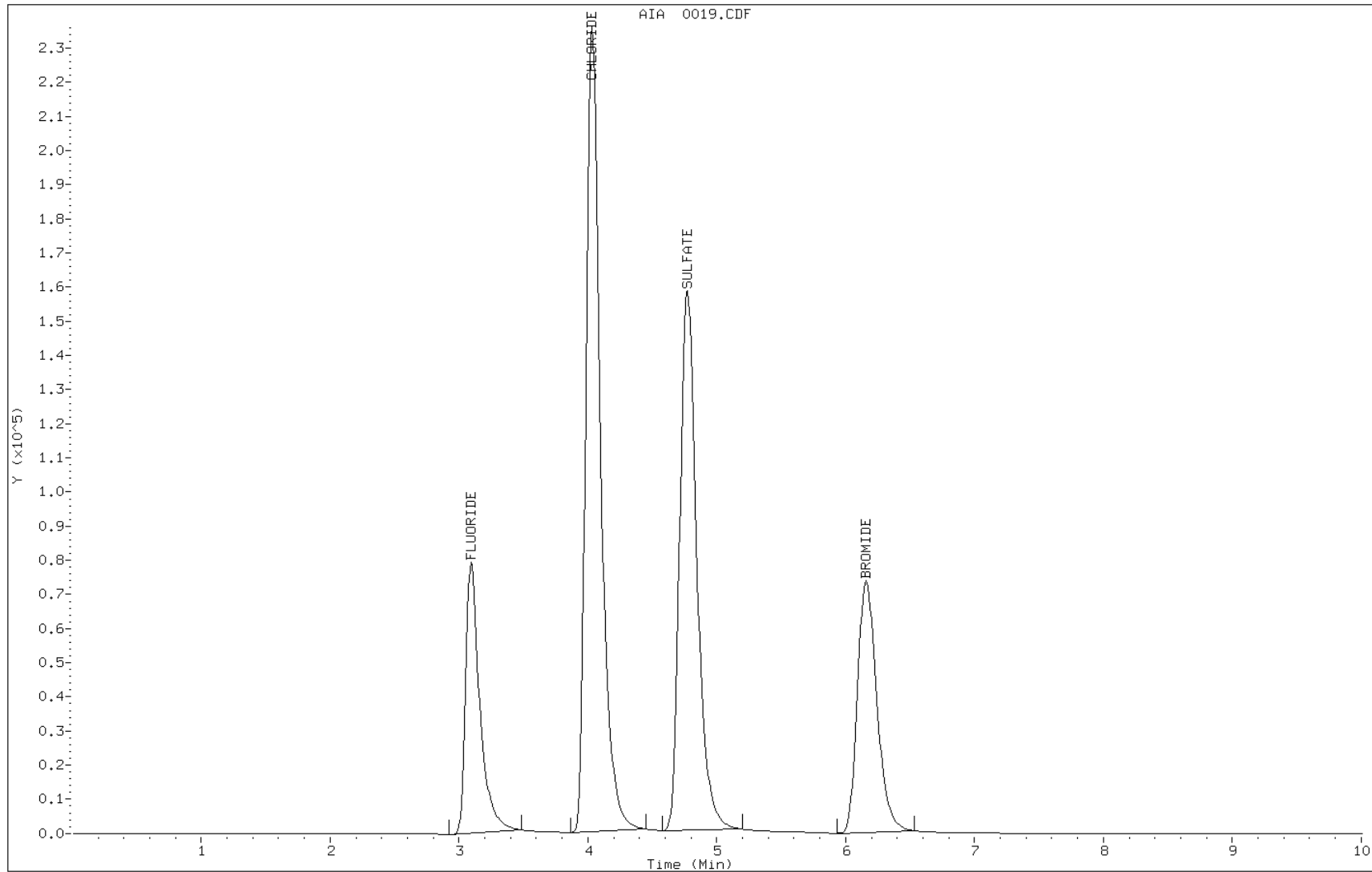
Date: 16-MAY-2013 16:57

Client ID: LCS

Instrument: LCGIC.i

Sample Info: LCS~2G051613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G051613A-NPW.b/0020.d
 Lab Smp Id: LCSD Client Smp ID: LCSD
 Inj Date : 16-MAY-2013 17:09
 Operator : PT Inst ID: LCGIC.i
 Smp Info : LCSD~2G051613
 Misc Info : None
 Comment :
 Method : /chem/LC/LCGIC.i/2G051613A-NPW.b/g-NPW-300-9056-9056A.m
 Meth Date : 16-May-2013 17:09 tankersp Quant Type: ESTD
 Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
 Als bottle: 1 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: Anion.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	RESPONSE (mg/L)	FINAL	CAS #
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.092	3.092	0.000	616134	1.95792	9.8	
4	BROMIDE					CAS #: 24959-67-9
6.159	6.150	0.009	772082	9.01044	45	
2	CHLORIDE					CAS #: 16887-00-6
4.034	4.034	0.000	1877420	9.55814	48	
3	SULFATE					CAS #: 14808-79-8
4.767	4.758	0.009	1483483	10.0715	50	

Data File: 0020.d

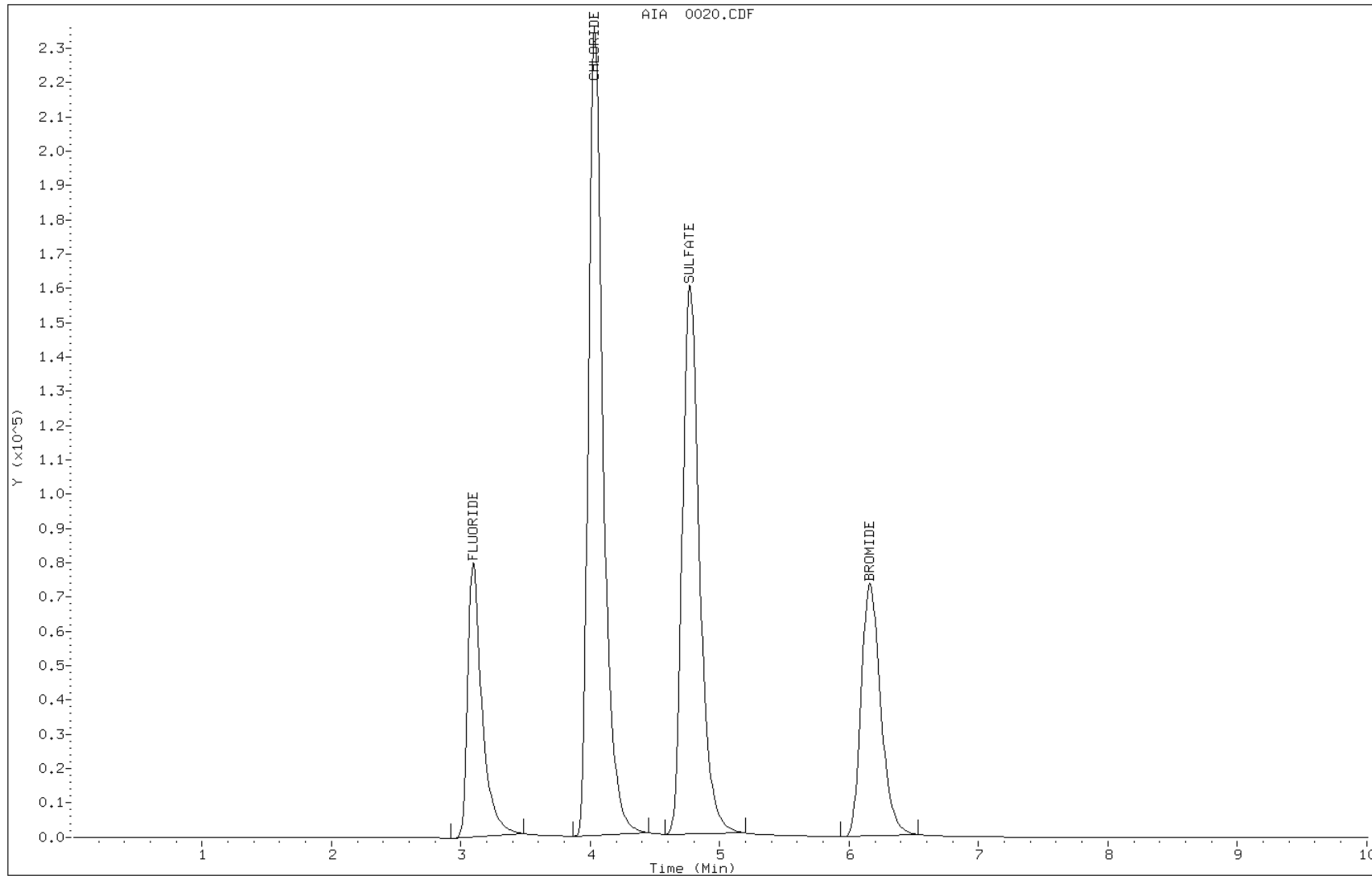
Date: 16-MAY-2013 17:09

Client ID: LCSD

Instrument: LCGIC.i

Sample Info: LCSD~2G051613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G051613A-NPW.b/0026.d
Lab Smp Id: 680-90076-B-1 Client Smp ID: 25LM20107
Inj Date : 16-MAY-2013 18:24
Operator : PT Inst ID: LCGIC.i
Smp Info : 680-90076-B-1~2G051613
Misc Info : 680-90076-B-1
Comment :
Method : /chem/LC/LCGIC.i/2G051613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 16-May-2013 17:09 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS					
			ON-COL	FINAL	
RT	EXP RT	DLT RT	RESPONSE (mg/L)	(mg/l)	
==	=====	=====	=====	=====	=====
3	SULFATE			CAS #:	14808-79-8
4.767	4.758	0.009	280801 1.90640	9.5	

Data File: 0026.d

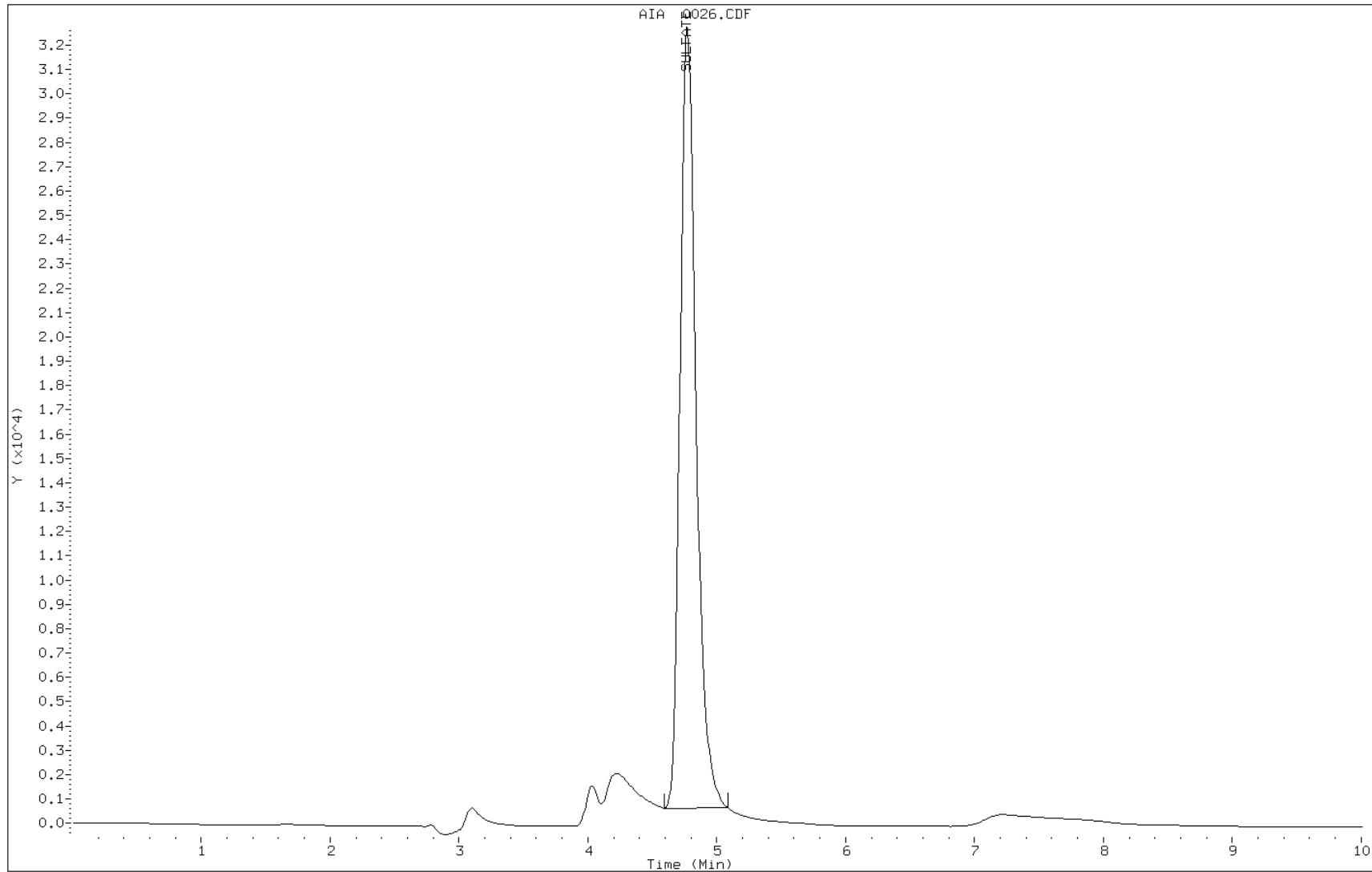
Date: 16-MAY-2013 18:24

Client ID: 25LM20107

Instrument: LCGIC.i

Sample Info: 680-90076-B-1~2G051613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G051613A-NPW.b/0027.d
Lab Smp Id: 680-90076-B-3 Client Smp ID: 25LM20100
Inj Date : 16-MAY-2013 18:36
Operator : PT Inst ID: LCGIC.i
Smp Info : 680-90076-B-3~2G051613
Misc Info : 680-90076-B-3
Comment :
Method : /chem/LC/LCGIC.i/2G051613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 16-May-2013 17:09 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (mg/L)	(mg/l)
2						
4.033	4.034	-0.001	13285	0.06764	0.34	(a)

3						
4.767	4.758	0.009	849647	5.76835	29	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: 0027.d

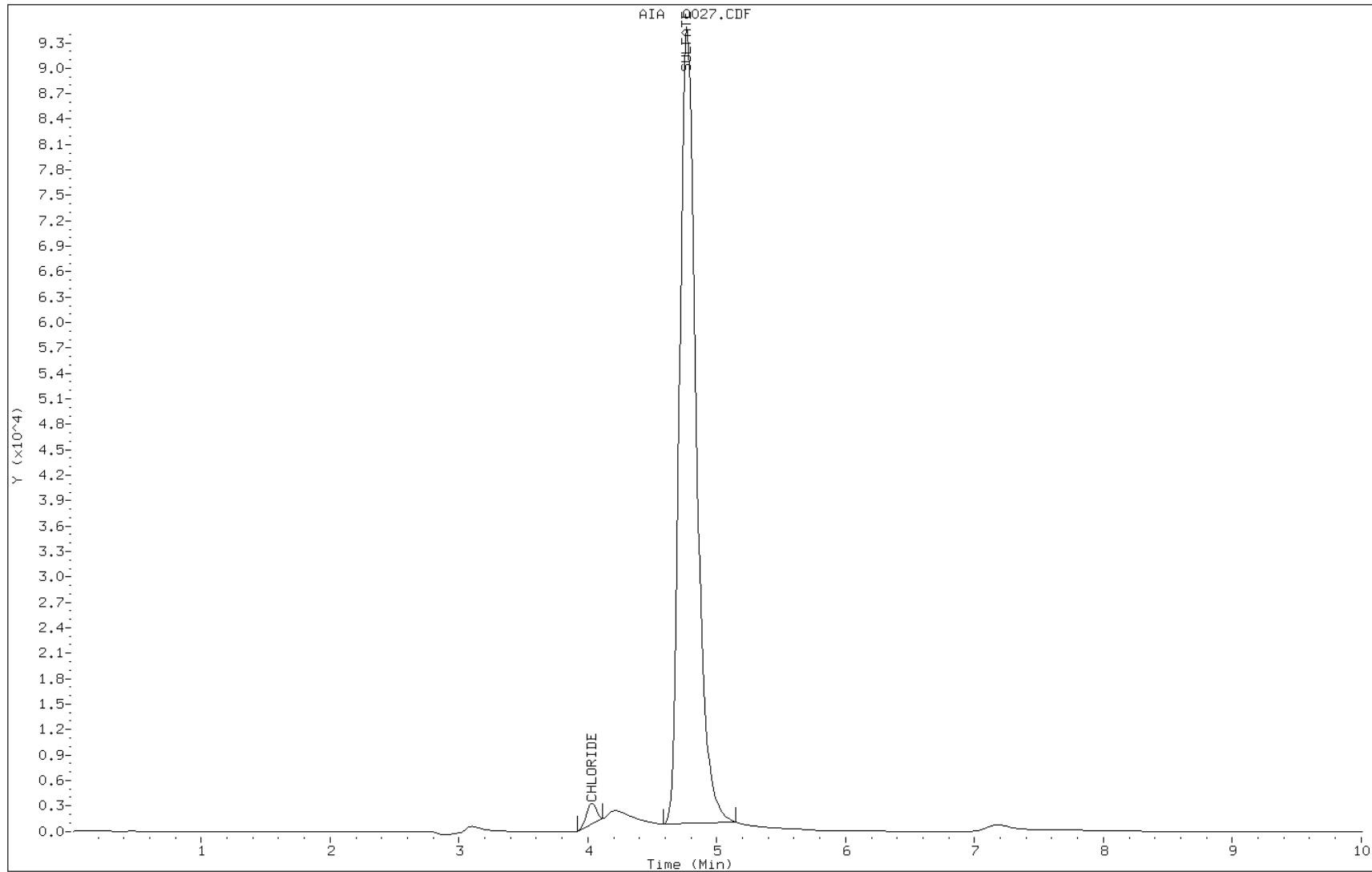
Date: 16-MAY-2013 18:36

Client ID: 25LM20100

Instrument: LCGIC.i

Sample Info: 680-90076-B-3~2G051613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G051613A-NPW.b/0028.d
 Lab Smp Id: 680-90076-B-4 Client Smp ID: 25LM20103
 Inj Date : 16-MAY-2013 18:49
 Operator : PT Inst ID: LCGIC.i
 Smp Info : 680-90076-B-4~2G051613
 Misc Info : 680-90076-B-4
 Comment :
 Method : /chem/LC/LCGIC.i/2G051613A-NPW.b/g-NPW-300-9056-9056A.m
 Meth Date : 16-May-2013 17:09 tankersp Quant Type: ESTD
 Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: Anion.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	RESPONSE (mg/L)	FINAL	
==	=====	=====	=====	=====	=====	=====
2 CHLORIDE			CAS #: 16887-00-6			
4.033	4.034	-0.001	15276	0.07777	0.39	(a)
3 SULFATE			CAS #: 14808-79-8			
4.775	4.758	0.017	358259	2.43226	12	

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: 0028.d

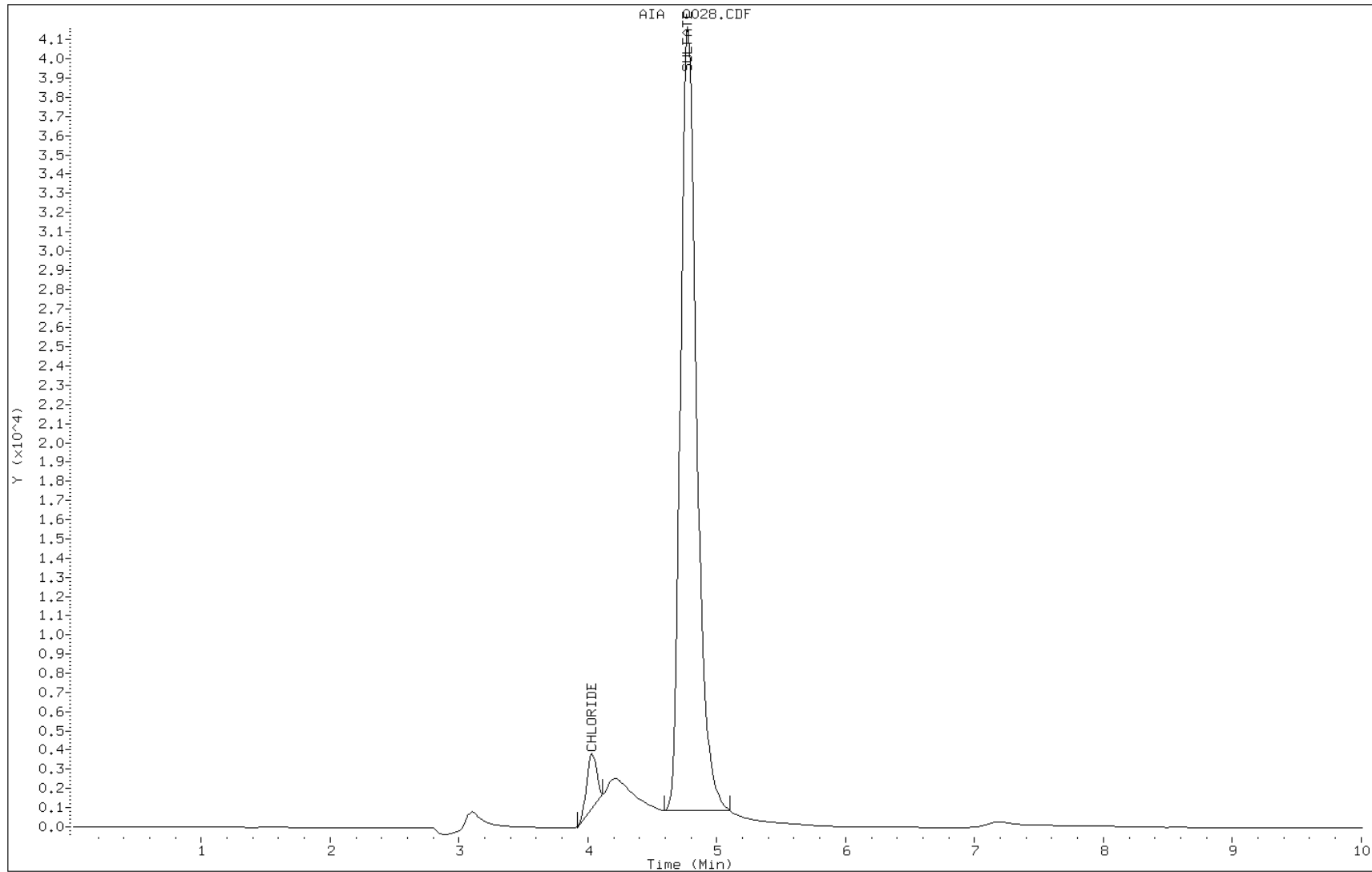
Date: 16-MAY-2013 18:49

Client ID: 25LM20103

Instrument: LCGIC.i

Sample Info: 680-90076-B-4~2G051613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G051613A-NPW.b/0029.d
Lab Smp Id: 680-90076-B-5 Client Smp ID: 25LM20104
Inj Date : 16-MAY-2013 19:01
Operator : PT Inst ID: LCGIC.i
Smp Info : 680-90076-B-5~2G051613
Misc Info : 680-90076-B-5
Comment :
Method : /chem/LC/LCGIC.i/2G051613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 16-May-2013 17:09 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (mg/L)	(mg/l)
2						
4.033	4.034	-0.001	16408	0.08353	0.42	(a)

3						
4.775	4.758	0.017	821426	5.57675	28	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: 0029.d

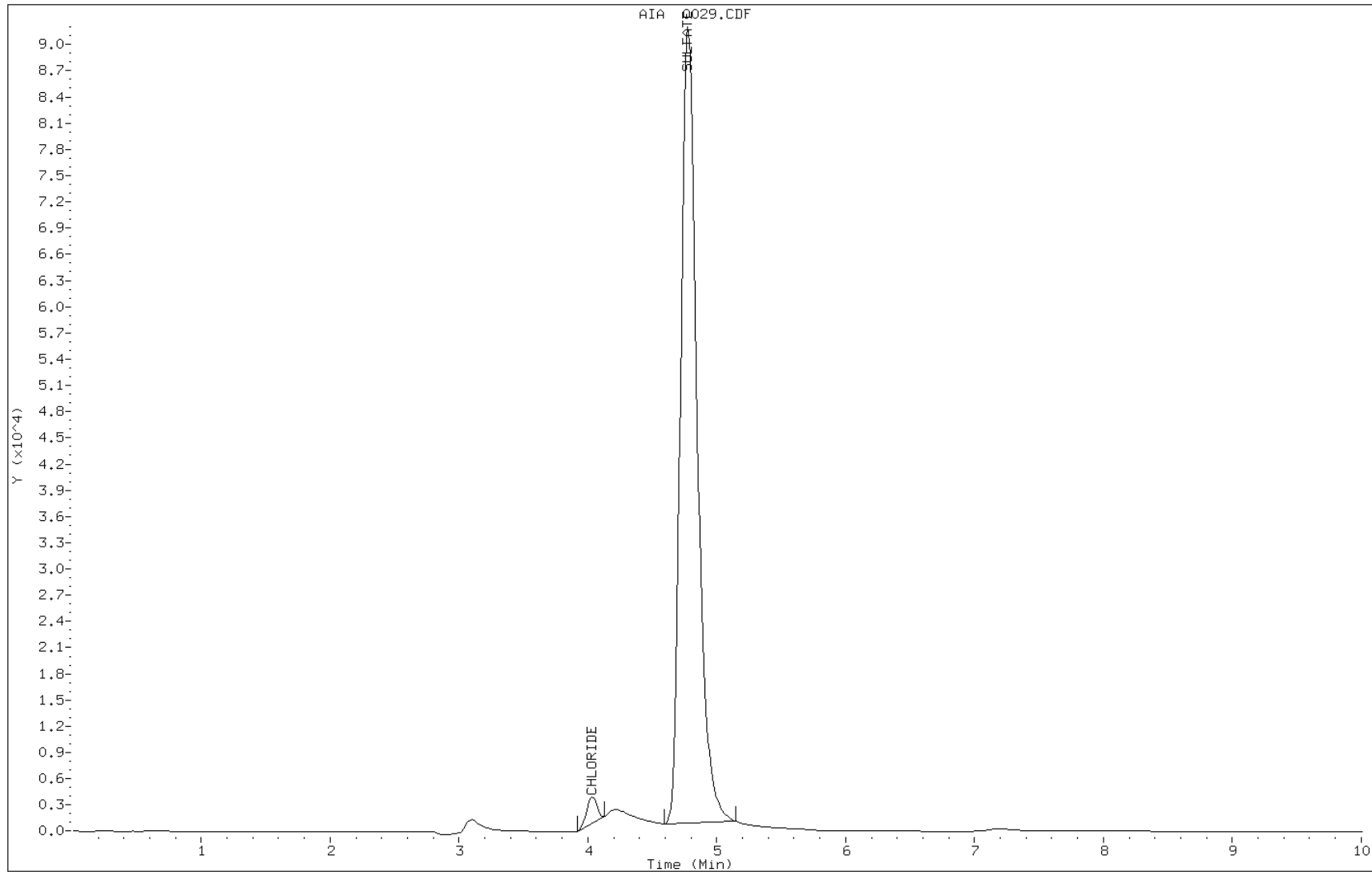
Date: 16-MAY-2013 19:01

Client ID: 25LM20104

Instrument: LCGIC.i

Sample Info: 680-90076-B-5~2G051613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G051613A-NPW.b/0031.d
Lab Smp Id: ANION-4 Client Smp ID: ANION-4
Inj Date : 16-MAY-2013 19:26
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-4~2G051613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G051613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 17-May-2013 13:35 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL
			RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====
1	FLUORIDE			CAS #: 16984-48-8
3.092	3.092	0.000	602794 2.00000	1.9

4	BROMIDE			CAS #: 24959-67-9
6.159	6.159	0.000	767217 10.0000	9.0

2	CHLORIDE			CAS #: 16887-00-6
4.034	4.034	0.000	1843259 10.0000	9.4

3	SULFATE			CAS #: 14808-79-8
4.767	4.767	0.000	1373598 10.0000	9.3

Data File: 0031.d

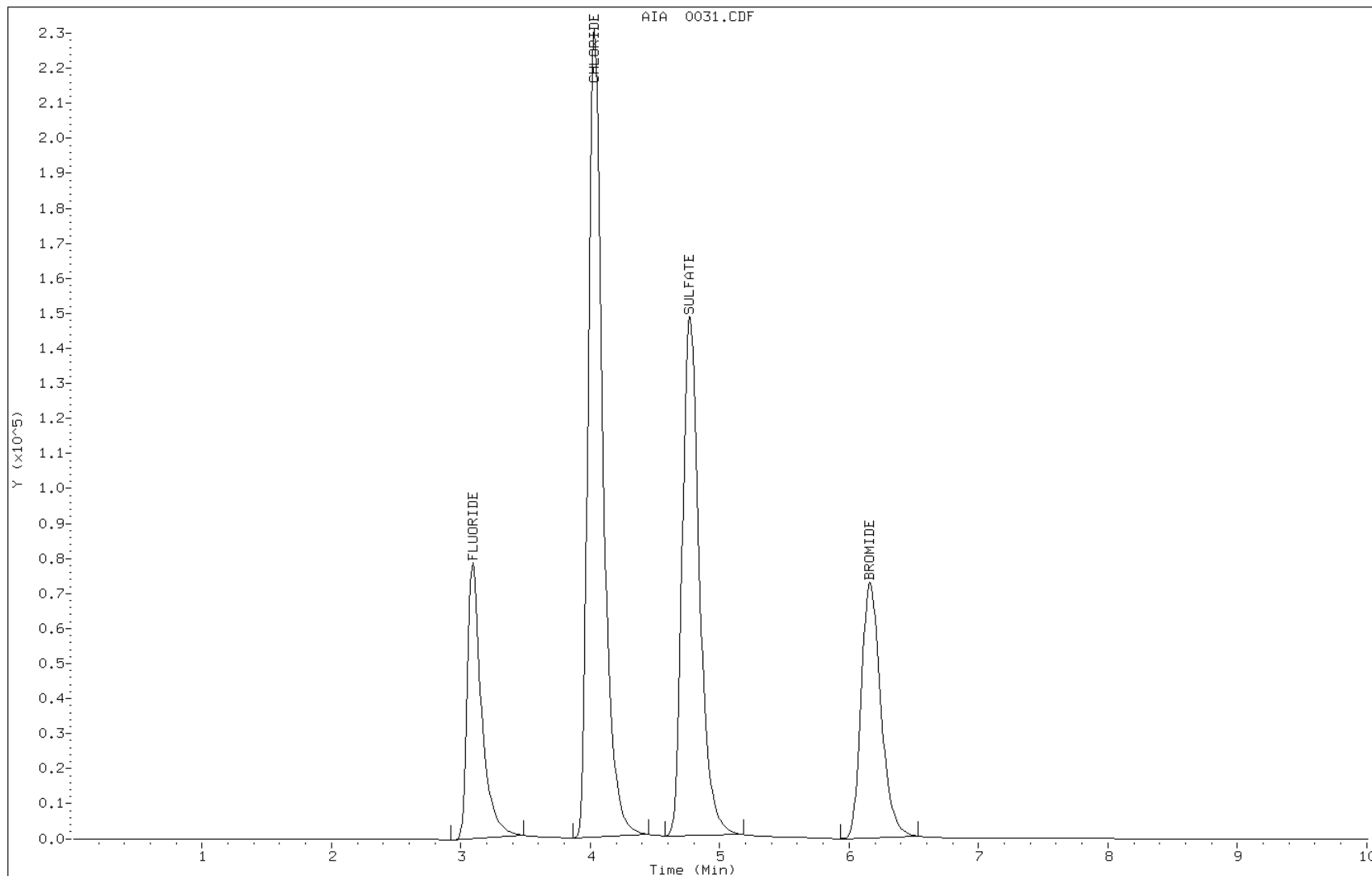
Date: 16-MAY-2013 19:26

Client ID: ANION-4

Instrument: LCGIC.i

Sample Info: ANION-4~2G051613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G051613A-NPW.b/0032.d
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 16-MAY-2013 19:38
Operator : PT Inst ID: LCGIC.i
Smp Info : CCB~2G051613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G051613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 17-May-2013 13:35 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS				
		ON-COL	FINAL	
RT	EXP RT	DLT RT	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====

Data File: 0032.d

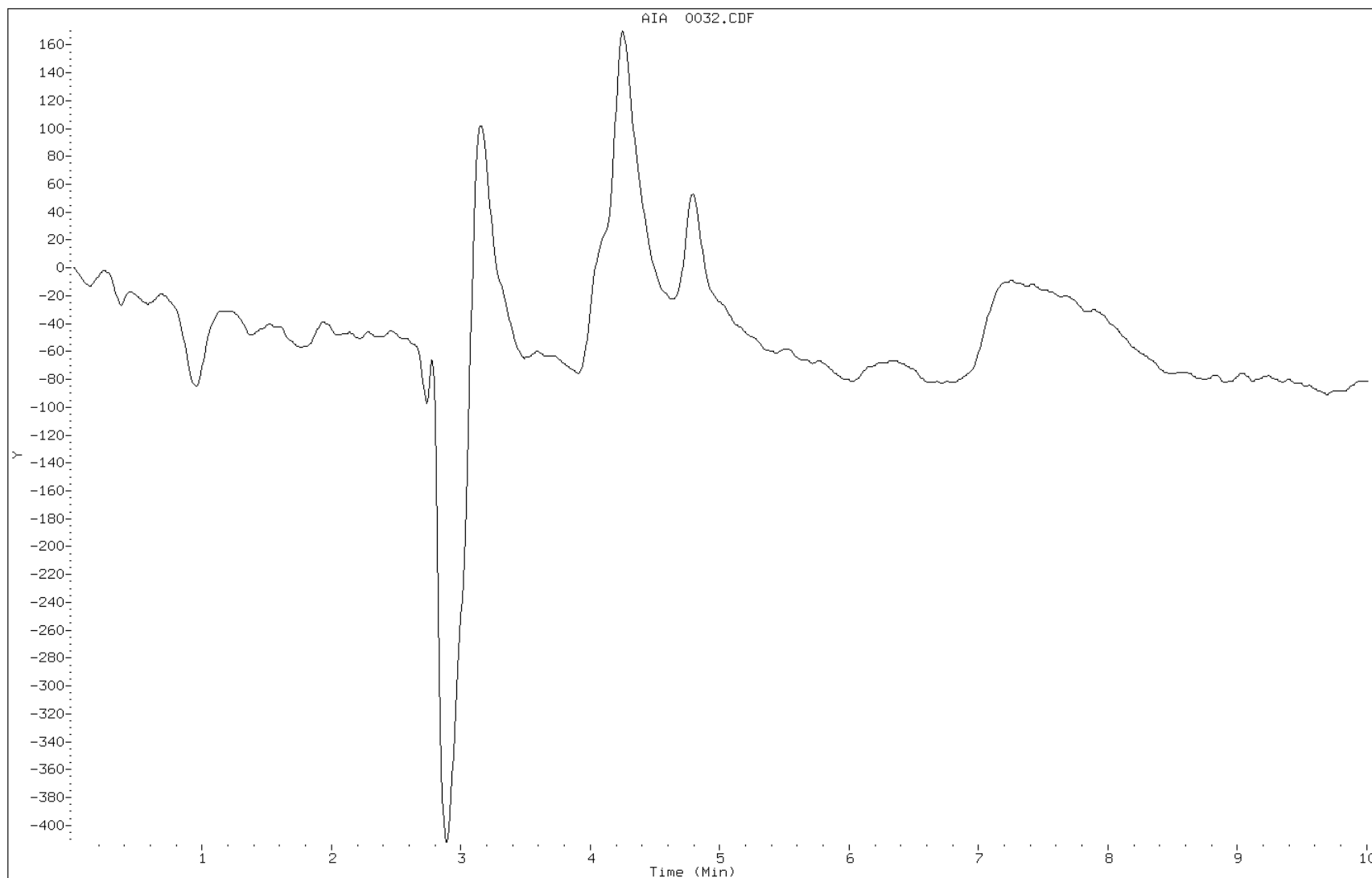
Date: 16-MAY-2013 19:38

Client ID: CCB

Instrument: LCGIC.i

Sample Info: CCB~2G051613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G051613A-NPW.b/0038.d
Lab Smp Id: ANION-4 Client Smp ID: ANION-4
Inj Date : 16-MAY-2013 20:53
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-4~2G051613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G051613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 17-May-2013 13:35 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.092	3.092	0.000	607121	2.00000	1.9	

4	BROMIDE				CAS #: 24959-67-9	
6.167	6.167	0.000	767380	10.0000	9.0	

2	CHLORIDE				CAS #: 16887-00-6	
4.033	4.033	0.000	1844881	10.0000	9.4	

3	SULFATE				CAS #: 14808-79-8	
4.775	4.775	0.000	1394479	10.0000	9.5	

Data File: 0038.d

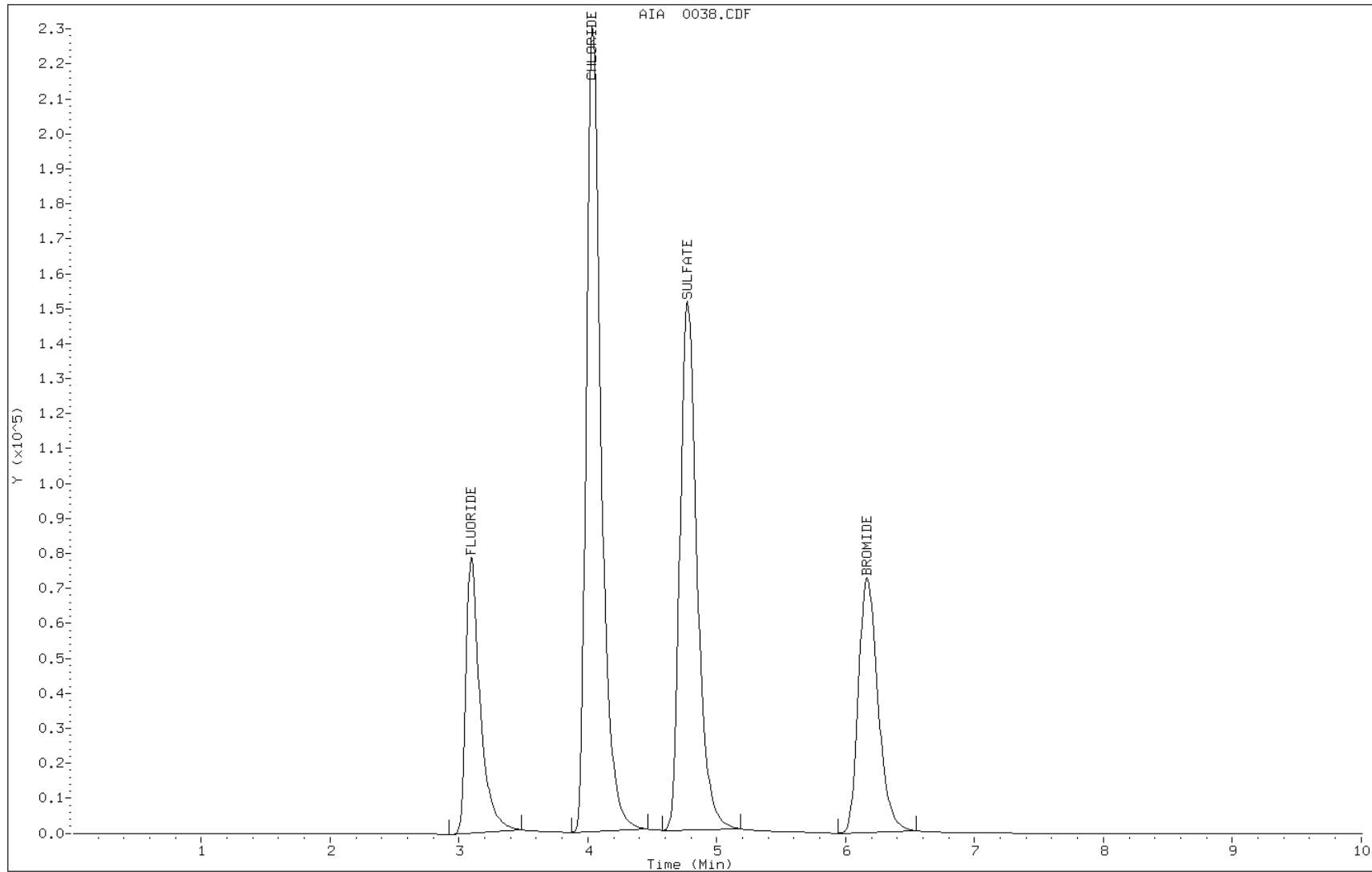
Date: 16-MAY-2013 20:53

Client ID: ANION-4

Instrument: LCGIC.i

Sample Info: ANION-4~2G051613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G051613A-NPW.b/0039.d
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 16-MAY-2013 21:05
Operator : PT Inst ID: LCGIC.i
Smp Info : CCB~2G051613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G051613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 17-May-2013 13:35 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS				
		ON-COL	FINAL	
RT	EXP RT	DLT RT	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====

Data File: 0039.d

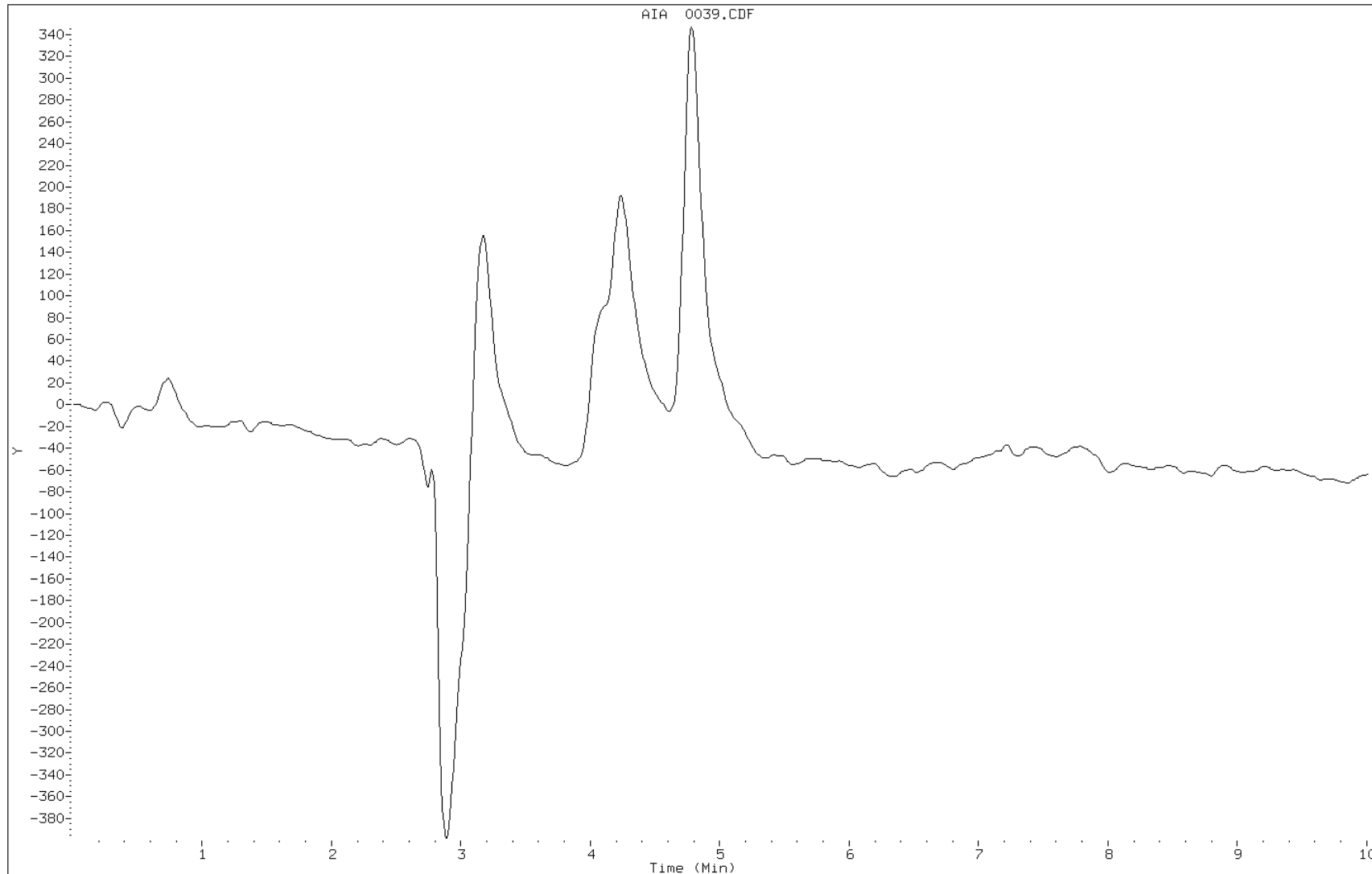
Date: 16-MAY-2013 21:05

Client ID: CCB

Instrument: LCGIC.i

Sample Info: CCB~2G051613

Operator: PT



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Batch Number: 276026 Batch Start Date: 05/08/13 16:03 Batch Analyst: West, Ryan

Batch Method: 353.2 Batch End Date: 05/08/13 16:51

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	NO3+NO2 ICV 00037	NO3+NO2 Stock 00036	NO3/NO2 LCS 00044	
ICV 680-276026/7		353.2		2 mL	2 mL	2 mL			
ICB 680-276026/8		353.2		2 mL	2 mL				
CCV 680-276026/11		353.2		2 mL	2 mL			2 mL	
CCB 680-276026/12		353.2		2 mL	2 mL				
MB 680-276026/13		353.2		2 mL	2 mL				
LCS 680-276026/14		353.2		2 mL	2 mL			2 mL	
680-90076-B-1	25LM20107	353.2	T	2 mL	2 mL				
680-90076-B-1 MS	25LM20107	353.2	T	25 mL	25 mL		0.25 mL		
680-90076-B-1 MSD	25LM20107	353.2	T	25 mL	25 mL		0.25 mL		
680-90076-B-3	25LM20100	353.2	T	2 mL	2 mL				
680-90076-B-5	25LM20104	353.2	T	2 mL	2 mL				
680-90076-B-4	25LM20103	353.2	T	2 mL	2 mL				
CCV 680-276026/23		353.2		2 mL	2 mL			2 mL	
CCB 680-276026/24		353.2		2 mL	2 mL				
680-90076-E-2	25LM20105	353.2	T	2 mL	2 mL				
CCV 680-276026/28		353.2		2 mL	2 mL			2 mL	
CCB 680-276026/29		353.2		2 mL	2 mL				

Batch Notes	
Buffer Lot #	no3 buffer 00169
Color Reagent Lot #	no2 color 00108
First End time	05/08/13 16:51
Pipette ID	GE6
First Start time	05/08/13 16:03

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.: 680-90076-1

SDG No.: _____

Batch Number: 276026 Batch Start Date: 05/08/13 16:03 Batch Analyst: West, Ryan

Batch Method: 353.2 Batch End Date: 05/08/13 16:51

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Batch Number: 274796 Batch Start Date: 04/26/13 15:51 Batch Analyst: Thornton, Polly A

Batch Method: 300.0 Batch End Date: 04/26/13 19:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Anion-1 00097	Anion-2 00075	Anion-3 00070	Anion-4 00143
IC 680-274796/1		300.0		1 mL	5 mL	5 mL			
IC 680-274796/2		300.0		1 mL	5 mL		5 mL		
IC 680-274796/3		300.0		1 mL	5 mL			5 mL	
IC 680-274796/4		300.0		1 mL	5 mL				5 mL
IC 680-274796/5		300.0		1 mL	5 mL				
IC 680-274796/6		300.0		1 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	Anion-5 00074	Anion-6 00070				
IC 680-274796/1		300.0							
IC 680-274796/2		300.0							
IC 680-274796/3		300.0							
IC 680-274796/4		300.0							
IC 680-274796/5		300.0		5 mL					
IC 680-274796/6		300.0			5 mL				

Batch Notes	
Batch Comment	SAMPLES RAN W/O DIL
Eluent 1 Lot	IC_ELUGEN_00015
Filter Lot #	IC_5MLCAP_00142

Basis	Basis Description

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90076-1

SDG No.: _____

Batch Number: 277124 Batch Start Date: 05/16/13 14:58 Batch Analyst: Thornton, Polly A

Batch Method: 300.0 Batch End Date: 05/16/13 21:17

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Anion-4 00147	Anion_ICV 00119		
CCV 680-277124/1		300.0		1 mL	5 mL	5 mL			
MB 680-277124/2		300.0		1 mL	5 mL				
LCS 680-277124/3		300.0		1 mL	5 mL		5 mL		
LCSD 680-277124/4		300.0		1 mL	5 mL		5 mL		
680-90076-B-1	25LM20107	300.0	T	1 mL	5 mL				
680-90076-B-3	25LM20100	300.0	T	1 mL	5 mL				
680-90076-B-4	25LM20103	300.0	T	1 mL	5 mL				
680-90076-B-5	25LM20104	300.0	T	1 mL	5 mL				
CCV 680-277124/15		300.0		1 mL	5 mL	5 mL			
CCB 680-277124/16		300.0		1 mL	5 mL				
CCV 680-277124/22		300.0		1 mL	5 mL	5 mL			
CCB 680-277124/23		300.0		1 mL	5 mL				

Batch Notes	
Batch Comment	NONE
Eluent 1 Lot	IC_ELUGEN_00015
Filter Lot #	IC_5MLCAP_00170

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.

300.0

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

PROJECT & CLIENT INFORMATION

PROJECT NO. 748662-02000
 SEAD-25 Long-Term Monitoring
 LAB PROJECT MANAGER Linda Wolfe

PROJECT STATE NY
 CONTRACT/Quote NO. 748662-02000

CLIENT (SITE) PM C/ris Gill/Brendan Baranek-Olmstead
 CLIENT PHONE 617-285-6821 (BBO cell)
 CLIENT FAX 617-946-9777

CLIENT NAME Parsons
 CLIENT EMAIL Brendan.Baranek-Olmstead@parsons.com

CLIENT ADDRESS 100 High Street, 4th Floor, Boston, MA 02110
 Samplers Signature & Initials:

TestAmerica
 5102 LaRoche Avenue
 Savannah, GA 31404
 Ph: 912-354-7858
 Fax:
 Website: www.stl-inc.com

Possible Hazards: Unknown

Sample Disposal: Lab Disposal

REQUIRED ANALYSES

SW 260B - VOC	353.2 Nitrite and Nitrate (as separate analytes)	300.1 Sulfate 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 (circle one)
 EMAIL or FAX
 TAT/DATE DUE
 NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

LABORATORY SAMPLE ID	SAMPLE TYPE	FIELD FILTERED	MAATRIX	1	8	8	1	2	1	2	1
----------------------	-------------	----------------	---------	---	---	---	---	---	---	---	---

DATE	TIME	SAMPLE IDENTIFICATION
------	------	-----------------------

5/7/2013	1405	25LM20107	N	GW	3	1	1	2	1		
5/7/2013	1326	25LM20105	N	GW	3	1	1	2	2		
5/7/2013	1220	25LM20100	N	GW	3	1	1	2	1		
5/7/2013	1536	25LM20103	N	GW	3	1	1	2	1		
5/7/2013	1610	25LM20104	N	GW	3	1	1	2	1		
5/7/2013	1702	25LM00023	N	GW	2						

REMARKS

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 PMI immediately if there are any problems/issues with the analysis.
5. Sample 25LM20105 may have additional bottles submitted tomorrow 5/8/13.
6. Sample 25LM00023 (trip blank), use bottle with Lot#112012 for analysis, and only use bottle with Lot#051512 if the other bottle is un-usable.

1 HCL
 2 HNO3
 8 Ice

Preservative

1 HCL

2 HNO3

8 Ice

RELINQUISHED BY: (SIGNATURE) DATE TIME

RECEIVED BY: (SIGNATURE) DATE TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) DATE TIME

CUSTOMY SEAL NO. 0945

CUSTOMY INTACT YES NO

REMARKS: 680-90076 0.8°C

LABORATORY USE ONLY

LABORATORY SEAL NO.

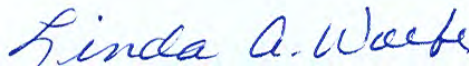
REMARKS:

ANALYTICAL REPORT

Job Number: 680-90122-1

Job Description: Seneca Army Depot - LTM Monitoring

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



Approved for release.
Linda Wolfe
Project Manager I
7/3/2013 9:55 AM

Linda Wolfe, Project Manager I
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3005
linda.wolfe@testamericainc.com
07/03/2013
Revision: 1

cc: Mr. Brendan Baranek-Olmstead

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



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CASE NARRATIVE

Client: Parsons Corporation

Project: Seneca Army Depot - LTM Monitoring

Report Number: 680-90122-1

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

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

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

RECEIPT

The samples were received on 5/9/2013 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

Except:

Method(s) 6010C: The metals volume for the matrix spike for this sample was received on 5/9/13, the metals volume for the parent sample and the matrix spike duplicate were received on 5/10/13. Per the client note on the chain of custody, the 2 days of volume receipt were intended. 25LM20101 (680-90122-3), 25LM20101 (680-90122-3 MS), 25LM20101 (680-90122-3 MSD)

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 25LM20098 (680-90122-1), 25LM20099 (680-90122-2), 25LM20101 (680-90122-3), 25LM20102 (680-90122-4) and 25LM00022 (680-90122-5) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/20/2013.

Bromoform and Carbon tetrachloride failed the recovery criteria low for the MS of sample 25LM20101 (680-90122-3) in batch 680-277297. 1,2-Dichlorobenzene, 1,4-Dichlorobenzene and Chloroethane failed the recovery criteria high for the MS and MSD of sample 25LM20101 (680-90122-3) in batch 680-277297. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED GASES

Samples 25LM20098 (680-90122-1), 25LM20099 (680-90122-2), 25LM20101 (680-90122-3) and 25LM20102 (680-90122-4) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 05/20/2013.

Methane failed the recovery criteria low for the MS of sample 25LM20101 (680-90122-3) in batch 200-55736. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other difficulties were encountered during the dissolved gases analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Samples 25LM20098 (680-90122-1), 25LM20099 (680-90122-2), 25LM20101 (680-90122-3), 25LM20102 (680-90122-4) and 25LM20105 (680-90122-6) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/10/2013 and 05/20/2013 and analyzed on 05/16/2013 and 05/21/2013.

Sodium failed the recovery criteria low for the MS and MSD of sample 25LM20101 (680-90122-3) in batch 680-277577. Iron failed the recovery criteria high. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

ANIONS BY IC

Samples 25LM20098 (680-90122-1), 25LM20099 (680-90122-2), 25LM20101 (680-90122-3), 25LM20102 (680-90122-4) and 25LM20105 (680-90122-6) were analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were analyzed on 05/17/2013 and 05/20/2013.

Sulfate failed the recovery criteria low for the MS and MSD of sample 25LM20101 (680-90122-3) in batch 680-277433. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Samples 25LM20098 (680-90122-1)[5X], 25LM20099 (680-90122-2)[5X], 25LM20101 (680-90122-3)[5X], 25LM20102 (680-90122-4)[5X] and 25LM20105 (680-90122-6)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Anions analysis.

All other quality control parameters were within the acceptance limits.

NITRATE-NITRITE AS NITROGEN

Samples 25LM20098 (680-90122-1), 25LM20099 (680-90122-2), 25LM20101 (680-90122-3) and 25LM20102 (680-90122-4) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 05/09/2013.

No difficulties were encountered during the nitrate-nitrite analysis.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Parsons Corporation

Job Number: 680-90122-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-90122-1	25LM20098	Water	05/08/2013 1022	05/09/2013 0820
680-90122-2	25LM20099	Water	05/08/2013 1250	05/09/2013 0820
680-90122-3	25LM20101	Water	05/08/2013 1530	05/09/2013 0820
680-90122-3MS	25LM20101	Water	05/08/2013 1530	05/09/2013 0820
680-90122-3MSD	25LM20101	Water	05/08/2013 1530	05/09/2013 0820
680-90122-4	25LM20102	Water	05/08/2013 1530	05/09/2013 0820
680-90122-5	25LM00022	Water	05/08/2013 1715	05/09/2013 0820
680-90122-6	25LM20105	Water	05/07/2013 1326	05/09/2013 0820

EXECUTIVE SUMMARY - Detections

Client: Parsons Corporation

Job Number: 680-90122-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
680-90122-1	25LM20098					
Sodium		5500		1000	ug/L	6010C
Sulfate		18		5.0	mg/L	300.0
Nitrate as N		0.19		0.050	mg/L	353.2
680-90122-2	25LM20099					
Iron		440		100	ug/L	6010C
Sodium		22000		1000	ug/L	6010C
Chloride		16		5.0	mg/L	300.0
Sulfate		27		5.0	mg/L	300.0
Nitrate as N		0.18		0.050	mg/L	353.2
680-90122-3	25LM20101					
1,1-Dichloroethane		1.2		1.0	ug/L	8260B
1,2-Dichloroethane		0.32	J	1.0	ug/L	8260B
2-Butanone		3.8	J	10	ug/L	8260B
2-Hexanone		1.9	J	10	ug/L	8260B
Acetone		11	J	25	ug/L	8260B
Benzene		19		1.0	ug/L	8260B
cis-1,2-Dichloroethene		2.8		1.0	ug/L	8260B
Cyclohexane		1.7		1.0	ug/L	8260B
Ethylbenzene		10		1.0	ug/L	8260B
Isopropylbenzene		1.0		1.0	ug/L	8260B
Toluene		0.91	J	1.0	ug/L	8260B
Trichloroethene		1.7		1.0	ug/L	8260B
Vinyl chloride		0.66	J	1.0	ug/L	8260B
Xylenes, Total		1.0	J	2.0	ug/L	8260B
Methane		22		2.0	ug/L	RSK-175
Iron		6500		100	ug/L	6010C
Sodium		16000		1000	ug/L	6010C
Chloride		1.8	J	5.0	mg/L	300.0
Sulfate		160		5.0	mg/L	300.0

EXECUTIVE SUMMARY - Detections

Client: Parsons Corporation

Job Number: 680-90122-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
680-90122-4	25LM20102					
1,1-Dichloroethane		1.4		1.0	ug/L	8260B
2-Butanone		2.9	J	10	ug/L	8260B
Acetone		8.7	J	25	ug/L	8260B
Benzene		20		1.0	ug/L	8260B
cis-1,2-Dichloroethene		2.9		1.0	ug/L	8260B
Cyclohexane		1.8		1.0	ug/L	8260B
Ethylbenzene		11		1.0	ug/L	8260B
Isopropylbenzene		1.1		1.0	ug/L	8260B
Toluene		0.87	J	1.0	ug/L	8260B
Trichloroethene		1.7		1.0	ug/L	8260B
Vinyl chloride		0.67	J	1.0	ug/L	8260B
Xylenes, Total		1.0	J	2.0	ug/L	8260B
Methane		25		2.0	ug/L	RSK-175
Iron		11000		100	ug/L	6010C
Sodium		10000		1000	ug/L	6010C
Chloride		1.7	J	5.0	mg/L	300.0
Sulfate		150		5.0	mg/L	300.0
Nitrate as N		0.027	J	0.050	mg/L	353.2
680-90122-6	25LM20105					
Iron		200		100	ug/L	6010C
Sodium		4800		1000	ug/L	6010C
Sulfate		14		5.0	mg/L	300.0

METHOD SUMMARY

Client: Parsons Corporation

Job Number: 680-90122-1

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

Lab References:

TAL BUR = TestAmerica Burlington

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: 680-90122-1

Method	Analyst	Analyst ID
SW846 8260B	D'Errico, Julie	JD
RSK RSK-175	Archer, Nicholas	NA
SW846 6010C	Bland, Brian	BCB
MCAWW 300.0	Thornton, Polly A	PAT
MCAWW 353.2	West, Ryan	RW

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20098

Lab Sample ID: 680-90122-1

Date Sampled: 05/08/2013 1022

Client Matrix: Water

Date Received: 05/09/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277297	Instrument ID:	MSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	oe2039.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/20/2013 1802			Final Weight/Volume:	5 mL
Prep Date:	05/20/2013 1802				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.50	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	1.0
1,1,2-Trichloroethane	ND		0.13	1.0
1,1-Dichloroethane	ND		0.25	1.0
1,1-Dichloroethene	ND		0.11	1.0
1,2,4-Trichlorobenzene	ND		0.25	1.0
1,2-Dibromo-3-Chloropropane	ND		0.44	1.0
1,2-Dibromoethane	ND		0.25	1.0
1,2-Dichlorobenzene	ND		0.21	1.0
1,2-Dichloroethane	ND		0.10	1.0
1,2-Dichloropropane	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.25	1.0
1,4-Dichlorobenzene	ND		0.28	1.0
2-Butanone	ND		1.0	10
2-Hexanone	ND		1.0	10
4-Methyl-2-pentanone	ND		1.0	10
Acetone	ND		5.0	25
Benzene	ND		0.25	1.0
Bromodichloromethane	ND		0.25	1.0
Bromoform	ND		0.50	1.0
Bromomethane	ND		2.0	5.0
Carbon disulfide	ND		0.60	2.0
Carbon tetrachloride	ND		0.50	1.0
Chlorobenzene	ND		0.25	1.0
Chloroethane	ND		2.0	5.0
Chloroform	ND		0.14	1.0
Chloromethane	ND		0.33	1.0
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.11	1.0
Cyclohexane	ND		0.25	1.0
Dibromochloromethane	ND		0.10	1.0
Dichlorodifluoromethane	ND		0.25	1.0
Ethylbenzene	ND		0.11	1.0
Isopropylbenzene	ND		0.10	1.0
Methyl acetate	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.20	10
Methylcyclohexane	ND		0.10	1.0
Methylene Chloride	ND		1.0	5.0
Styrene	ND		0.11	1.0
Tetrachloroethene	ND		0.15	1.0
Toluene	ND		0.33	1.0
trans-1,2-Dichloroethene	ND		0.20	1.0
trans-1,3-Dichloropropene	ND		0.21	1.0
Trichloroethene	ND		0.13	1.0
Trichlorofluoromethane	ND		0.25	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20098

Lab Sample ID: 680-90122-1

Date Sampled: 05/08/2013 1022

Client Matrix: Water

Date Received: 05/09/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277297	Instrument ID:	MSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	oe2039.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/20/2013 1802			Final Weight/Volume:	5 mL
Prep Date:	05/20/2013 1802				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.18	1.0
Xylenes, Total	ND		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	87		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20099

Lab Sample ID: 680-90122-2

Date Sampled: 05/08/2013 1250

Client Matrix: Water

Date Received: 05/09/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277297	Instrument ID:	MSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	oe2041.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/20/2013 1832			Final Weight/Volume:	5 mL
Prep Date:	05/20/2013 1832				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.50	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	1.0
1,1,2-Trichloroethane	ND		0.13	1.0
1,1-Dichloroethane	ND		0.25	1.0
1,1-Dichloroethene	ND		0.11	1.0
1,2,4-Trichlorobenzene	ND		0.25	1.0
1,2-Dibromo-3-Chloropropane	ND		0.44	1.0
1,2-Dibromoethane	ND		0.25	1.0
1,2-Dichlorobenzene	ND		0.21	1.0
1,2-Dichloroethane	ND		0.10	1.0
1,2-Dichloropropane	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.25	1.0
1,4-Dichlorobenzene	ND		0.28	1.0
2-Butanone	ND		1.0	10
2-Hexanone	ND		1.0	10
4-Methyl-2-pentanone	ND		1.0	10
Acetone	ND		5.0	25
Benzene	ND		0.25	1.0
Bromodichloromethane	ND		0.25	1.0
Bromoform	ND		0.50	1.0
Bromomethane	ND		2.0	5.0
Carbon disulfide	ND		0.60	2.0
Carbon tetrachloride	ND		0.50	1.0
Chlorobenzene	ND		0.25	1.0
Chloroethane	ND		2.0	5.0
Chloroform	ND		0.14	1.0
Chloromethane	ND		0.33	1.0
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.11	1.0
Cyclohexane	ND		0.25	1.0
Dibromochloromethane	ND		0.10	1.0
Dichlorodifluoromethane	ND		0.25	1.0
Ethylbenzene	ND		0.11	1.0
Isopropylbenzene	ND		0.10	1.0
Methyl acetate	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.20	10
Methylcyclohexane	ND		0.10	1.0
Methylene Chloride	ND		1.0	5.0
Styrene	ND		0.11	1.0
Tetrachloroethene	ND		0.15	1.0
Toluene	ND		0.33	1.0
trans-1,2-Dichloroethene	ND		0.20	1.0
trans-1,3-Dichloropropene	ND		0.21	1.0
Trichloroethene	ND		0.13	1.0
Trichlorofluoromethane	ND		0.25	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20099

Lab Sample ID: 680-90122-2

Date Sampled: 05/08/2013 1250

Client Matrix: Water

Date Received: 05/09/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277297	Instrument ID:	MSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	oe2041.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/20/2013 1832			Final Weight/Volume:	5 mL
Prep Date:	05/20/2013 1832				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.18	1.0
Xylenes, Total	ND		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20101

Lab Sample ID: 680-90122-3

Date Sampled: 05/08/2013 1530

Client Matrix: Water

Date Received: 05/09/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277297	Instrument ID:	MSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	oe2043.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/20/2013 1901			Final Weight/Volume:	5 mL
Prep Date:	05/20/2013 1901				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.50	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	1.0
1,1,2-Trichloroethane	ND		0.13	1.0
1,1-Dichloroethane	1.2		0.25	1.0
1,1-Dichloroethene	ND		0.11	1.0
1,2,4-Trichlorobenzene	ND		0.25	1.0
1,2-Dibromo-3-Chloropropane	ND		0.44	1.0
1,2-Dibromoethane	ND		0.25	1.0
1,2-Dichlorobenzene	ND		0.21	1.0
1,2-Dichloroethane	0.32	J	0.10	1.0
1,2-Dichloropropane	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.25	1.0
1,4-Dichlorobenzene	ND		0.28	1.0
2-Butanone	3.8	J	1.0	10
2-Hexanone	1.9	J	1.0	10
4-Methyl-2-pentanone	ND		1.0	10
Acetone	11	J	5.0	25
Benzene	19		0.25	1.0
Bromodichloromethane	ND		0.25	1.0
Bromoform	ND		0.50	1.0
Bromomethane	ND		2.0	5.0
Carbon disulfide	ND		0.60	2.0
Carbon tetrachloride	ND		0.50	1.0
Chlorobenzene	ND		0.25	1.0
Chloroethane	ND		2.0	5.0
Chloroform	ND		0.14	1.0
Chloromethane	ND		0.33	1.0
cis-1,2-Dichloroethene	2.8		0.15	1.0
cis-1,3-Dichloropropene	ND		0.11	1.0
Cyclohexane	1.7		0.25	1.0
Dibromochloromethane	ND		0.10	1.0
Dichlorodifluoromethane	ND		0.25	1.0
Ethylbenzene	10		0.11	1.0
Isopropylbenzene	1.0		0.10	1.0
Methyl acetate	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.20	10
Methylcyclohexane	ND		0.10	1.0
Methylene Chloride	ND		1.0	5.0
Styrene	ND		0.11	1.0
Tetrachloroethene	ND		0.15	1.0
Toluene	0.91	J	0.33	1.0
trans-1,2-Dichloroethene	ND		0.20	1.0
trans-1,3-Dichloropropene	ND		0.21	1.0
Trichloroethene	1.7		0.13	1.0
Trichlorofluoromethane	ND		0.25	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20101

Lab Sample ID: 680-90122-3

Date Sampled: 05/08/2013 1530

Client Matrix: Water

Date Received: 05/09/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277297	Instrument ID:	MSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	oe2043.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/20/2013 1901			Final Weight/Volume:	5 mL
Prep Date:	05/20/2013 1901				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.66	J	0.18	1.0
Xylenes, Total	1.0	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	88		70 - 130
Dibromofluoromethane	94		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20102

Lab Sample ID: 680-90122-4

Date Sampled: 05/08/2013 1530

Client Matrix: Water

Date Received: 05/09/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277297	Instrument ID:	MSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	oe2045.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/20/2013 1931			Final Weight/Volume:	5 mL
Prep Date:	05/20/2013 1931				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.50	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	1.0
1,1,2-Trichloroethane	ND		0.13	1.0
1,1-Dichloroethane	1.4		0.25	1.0
1,1-Dichloroethene	ND		0.11	1.0
1,2,4-Trichlorobenzene	ND		0.25	1.0
1,2-Dibromo-3-Chloropropane	ND		0.44	1.0
1,2-Dibromoethane	ND		0.25	1.0
1,2-Dichlorobenzene	ND		0.21	1.0
1,2-Dichloroethane	ND		0.10	1.0
1,2-Dichloropropane	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.25	1.0
1,4-Dichlorobenzene	ND		0.28	1.0
2-Butanone	2.9	J	1.0	10
2-Hexanone	ND		1.0	10
4-Methyl-2-pentanone	ND		1.0	10
Acetone	8.7	J	5.0	25
Benzene	20		0.25	1.0
Bromodichloromethane	ND		0.25	1.0
Bromoform	ND		0.50	1.0
Bromomethane	ND		2.0	5.0
Carbon disulfide	ND		0.60	2.0
Carbon tetrachloride	ND		0.50	1.0
Chlorobenzene	ND		0.25	1.0
Chloroethane	ND		2.0	5.0
Chloroform	ND		0.14	1.0
Chloromethane	ND		0.33	1.0
cis-1,2-Dichloroethene	2.9		0.15	1.0
cis-1,3-Dichloropropene	ND		0.11	1.0
Cyclohexane	1.8		0.25	1.0
Dibromochloromethane	ND		0.10	1.0
Dichlorodifluoromethane	ND		0.25	1.0
Ethylbenzene	11		0.11	1.0
Isopropylbenzene	1.1		0.10	1.0
Methyl acetate	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.20	10
Methylcyclohexane	ND		0.10	1.0
Methylene Chloride	ND		1.0	5.0
Styrene	ND		0.11	1.0
Tetrachloroethene	ND		0.15	1.0
Toluene	0.87	J	0.33	1.0
trans-1,2-Dichloroethene	ND		0.20	1.0
trans-1,3-Dichloropropene	ND		0.21	1.0
Trichloroethene	1.7		0.13	1.0
Trichlorofluoromethane	ND		0.25	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20102

Lab Sample ID: 680-90122-4

Date Sampled: 05/08/2013 1530

Client Matrix: Water

Date Received: 05/09/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277297	Instrument ID:	MSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	oe2045.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/20/2013 1931			Final Weight/Volume:	5 mL
Prep Date:	05/20/2013 1931				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.67	J	0.18	1.0
Xylenes, Total	1.0	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	87		70 - 130
Dibromofluoromethane	93		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM00022

Lab Sample ID: 680-90122-5

Date Sampled: 05/08/2013 1715

Client Matrix: Water

Date Received: 05/09/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277297	Instrument ID:	MSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	oe2021.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/20/2013 1335			Final Weight/Volume:	5 mL
Prep Date:	05/20/2013 1335				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.50	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	1.0
1,1,2-Trichloroethane	ND		0.13	1.0
1,1-Dichloroethane	ND		0.25	1.0
1,1-Dichloroethene	ND		0.11	1.0
1,2,4-Trichlorobenzene	ND		0.25	1.0
1,2-Dibromo-3-Chloropropane	ND		0.44	1.0
1,2-Dibromoethane	ND		0.25	1.0
1,2-Dichlorobenzene	ND		0.21	1.0
1,2-Dichloroethane	ND		0.10	1.0
1,2-Dichloropropane	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.25	1.0
1,4-Dichlorobenzene	ND		0.28	1.0
2-Butanone	ND		1.0	10
2-Hexanone	ND		1.0	10
4-Methyl-2-pentanone	ND		1.0	10
Acetone	ND		5.0	25
Benzene	ND		0.25	1.0
Bromodichloromethane	ND		0.25	1.0
Bromoform	ND		0.50	1.0
Bromomethane	ND		2.0	5.0
Carbon disulfide	ND		0.60	2.0
Carbon tetrachloride	ND		0.50	1.0
Chlorobenzene	ND		0.25	1.0
Chloroethane	ND		2.0	5.0
Chloroform	ND		0.14	1.0
Chloromethane	ND		0.33	1.0
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.11	1.0
Cyclohexane	ND		0.25	1.0
Dibromochloromethane	ND		0.10	1.0
Dichlorodifluoromethane	ND		0.25	1.0
Ethylbenzene	ND		0.11	1.0
Isopropylbenzene	ND		0.10	1.0
Methyl acetate	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.20	10
Methylcyclohexane	ND		0.10	1.0
Methylene Chloride	ND		1.0	5.0
Styrene	ND		0.11	1.0
Tetrachloroethene	ND		0.15	1.0
Toluene	ND		0.33	1.0
trans-1,2-Dichloroethene	ND		0.20	1.0
trans-1,3-Dichloropropene	ND		0.21	1.0
Trichloroethene	ND		0.13	1.0
Trichlorofluoromethane	ND		0.25	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM00022

Lab Sample ID: 680-90122-5

Client Matrix: Water

Date Sampled: 05/08/2013 1715

Date Received: 05/09/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-277297	Instrument ID:	MSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	oe2021.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/20/2013 1335			Final Weight/Volume:	5 mL
Prep Date:	05/20/2013 1335				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.18	1.0
Xylenes, Total	ND		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20098

Lab Sample ID: 680-90122-1

Client Matrix: Water

Date Sampled: 05/08/2013 1022

Date Received: 05/09/2013 0820

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-55736	Instrument ID:	CH2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	05/20/2013 1656			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
Methane	ND		2.0	2.0
Ethane	ND		4.0	4.0
Ethylene	ND		3.0	3.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20099

Lab Sample ID: 680-90122-2

Date Sampled: 05/08/2013 1250

Client Matrix: Water

Date Received: 05/09/2013 0820

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-55736	Instrument ID:	CH2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	05/20/2013 1702			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
Methane	ND		2.0	2.0
Ethane	ND		4.0	4.0
Ethylene	ND		3.0	3.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20101

Lab Sample ID: 680-90122-3

Date Sampled: 05/08/2013 1530

Client Matrix: Water

Date Received: 05/09/2013 0820

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-55736	Instrument ID:	CH2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	05/20/2013 1707			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
Methane	22		2.0	2.0
Ethane	ND		4.0	4.0
Ethylene	ND		3.0	3.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20102

Lab Sample ID: 680-90122-4

Date Sampled: 05/08/2013 1530

Client Matrix: Water

Date Received: 05/09/2013 0820

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-55736	Instrument ID:	CH2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	05/20/2013 1723			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
Methane	25		2.0	2.0
Ethane	ND		4.0	4.0
Ethylene	ND		3.0	3.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20098

Lab Sample ID: 680-90122-1

Client Matrix: Water

Date Sampled: 05/08/2013 1022

Date Received: 05/09/2013 0820

6010C Metals (ICP)

Analysis Method: 6010C

Prep Method: 3010A

Dilution: 1.0

Analysis Date: 05/16/2013 2131

Prep Date: 05/10/2013 1107

Analysis Batch: 680-277109

Prep Batch: 680-276285

Instrument ID: ICPE

Lab File ID: E05162013AF.csv

Initial Weight/Volume: 50 mL

Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	ND		50	100
Sodium	5500		500	1000

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20099

Lab Sample ID: 680-90122-2

Date Sampled: 05/08/2013 1250

Client Matrix: Water

Date Received: 05/09/2013 0820

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-277109	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-276285	Lab File ID:	E05162013AF.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	05/16/2013 2137			Final Weight/Volume:	50 mL
Prep Date:	05/10/2013 1107				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	440		50	100
Sodium	22000		500	1000

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20101

Lab Sample ID: 680-90122-3

Client Matrix: Water

Date Sampled: 05/08/2013 1530

Date Received: 05/09/2013 0820

6010C Metals (ICP)

Analysis Method: 6010C

Prep Method: 3010A

Dilution: 1.0

Analysis Date: 05/21/2013 1933

Prep Date: 05/20/2013 1117

Analysis Batch: 680-277577

Prep Batch: 680-277276

Instrument ID: ICPE

Lab File ID: E05212013.csv

Initial Weight/Volume: 50 mL

Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	6500		50	100
Sodium	16000		500	1000

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20102

Lab Sample ID: 680-90122-4

Client Matrix: Water

Date Sampled: 05/08/2013 1530

Date Received: 05/09/2013 0820

6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 680-277109

Instrument ID: ICPE

Prep Method: 3010A

Prep Batch: 680-276285

Lab File ID: E05162013AF.csv

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 05/16/2013 2142

Final Weight/Volume: 50 mL

Prep Date: 05/10/2013 1107

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	11000		50	100
Sodium	10000		500	1000

Analytical Data

Client: Parsons Corporation

Job Number: 680-90122-1

Client Sample ID: 25LM20105

Lab Sample ID: 680-90122-6

Client Matrix: Water

Date Sampled: 05/07/2013 1326

Date Received: 05/09/2013 0820

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-277109	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-276285	Lab File ID:	E05162013AF.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	05/16/2013 2148			Final Weight/Volume:	50 mL
Prep Date:	05/10/2013 1107				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	200		50	100
Sodium	4800		500	1000

Client: Parsons Corporation

Job Number: 680-90122-1

General Chemistry

Client Sample ID: 25LM20098

Lab Sample ID: 680-90122-1

Client Matrix: Water

Date Sampled: 05/08/2013 1022

Date Received: 05/09/2013 0820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	ND		mg/L	1.0	5.0	5.0	300.0
	Analysis Batch: 680-277184	Analysis Date: 05/17/2013 2049					
Sulfate	18		mg/L	2.6	5.0	5.0	300.0
	Analysis Batch: 680-277184	Analysis Date: 05/17/2013 2049					
Nitrate as N	0.19		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276215	Analysis Date: 05/09/2013 1557					
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276215	Analysis Date: 05/09/2013 1557					

Client: Parsons Corporation

Job Number: 680-90122-1

General Chemistry

Client Sample ID: 25LM20099

Lab Sample ID: 680-90122-2

Date Sampled: 05/08/2013 1250

Client Matrix: Water

Date Received: 05/09/2013 0820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	16		mg/L	1.0	5.0	5.0	300.0
	Analysis Batch: 680-277184		Analysis Date: 05/17/2013 2101				
Sulfate	27		mg/L	2.6	5.0	5.0	300.0
	Analysis Batch: 680-277184		Analysis Date: 05/17/2013 2101				
Nitrate as N	0.18		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276215		Analysis Date: 05/09/2013 1558				
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276215		Analysis Date: 05/09/2013 1558				

Client: Parsons Corporation

Job Number: 680-90122-1

General Chemistry

Client Sample ID: 25LM20101

Lab Sample ID: 680-90122-3

Date Sampled: 05/08/2013 1530

Client Matrix: Water

Date Received: 05/09/2013 0820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	1.8	J	mg/L	1.0	5.0	5.0	300.0
	Analysis Batch: 680-277184	Analysis Date: 05/17/2013 2114					
Sulfate	160		mg/L	2.6	5.0	5.0	300.0
	Analysis Batch: 680-277433	Analysis Date: 05/20/2013 1829					
Nitrate as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276215	Analysis Date: 05/09/2013 1554					
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276215	Analysis Date: 05/09/2013 1554					

Client: Parsons Corporation

Job Number: 680-90122-1

General Chemistry

Client Sample ID: 25LM20102

Lab Sample ID: 680-90122-4

Date Sampled: 05/08/2013 1530

Client Matrix: Water

Date Received: 05/09/2013 0820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	1.7	J	mg/L	1.0	5.0	5.0	300.0
	Analysis Batch: 680-277184		Analysis Date: 05/17/2013 2216				
Sulfate	150		mg/L	2.6	5.0	5.0	300.0
	Analysis Batch: 680-277184		Analysis Date: 05/17/2013 2216				
Nitrate as N	0.027	J	mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276215		Analysis Date: 05/09/2013 1600				
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-276215		Analysis Date: 05/09/2013 1600				

Client: Parsons Corporation

Job Number: 680-90122-1

General Chemistry

Client Sample ID: 25LM20105

Lab Sample ID: 680-90122-6

Date Sampled: 05/07/2013 1326

Client Matrix: Water

Date Received: 05/09/2013 0820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	ND		mg/L	1.0	5.0	5.0	300.0
	Analysis Batch: 680-277184	Analysis Date: 05/17/2013 2228					
Sulfate	14		mg/L	2.6	5.0	5.0	300.0
	Analysis Batch: 680-277184	Analysis Date: 05/17/2013 2228					

Client: Parsons Corporation

Job Number: 680-90122-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	TOL %Rec	BFB %Rec
680-90122-1	25LM20098	97	96	87
680-90122-2	25LM20099	97	96	89
680-90122-3	25LM20101	94	95	88
680-90122-4	25LM20102	93	96	87
680-90122-5	25LM00022	98	96	89
MB 680-277297/7		98	95	90
LCS 680-277297/4		94	100	102
LCSD 680-277297/5		95	99	100
680-90122-3 MS	25LM20101 MS	104	112	113
680-90122-3 MSD	25LM20101 MSD	98	105	106

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

Method Blank - Batch: 680-277297

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

Lab Sample ID: MB 680-277297/7
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/20/2013 1236
 Prep Date: 05/20/2013 1236
 Leach Date: N/A

Analysis Batch: 680-277297
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: MSO2
 Lab File ID: oe2017q.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.50	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	1.0
1,1,2-Trichloroethane	ND		0.13	1.0
1,1-Dichloroethane	ND		0.25	1.0
1,1-Dichloroethene	ND		0.11	1.0
1,2,4-Trichlorobenzene	ND		0.25	1.0
1,2-Dibromo-3-Chloropropane	ND		0.44	1.0
1,2-Dibromoethane	ND		0.25	1.0
1,2-Dichlorobenzene	ND		0.21	1.0
1,2-Dichloroethane	ND		0.10	1.0
1,2-Dichloropropane	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.25	1.0
1,4-Dichlorobenzene	ND		0.28	1.0
2-Butanone	ND		1.0	10
2-Hexanone	ND		1.0	10
4-Methyl-2-pentanone	ND		1.0	10
Acetone	ND		5.0	25
Benzene	ND		0.25	1.0
Bromodichloromethane	ND		0.25	1.0
Bromoform	ND		0.50	1.0
Bromomethane	ND		2.0	5.0
Carbon disulfide	ND		0.60	2.0
Carbon tetrachloride	ND		0.50	1.0
Chlorobenzene	ND		0.25	1.0
Chloroethane	ND		2.0	5.0
Chloroform	ND		0.14	1.0
Chloromethane	ND		0.33	1.0
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.11	1.0
Cyclohexane	ND		0.25	1.0
Dibromochloromethane	ND		0.10	1.0
Dichlorodifluoromethane	ND		0.25	1.0
Ethylbenzene	ND		0.11	1.0
Isopropylbenzene	ND		0.10	1.0
Methyl acetate	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.20	10
Methylcyclohexane	ND		0.10	1.0
Methylene Chloride	ND		1.0	5.0
Styrene	ND		0.11	1.0
Tetrachloroethene	ND		0.15	1.0
Toluene	ND		0.33	1.0
trans-1,2-Dichloroethene	ND		0.20	1.0
trans-1,3-Dichloropropene	ND		0.21	1.0
Trichloroethene	ND		0.13	1.0

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

Method Blank - Batch: 680-277297

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 680-277297/7
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/20/2013 1236
 Prep Date: 05/20/2013 1236
 Leach Date: N/A

Analysis Batch: 680-277297
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: MSO2
 Lab File ID: oe2017q.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.25	1.0
Vinyl chloride	ND		0.18	1.0
Xylenes, Total	ND		0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	90	70 - 130
Dibromofluoromethane	98	70 - 130
Toluene-d8 (Surr)	95	70 - 130

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-277297**

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

LCS Lab Sample ID: LCS 680-277297/4	Analysis Batch: 680-277297	Instrument ID: MSO2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: oe2009q.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/20/2013 1038	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/20/2013 1038		
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 680-277297/5	Analysis Batch: 680-277297	Instrument ID: MSO2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: oe2011q.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/20/2013 1107	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/20/2013 1107		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1,1-Trichloroethane	91	94	76 - 126	3	30		
1,1,2,2-Tetrachloroethane	102	102	71 - 127	0	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	94	94	72 - 139	0	30		
1,1,2-Trichloroethane	101	97	69 - 127	5	30		
1,1-Dichloroethane	87	92	69 - 132	5	30		
1,1-Dichloroethene	93	94	73 - 134	1	30		
1,2,4-Trichlorobenzene	79	72	67 - 134	9	30		
1,2-Dibromo-3-Chloropropane	91	86	57 - 126	5	50		
1,2-Dibromoethane	99	99	75 - 127	0	30		
1,2-Dichlorobenzene	112	109	77 - 124	3	30		
1,2-Dichloroethane	100	103	75 - 120	3	30		
1,2-Dichloropropane	84	94	71 - 126	11	30		
1,3-Dichlorobenzene	98	96	79 - 123	2	30		
1,4-Dichlorobenzene	114	109	76 - 124	4	30		
2-Butanone	83	88	55 - 142	6	30		
2-Hexanone	92	98	52 - 149	6	30		
4-Methyl-2-pentanone	93	93	51 - 143	0	30		
Acetone	78	87	39 - 162	12	50		
Benzene	98	98	74 - 123	0	30		
Bromodichloromethane	90	90	72 - 129	1	30		
Bromoform	69	70	60 - 134	1	30		
Bromomethane	115	114	10 - 171	1	50		
Carbon disulfide	90	89	63 - 142	1	30		
Carbon tetrachloride	79	77	70 - 131	2	30		
Chlorobenzene	103	100	79 - 120	4	30		
Chloroethane	129	128	47 - 148	1	40		
Chloroform	92	92	76 - 128	0	30		
Chloromethane	104	103	47 - 151	1	30		
cis-1,2-Dichloroethene	92	93	78 - 127	1	30		
cis-1,3-Dichloropropene	82	95	73 - 128	15	30		
Cyclohexane	105	95	68 - 137	10	30		
Dibromochloromethane	82	83	63 - 134	1	50		
Dichlorodifluoromethane	98	92	41 - 165	6	50		
Ethylbenzene	104	102	78 - 125	3	30		
Isopropylbenzene	115	105	72 - 129	9	30		
Methyl acetate	72	75	26 - 182	4	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-277297**

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

LCS Lab Sample ID: LCS 680-277297/4	Analysis Batch: 680-277297	Instrument ID: MSO2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: oe2009q.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/20/2013 1038	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/20/2013 1038		
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 680-277297/5	Analysis Batch: 680-277297	Instrument ID: MSO2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: oe2011q.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/20/2013 1107	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/20/2013 1107		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	90	93	76 - 126	3	30		
Methylcyclohexane	105	98	72 - 133	7	30		
Methylene Chloride	96	92	79 - 124	5	30		
Styrene	110	108	75 - 129	2	30		
Tetrachloroethene	101	99	77 - 128	2	30		
Toluene	101	100	77 - 125	1	30		
trans-1,2-Dichloroethene	93	93	78 - 130	1	30		
trans-1,3-Dichloropropene	82	92	72 - 127	12	50		
Trichloroethene	93	96	80 - 120	3	30		
Trichlorofluoromethane	114	114	66 - 144	0	30		
Vinyl chloride	107	105	58 - 141	2	30		
Xylenes, Total	106	104	80 - 124	2	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	102		100		70 - 130		
Dibromofluoromethane	94		95		70 - 130		
Toluene-d8 (Surr)	100		99		70 - 130		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-277297**

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

LCS Lab Sample ID: LCS 680-277297/4 Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/20/2013 1038
 Prep Date: 05/20/2013 1038
 Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-277297/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/20/2013 1107
 Prep Date: 05/20/2013 1107
 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	45.4	46.8
1,1,2,2-Tetrachloroethane	50.0	50.0	51.1	50.9
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.0	47.1	47.0
1,1,2-Trichloroethane	50.0	50.0	50.7	48.3
1,1-Dichloroethane	50.0	50.0	43.5	45.8
1,1-Dichloroethene	50.0	50.0	46.5	47.1
1,2,4-Trichlorobenzene	50.0	50.0	39.6	36.0
1,2-Dibromo-3-Chloropropane	50.0	50.0	45.4	43.2
1,2-Dibromoethane	50.0	50.0	49.3	49.3
1,2-Dichlorobenzene	50.0	50.0	56.1	54.6
1,2-Dichloroethane	50.0	50.0	49.8	51.4
1,2-Dichloropropane	50.0	50.0	42.1	47.1
1,3-Dichlorobenzene	50.0	50.0	49.0	48.1
1,4-Dichlorobenzene	50.0	50.0	56.8	54.6
2-Butanone	100	100	83.3	88.2
2-Hexanone	100	100	92.1	97.6
4-Methyl-2-pentanone	100	100	92.5	92.8
Acetone	100	100	77.6	87.4
Benzene	50.0	50.0	49.2	49.1
Bromodichloromethane	50.0	50.0	44.8	45.1
Bromoform	50.0	50.0	34.6	34.8
Bromomethane	50.0	50.0	57.5	57.0
Carbon disulfide	50.0	50.0	45.2	44.6
Carbon tetrachloride	50.0	50.0	39.4	38.5
Chlorobenzene	50.0	50.0	51.7	49.9
Chloroethane	50.0	50.0	64.7	64.0
Chloroform	50.0	50.0	46.1	46.2
Chloromethane	50.0	50.0	52.2	51.5
cis-1,2-Dichloroethene	50.0	50.0	45.8	46.4
cis-1,3-Dichloropropene	50.0	50.0	40.8	47.3
Cyclohexane	50.0	50.0	52.4	47.4
Dibromochloromethane	50.0	50.0	40.9	41.3
Dichlorodifluoromethane	50.0	50.0	49.0	46.0
Ethylbenzene	50.0	50.0	52.2	50.9
Isopropylbenzene	50.0	50.0	57.7	52.5
Methyl acetate	50.0	50.0	36.0	37.6
Methyl tert-butyl ether	100	100	90.1	93.2
Methylcyclohexane	50.0	50.0	52.5	48.8
Methylene Chloride	50.0	50.0	48.1	45.9

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-277297**

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

LCS Lab Sample ID: LCS 680-277297/4 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/20/2013 1038
Prep Date: 05/20/2013 1038
Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-277297/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/20/2013 1107
Prep Date: 05/20/2013 1107
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Styrene	50.0	50.0	55.0	54.1
Tetrachloroethene	50.0	50.0	50.5	49.6
Toluene	50.0	50.0	50.5	49.8
trans-1,2-Dichloroethene	50.0	50.0	46.6	46.3
trans-1,3-Dichloropropene	50.0	50.0	40.8	46.1
Trichloroethene	50.0	50.0	46.4	48.0
Trichlorofluoromethane	50.0	50.0	57.2	57.1
Vinyl chloride	50.0	50.0	53.3	52.3
Xylenes, Total	150	150	159	157

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277297**

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

MS Lab Sample ID: 680-90122-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/20/2013 2000
Prep Date: 05/20/2013 2000
Leach Date: N/A

Analysis Batch: 680-277297
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: MSO2
Lab File ID: oe2047.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 680-90122-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/20/2013 2030
Prep Date: 05/20/2013 2030
Leach Date: N/A

Analysis Batch: 680-277297
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: MSO2
Lab File ID: oe2049.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,1,1-Trichloroethane	95	92	76 - 126	3	30		
1,1,2,2-Tetrachloroethane	112	105	71 - 127	7	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	112	105	72 - 139	6	30		
1,1,2-Trichloroethane	102	96	69 - 127	6	30		
1,1-Dichloroethane	104	99	69 - 132	5	30		
1,1-Dichloroethene	109	102	73 - 134	6	30		
1,2,4-Trichlorobenzene	89	84	67 - 134	5	30		
1,2-Dibromo-3-Chloropropane	85	84	57 - 126	1	50		
1,2-Dibromoethane	100	94	75 - 127	6	30		
1,2-Dichlorobenzene	134	126	77 - 124	6	30	F	F
1,2-Dichloroethane	110	103	75 - 120	6	30		
1,2-Dichloropropane	105	97	71 - 126	7	30		
1,3-Dichlorobenzene	118	111	79 - 123	6	30		
1,4-Dichlorobenzene	135	129	76 - 124	5	30	F	F
2-Butanone	88	84	55 - 142	5	30		
2-Hexanone	100	95	52 - 149	6	30		
4-Methyl-2-pentanone	99	92	51 - 143	8	30		
Acetone	83	86	39 - 162	3	50		
Benzene	106	101	74 - 123	4	30		
Bromodichloromethane	90	86	72 - 129	4	30		
Bromoform	58	60	60 - 134	3	30	F	
Bromomethane	125	138	10 - 171	10	50		
Carbon disulfide	105	100	63 - 142	5	30		
Carbon tetrachloride	68	70	70 - 131	3	30	F	
Chlorobenzene	110	105	79 - 120	5	30		
Chloroethane	167	157	47 - 148	6	40	F	F
Chloroform	103	98	76 - 128	5	30		
Chloromethane	124	116	47 - 151	6	30		
cis-1,2-Dichloroethene	103	97	78 - 127	6	30		
cis-1,3-Dichloropropene	87	83	73 - 128	5	30		
Cyclohexane	111	104	68 - 137	7	30		
Dibromochloromethane	74	73	63 - 134	1	50		
Dichlorodifluoromethane	107	101	41 - 165	6	50		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277297**

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

MS Lab Sample ID: 680-90122-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/20/2013 2000
Prep Date: 05/20/2013 2000
Leach Date: N/A

Analysis Batch: 680-277297
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: MSO2
Lab File ID: oe2047.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 680-90122-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/20/2013 2030
Prep Date: 05/20/2013 2030
Leach Date: N/A

Analysis Batch: 680-277297
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: MSO2
Lab File ID: oe2049.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ethylbenzene	116	111	78 - 125	4	30		
Isopropylbenzene	121	115	72 - 129	6	30		
Methyl acetate	73	71	26 - 182	3	30		
Methyl tert-butyl ether	93	88	76 - 126	5	30		
Methylcyclohexane	110	103	72 - 133	6	30		
Methylene Chloride	101	96	79 - 124	6	30		
Styrene	122	114	75 - 129	7	30		
Tetrachloroethene	112	105	77 - 128	7	30		
Toluene	113	108	77 - 125	5	30		
trans-1,2-Dichloroethene	106	100	78 - 130	6	30		
trans-1,3-Dichloropropene	83	80	72 - 127	3	50		
Trichloroethene	106	100	80 - 120	5	30		
Trichlorofluoromethane	142	131	66 - 144	8	30		
Vinyl chloride	128	120	58 - 141	7	30		
Xylenes, Total	121	113	80 - 124	6	30		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
4-Bromofluorobenzene		113	106			70 - 130	
Dibromofluoromethane		104	98			70 - 130	
Toluene-d8 (Surr)		112	105			70 - 130	

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277297**

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

MS Lab Sample ID: 680-90122-3 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/20/2013 2000
Prep Date: 05/20/2013 2000
Leach Date: N/A

MSD Lab Sample ID: 680-90122-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/20/2013 2030
Prep Date: 05/20/2013 2030
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	47.7	46.1
1,1,2,2-Tetrachloroethane	ND	50.0	50.0	56.2	52.7
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	50.0	50.0	55.8	52.3
1,1,2-Trichloroethane	ND	50.0	50.0	51.1	48.2
1,1-Dichloroethane	1.2	50.0	50.0	53.1	50.7
1,1-Dichloroethene	ND	50.0	50.0	54.3	51.2
1,2,4-Trichlorobenzene	ND	50.0	50.0	44.3	42.0
1,2-Dibromo-3-Chloropropane	ND	50.0	50.0	42.3	41.9
1,2-Dibromoethane	ND	50.0	50.0	49.9	47.0
1,2-Dichlorobenzene	ND	50.0	50.0	66.8	F 62.9
1,2-Dichloroethane	0.32 J	50.0	50.0	55.3	52.0
1,2-Dichloropropane	ND	50.0	50.0	52.3	48.5
1,3-Dichlorobenzene	ND	50.0	50.0	59.1	55.5
1,4-Dichlorobenzene	ND	50.0	50.0	67.4	F 64.4
2-Butanone	3.8 J	100	100	91.6	87.5
2-Hexanone	1.9 J	100	100	102	96.5
4-Methyl-2-pentanone	ND	100	100	99.3	91.9
Acetone	11 J	100	100	94.1	97.3
Benzene	19	50.0	50.0	72.0	69.2
Bromodichloromethane	ND	50.0	50.0	44.8	43.2
Bromoform	ND	50.0	50.0	29.0	F 30.0
Bromomethane	ND	50.0	50.0	62.7	68.9
Carbon disulfide	ND	50.0	50.0	52.6	50.1
Carbon tetrachloride	ND	50.0	50.0	34.1	F 35.2
Chlorobenzene	ND	50.0	50.0	55.2	52.3
Chloroethane	ND	50.0	50.0	83.7	F 78.5
Chloroform	ND	50.0	50.0	51.3	48.8
Chloromethane	ND	50.0	50.0	61.8	58.0
cis-1,2-Dichloroethene	2.8	50.0	50.0	54.2	51.2
cis-1,3-Dichloropropene	ND	50.0	50.0	43.6	41.3
Cyclohexane	1.7	50.0	50.0	57.4	53.6
Dibromochloromethane	ND	50.0	50.0	36.9	36.5
Dichlorodifluoromethane	ND	50.0	50.0	53.7	50.3
Ethylbenzene	10	50.0	50.0	68.3	65.8
Isopropylbenzene	1.0	50.0	50.0	61.7	58.3
Methyl acetate	ND	50.0	50.0	36.5	35.5
Methyl tert-butyl ether	ND	100	100	92.5	87.7
Methylcyclohexane	ND	50.0	50.0	55.1	51.7
Methylene Chloride	ND	50.0	50.0	50.7	47.9
Styrene	ND	50.0	50.0	61.2	57.2
Tetrachloroethene	ND	50.0	50.0	55.8	52.3
Toluene	0.91 J	50.0	50.0	57.5	54.7
trans-1,2-Dichloroethene	ND	50.0	50.0	53.0	49.9

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277297**

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

MS Lab Sample ID: 680-90122-3 Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/20/2013 2000
 Prep Date: 05/20/2013 2000
 Leach Date: N/A

MSD Lab Sample ID: 680-90122-3
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/20/2013 2030
 Prep Date: 05/20/2013 2030
 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	41.4	40.1
Trichloroethene	1.7	50.0	50.0	54.5	51.6
Trichlorofluoromethane	ND	50.0	50.0	71.1	65.7
Vinyl chloride	0.66 J	50.0	50.0	63.9	59.9
Xylenes, Total	1.0 J	150	150	182	171

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

Method Blank - Batch: 200-55736

Lab Sample ID: MB 200-55736/25
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/20/2013 1602
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-55736
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Method: RSK-175

Preparation: N/A

Instrument ID: CH2866.i
 Lab File ID: MECAQ026.D
 Initial Weight/Volume: 18 mL
 Final Weight/Volume: 18 mL
 Injection Volume:
 Column ID: PRIMARY

Analyte	Result	Qual	RL	RL
Methane	ND		2.0	2.0
Ethane	ND		4.0	4.0
Ethylene	ND		3.0	3.0

Lab Control Sample - Batch: 200-55736

Lab Sample ID: LCS 200-55736/24
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/20/2013 1552
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-55736
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Method: RSK-175

Preparation: N/A

Instrument ID: CH2866.i
 Lab File ID: MECAQ025.D
 Initial Weight/Volume: 18 mL
 Final Weight/Volume: 18 mL
 Injection Volume:
 Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Methane	72.4	60.9	84	70 - 130	
Ethane	137	114	83	70 - 130	
Ethylene	128	111	86	70 - 130	

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 200-55736**

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

MS Lab Sample ID: 680-90122-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/20/2013 1712
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 200-55736
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: CH2866.i
Lab File ID: MECAQ035.D
Initial Weight/Volume: 18 mL
Final Weight/Volume: 18 mL
Injection Volume:
Column ID: PRIMARY

MSD Lab Sample ID: 680-90122-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/20/2013 1718
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 200-55736
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: CH2866.i
Lab File ID: MECAQ036.D
Initial Weight/Volume: 18 mL
Final Weight/Volume: 18 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Methane	62	77	70 - 130	15	30	F	
Ethane	93	77	70 - 130	19	30		
Ethylene	89	78	70 - 130	13	30		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 200-55736**

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

MS Lab Sample ID: 680-90122-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/20/2013 1712
Prep Date: N/A
Leach Date: N/A

Units: ug/L

MSD Lab Sample ID: 680-90122-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/20/2013 1718
Prep Date: N/A
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS		MSD	
				Result/Qual	Amount	Result/Qual	Amount
Methane	22	72.4	72.4	67.1	F	78.4	
Ethane	ND	137	137	127		105	
Ethylene	ND	128	128	114		100	

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

Method Blank - Batch: 680-276285

Lab Sample ID: MB 680-276285/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/16/2013 2026
 Prep Date: 05/10/2013 1107
 Leach Date: N/A

Analysis Batch: 680-277109
 Prep Batch: 680-276285
 Leach Batch: N/A
 Units: ug/L

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

Instrument ID: ICPE
 Lab File ID: E05162013AF.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: 680-276285

Lab Sample ID: LCS 680-276285/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/16/2013 2032
 Prep Date: 05/10/2013 1107
 Leach Date: N/A

Analysis Batch: 680-277109
 Prep Batch: 680-276285
 Leach Batch: N/A
 Units: ug/L

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

Instrument ID: ICPE
 Lab File ID: E05162013AF.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	5000	4740	95	75 - 125	
Sodium	5000	4620	92	75 - 125	

**Matrix Spike/
 Matrix Spike Duplicate Recovery Report - Batch: 680-276285**

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

MS Lab Sample ID: 680-90039-B-9-B MS
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/16/2013 2042
 Prep Date: 05/10/2013 1107
 Leach Date: N/A

Analysis Batch: 680-277109
 Prep Batch: 680-276285
 Leach Batch: N/A

Instrument ID: ICPE
 Lab File ID: E05162013AF.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 680-90039-B-9-C MSD
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/16/2013 2048
 Prep Date: 05/10/2013 1107
 Leach Date: N/A

Analysis Batch: 680-277109
 Prep Batch: 680-276285
 Leach Batch: N/A

Instrument ID: ICPE
 Lab File ID: E05162013AF.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Iron	100	96	75 - 125	4	20		
Sodium	101	90	75 - 125	2	20	4	4

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-276285**

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

MS Lab Sample ID: 680-90039-B-9-B MS Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/16/2013 2042
 Prep Date: 05/10/2013 1107
 Leach Date: N/A

MSD Lab Sample ID: 680-90039-B-9-C MSD
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/16/2013 2048
 Prep Date: 05/10/2013 1107
 Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	51 J	5000	5000	5070	4850
Sodium	24000	5000	5000	28900 4	28400 4

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

Method Blank - Batch: 680-277276

Lab Sample ID: MB 680-277276/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/21/2013 1805
 Prep Date: 05/20/2013 1117
 Leach Date: N/A

Analysis Batch: 680-277577
 Prep Batch: 680-277276
 Leach Batch: N/A
 Units: ug/L

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

Instrument ID: ICPE
 Lab File ID: E05212013.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: 680-277276

Lab Sample ID: LCS 680-277276/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/21/2013 1811
 Prep Date: 05/20/2013 1117
 Leach Date: N/A

Analysis Batch: 680-277577
 Prep Batch: 680-277276
 Leach Batch: N/A
 Units: ug/L

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

Instrument ID: ICPE
 Lab File ID: E05212013.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	5000	4800	96	75 - 125	
Sodium	5000	4890	98	75 - 125	

Post Digestion Spike - Batch: 680-277276

Lab Sample ID: 680-90122-3
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/21/2013 1943
 Prep Date: 05/20/2013 1117
 Leach Date: N/A

Analysis Batch: 680-277577
 Prep Batch: 680-277276
 Leach Batch: N/A
 Units: ug/L

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

Instrument ID: ICPE
 Lab File ID: E05212013.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Iron	6500	1000	7310	83	75 - 125	
Sodium	16000	5000	16000	-5	75 - 125	W

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277276**

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

MS Lab Sample ID: 680-90122-3	Analysis Batch: 680-277577	Instrument ID: ICPE
Client Matrix: Water	Prep Batch: 680-277276	Lab File ID: E05212013.csv
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 50 mL
Analysis Date: 05/21/2013 1949		Final Weight/Volume: 50 mL
Prep Date: 05/20/2013 1117		
Leach Date: N/A		

MSD Lab Sample ID: 680-90122-3	Analysis Batch: 680-277577	Instrument ID: ICPE
Client Matrix: Water	Prep Batch: 680-277276	Lab File ID: E05212013.csv
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 50 mL
Analysis Date: 05/21/2013 1954		Final Weight/Volume: 50 mL
Prep Date: 05/20/2013 1117		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Iron	179	117	75 - 125	22	20	F	F
Sodium	-16	44	75 - 125	18	20	F	F

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277276**

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

MS Lab Sample ID: 680-90122-3	Units: ug/L	MSD Lab Sample ID: 680-90122-3
Client Matrix: Water		Client Matrix: Water
Dilution: 1.0		Dilution: 1.0
Analysis Date: 05/21/2013 1949		Analysis Date: 05/21/2013 1954
Prep Date: 05/20/2013 1117		Prep Date: 05/20/2013 1117
Leach Date: N/A		Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS		MSD	
				Result/Qual		Result/Qual	
Iron	6500	5000	5000	15400	F	12300	F
Sodium	16000	5000	5000	15400	F	18400	F

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

Serial Dilution - Batch: 680-277276

Method: 6010C
Preparation: 3010A

Lab Sample ID:	680-90122-3	Analysis Batch:	680-277577	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-277276	Lab File ID:	E05212013.csv
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/21/2013 1938	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/20/2013 1117				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Iron	6500	6700	3.5	10	
Sodium	16000	15500	NC	10	

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

Method Blank - Batch: 680-277184

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 680-277184/2
Client Matrix: Water
Dilution: 5.0
Analysis Date: 05/17/2013 1210
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 680-277184
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: ICL
Lab File ID: 0005.d
Initial Weight/Volume: 1 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloride	ND		1.0	5.0
Sulfate	ND		2.6	5.0

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-277184**

Method: 300.0
Preparation: N/A

LCS Lab Sample ID: LCS 680-277184/3
Client Matrix: Water
Dilution: 5.0
Analysis Date: 05/17/2013 1223
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 680-277184
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: ICL
Lab File ID: 0006.d
Initial Weight/Volume: 1 mL
Final Weight/Volume: 5 mL
20 uL

LCSD Lab Sample ID: LCSD 680-277184/4
Client Matrix: Water
Dilution: 5.0
Analysis Date: 05/17/2013 1235
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 680-277184
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: ICL
Lab File ID: 0007.d
Initial Weight/Volume: 1 mL
Final Weight/Volume: 5 mL
20 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Chloride	97	95	90 - 110	2	30		
Sulfate	98	96	90 - 110	2	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-277184**

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

LCS Lab Sample ID: LCS 680-277184/3 Units: mg/L
Client Matrix: Water
Dilution: 5.0
Analysis Date: 05/17/2013 1223
Prep Date: N/A
Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-277184/4
Client Matrix: Water
Dilution: 5.0
Analysis Date: 05/17/2013 1235
Prep Date: N/A
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	50.0	50.0	48.7	47.6
Sulfate	50.0	50.0	49.0	47.8

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277184**

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

MS Lab Sample ID:	680-89899-I-2 MS	Analysis Batch:	680-277184	Instrument ID:	ICL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0011.d
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	05/17/2013 1755			Final Weight/Volume:	5 mL
Prep Date:	N/A				20 uL
Leach Date:	N/A				

MSD Lab Sample ID:	680-89899-I-2 MSD	Analysis Batch:	680-277184	Instrument ID:	ICL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0012.d
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	05/17/2013 1808			Final Weight/Volume:	5 mL
Prep Date:	N/A				20 uL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chloride	93	93	90 - 110	0	30		
Sulfate	99	99	90 - 110	0	30		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277184**

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

MS Lab Sample ID:	680-90122-3	Analysis Batch:	680-277184	Instrument ID:	ICL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0028.d
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	05/17/2013 2126			Final Weight/Volume:	5 mL
Prep Date:	N/A				20 uL
Leach Date:	N/A				

MSD Lab Sample ID:	680-90122-3	Analysis Batch:	680-277184	Instrument ID:	ICL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0029.d
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	05/17/2013 2139			Final Weight/Volume:	5 mL
Prep Date:	N/A				20 uL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chloride	99	98	90 - 110	1	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277184**

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

MS Lab Sample ID: 680-89899-I-2 MS Units: mg/L
 Client Matrix: Water
 Dilution: 5.0
 Analysis Date: 05/17/2013 1755
 Prep Date: N/A
 Leach Date: N/A

MSD Lab Sample ID: 680-89899-I-2 MSD
 Client Matrix: Water
 Dilution: 5.0
 Analysis Date: 05/17/2013 1808
 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	160	50.0	50.0	205	205
Sulfate	13	50.0	50.0	62.1	62.0

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277184**

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

MS Lab Sample ID: 680-90122-3 Units: mg/L
 Client Matrix: Water
 Dilution: 5.0
 Analysis Date: 05/17/2013 2126
 Prep Date: N/A
 Leach Date: N/A

MSD Lab Sample ID: 680-90122-3
 Client Matrix: Water
 Dilution: 5.0
 Analysis Date: 05/17/2013 2139
 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	1.8 J	50.0	50.0	51.2	50.8

Duplicate - Batch: 680-277184

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

Lab Sample ID: 680-90122-6
 Client Matrix: Water
 Dilution: 5.0
 Analysis Date: 05/17/2013 2241
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-277184
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: ICL
 Lab File ID: 0034.d
 Initial Weight/Volume: 1 mL
 Final Weight/Volume: 5 mL
 20 uL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	ND	ND	NC	30	
Sulfate	14	13.5	1	30	

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

Method Blank - Batch: 680-277433

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 680-277433/2	Analysis Batch:	680-277433	Instrument ID:	ICG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0005.d
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	05/20/2013 1612	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Sulfate	ND		2.6	5.0

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-277433**

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 680-277433/3	Analysis Batch:	680-277433	Instrument ID:	ICG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0006.d
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	05/20/2013 1625	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 680-277433/4	Analysis Batch:	680-277433	Instrument ID:	ICG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0007.d
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	05/20/2013 1637	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				1 uL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Sulfate	105	105	90 - 110	0	30		

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-277433**

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 680-277433/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 680-277433/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	5.0			Dilution:	5.0
Analysis Date:	05/20/2013 1625			Analysis Date:	05/20/2013 1637
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Sulfate	50.0	50.0	52.6	52.6

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277433**

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

MS Lab Sample ID:	680-90122-3	Analysis Batch:	680-277433	Instrument ID:	ICG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0017.d
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	05/20/2013 1841			Final Weight/Volume:	5 mL
Prep Date:	N/A				1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	680-90122-3	Analysis Batch:	680-277433	Instrument ID:	ICG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0018.d
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	05/20/2013 1854			Final Weight/Volume:	5 mL
Prep Date:	N/A				1 uL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Sulfate	59	78	90 - 110	5	30	F	F

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-277433**

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

MS Lab Sample ID:	680-90122-3	Units:	mg/L	MSD Lab Sample ID:	680-90122-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	5.0			Dilution:	5.0
Analysis Date:	05/20/2013 1841			Analysis Date:	05/20/2013 1854
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sulfate	160	50.0	50.0	192 F	202 F

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

Method Blank - Batch: 680-276215

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 680-276215/13
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/09/2013 1551
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 680-276215
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: LACHAT2
Lab File ID: OM_5-9-2013_15-27-5
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

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: 680-276215

Method: 353.2
Preparation: N/A

Lab Sample ID: LCS 680-276215/14
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/09/2013 1552
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 680-276215
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: LACHAT2
Lab File ID: OM_5-9-2013_15-27-5
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N	0.500	0.501	100	90 - 110	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-276215**

Method: 353.2
Preparation: N/A

MS Lab Sample ID: 680-90122-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/09/2013 1555
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 680-276215
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: LACHAT2
Lab File ID: OM_5-9-2013_15-27-5
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

MSD Lab Sample ID: 680-90122-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/09/2013 1556
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 680-276215
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: LACHAT2
Lab File ID: OM_5-9-2013_15-27-5
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrite as N	102	102	90 - 110	0	10		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-276215**

**Method: 353.2
Preparation: N/A**

MS Lab Sample ID: 680-90122-3 Units: mg/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/09/2013 1555
 Prep Date: N/A
 Leach Date: N/A

MSD Lab Sample ID: 680-90122-3
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/09/2013 1556
 Prep Date: N/A
 Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrite as N	ND	0.500	0.500	0.509	0.508

Duplicate - Batch: 680-276215

**Method: 353.2
Preparation: N/A**

Lab Sample ID: 680-90140-E-2 DU
 Client Matrix: Water
 Dilution: 100
 Analysis Date: 05/09/2013 1616
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-276215
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: LACHAT2
 Lab File ID: OM_5-9-2013_15-27-5
 Initial Weight/Volume: 2 mL
 Final Weight/Volume: 2 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Nitrate as N	46	44.9	3	10	
Nitrite as N	1.8 J	1.81	0.7	10	J

DATA REPORTING QUALIFIERS

Client: Parsons Corporation

Job Number: 680-90122-1

Lab Section	Qualifier	Description
GC/MS VOA	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC VOA	F	MS or MSD exceeds the control limits
Metals	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	W	PS: Post-digestion spike was outside control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
General Chemistry	F	MS or MSD exceeds the control limits
	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: 680-90122-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-277297					
LCS 680-277297/4	Lab Control Sample	T	Water	8260B	
LCSD 680-277297/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-277297/7	Method Blank	T	Water	8260B	
680-90122-1	25LM20098	T	Water	8260B	
680-90122-2	25LM20099	T	Water	8260B	
680-90122-3	25LM20101	T	Water	8260B	
680-90122-3MS	Matrix Spike	T	Water	8260B	
680-90122-3MSD	Matrix Spike Duplicate	T	Water	8260B	
680-90122-4	25LM20102	T	Water	8260B	
680-90122-5	25LM00022	T	Water	8260B	

Report Basis

T = Total

GC VOA

Analysis Batch:200-55736					
LCS 200-55736/24	Lab Control Sample	T	Water	RSK-175	
MB 200-55736/25	Method Blank	T	Water	RSK-175	
680-90122-1	25LM20098	T	Water	RSK-175	
680-90122-2	25LM20099	T	Water	RSK-175	
680-90122-3	25LM20101	T	Water	RSK-175	
680-90122-3MS	Matrix Spike	T	Water	RSK-175	
680-90122-3MSD	Matrix Spike Duplicate	T	Water	RSK-175	
680-90122-4	25LM20102	T	Water	RSK-175	

Report Basis

T = Total

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-276285					
LCS 680-276285/2-A	Lab Control Sample	T	Water	3010A	
MB 680-276285/1-A	Method Blank	T	Water	3010A	
680-90039-B-9-B MS	Matrix Spike	T	Water	3010A	
680-90039-B-9-C MSD	Matrix Spike Duplicate	T	Water	3010A	
680-90122-1	25LM20098	T	Water	3010A	
680-90122-2	25LM20099	T	Water	3010A	
680-90122-4	25LM20102	T	Water	3010A	
680-90122-6	25LM20105	T	Water	3010A	
Analysis Batch:680-277109					
LCS 680-276285/2-A	Lab Control Sample	T	Water	6010C	680-276285
MB 680-276285/1-A	Method Blank	T	Water	6010C	680-276285
680-90039-B-9-B MS	Matrix Spike	T	Water	6010C	680-276285
680-90039-B-9-C MSD	Matrix Spike Duplicate	T	Water	6010C	680-276285
680-90122-1	25LM20098	T	Water	6010C	680-276285
680-90122-2	25LM20099	T	Water	6010C	680-276285
680-90122-4	25LM20102	T	Water	6010C	680-276285
680-90122-6	25LM20105	T	Water	6010C	680-276285
Prep Batch: 680-277276					
LCS 680-277276/2-A	Lab Control Sample	T	Water	3010A	
MB 680-277276/1-A	Method Blank	T	Water	3010A	
680-90122-3	25LM20101	T	Water	3010A	
680-90122-3MS	Matrix Spike	T	Water	3010A	
680-90122-3MSD	Matrix Spike Duplicate	T	Water	3010A	
Analysis Batch:680-277577					
LCS 680-277276/2-A	Lab Control Sample	T	Water	6010C	680-277276
MB 680-277276/1-A	Method Blank	T	Water	6010C	680-277276
680-90122-3	25LM20101	T	Water	6010C	680-277276
680-90122-3MS	Matrix Spike	T	Water	6010C	680-277276
680-90122-3MSD	Matrix Spike Duplicate	T	Water	6010C	680-277276

Report Basis

T = Total

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:680-276215					
LCS 680-276215/14	Lab Control Sample	T	Water	353.2	
MB 680-276215/13	Method Blank	T	Water	353.2	
680-90122-1	25LM20098	T	Water	353.2	
680-90122-2	25LM20099	T	Water	353.2	
680-90122-3	25LM20101	T	Water	353.2	
680-90122-3MS	Matrix Spike	T	Water	353.2	
680-90122-3MSD	Matrix Spike Duplicate	T	Water	353.2	
680-90122-4	25LM20102	T	Water	353.2	
680-90140-E-2 DU	Duplicate	T	Water	353.2	
Analysis Batch:680-277184					
LCS 680-277184/3	Lab Control Sample	T	Water	300.0	
LCSD 680-277184/4	Lab Control Sample Duplicate	T	Water	300.0	
MB 680-277184/2	Method Blank	T	Water	300.0	
680-89899-I-2 MS	Matrix Spike	T	Water	300.0	
680-89899-I-2 MSD	Matrix Spike Duplicate	T	Water	300.0	
680-90122-1	25LM20098	T	Water	300.0	
680-90122-2	25LM20099	T	Water	300.0	
680-90122-3	25LM20101	T	Water	300.0	
680-90122-3MS	Matrix Spike	T	Water	300.0	
680-90122-3MSD	Matrix Spike Duplicate	T	Water	300.0	
680-90122-4	25LM20102	T	Water	300.0	
680-90122-6	25LM20105	T	Water	300.0	
680-90122-6DU	Duplicate	T	Water	300.0	
Analysis Batch:680-277433					
LCS 680-277433/3	Lab Control Sample	T	Water	300.0	
LCSD 680-277433/4	Lab Control Sample Duplicate	T	Water	300.0	
MB 680-277433/2	Method Blank	T	Water	300.0	
680-90122-3	25LM20101	T	Water	300.0	
680-90122-3MS	Matrix Spike	T	Water	300.0	
680-90122-3MSD	Matrix Spike Duplicate	T	Water	300.0	

Report Basis

T = Total

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

Laboratory Chronicle

Lab ID: 680-90122-1

Client ID: 25LM20098

Sample Date/Time: 05/08/2013 10:22

Received Date/Time: 05/09/2013 08:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-90122-D-1		680-277297		05/20/2013 18:02	1	TAL SAV	JD
A:8260B	680-90122-D-1		680-277297		05/20/2013 18:02	1	TAL SAV	JD
A:RSK-175	680-90122-G-1		200-55736		05/20/2013 16:56	1	TAL BUR	NA
P:3010A	680-90122-A-1-A		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	680-90122-A-1-A		680-277109	680-276285	05/16/2013 21:31	1	TAL SAV	BCB
A:300.0	680-90122-B-1		680-277184		05/17/2013 20:49	5	TAL SAV	PAT
A:353.2	680-90122-B-1		680-276215		05/09/2013 15:57	1	TAL SAV	RW

Lab ID: 680-90122-2

Client ID: 25LM20099

Sample Date/Time: 05/08/2013 12:50

Received Date/Time: 05/09/2013 08:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-90122-D-2		680-277297		05/20/2013 18:32	1	TAL SAV	JD
A:8260B	680-90122-D-2		680-277297		05/20/2013 18:32	1	TAL SAV	JD
A:RSK-175	680-90122-G-2		200-55736		05/20/2013 17:02	1	TAL BUR	NA
P:3010A	680-90122-A-2-A		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	680-90122-A-2-A		680-277109	680-276285	05/16/2013 21:37	1	TAL SAV	BCB
A:300.0	680-90122-B-2		680-277184		05/17/2013 21:01	5	TAL SAV	PAT
A:353.2	680-90122-B-2		680-276215		05/09/2013 15:58	1	TAL SAV	RW

Lab ID: 680-90122-3

Client ID: 25LM20101

Sample Date/Time: 05/08/2013 15:30

Received Date/Time: 05/09/2013 08:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-90122-C-3		680-277297		05/20/2013 19:01	1	TAL SAV	JD
A:8260B	680-90122-C-3		680-277297		05/20/2013 19:01	1	TAL SAV	JD
A:RSK-175	680-90122-G-3		200-55736		05/20/2013 17:07	1	TAL BUR	NA
P:3010A	680-90122-I-3-C		680-277577	680-277276	05/20/2013 11:17	1	TAL SAV	MK
A:6010C	680-90122-I-3-C		680-277577	680-277276	05/21/2013 19:33	1	TAL SAV	BCB
A:300.0	680-90122-A-3		680-277184		05/17/2013 21:14	5	TAL SAV	PAT
A:300.0	680-90122-A-3		680-277433		05/20/2013 18:29	5	TAL SAV	PAT
A:353.2	680-90122-A-3		680-276215		05/09/2013 15:54	1	TAL SAV	RW

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

Laboratory Chronicle

Lab ID: 680-90122-3

Client ID: 25LM20101

Sample Date/Time: 05/08/2013 15:30

Received Date/Time: 05/09/2013 08:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-90122-E-3 MS		680-277297		05/20/2013 20:00	1	TAL SAV	JD
A:8260B	680-90122-E-3 MS		680-277297		05/20/2013 20:00	1	TAL SAV	JD
A:RSK-175	680-90122-G-3 MS		200-55736		05/20/2013 17:12	1	TAL BUR	NA
P:3010A	680-90122-A-3-B MS		680-277577	680-277276	05/20/2013 11:17	1	TAL SAV	MK
A:6010C	680-90122-A-3-B MS		680-277577	680-277276	05/21/2013 19:49	1	TAL SAV	BCB
A:300.0	680-90122-B-3 MS		680-277184		05/17/2013 21:26	5	TAL SAV	PAT
A:300.0	680-90122-B-3 MS		680-277433		05/20/2013 18:41	5	TAL SAV	PAT
A:353.2	680-90122-B-3 MS		680-276215		05/09/2013 15:55	1	TAL SAV	RW

Lab ID: 680-90122-3

Client ID: 25LM20101

Sample Date/Time: 05/08/2013 15:30

Received Date/Time: 05/09/2013 08:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-90122-D-3 MSD		680-277297		05/20/2013 20:30	1	TAL SAV	JD
A:8260B	680-90122-D-3 MSD		680-277297		05/20/2013 20:30	1	TAL SAV	JD
A:RSK-175	680-90122-G-3 MSD		200-55736		05/20/2013 17:18	1	TAL BUR	NA
P:3010A	680-90122-I-3-D MSD		680-277577	680-277276	05/20/2013 11:17	1	TAL SAV	MK
A:6010C	680-90122-I-3-D MSD		680-277577	680-277276	05/21/2013 19:54	1	TAL SAV	BCB
A:300.0	680-90122-A-3 MSD		680-277184		05/17/2013 21:39	5	TAL SAV	PAT
A:300.0	680-90122-A-3 MSD		680-277433		05/20/2013 18:54	5	TAL SAV	PAT
A:353.2	680-90122-A-3 MSD		680-276215		05/09/2013 15:56	1	TAL SAV	RW

Lab ID: 680-90122-3 SD

Client ID: 25LM20101

Sample Date/Time: 05/08/2013 15:30

Received Date/Time: 05/09/2013 08:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	680-90122-I-3-C SD ^5		680-277577	680-277276	05/20/2013 11:17	5	TAL SAV	MK
A:6010C	680-90122-I-3-C SD ^5		680-277577	680-277276	05/21/2013 19:38	5	TAL SAV	BCB
P:3010A	680-90122-I-3-C PDS		680-277577	680-277276	05/20/2013 11:17	1	TAL SAV	MK
A:6010C	680-90122-I-3-C PDS		680-277577	680-277276	05/21/2013 19:43	1	TAL SAV	BCB

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

Laboratory Chronicle

Lab ID: 680-90122-4

Client ID: 25LM20102

Sample Date/Time: 05/08/2013 15:30

Received Date/Time: 05/09/2013 08:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-90122-D-4		680-277297		05/20/2013 19:31	1	TAL SAV	JD
A:8260B	680-90122-D-4		680-277297		05/20/2013 19:31	1	TAL SAV	JD
A:RSK-175	680-90122-G-4		200-55736		05/20/2013 17:23	1	TAL BUR	NA
P:3010A	680-90122-A-4-A		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	680-90122-A-4-A		680-277109	680-276285	05/16/2013 21:42	1	TAL SAV	BCB
A:300.0	680-90122-B-4		680-277184		05/17/2013 22:16	5	TAL SAV	PAT
A:353.2	680-90122-B-4		680-276215		05/09/2013 16:00	1	TAL SAV	RW

Lab ID: 680-90122-5

Client ID: 25LM00022

Sample Date/Time: 05/08/2013 17:15

Received Date/Time: 05/09/2013 08:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-90122-A-5		680-277297		05/20/2013 13:35	1	TAL SAV	JD
A:8260B	680-90122-A-5		680-277297		05/20/2013 13:35	1	TAL SAV	JD

Lab ID: 680-90122-6

Client ID: 25LM20105

Sample Date/Time: 05/07/2013 13:26

Received Date/Time: 05/09/2013 08:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	680-90122-A-6-A		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	680-90122-A-6-A		680-277109	680-276285	05/16/2013 21:48	1	TAL SAV	BCB
A:300.0	680-90122-B-6		680-277184		05/17/2013 22:28	5	TAL SAV	PAT

Lab ID: 680-90122-6 DU

Client ID: 25LM20105

Sample Date/Time: 05/07/2013 13:26

Received Date/Time: 05/09/2013 08:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	680-90122-B-6 DU		680-277184		05/17/2013 22:41	5	TAL SAV	PAT

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

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 680-277297/7		680-277297		05/20/2013 12:36	1	TAL SAV	JD
A:8260B	MB 680-277297/7		680-277297		05/20/2013 12:36	1	TAL SAV	JD
A:RSK-175	MB 200-55736/25		200-55736		05/20/2013 16:02	1	TAL BUR	NA
P:3010A	MB 680-276285/1-A		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	MB 680-276285/1-A		680-277109	680-276285	05/16/2013 20:26	1	TAL SAV	BCB
P:3010A	MB 680-277276/1-A		680-277577	680-277276	05/20/2013 11:17	1	TAL SAV	MK
A:6010C	MB 680-277276/1-A		680-277577	680-277276	05/21/2013 18:05	1	TAL SAV	BCB
A:300.0	MB 680-277184/2		680-277184		05/17/2013 12:10	5	TAL SAV	PAT
A:300.0	MB 680-277433/2		680-277433		05/20/2013 16:12	5	TAL SAV	PAT
A:353.2	MB 680-276215/13		680-276215		05/09/2013 15:51	1	TAL SAV	RW

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 680-277297/4		680-277297		05/20/2013 10:38	1	TAL SAV	JD
A:8260B	LCS 680-277297/4		680-277297		05/20/2013 10:38	1	TAL SAV	JD
A:RSK-175	LCS 200-55736/24		200-55736		05/20/2013 15:52	1	TAL BUR	NA
P:3010A	LCS 680-276285/2-A		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	LCS 680-276285/2-A		680-277109	680-276285	05/16/2013 20:32	1	TAL SAV	BCB
P:3010A	LCS 680-277276/2-A		680-277577	680-277276	05/20/2013 11:17	1	TAL SAV	MK
A:6010C	LCS 680-277276/2-A		680-277577	680-277276	05/21/2013 18:11	1	TAL SAV	BCB
A:300.0	LCS 680-277184/3		680-277184		05/17/2013 12:23	5	TAL SAV	PAT
A:300.0	LCS 680-277433/3		680-277433		05/20/2013 16:25	5	TAL SAV	PAT
A:353.2	LCS 680-276215/14		680-276215		05/09/2013 15:52	1	TAL SAV	RW

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 680-277297/5		680-277297		05/20/2013 11:07	1	TAL SAV	JD
A:8260B	LCSD 680-277297/5		680-277297		05/20/2013 11:07	1	TAL SAV	JD
A:300.0	LCSD 680-277184/4		680-277184		05/17/2013 12:35	5	TAL SAV	PAT
A:300.0	LCSD 680-277433/4		680-277433		05/20/2013 16:37	5	TAL SAV	PAT

Quality Control Results

Client: Parsons Corporation

Job Number: 680-90122-1

Laboratory Chronicle

Lab ID: MS

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:3010A	680-90039-B-9-B MS		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	680-90039-B-9-B MS		680-277109	680-276285	05/16/2013 20:42	1	TAL SAV	BCB
A:300.0	680-89899-I-2 MS		680-277184		05/17/2013 17:55	5	TAL SAV	PAT

Lab ID: MSD

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:3010A	680-90039-B-9-C MSD		680-277109	680-276285	05/10/2013 11:07	1	TAL SAV	BB
A:6010C	680-90039-B-9-C MSD		680-277109	680-276285	05/16/2013 20:48	1	TAL SAV	BCB
A:300.0	680-89899-I-2 MSD		680-277184		05/17/2013 18:08	5	TAL SAV	PAT

Lab ID: DU

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
A:353.2	680-90140-E-2 DU		680-276215		05/09/2013 16:16	100	TAL SAV	RW

Lab References:

TAL BUR = TestAmerica Burlington

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.: 680-90122-1

SDG No.: _____

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
25LM20098	680-90122-1	97	96	87
25LM20099	680-90122-2	97	96	89
25LM20101	680-90122-3	94	95	88
25LM20102	680-90122-4	93	96	87
25LM00022	680-90122-5	98	96	89
	MB 680-277297/7	98	95	90
	LCS 680-277297/4	94	100	102
	LCSD 680-277297/5	95	99	100
25LM20101 MS	680-90122-3 MS	104	112	113
25LM20101 MSD	680-90122-3 MSD	98	105	106

DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene

QC LIMITS
70-130
70-130
70-130

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: oe2009q.d
 Lab ID: LCS 680-277297/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	45.4	91	76-126	
1,1,2,2-Tetrachloroethane	50.0	51.1	102	71-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.1	94	72-139	
1,1,2-Trichloroethane	50.0	50.7	101	69-127	
1,1-Dichloroethane	50.0	43.5	87	69-132	
1,1-Dichloroethene	50.0	46.5	93	73-134	
1,2,4-Trichlorobenzene	50.0	39.6	79	67-134	
1,2-Dibromo-3-Chloropropane	50.0	45.4	91	57-126	
1,2-Dibromoethane	50.0	49.3	99	75-127	
1,2-Dichlorobenzene	50.0	56.1	112	77-124	
1,2-Dichloroethane	50.0	49.8	100	75-120	
1,2-Dichloropropane	50.0	42.1	84	71-126	
1,3-Dichlorobenzene	50.0	49.0	98	79-123	
1,4-Dichlorobenzene	50.0	56.8	114	76-124	
2-Butanone	100	83.3	83	55-142	
2-Hexanone	100	92.1	92	52-149	
4-Methyl-2-pentanone	100	92.5	93	51-143	
Acetone	100	77.6	78	39-162	
Benzene	50.0	49.2	98	74-123	
Bromodichloromethane	50.0	44.8	90	72-129	
Bromoform	50.0	34.6	69	60-134	
Bromomethane	50.0	57.5	115	10-171	
Carbon disulfide	50.0	45.2	90	63-142	
Carbon tetrachloride	50.0	39.4	79	70-131	
Chlorobenzene	50.0	51.7	103	79-120	
Chloroethane	50.0	64.7	129	47-148	
Chloroform	50.0	46.1	92	76-128	
Chloromethane	50.0	52.2	104	47-151	
cis-1,2-Dichloroethene	50.0	45.8	92	78-127	
cis-1,3-Dichloropropene	50.0	40.8	82	73-128	
Cyclohexane	50.0	52.4	105	68-137	
Dibromochloromethane	50.0	40.9	82	63-134	
Dichlorodifluoromethane	50.0	49.0	98	41-165	
Ethylbenzene	50.0	52.2	104	78-125	
Isopropylbenzene	50.0	57.7	115	72-129	
Methyl acetate	50.0	36.0	72	26-182	
Methyl tert-butyl ether	100	90.1	90	76-126	
Methylcyclohexane	50.0	52.5	105	72-133	
Methylene Chloride	50.0	48.1	96	79-124	
Styrene	50.0	55.0	110	75-129	
Tetrachloroethene	50.0	50.5	101	77-128	

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.: 680-90122-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: oe2009q.d
 Lab ID: LCS 680-277297/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	50.0	50.5	101	77-125	
trans-1,2-Dichloroethene	50.0	46.6	93	78-130	
trans-1,3-Dichloropropene	50.0	40.8	82	72-127	
Trichloroethene	50.0	46.4	93	80-120	
Trichlorofluoromethane	50.0	57.2	114	66-144	
Vinyl chloride	50.0	53.3	107	58-141	
Xylenes, Total	150	159	106	80-124	

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.: 680-90122-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: oe2011q.d

Lab ID: LCSO 680-277297/5

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSO CONCENTRATION (ug/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	50.0	46.8	94	3	30	76-126	
1,1,2,2-Tetrachloroethane	50.0	50.9	102	0	30	71-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.0	94	0	30	72-139	
1,1,2-Trichloroethane	50.0	48.3	97	5	30	69-127	
1,1-Dichloroethane	50.0	45.8	92	5	30	69-132	
1,1-Dichloroethene	50.0	47.1	94	1	30	73-134	
1,2,4-Trichlorobenzene	50.0	36.0	72	9	30	67-134	
1,2-Dibromo-3-Chloropropane	50.0	43.2	86	5	50	57-126	
1,2-Dibromoethane	50.0	49.3	99	0	30	75-127	
1,2-Dichlorobenzene	50.0	54.6	109	3	30	77-124	
1,2-Dichloroethane	50.0	51.4	103	3	30	75-120	
1,2-Dichloropropane	50.0	47.1	94	11	30	71-126	
1,3-Dichlorobenzene	50.0	48.1	96	2	30	79-123	
1,4-Dichlorobenzene	50.0	54.6	109	4	30	76-124	
2-Butanone	100	88.2	88	6	30	55-142	
2-Hexanone	100	97.6	98	6	30	52-149	
4-Methyl-2-pentanone	100	92.8	93	0	30	51-143	
Acetone	100	87.4	87	12	50	39-162	
Benzene	50.0	49.1	98	0	30	74-123	
Bromodichloromethane	50.0	45.1	90	1	30	72-129	
Bromoform	50.0	34.8	70	1	30	60-134	
Bromomethane	50.0	57.0	114	1	50	10-171	
Carbon disulfide	50.0	44.6	89	1	30	63-142	
Carbon tetrachloride	50.0	38.5	77	2	30	70-131	
Chlorobenzene	50.0	49.9	100	4	30	79-120	
Chloroethane	50.0	64.0	128	1	40	47-148	
Chloroform	50.0	46.2	92	0	30	76-128	
Chloromethane	50.0	51.5	103	1	30	47-151	
cis-1,2-Dichloroethene	50.0	46.4	93	1	30	78-127	
cis-1,3-Dichloropropene	50.0	47.3	95	15	30	73-128	
Cyclohexane	50.0	47.4	95	10	30	68-137	
Dibromochloromethane	50.0	41.3	83	1	50	63-134	
Dichlorodifluoromethane	50.0	46.0	92	6	50	41-165	
Ethylbenzene	50.0	50.9	102	3	30	78-125	
Isopropylbenzene	50.0	52.5	105	9	30	72-129	
Methyl acetate	50.0	37.6	75	4	30	26-182	
Methyl tert-butyl ether	100	93.2	93	3	30	76-126	
Methylcyclohexane	50.0	48.8	98	7	30	72-133	
Methylene Chloride	50.0	45.9	92	5	30	79-124	
Styrene	50.0	54.1	108	2	30	75-129	
Tetrachloroethene	50.0	49.6	99	2	30	77-128	

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.: 680-90122-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: oe2011q.d
 Lab ID: LCSO 680-277297/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSO CONCENTRATION (ug/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	50.0	49.8	100	1	30	77-125	
trans-1,2-Dichloroethene	50.0	46.3	93	1	30	78-130	
trans-1,3-Dichloropropene	50.0	46.1	92	12	50	72-127	
Trichloroethene	50.0	48.0	96	3	30	80-120	
Trichlorofluoromethane	50.0	57.1	114	0	30	66-144	
Vinyl chloride	50.0	52.3	105	2	30	58-141	
Xylenes, Total	150	157	104	2	30	80-124	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: oe2047.d

Lab ID: 680-90122-3 MS

Client ID: 25LM20101 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	47.7	95	76-126	
1,1,2,2-Tetrachloroethane	50.0	ND	56.2	112	71-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	ND	55.8	112	72-139	
1,1,2-Trichloroethane	50.0	ND	51.1	102	69-127	
1,1-Dichloroethane	50.0	1.2	53.1	104	69-132	
1,1-Dichloroethene	50.0	ND	54.3	109	73-134	
1,2,4-Trichlorobenzene	50.0	ND	44.3	89	67-134	
1,2-Dibromo-3-Chloropropane	50.0	ND	42.3	85	57-126	
1,2-Dibromoethane	50.0	ND	49.9	100	75-127	
1,2-Dichlorobenzene	50.0	ND	66.8	134	77-124	F
1,2-Dichloroethane	50.0	0.32 J	55.3	110	75-120	
1,2-Dichloropropane	50.0	ND	52.3	105	71-126	
1,3-Dichlorobenzene	50.0	ND	59.1	118	79-123	
1,4-Dichlorobenzene	50.0	ND	67.4	135	76-124	F
2-Butanone	100	3.8 J	91.6	88	55-142	
2-Hexanone	100	1.9 J	102	100	52-149	
4-Methyl-2-pentanone	100	ND	99.3	99	51-143	
Acetone	100	11 J	94.1	83	39-162	
Benzene	50.0	19	72.0	106	74-123	
Bromodichloromethane	50.0	ND	44.8	90	72-129	
Bromoform	50.0	ND	29.0	58	60-134	F
Bromomethane	50.0	ND	62.7	125	10-171	
Carbon disulfide	50.0	ND	52.6	105	63-142	
Carbon tetrachloride	50.0	ND	34.1	68	70-131	F
Chlorobenzene	50.0	ND	55.2	110	79-120	
Chloroethane	50.0	ND	83.7	167	47-148	F
Chloroform	50.0	ND	51.3	103	76-128	
Chloromethane	50.0	ND	61.8	124	47-151	
cis-1,2-Dichloroethene	50.0	2.8	54.2	103	78-127	
cis-1,3-Dichloropropene	50.0	ND	43.6	87	73-128	
Cyclohexane	50.0	1.7	57.4	111	68-137	
Dibromochloromethane	50.0	ND	36.9	74	63-134	
Dichlorodifluoromethane	50.0	ND	53.7	107	41-165	
Ethylbenzene	50.0	10	68.3	116	78-125	
Isopropylbenzene	50.0	1.0	61.7	121	72-129	
Methyl acetate	50.0	ND	36.5	73	26-182	
Methyl tert-butyl ether	100	ND	92.5	93	76-126	
Methylcyclohexane	50.0	ND	55.1	110	72-133	
Methylene Chloride	50.0	ND	50.7	101	79-124	
Styrene	50.0	ND	61.2	122	75-129	
Tetrachloroethene	50.0	ND	55.8	112	77-128	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: oe2047.d
 Lab ID: 680-90122-3 MS Client ID: 25LM20101 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	50.0	0.91 J	57.5	113	77-125	
trans-1,2-Dichloroethene	50.0	ND	53.0	106	78-130	
trans-1,3-Dichloropropene	50.0	ND	41.4	83	72-127	
Trichloroethene	50.0	1.7	54.5	106	80-120	
Trichlorofluoromethane	50.0	ND	71.1	142	66-144	
Vinyl chloride	50.0	0.66 J	63.9	128	58-141	
Xylenes, Total	150	1.0 J	182	121	80-124	

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.: 680-90122-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: oe2049.d

Lab ID: 680-90122-3 MSD

Client ID: 25LM20101 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	50.0	46.1	92	3	30	76-126	
1,1,2,2-Tetrachloroethane	50.0	52.7	105	7	30	71-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.3	105	6	30	72-139	
1,1,2-Trichloroethane	50.0	48.2	96	6	30	69-127	
1,1-Dichloroethane	50.0	50.7	99	5	30	69-132	
1,1-Dichloroethene	50.0	51.2	102	6	30	73-134	
1,2,4-Trichlorobenzene	50.0	42.0	84	5	30	67-134	
1,2-Dibromo-3-Chloropropane	50.0	41.9	84	1	50	57-126	
1,2-Dibromoethane	50.0	47.0	94	6	30	75-127	
1,2-Dichlorobenzene	50.0	62.9	126	6	30	77-124	F
1,2-Dichloroethane	50.0	52.0	103	6	30	75-120	
1,2-Dichloropropane	50.0	48.5	97	7	30	71-126	
1,3-Dichlorobenzene	50.0	55.5	111	6	30	79-123	
1,4-Dichlorobenzene	50.0	64.4	129	5	30	76-124	F
2-Butanone	100	87.5	84	5	30	55-142	
2-Hexanone	100	96.5	95	6	30	52-149	
4-Methyl-2-pentanone	100	91.9	92	8	30	51-143	
Acetone	100	97.3	86	3	50	39-162	
Benzene	50.0	69.2	101	4	30	74-123	
Bromodichloromethane	50.0	43.2	86	4	30	72-129	
Bromoform	50.0	30.0	60	3	30	60-134	
Bromomethane	50.0	68.9	138	10	50	10-171	
Carbon disulfide	50.0	50.1	100	5	30	63-142	
Carbon tetrachloride	50.0	35.2	70	3	30	70-131	
Chlorobenzene	50.0	52.3	105	5	30	79-120	
Chloroethane	50.0	78.5	157	6	40	47-148	F
Chloroform	50.0	48.8	98	5	30	76-128	
Chloromethane	50.0	58.0	116	6	30	47-151	
cis-1,2-Dichloroethene	50.0	51.2	97	6	30	78-127	
cis-1,3-Dichloropropene	50.0	41.3	83	5	30	73-128	
Cyclohexane	50.0	53.6	104	7	30	68-137	
Dibromochloromethane	50.0	36.5	73	1	50	63-134	
Dichlorodifluoromethane	50.0	50.3	101	6	50	41-165	
Ethylbenzene	50.0	65.8	111	4	30	78-125	
Isopropylbenzene	50.0	58.3	115	6	30	72-129	
Methyl acetate	50.0	35.5	71	3	30	26-182	
Methyl tert-butyl ether	100	87.7	88	5	30	76-126	
Methylcyclohexane	50.0	51.7	103	6	30	72-133	
Methylene Chloride	50.0	47.9	96	6	30	79-124	
Styrene	50.0	57.2	114	7	30	75-129	
Tetrachloroethene	50.0	52.3	105	7	30	77-128	

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.: 680-90122-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: oe2049.d
 Lab ID: 680-90122-3 MSD Client ID: 25LM20101 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	50.0	54.7	108	5	30	77-125	
trans-1,2-Dichloroethene	50.0	49.9	100	6	30	78-130	
trans-1,3-Dichloropropene	50.0	40.1	80	3	50	72-127	
Trichloroethene	50.0	51.6	100	5	30	80-120	
Trichlorofluoromethane	50.0	65.7	131	8	30	66-144	
Vinyl chloride	50.0	59.9	120	7	30	58-141	
Xylenes, Total	150	171	113	6	30	80-124	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Lab File ID: oe2017q.d Lab Sample ID: MB 680-277297/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: MSO2 Date Analyzed: 05/20/2013 12:36
 GC Column: DB-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 680-277297/4	oe2009q.d	05/20/2013 10:38
	LCSD 680-277297/5	oe2011q.d	05/20/2013 11:07
25LM00022	680-90122-5	oe2021.d	05/20/2013 13:35
25LM20098	680-90122-1	oe2039.d	05/20/2013 18:02
25LM20099	680-90122-2	oe2041.d	05/20/2013 18:32
25LM20101	680-90122-3	oe2043.d	05/20/2013 19:01
25LM20102	680-90122-4	oe2045.d	05/20/2013 19:31
25LM20101 MS	680-90122-3 MS	oe2047.d	05/20/2013 20:00
25LM20101 MSD	680-90122-3 MSD	oe2049.d	05/20/2013 20:30

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

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Lab File ID: oe1601t.d BFB Injection Date: 05/16/2013
 Instrument ID: MSO2 BFB Injection Time: 15:20
 Analysis Batch No.: 277091

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	21.8	
75	30.0 - 66.0% of mass 95	52.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	7.4	
173	Less than 2.0% of mass 174	0.6	(0.6) 1
174	50.0 - 120.0% of mass 95	103.3	
175	4.0 - 9.0 % of mass 174	7.2	(7.0) 1
176	93.0 - 101.0% of mass 174	99.9	(96.7) 1
177	5.0 - 9.0% of mass 176	6.6	(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 680-277091/2	oe1605q.d	05/16/2013	16:58
	IC 680-277091/3	oe1607q.d	05/16/2013	17:28
	IC 680-277091/4	oe1609q.d	05/16/2013	17:58
	IC 680-277091/5	oe1611q.d	05/16/2013	18:28
	IC 680-277091/6	oe1613q.d	05/16/2013	18:57
	ICIS 680-277091/7	oe1615q.d	05/16/2013	19:27
	IC 680-277091/8	oe1617q.d	05/16/2013	19:56
	IC 680-277091/9	oe1619q.d	05/16/2013	20:26

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

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Lab File ID: oe2001t.d BFB Injection Date: 05/20/2013
 Instrument ID: MSO2 BFB Injection Time: 08:36
 Analysis Batch No.: 277297

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	22.2	
75	30.0 - 66.0% of mass 95	51.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	7.0	
173	Less than 2.0% of mass 174	0.5	(0.5) 1
174	50.0 - 120.0% of mass 95	108.3	
175	4.0 - 9.0 % of mass 174	7.6	(7.1) 1
176	93.0 - 101.0% of mass 174	106.4	(98.2) 1
177	5.0 - 9.0% of mass 176	7.0	(6.5) 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 680-277297/2	oe2007q.d	05/20/2013	10:08
	LCS 680-277297/4	oe2009q.d	05/20/2013	10:38
	LCSD 680-277297/5	oe2011q.d	05/20/2013	11:07
	MB 680-277297/7	oe2017q.d	05/20/2013	12:36
25LM00022	680-90122-5	oe2021.d	05/20/2013	13:35
25LM20098	680-90122-1	oe2039.d	05/20/2013	18:02
25LM20099	680-90122-2	oe2041.d	05/20/2013	18:32
25LM20101	680-90122-3	oe2043.d	05/20/2013	19:01
25LM20102	680-90122-4	oe2045.d	05/20/2013	19:31
25LM20101 MS	680-90122-3 MS	oe2047.d	05/20/2013	20:00
25LM20101 MSD	680-90122-3 MSD	oe2049.d	05/20/2013	20:30

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

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Sample No.: CCVIS 680-277297/2 Date Analyzed: 05/20/2013 10:08
 Instrument ID: MSO2 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): oe2007q.d Heated Purge: (Y/N) N
 Calibration ID: 17921

	12DCE		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	185309	3.95	488745	4.23	236507	6.44	
UPPER LIMIT	370618	4.45	977490	4.73	473014	6.94	
LOWER LIMIT	92655	3.45	244373	3.73	118254	5.94	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 680-277297/4		184963	3.95	486188	4.23	234644	6.44
LCSD 680-277297/5		188331	3.95	496914	4.23	240714	6.44
MB 680-277297/7		217765	3.95	617051	4.23	290392	6.44
680-90122-5	25LM00022	169112	3.95	468817	4.24	221397	6.44
680-90122-1	25LM20098	162174	3.95	452015	4.23	215503	6.44
680-90122-2	25LM20099	157415	3.96	428812	4.24	204962	6.44
680-90122-3	25LM20101	163115	3.95	444899	4.23	210570	6.44
680-90122-4	25LM20102	163729	3.95	436630	4.24	210791	6.44
680-90122-3 MS	25LM20101 MS	179262	3.95	476833	4.23	231574	6.44
680-90122-3 MSD	25LM20101 MSD	181121	3.95	483501	4.23	234110	6.44

12DCE = 1,2-Dichloroethane-d4 ISTD
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

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.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20098 Lab Sample ID: 680-90122-1
 Matrix: Water Lab File ID: oe2039.d
 Analysis Method: 8260B Date Collected: 05/08/2013 10:22
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 18:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.13
75-34-3	1,1-Dichloroethane	ND		1.0	0.25
75-35-4	1,1-Dichloroethene	ND		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.44
106-93-4	1,2-Dibromoethane	ND		1.0	0.25
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.21
107-06-2	1,2-Dichloroethane	ND		1.0	0.10
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.28
78-93-3	2-Butanone	ND		10	1.0
591-78-6	2-Hexanone	ND		10	1.0
108-10-1	4-Methyl-2-pentanone	ND		10	1.0
67-64-1	Acetone	ND		25	5.0
71-43-2	Benzene	ND		1.0	0.25
75-27-4	Bromodichloromethane	ND		1.0	0.25
75-25-2	Bromoform	ND		1.0	0.50
74-83-9	Bromomethane	ND		5.0	2.0
75-15-0	Carbon disulfide	ND		2.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.25
75-00-3	Chloroethane	ND		5.0	2.0
67-66-3	Chloroform	ND		1.0	0.14
74-87-3	Chloromethane	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.11
110-82-7	Cyclohexane	ND		1.0	0.25
124-48-1	Dibromochloromethane	ND		1.0	0.10
75-71-8	Dichlorodifluoromethane	ND		1.0	0.25
100-41-4	Ethylbenzene	ND		1.0	0.11
98-82-8	Isopropylbenzene	ND		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20098 Lab Sample ID: 680-90122-1
 Matrix: Water Lab File ID: oe2039.d
 Analysis Method: 8260B Date Collected: 05/08/2013 10:22
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 18:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		10	0.20
108-87-2	Methylcyclohexane	ND		1.0	0.10
75-09-2	Methylene Chloride	ND		5.0	1.0
100-42-5	Styrene	ND		1.0	0.11
127-18-4	Tetrachloroethene	ND		1.0	0.15
108-88-3	Toluene	ND		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.13
75-69-4	Trichlorofluoromethane	ND		1.0	0.25
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	87		70-130
1868-53-7	Dibromofluoromethane	97		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/1o052013.b/oe2039.d
 Lab Smp Id: 680-90122-D-1 Client Smp ID: 25LM20098
 Inj Date : 20-MAY-2013 18:02
 Operator : JD Inst ID: MSO5973C2.i
 Smp Info : 680-90122-D-1=[10052013]
 Misc Info : 680-90122-D-1
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSO5973C2.i/1o052013.b/O-18260BC2-m.m
 Meth Date : 20-May-2013 10:28 ghenassi Quant Type: ISTD
 Cal Date : 17-MAY-2013 12:53 Cal File: oe1717q.d
 Als bottle: 69
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 40 DIBROMOFLUOROMETHANE	113	3.690	3.686	(0.934)	128741	48.5688	49
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.952	3.947	(1.000)	162174	50.0000	
* 48 1,4-DIFLUOROBENZENE	114	4.231	4.233	(1.000)	452015	50.0000	
\$ 60 TOLUENE-d8	98	5.302	5.298	(1.253)	486090	48.0346	48
* 71 CHLOROBENZENE-d5	82	6.440	6.436	(1.000)	215503	50.0000	
\$ 81 4-BROMOFLUOROBENZENE	95	7.389	7.391	(1.147)	173998	43.6323	44

Data File: oe2039.d

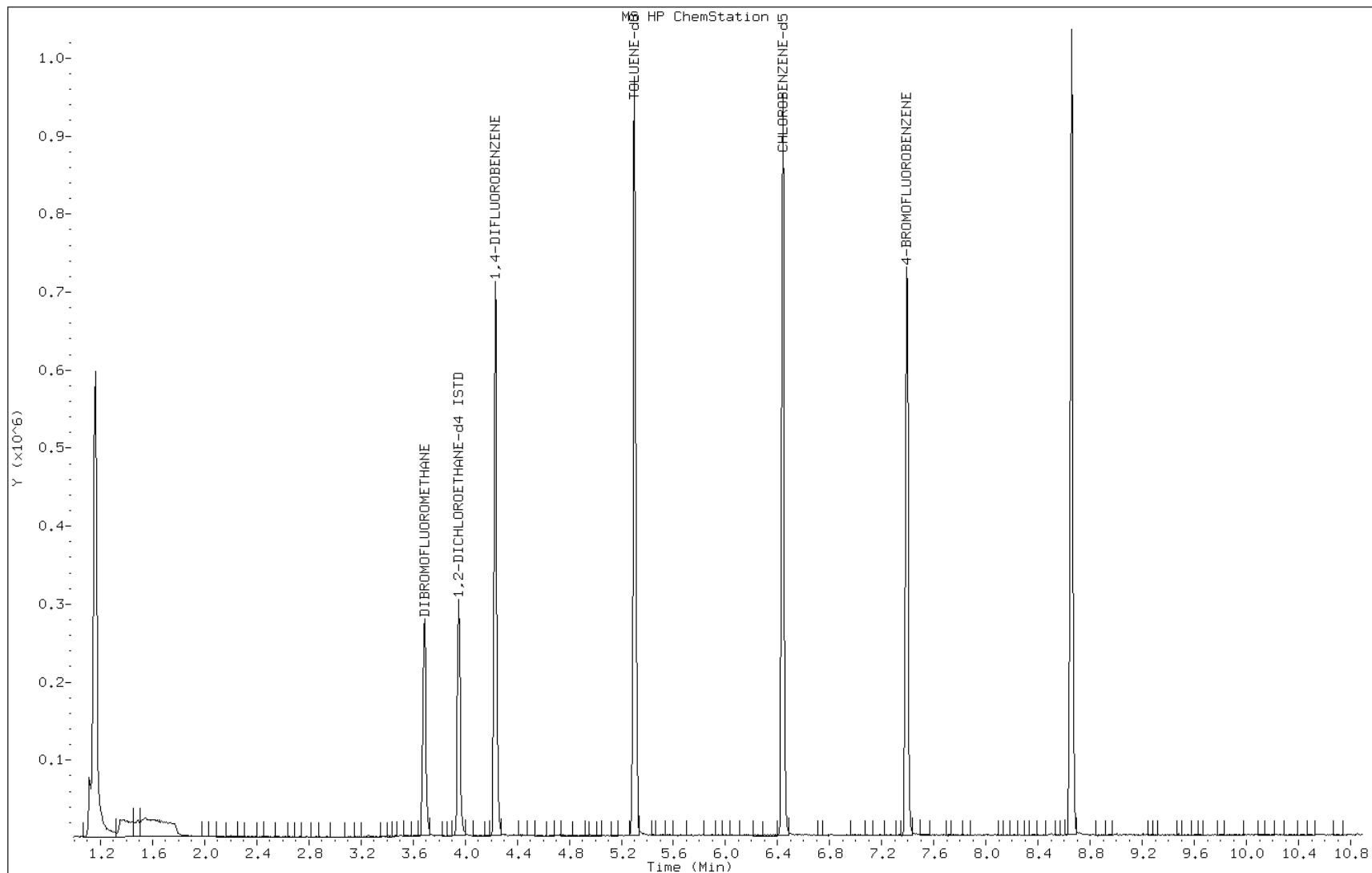
Date: 20-MAY-2013 18:02

Client ID: 25LM20098

Instrument: MS05973C2.i

Sample Info: 680-90122-D-1=[10052013]

Operator: JD



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20099 Lab Sample ID: 680-90122-2
 Matrix: Water Lab File ID: oe2041.d
 Analysis Method: 8260B Date Collected: 05/08/2013 12:50
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 18:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.13
75-34-3	1,1-Dichloroethane	ND		1.0	0.25
75-35-4	1,1-Dichloroethene	ND		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.44
106-93-4	1,2-Dibromoethane	ND		1.0	0.25
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.21
107-06-2	1,2-Dichloroethane	ND		1.0	0.10
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.28
78-93-3	2-Butanone	ND		10	1.0
591-78-6	2-Hexanone	ND		10	1.0
108-10-1	4-Methyl-2-pentanone	ND		10	1.0
67-64-1	Acetone	ND		25	5.0
71-43-2	Benzene	ND		1.0	0.25
75-27-4	Bromodichloromethane	ND		1.0	0.25
75-25-2	Bromoform	ND		1.0	0.50
74-83-9	Bromomethane	ND		5.0	2.0
75-15-0	Carbon disulfide	ND		2.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.25
75-00-3	Chloroethane	ND		5.0	2.0
67-66-3	Chloroform	ND		1.0	0.14
74-87-3	Chloromethane	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.11
110-82-7	Cyclohexane	ND		1.0	0.25
124-48-1	Dibromochloromethane	ND		1.0	0.10
75-71-8	Dichlorodifluoromethane	ND		1.0	0.25
100-41-4	Ethylbenzene	ND		1.0	0.11
98-82-8	Isopropylbenzene	ND		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20099 Lab Sample ID: 680-90122-2
 Matrix: Water Lab File ID: oe2041.d
 Analysis Method: 8260B Date Collected: 05/08/2013 12:50
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 18:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		10	0.20
108-87-2	Methylcyclohexane	ND		1.0	0.10
75-09-2	Methylene Chloride	ND		5.0	1.0
100-42-5	Styrene	ND		1.0	0.11
127-18-4	Tetrachloroethene	ND		1.0	0.15
108-88-3	Toluene	ND		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.13
75-69-4	Trichlorofluoromethane	ND		1.0	0.25
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	89		70-130
1868-53-7	Dibromofluoromethane	97		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/1o052013.b/oe2041.d
Lab Smp Id: 680-90122-D-2 Client Smp ID: 25LM20099
Inj Date : 20-MAY-2013 18:32
Operator : JD Inst ID: MSO5973C2.i
Smp Info : 680-90122-D-2=[10052013]
Misc Info : 680-90122-D-2
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSO5973C2.i/1o052013.b/O-18260BC2-m.m
Meth Date : 20-May-2013 10:28 ghenassi Quant Type: ISTD
Cal Date : 17-MAY-2013 12:53 Cal File: oe1717q.d
Als bottle: 70
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 40 DIBROMOFLUOROMETHANE	113		3.688	3.686	(0.932)	124324	48.3204	48
* 45 1,2-DICHLOROETHANE-d4 ISTD	65		3.955	3.947	(1.000)	157415	50.0000	
* 48 1,4-DIFLUOROENZENE	114		4.235	4.233	(1.000)	428812	50.0000	
\$ 60 TOLUENE-d8	98		5.300	5.298	(1.251)	460692	47.9882	48
* 71 CHLOROENZENE-d5	82		6.437	6.436	(1.000)	204962	50.0000	
\$ 81 4-BROMOFLUOROENZENE	95		7.393	7.391	(1.148)	168534	44.4356	44

Data File: oe2041.d

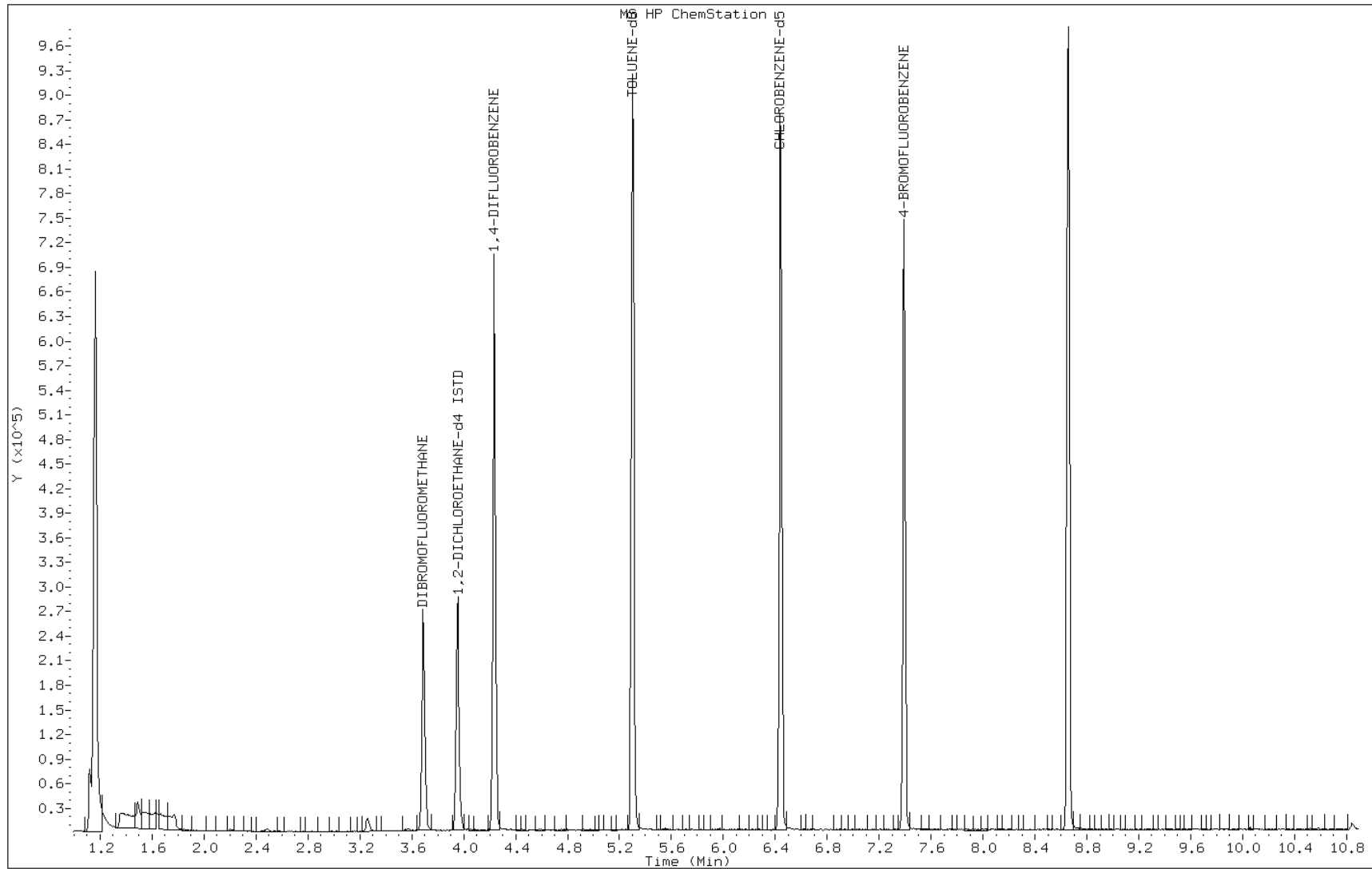
Date: 20-MAY-2013 18:32

Client ID: 25LM20099

Instrument: MS05973C2.i

Sample Info: 680-90122-D-2=[10052013]

Operator: JD



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20101 Lab Sample ID: 680-90122-3
 Matrix: Water Lab File ID: oe2043.d
 Analysis Method: 8260B Date Collected: 05/08/2013 15:30
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 19:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.13
75-34-3	1,1-Dichloroethane	1.2		1.0	0.25
75-35-4	1,1-Dichloroethene	ND		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.44
106-93-4	1,2-Dibromoethane	ND		1.0	0.25
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.21
107-06-2	1,2-Dichloroethane	0.32	J	1.0	0.10
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.28
78-93-3	2-Butanone	3.8	J	10	1.0
591-78-6	2-Hexanone	1.9	J	10	1.0
108-10-1	4-Methyl-2-pentanone	ND		10	1.0
67-64-1	Acetone	11	J	25	5.0
71-43-2	Benzene	19		1.0	0.25
75-27-4	Bromodichloromethane	ND		1.0	0.25
75-25-2	Bromoform	ND		1.0	0.50
74-83-9	Bromomethane	ND		5.0	2.0
75-15-0	Carbon disulfide	ND		2.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.25
75-00-3	Chloroethane	ND		5.0	2.0
67-66-3	Chloroform	ND		1.0	0.14
74-87-3	Chloromethane	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	2.8		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.11
110-82-7	Cyclohexane	1.7		1.0	0.25
124-48-1	Dibromochloromethane	ND		1.0	0.10
75-71-8	Dichlorodifluoromethane	ND		1.0	0.25
100-41-4	Ethylbenzene	10		1.0	0.11
98-82-8	Isopropylbenzene	1.0		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20101 Lab Sample ID: 680-90122-3
 Matrix: Water Lab File ID: oe2043.d
 Analysis Method: 8260B Date Collected: 05/08/2013 15:30
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 19:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		10	0.20
108-87-2	Methylcyclohexane	ND		1.0	0.10
75-09-2	Methylene Chloride	ND		5.0	1.0
100-42-5	Styrene	ND		1.0	0.11
127-18-4	Tetrachloroethene	ND		1.0	0.15
108-88-3	Toluene	0.91	J	1.0	0.33
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21
79-01-6	Trichloroethene	1.7		1.0	0.13
75-69-4	Trichlorofluoromethane	ND		1.0	0.25
75-01-4	Vinyl chloride	0.66	J	1.0	0.18
1330-20-7	Xylenes, Total	1.0	J	2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	88		70-130
1868-53-7	Dibromofluoromethane	94		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/1o052013.b/oe2043.d
 Lab Smp Id: 680-90122-C-3 Client Smp ID: 25LM20101
 Inj Date : 20-MAY-2013 19:01
 Operator : JD Inst ID: MSO5973C2.i
 Smp Info : 680-90122-C-3=[10052013]
 Misc Info : 680-90122-C-3
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSO5973C2.i/1o052013.b/O-18260BC2-m.m
 Meth Date : 20-May-2013 10:28 ghenassi Quant Type: ISTD
 Cal Date : 17-MAY-2013 12:53 Cal File: oe1717q.d
 Als bottle: 71
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
3 VINYL CHLORIDE	62	1.409	1.405	(0.357)	3070	0.66070	0.66(aQH)
14 ACETONE	58	2.200	2.201	(0.557)	3297	11.3853	11(a)
27 1 1-DICHLOROETHANE	63	2.949	2.944	(0.746)	5440	1.19662	1.2
32 2-BUTANONE	43	3.374	3.369	(0.854)	5965	3.80877	3.8(a)
31 cis-1 2-DICHLOROETHENE	96	3.356	3.351	(0.849)	8167	2.84111	2.8
\$ 40 DIBROMOFLUOROMETHANE	113	3.691	3.686	(0.934)	125476	47.0640	47
38 CYCLOHEXANE	56	3.673	3.668	(0.868)	7169	1.74495	1.7
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.952	3.947	(1.000)	163115	50.0000	
44 BENZENE	78	3.946	3.941	(0.932)	197747	18.8954	19
46 1 2-DICHLOROETHANE	62	4.007	4.002	(0.947)	1197	0.32225	0.32(a)
* 48 1,4-DIFLUOROBENZENE	114	4.232	4.233	(1.000)	444899	50.0000	
49 TRICHLOROETHENE	130	4.403	4.398	(1.040)	5043	1.68263	1.7
\$ 60 TOLUENE-d8	98	5.303	5.298	(1.253)	474869	47.6764	48

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	==	=====	=====	=====	=====	=====	
61 TOLUENE		92	5.352	5.353	(1.264)	6025	0.90626	0.91(a)
67 2-HEXANONE		43	5.893	5.882	(0.915)	4819	1.92215	1.9(a)
* 71 CHLOROBENZENE-d5		82	6.441	6.436	(1.000)	210570	50.0000	
73 ETHYL BENZENE		91	6.520	6.521	(1.012)	137414	10.2350	10
75 m,p-XYLENE		106	6.617	6.618	(1.027)	5653	1.04569	1.0(aH)
79 ISOPROPYLBENZENE		105	7.225	7.220	(1.122)	11978	1.00223	1.0
\$ 81 4-BROMOFLUOROBENZENE		95	7.390	7.391	(1.147)	172086	44.1638	44
84 n-PROPYLBENZENE		120	7.560	7.561	(1.174)	3032	0.75462	0.75(a)
93 1 2 4-TRIMETHYLBENZENE		105	8.022	8.023	(1.246)	20031	1.69974	1.7
M 105 1,2-DICHLOROETHENE (total)		96				8167	2.84111	2.8
M 107 XYLENE (total)		106				5653	1.04569	1.0(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- H - Operator selected an alternate compound hit.

Data File: oe2043.d

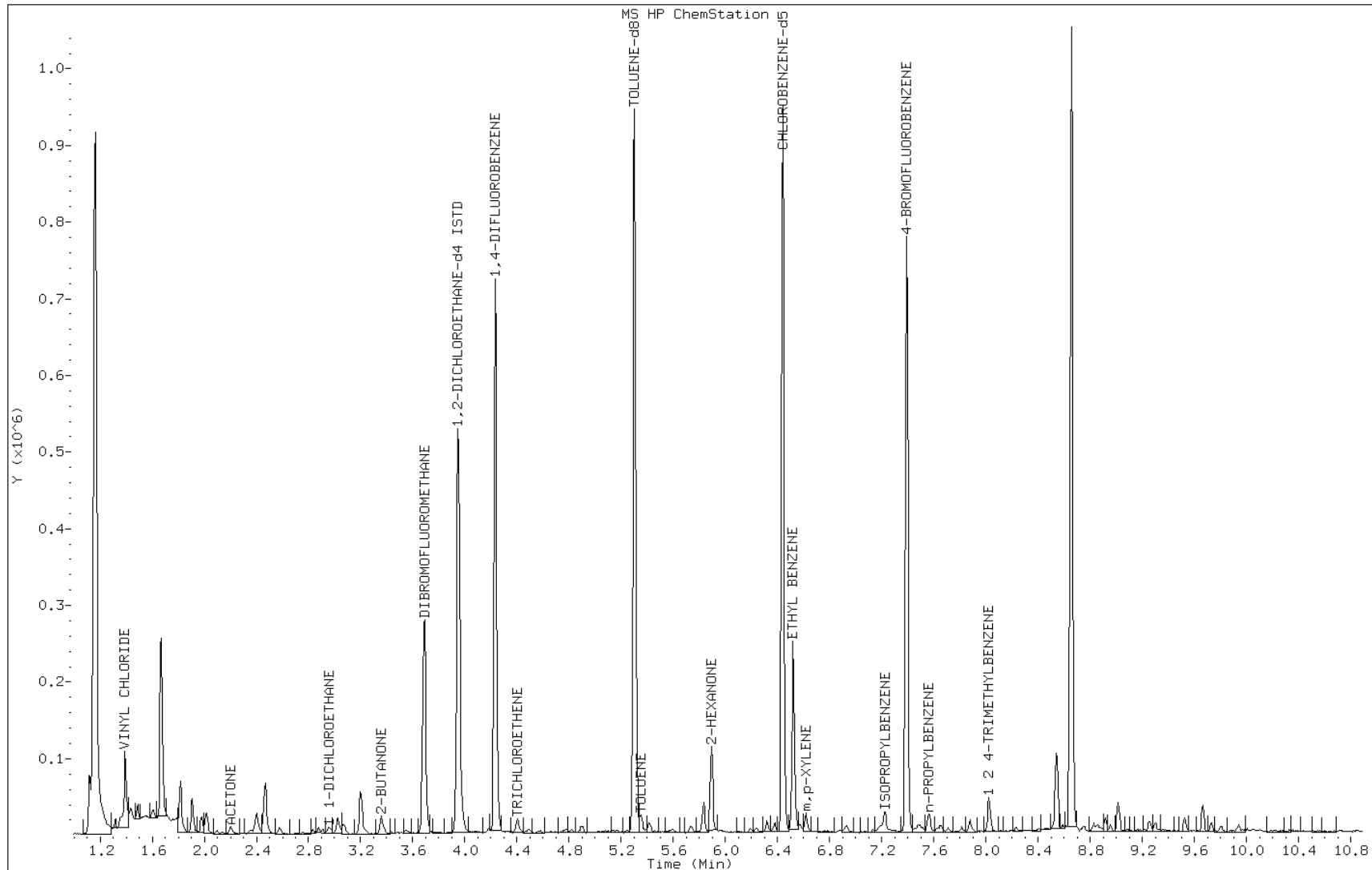
Date: 20-MAY-2013 19:01

Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD



Data File: oe2043.d

Date: 20-MAY-2013 19:01

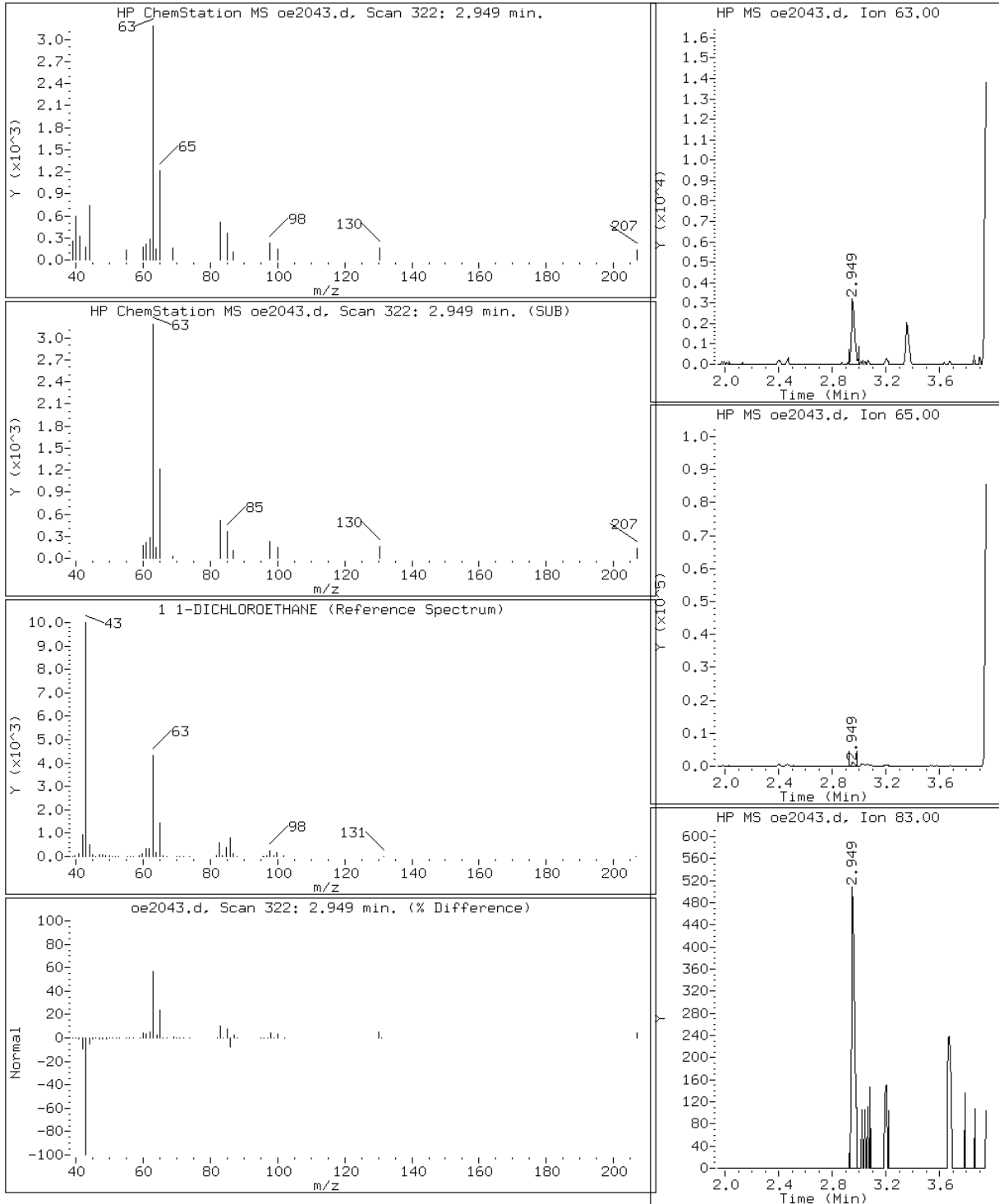
Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD

27 1 1-DICHLOROETHANE



Data File: oe2043.d

Date: 20-MAY-2013 19:01

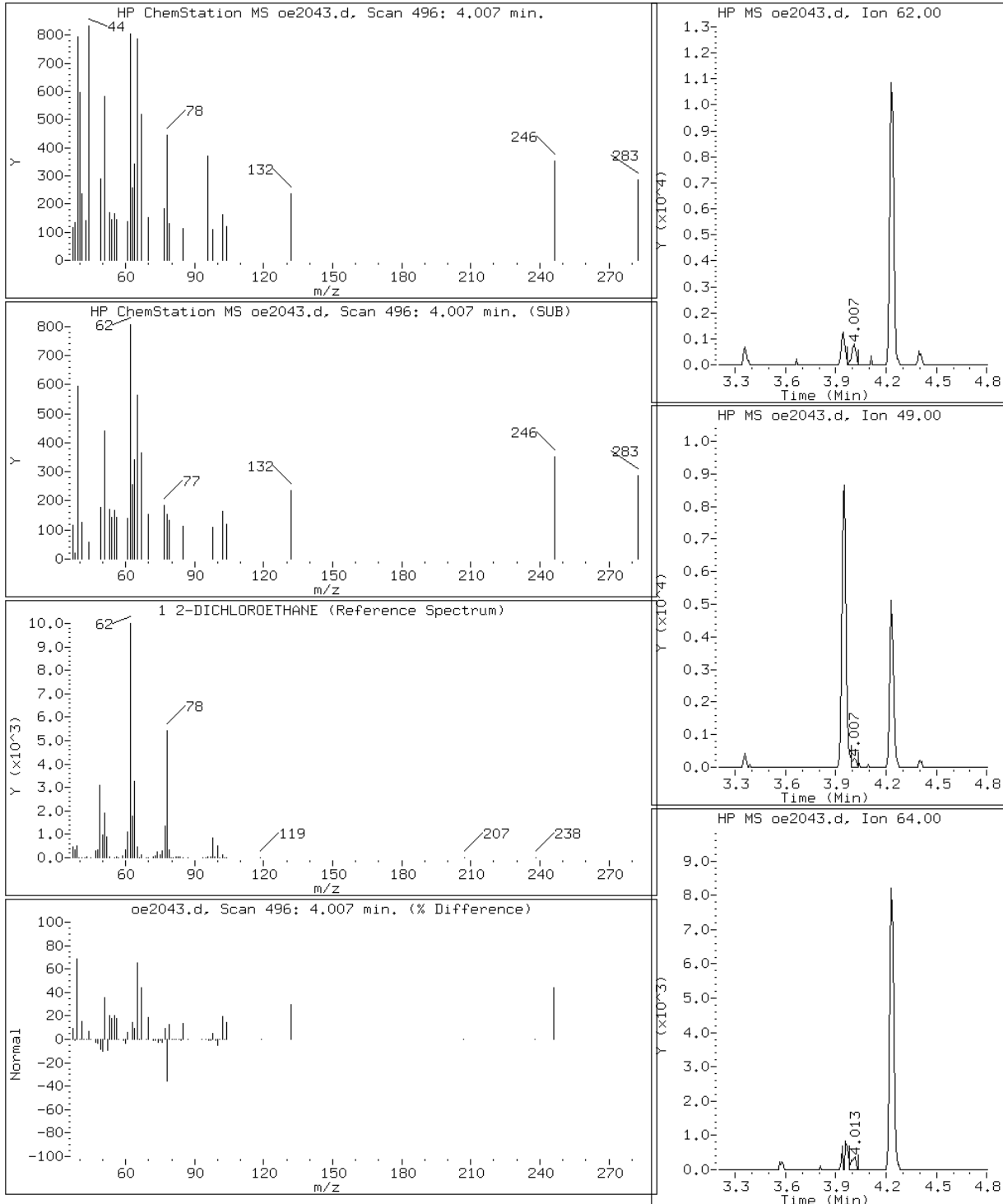
Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD

46 1 2-DICHLOROETHANE



Data File: oe2043.d

Date: 20-MAY-2013 19:01

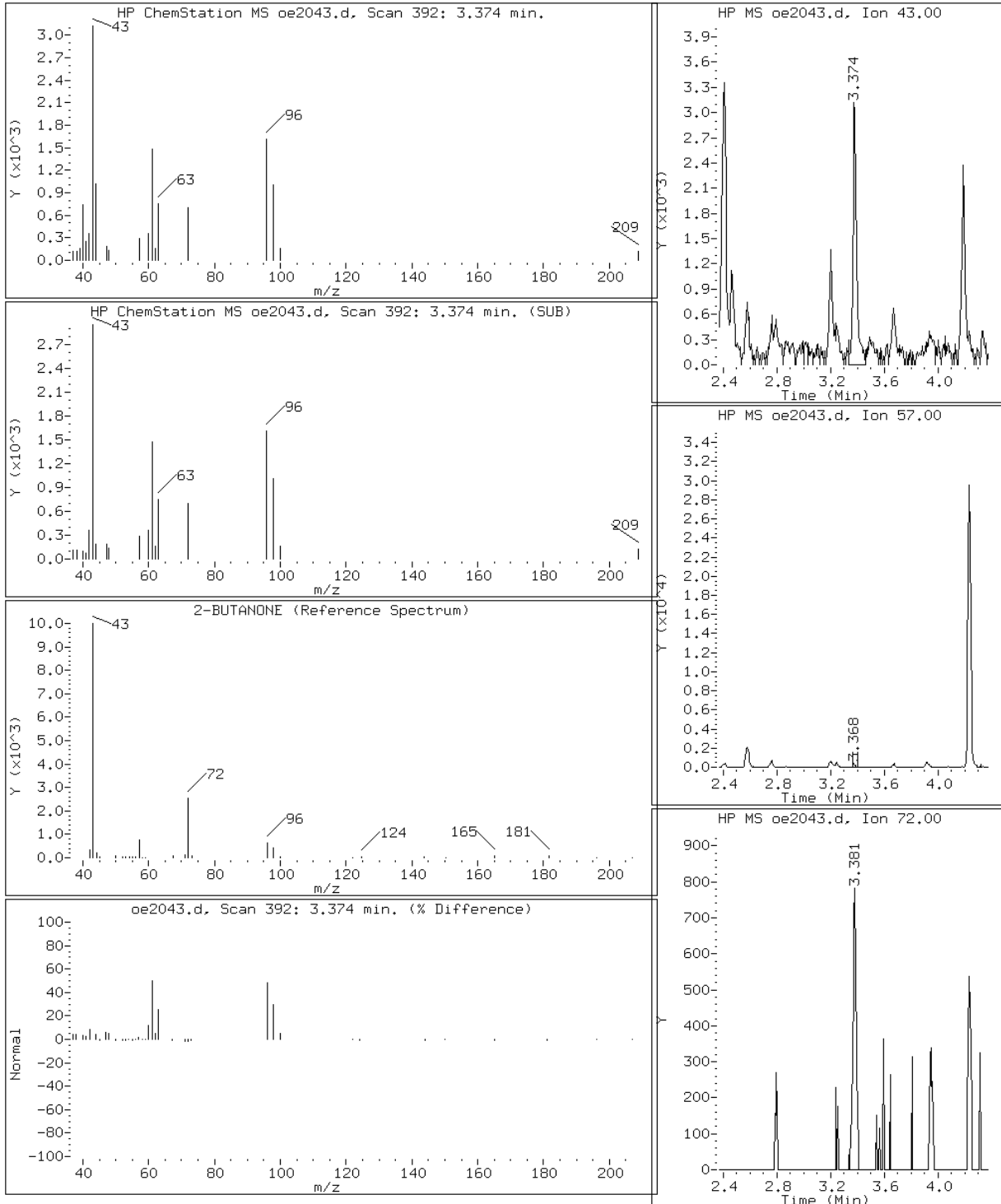
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Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD

32 2-BUTANONE



Data File: oe2043.d

Date: 20-MAY-2013 19:01

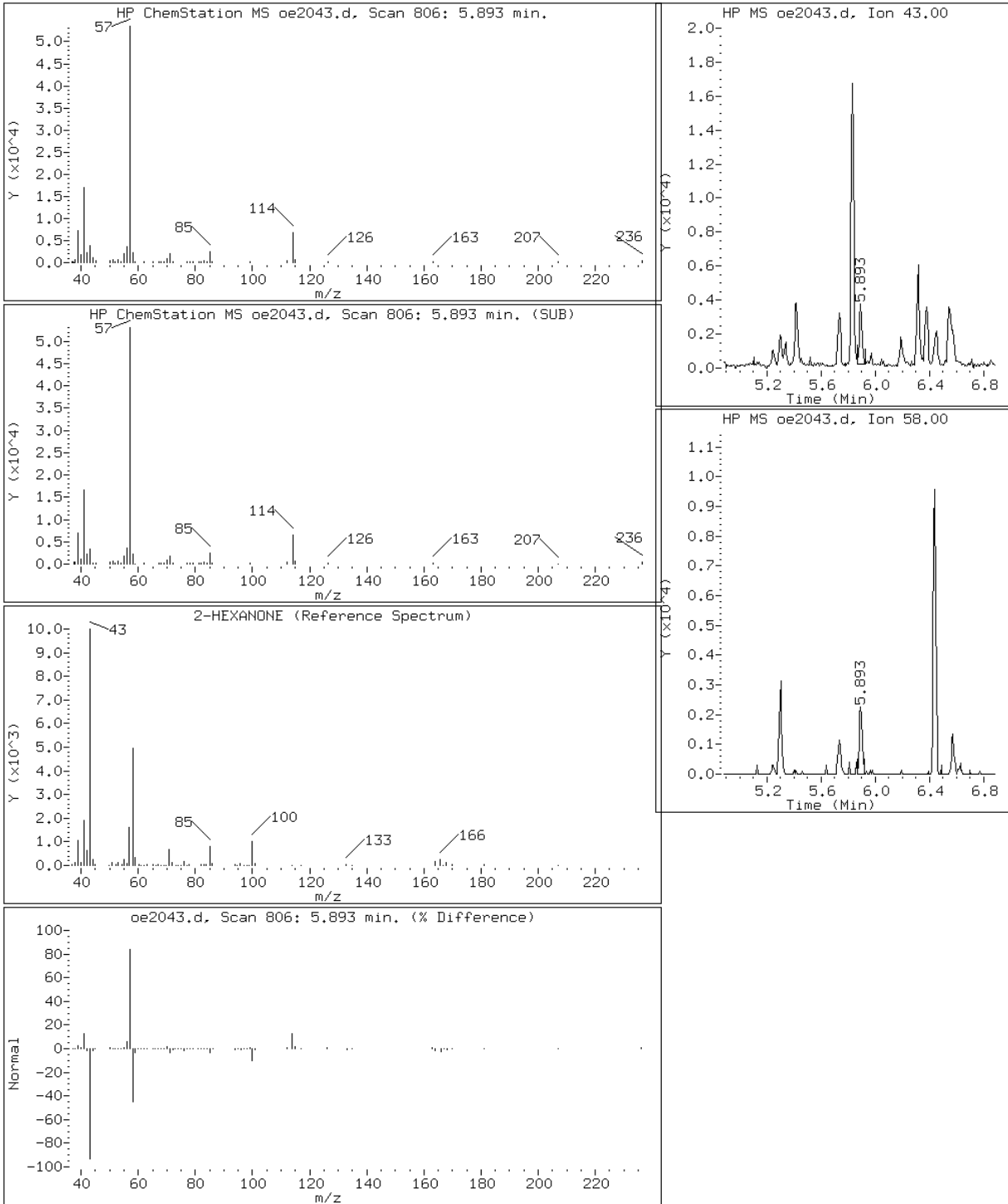
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Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD

67 2-HEXANONE



Data File: oe2043.d

Date: 20-MAY-2013 19:01

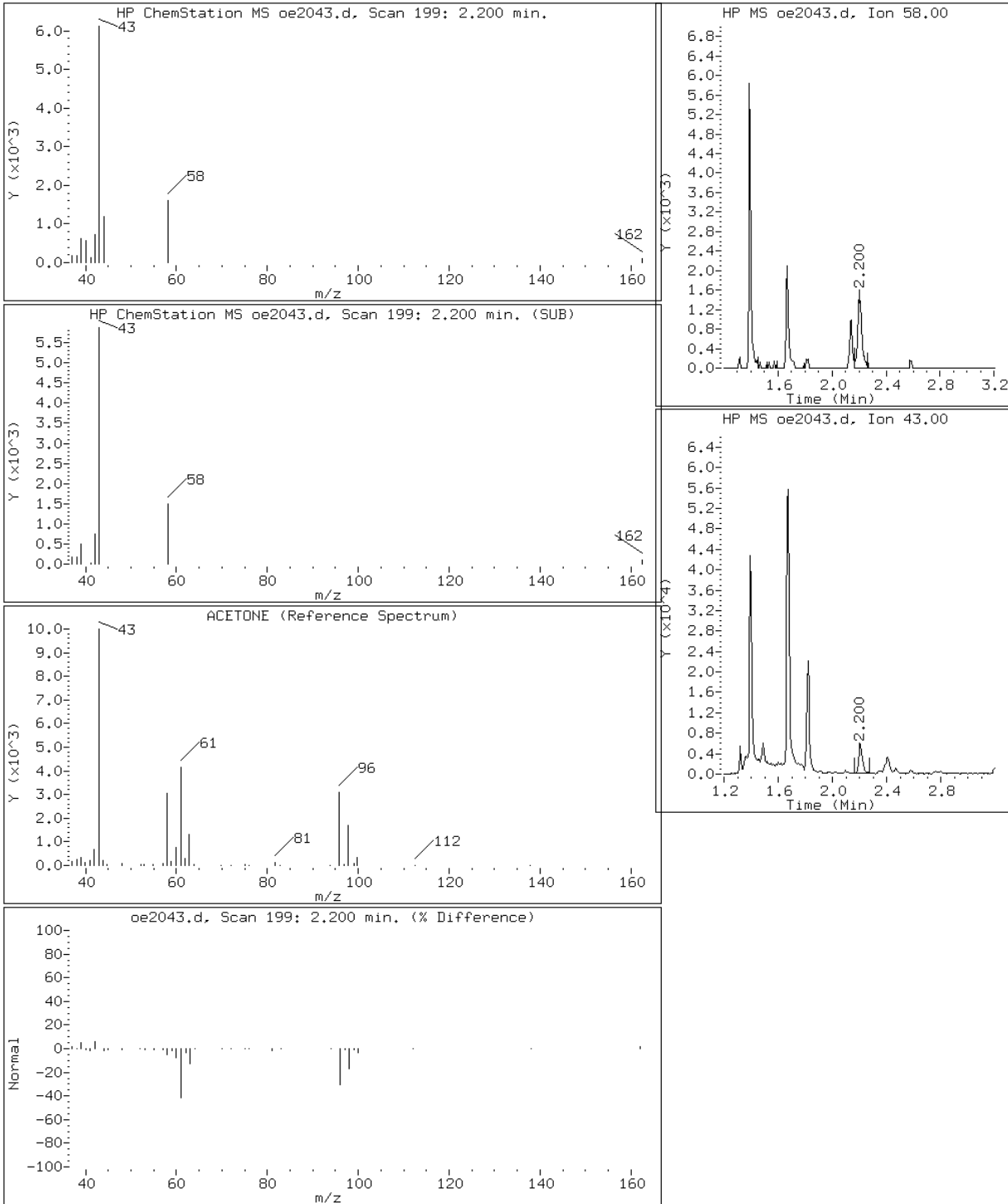
Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD

14 ACETONE



Data File: oe2043.d

Date: 20-MAY-2013 19:01

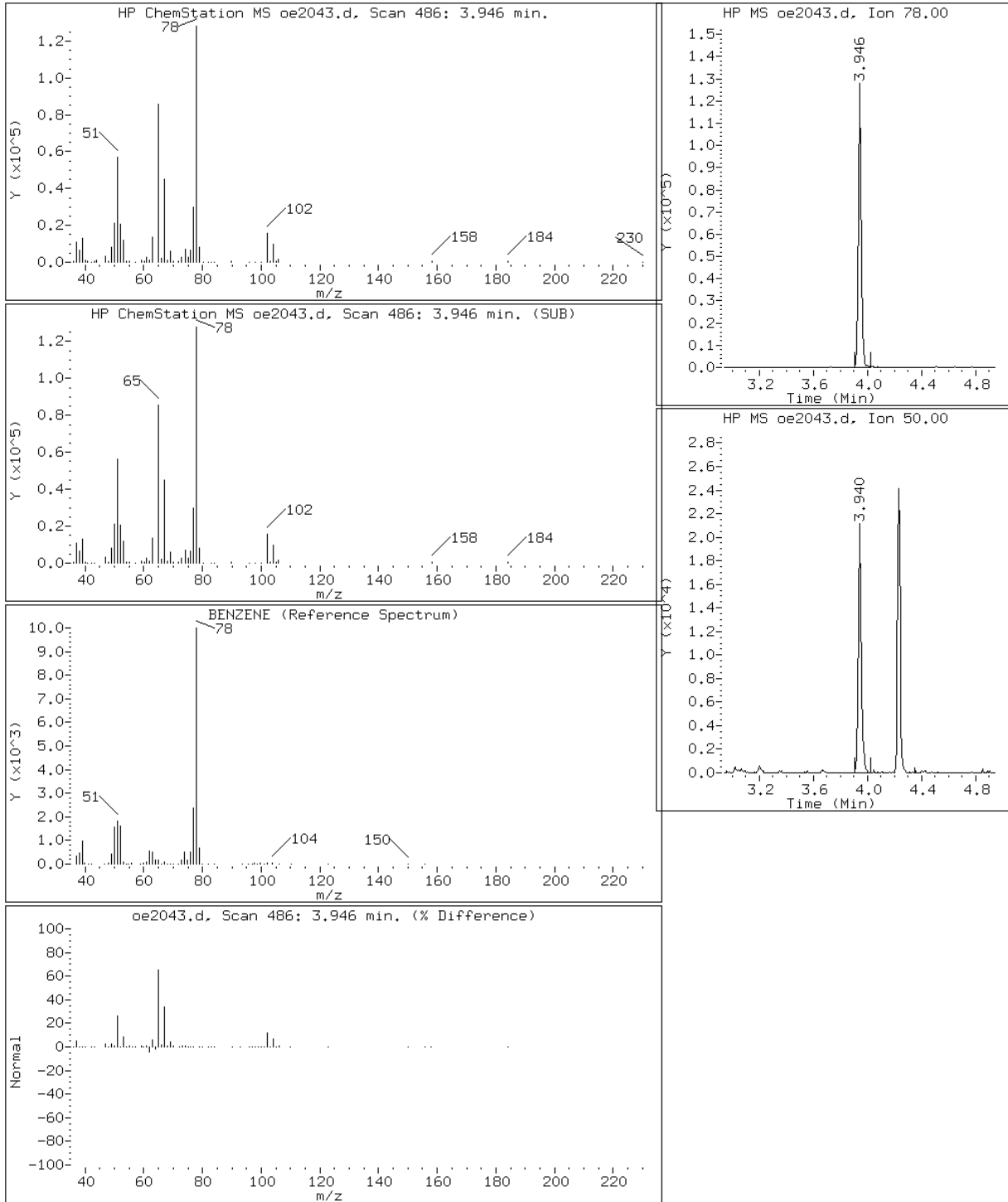
Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD

44 BENZENE



Data File: oe2043.d

Date: 20-MAY-2013 19:01

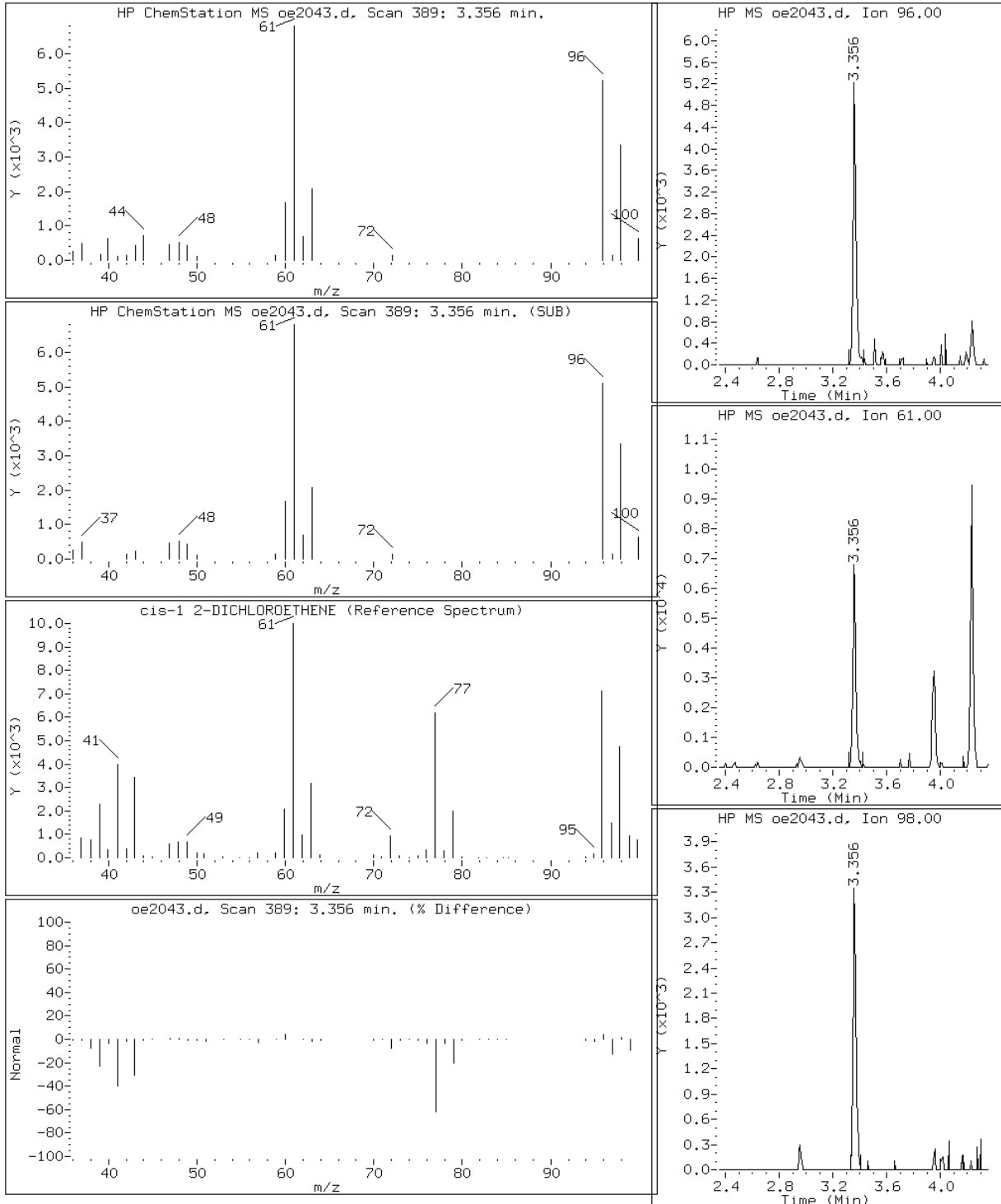
Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD

31 cis-1 2-DICHLOROETHENE



Data File: oe2043.d

Date: 20-MAY-2013 19:01

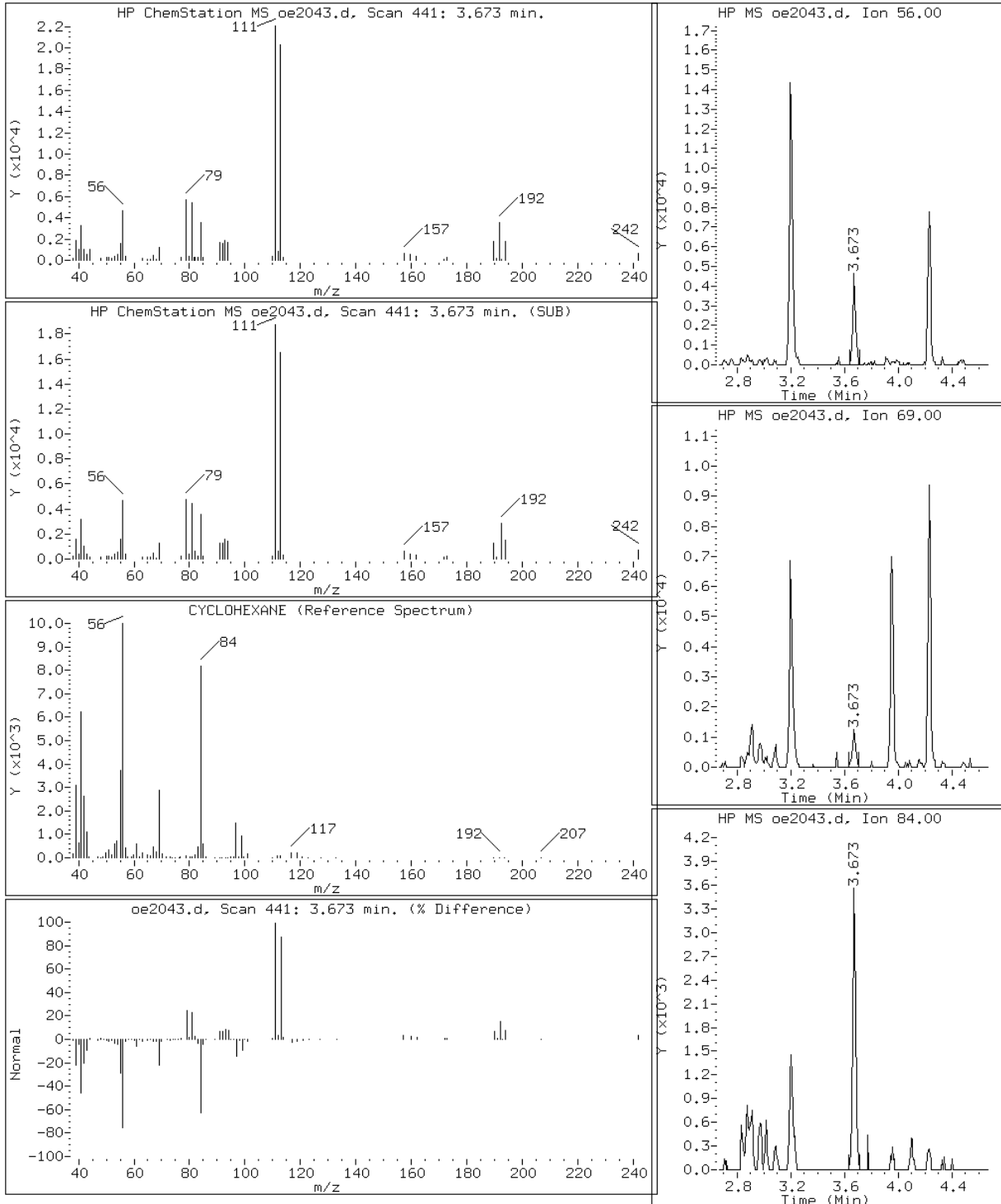
Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD

38 CYCLOHEXANE



Data File: oe2043.d

Date: 20-MAY-2013 19:01

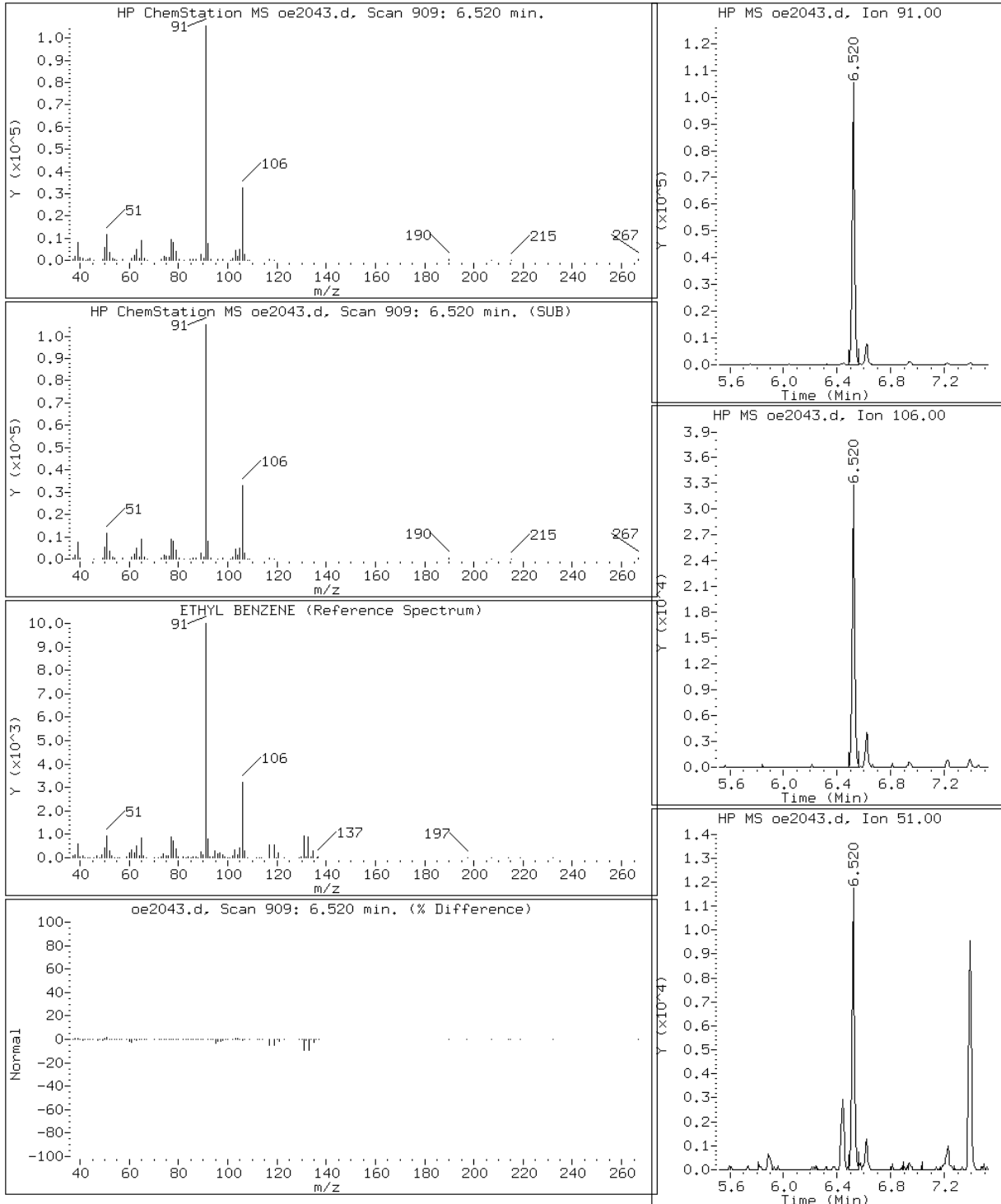
Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD

73 ETHYL BENZENE



Data File: oe2043.d

Date: 20-MAY-2013 19:01

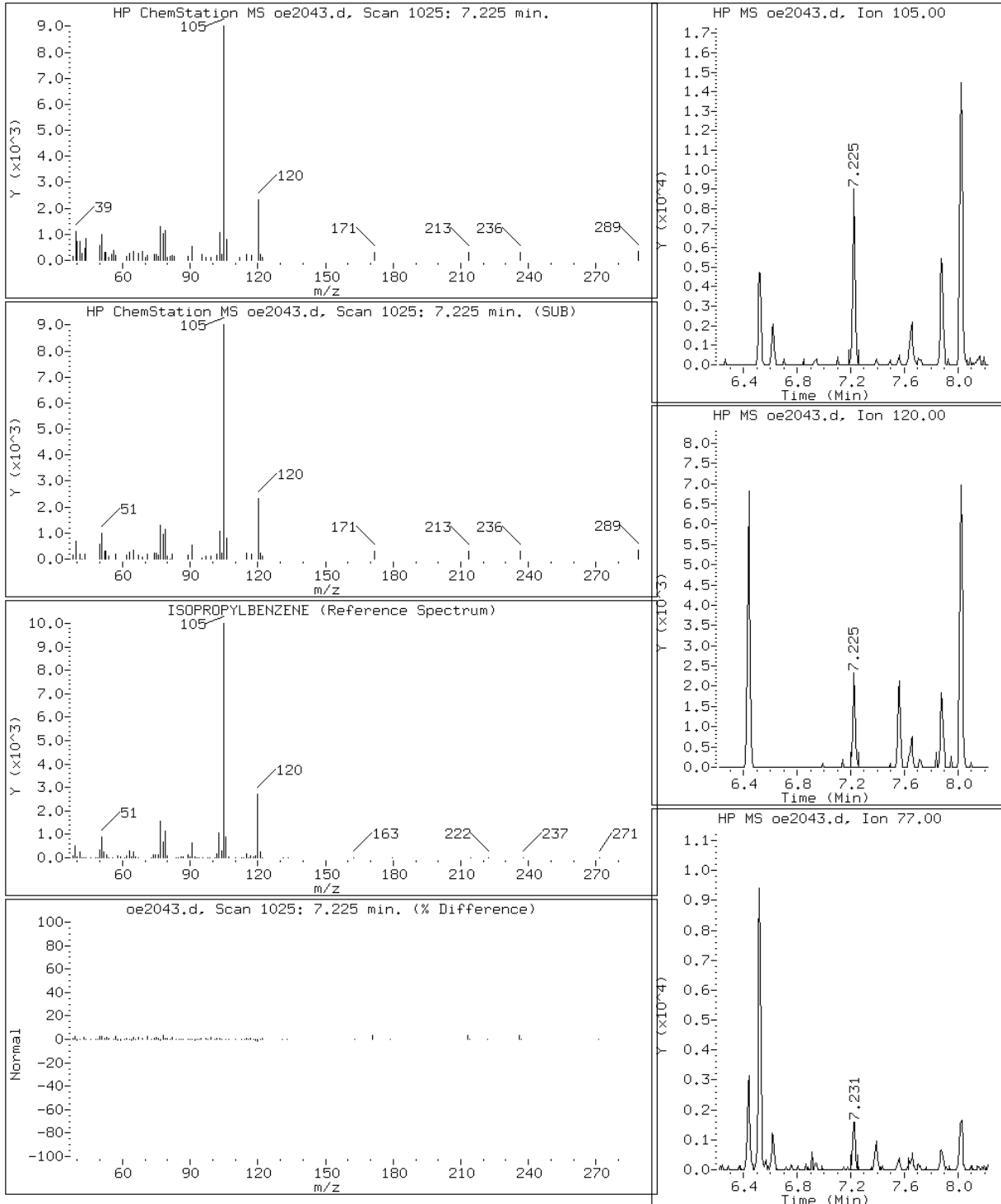
Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD

79 ISOPROPYLBENZENE



Data File: oe2043.d

Date: 20-MAY-2013 19:01

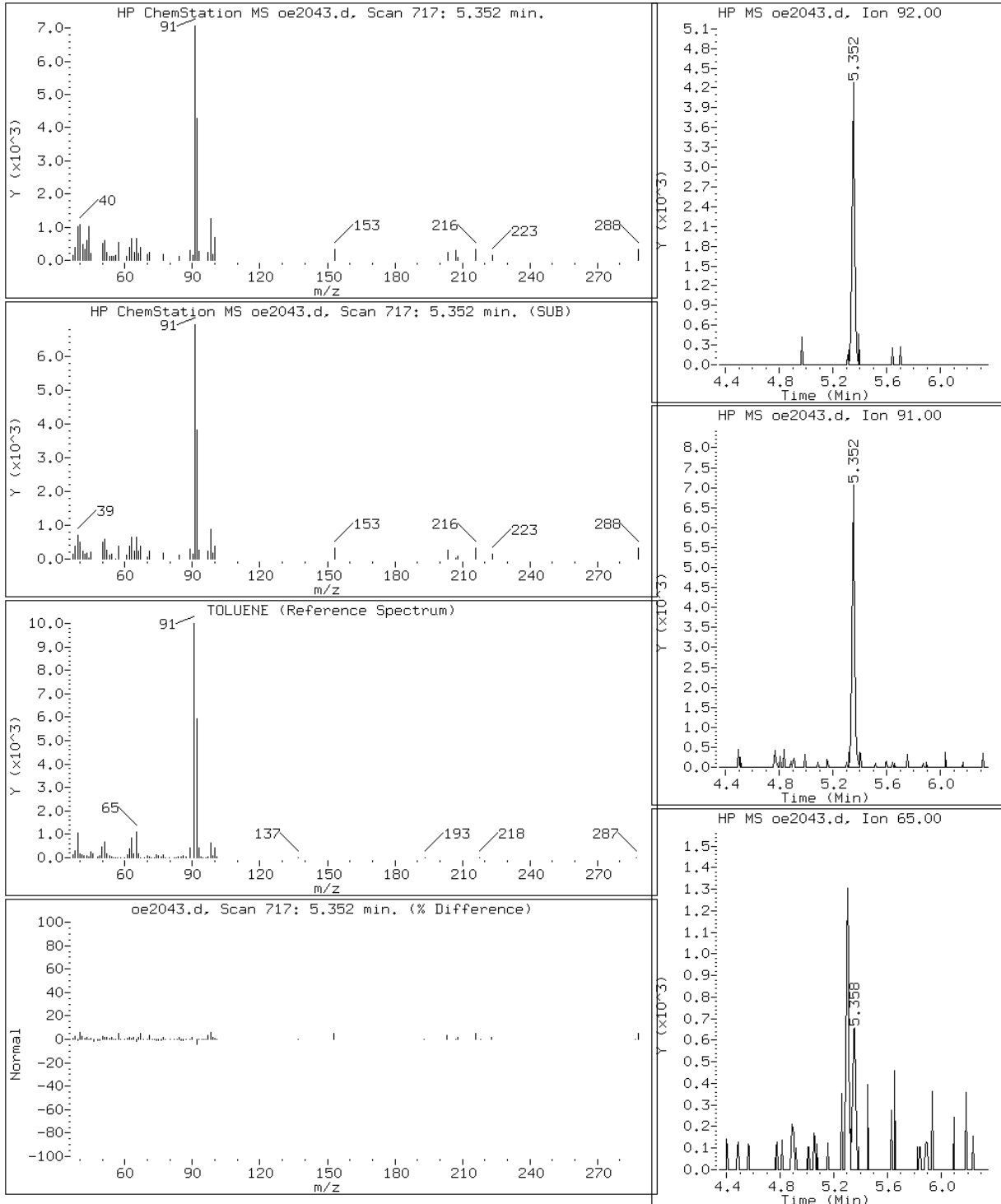
Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD

61 TOLUENE



Data File: oe2043.d

Date: 20-MAY-2013 19:01

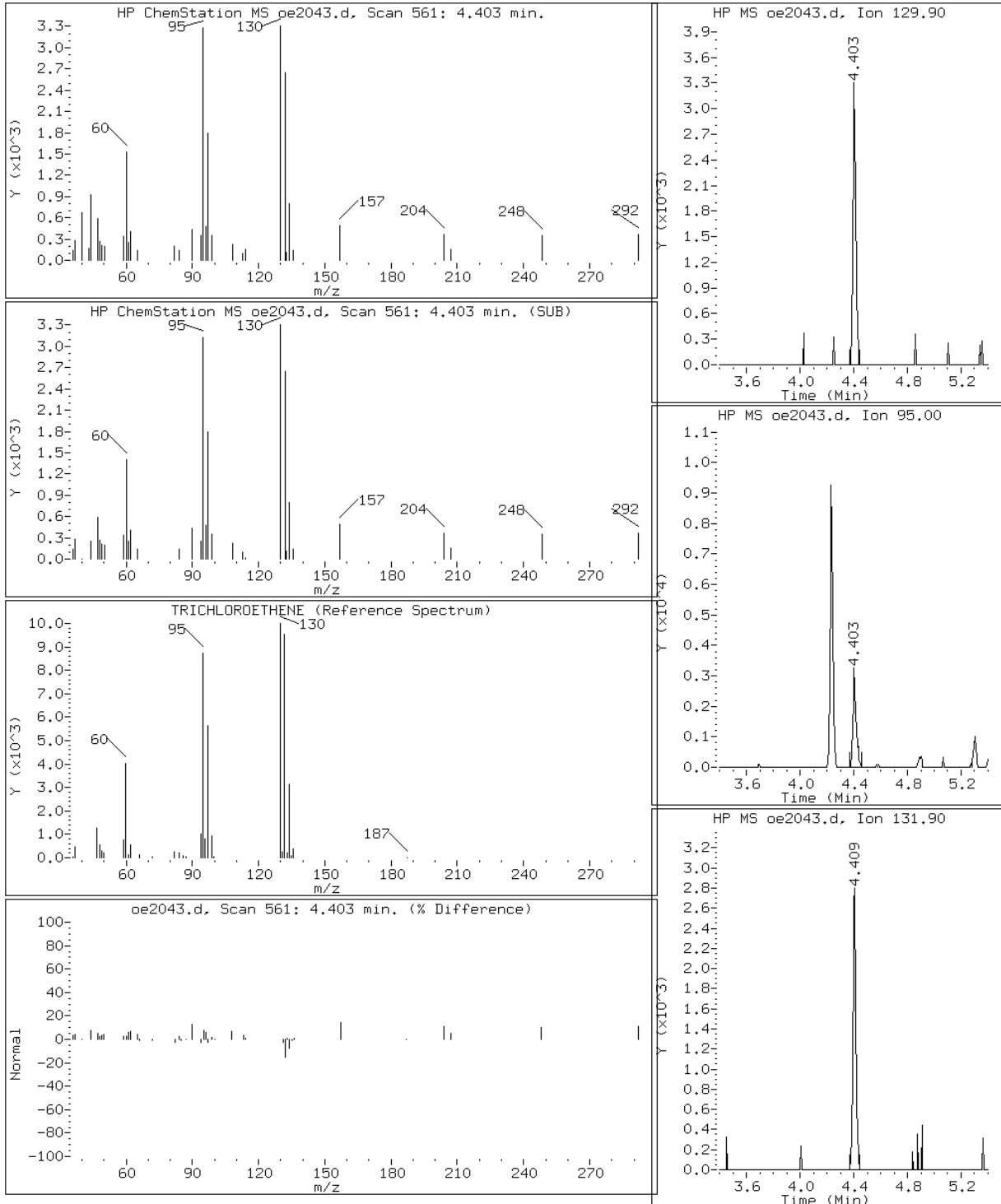
Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD

49 TRICHLOROETHENE



Data File: oe2043.d

Date: 20-MAY-2013 19:01

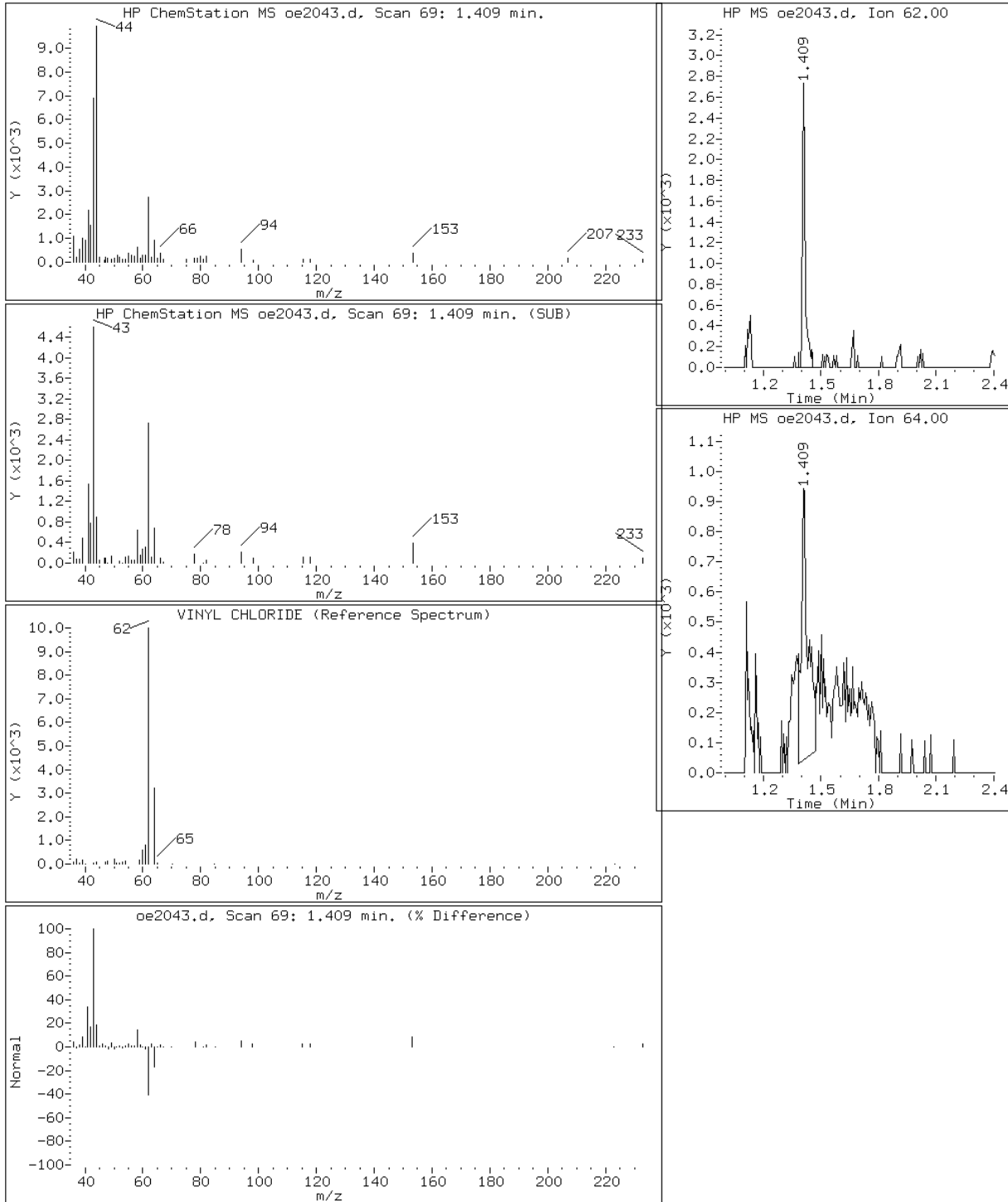
Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-C-3=[10052013]

Operator: JD

3 VINYL CHLORIDE



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20102 Lab Sample ID: 680-90122-4
 Matrix: Water Lab File ID: oe2045.d
 Analysis Method: 8260B Date Collected: 05/08/2013 15:30
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 19:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.13
75-34-3	1,1-Dichloroethane	1.4		1.0	0.25
75-35-4	1,1-Dichloroethene	ND		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.44
106-93-4	1,2-Dibromoethane	ND		1.0	0.25
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.21
107-06-2	1,2-Dichloroethane	ND		1.0	0.10
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.28
78-93-3	2-Butanone	2.9	J	10	1.0
591-78-6	2-Hexanone	ND		10	1.0
108-10-1	4-Methyl-2-pentanone	ND		10	1.0
67-64-1	Acetone	8.7	J	25	5.0
71-43-2	Benzene	20		1.0	0.25
75-27-4	Bromodichloromethane	ND		1.0	0.25
75-25-2	Bromoform	ND		1.0	0.50
74-83-9	Bromomethane	ND		5.0	2.0
75-15-0	Carbon disulfide	ND		2.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.25
75-00-3	Chloroethane	ND		5.0	2.0
67-66-3	Chloroform	ND		1.0	0.14
74-87-3	Chloromethane	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	2.9		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.11
110-82-7	Cyclohexane	1.8		1.0	0.25
124-48-1	Dibromochloromethane	ND		1.0	0.10
75-71-8	Dichlorodifluoromethane	ND		1.0	0.25
100-41-4	Ethylbenzene	11		1.0	0.11
98-82-8	Isopropylbenzene	1.1		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20102 Lab Sample ID: 680-90122-4
 Matrix: Water Lab File ID: oe2045.d
 Analysis Method: 8260B Date Collected: 05/08/2013 15:30
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 19:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		10	0.20
108-87-2	Methylcyclohexane	ND		1.0	0.10
75-09-2	Methylene Chloride	ND		5.0	1.0
100-42-5	Styrene	ND		1.0	0.11
127-18-4	Tetrachloroethene	ND		1.0	0.15
108-88-3	Toluene	0.87	J	1.0	0.33
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21
79-01-6	Trichloroethene	1.7		1.0	0.13
75-69-4	Trichlorofluoromethane	ND		1.0	0.25
75-01-4	Vinyl chloride	0.67	J	1.0	0.18
1330-20-7	Xylenes, Total	1.0	J	2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	87		70-130
1868-53-7	Dibromofluoromethane	93		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/1o052013.b/oe2045.d
Lab Smp Id: 680-90122-D-4 Client Smp ID: 25LM20102
Inj Date : 20-MAY-2013 19:31
Operator : JD Inst ID: MSO5973C2.i
Smp Info : 680-90122-D-4=[10052013]
Misc Info : 680-90122-D-4
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSO5973C2.i/1o052013.b/O-18260BC2-m.m
Meth Date : 20-May-2013 10:28 ghenassi Quant Type: ISTD
Cal Date : 17-MAY-2013 12:53 Cal File: oe1717q.d
Als bottle: 72
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
3 VINYL CHLORIDE	62	1.407	1.405	(0.356)	3112	0.66723	0.67(aQ)
14 ACETONE	58	2.198	2.201	(0.556)	2521	8.67292	8.7(aH)
27 1 1-DICHLOROETHANE	63	2.952	2.944	(0.747)	6222	1.36351	1.4
32 2-BUTANONE	43	3.378	3.369	(0.855)	4488	2.85493	2.9(a)
31 cis-1 2-DICHLOROETHENE	96	3.359	3.351	(0.851)	8229	2.85195	2.9
\$ 40 DIBROMOFLUOROMETHANE	113	3.688	3.686	(0.934)	125028	46.7201	47
38 CYCLOHEXANE	56	3.670	3.668	(0.866)	7402	1.83578	1.8(H)
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.950	3.947	(1.000)	163729	50.0000	
44 BENZENE	78	3.943	3.941	(0.931)	204555	19.9161	20
* 48 1,4-DIFLUOROBENZENE	114	4.236	4.233	(1.000)	436630	50.0000	
49 TRICHLOROETHENE	130	4.406	4.398	(1.040)	4900	1.66587	1.7
\$ 60 TOLUENE-d8	98	5.300	5.298	(1.251)	469719	48.0524	48
61 TOLUENE	92	5.349	5.353	(1.263)	5676	0.86994	0.87(a)

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
* 71 CHLOROBENZENE-d5	82	6.438	6.436	(1.000)	210791	50.0000	
73 ETHYL BENZENE	91	6.523	6.521	(1.013)	142748	10.6211	11
75 m,p-XYLENE	106	6.620	6.618	(1.028)	5427	1.00284	1.0(a)
79 ISOPROPYL BENZENE	105	7.222	7.220	(1.122)	12575	1.05107	1.1
\$ 81 4-BROMOFLUOROBENZENE	95	7.393	7.391	(1.148)	169748	43.5181	44
84 n-PROPYLBENZENE	120	7.563	7.561	(1.175)	3014	0.74935	0.75(aQ)
93 1 2 4-TRIMETHYLBENZENE	105	8.025	8.023	(1.247)	20012	1.69634	1.7
M 105 1,2-DICHLOROETHENE (total)	96				8229	2.85195	2.9
M 107 XYLENE (total)	106				5427	1.00284	1.0(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- H - Operator selected an alternate compound hit.

Data File: oe2045.d

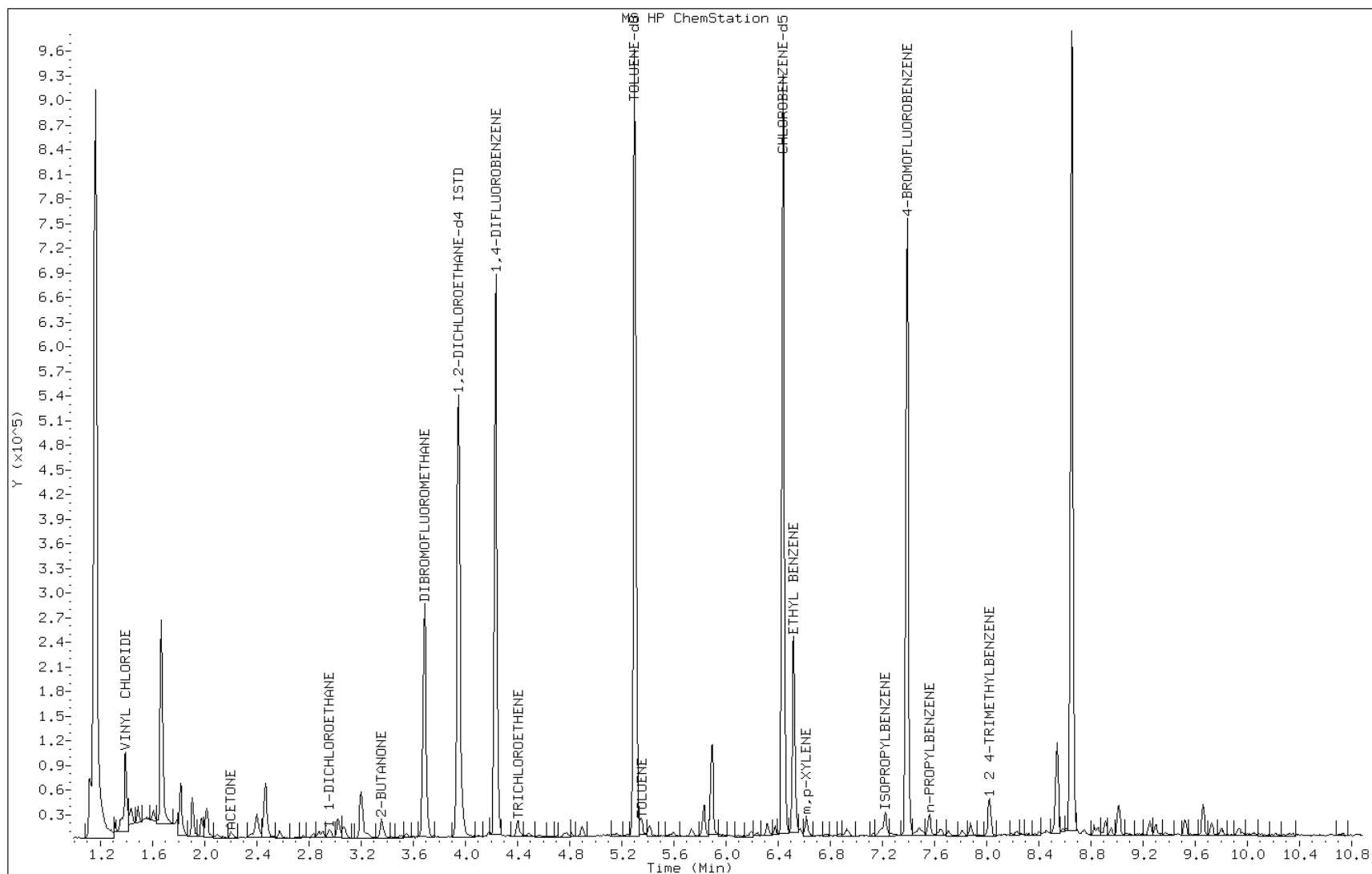
Date: 20-MAY-2013 19:31

Client ID: 25LM20102

Instrument: MS05973C2.i

Sample Info: 680-90122-D-4=[10052013]

Operator: JD



Data File: oe2045.d

Date: 20-MAY-2013 19:31

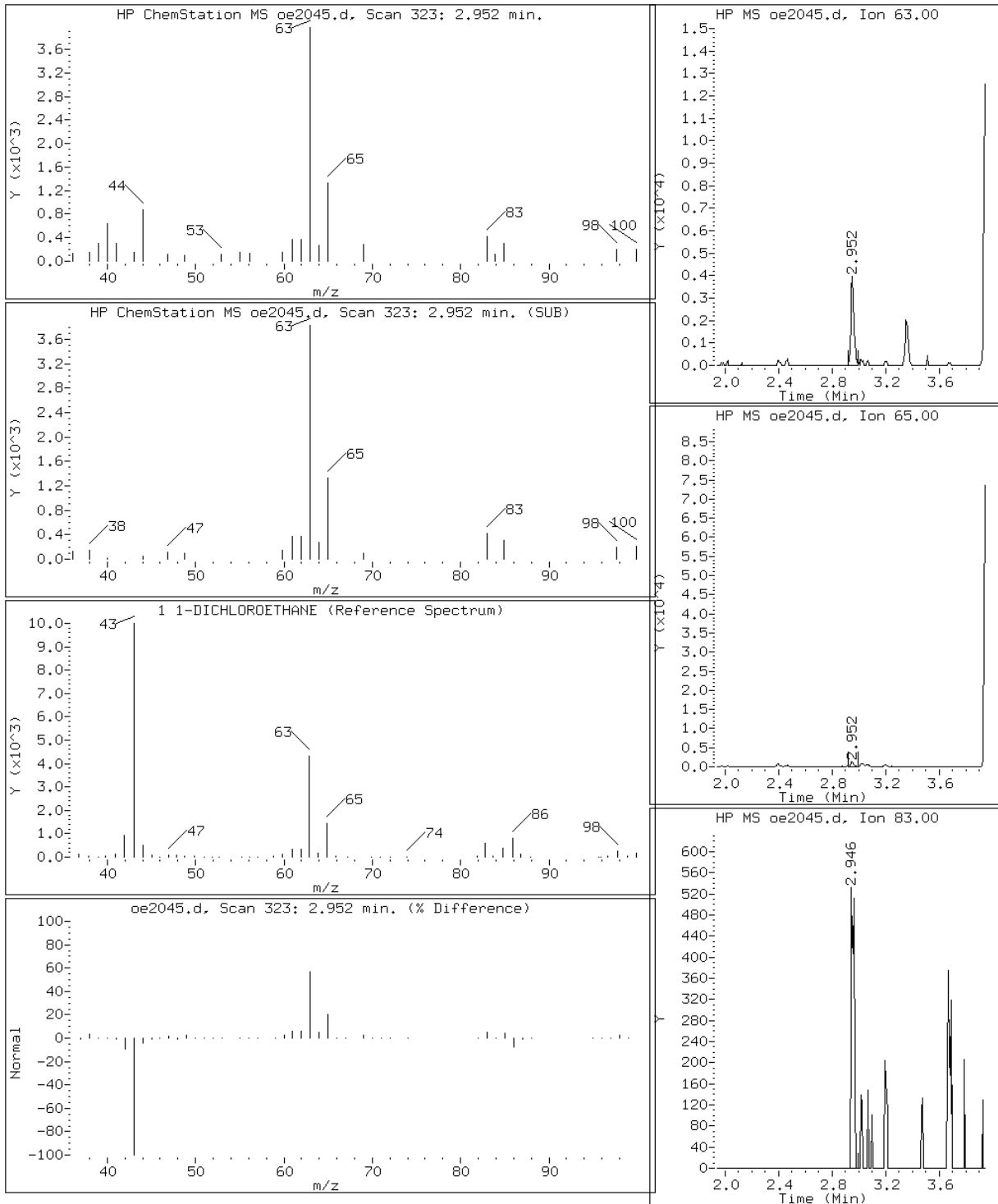
Client ID: 25LM20102

Instrument: MS05973C2.i

Sample Info: 680-90122-D-4=[10052013]

Operator: JD

27 1 1-DICHLOROETHANE



Data File: oe2045.d

Date: 20-MAY-2013 19:31

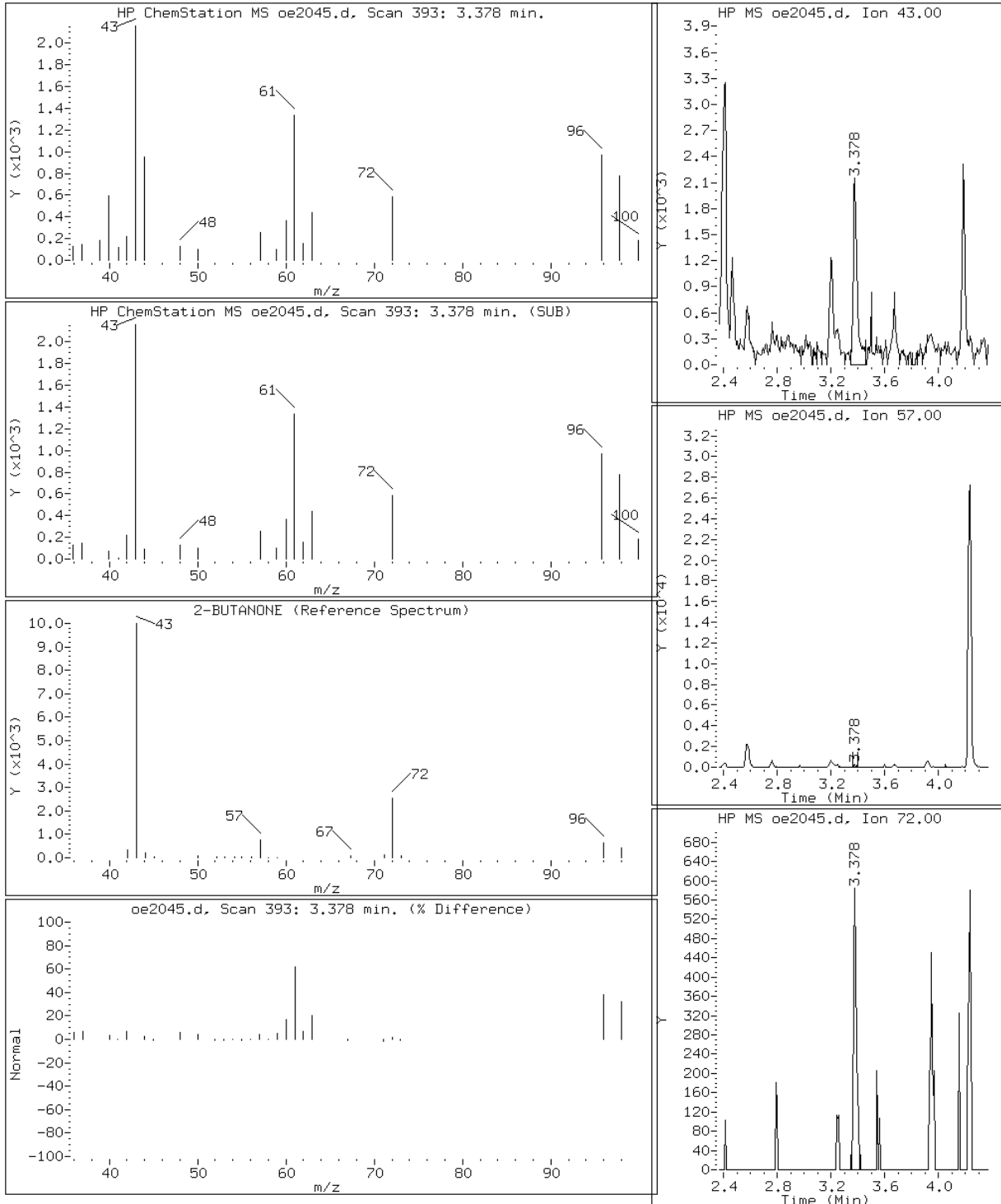
Client ID: 25LM20102

Instrument: MS05973C2.i

Sample Info: 680-90122-D-4=[10052013]

Operator: JD

32 2-BUTANONE



Data File: oe2045.d

Date: 20-MAY-2013 19:31

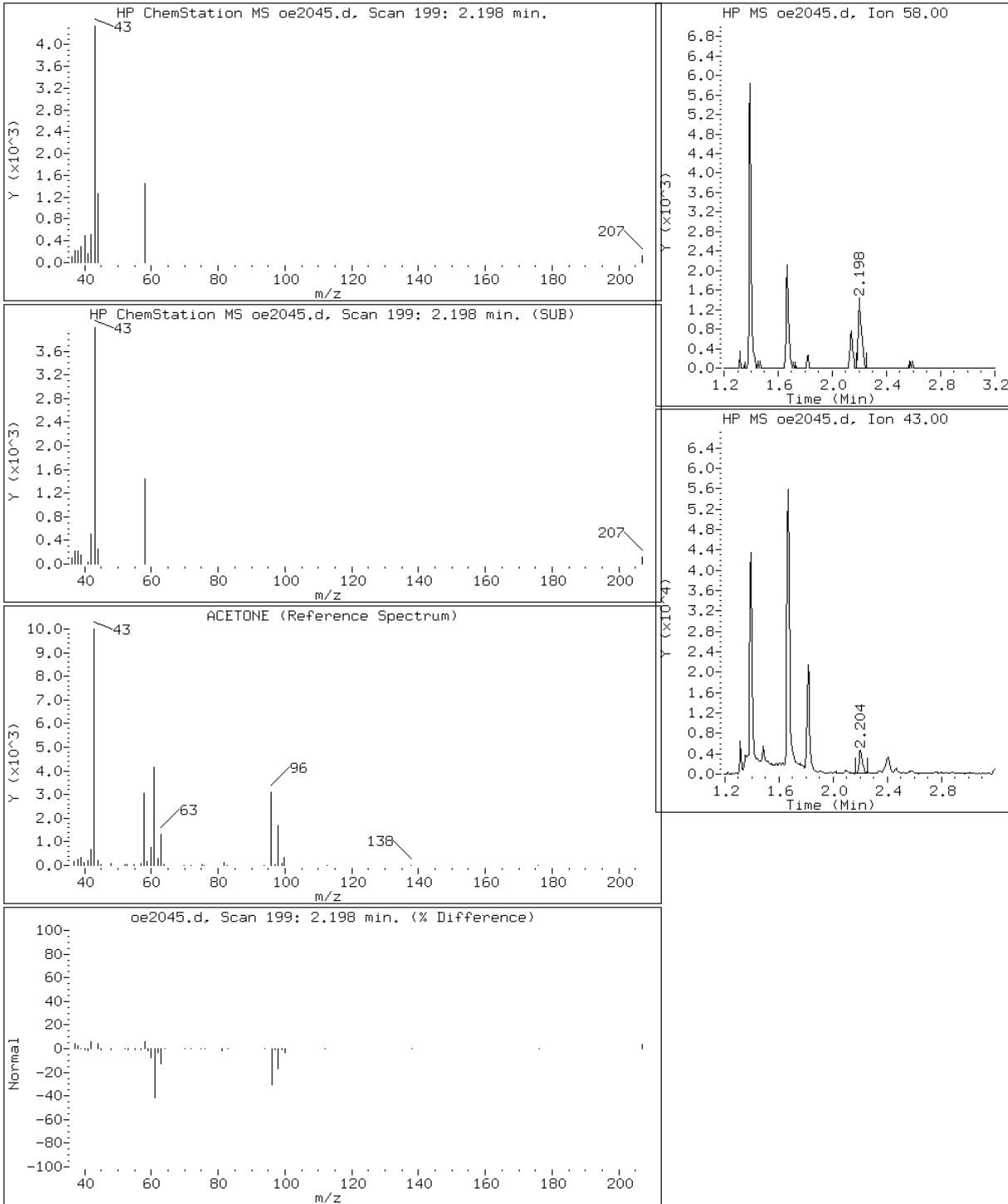
Client ID: 25LM20102

Instrument: MS05973C2.i

Sample Info: 680-90122-D-4=[10052013]

Operator: JD

14 ACETONE



Data File: oe2045.d

Date: 20-MAY-2013 19:31

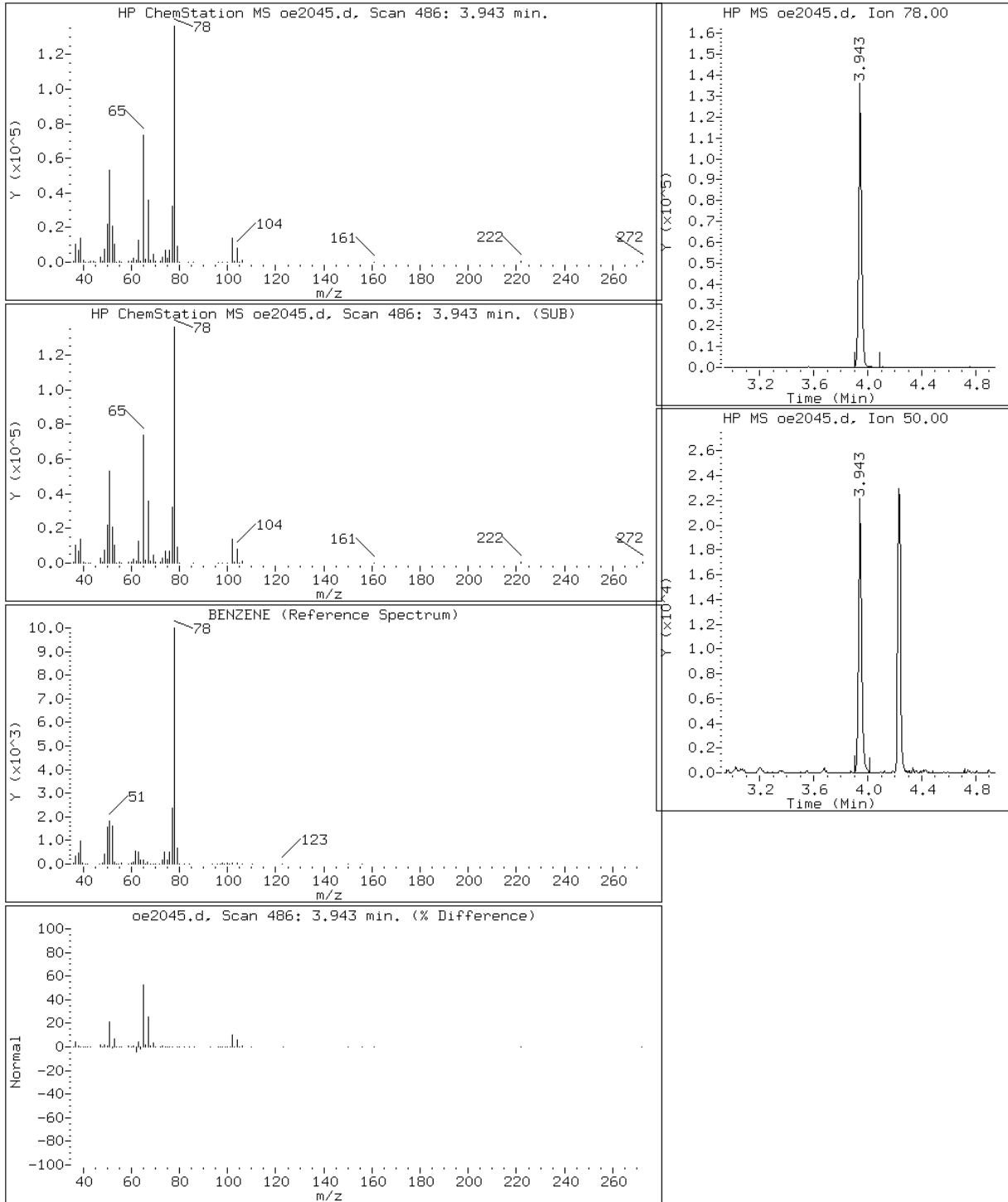
Client ID: 25LM20102

Instrument: MS05973C2.i

Sample Info: 680-90122-D-4=[10052013]

Operator: JD

44 BENZENE



Data File: oe2045.d

Date: 20-MAY-2013 19:31

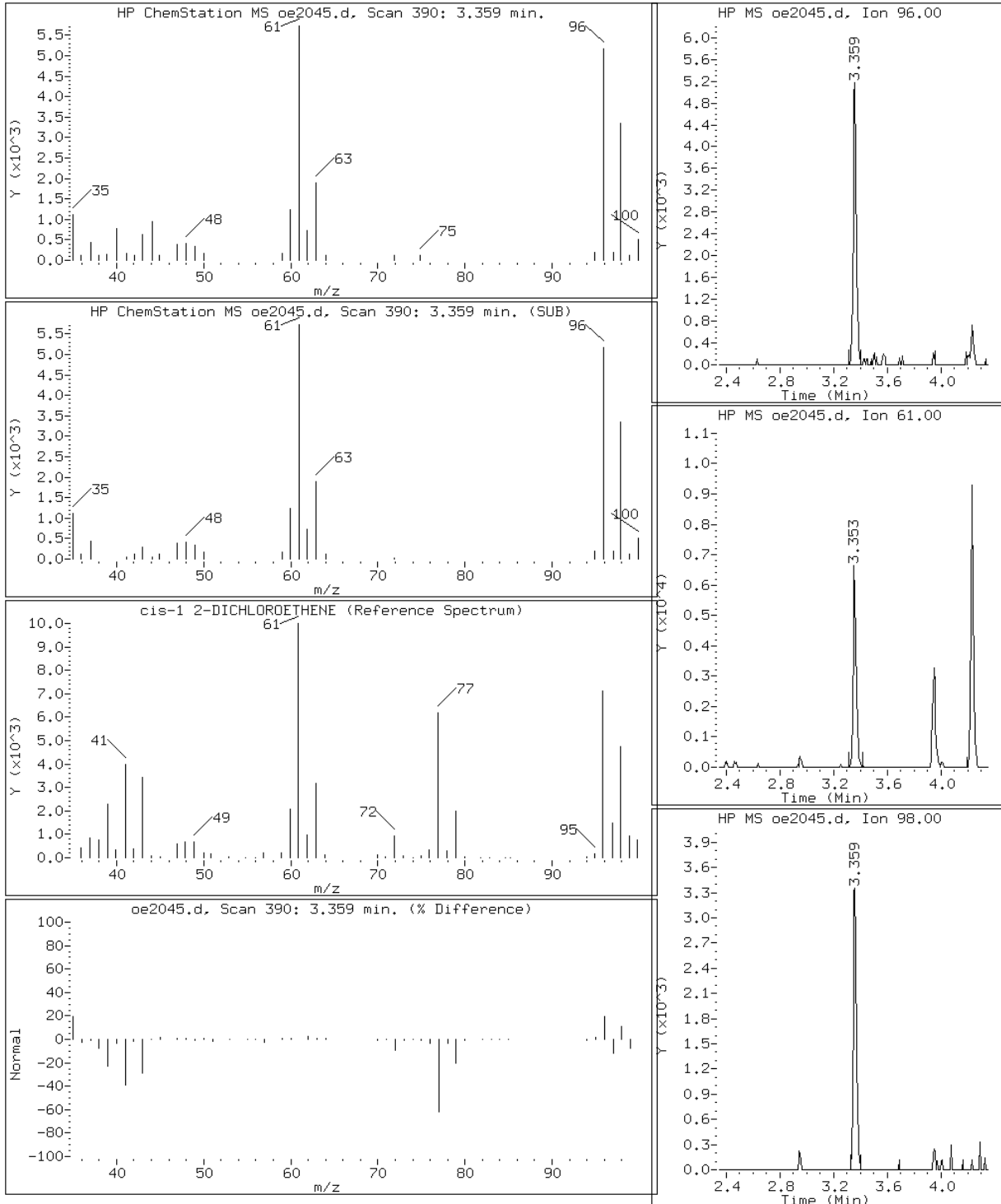
Client ID: 25LM20102

Instrument: MS05973C2.i

Sample Info: 680-90122-D-4=[10052013]

Operator: JD

31 cis-1 2-DICHLOROETHENE



Data File: oe2045.d

Date: 20-MAY-2013 19:31

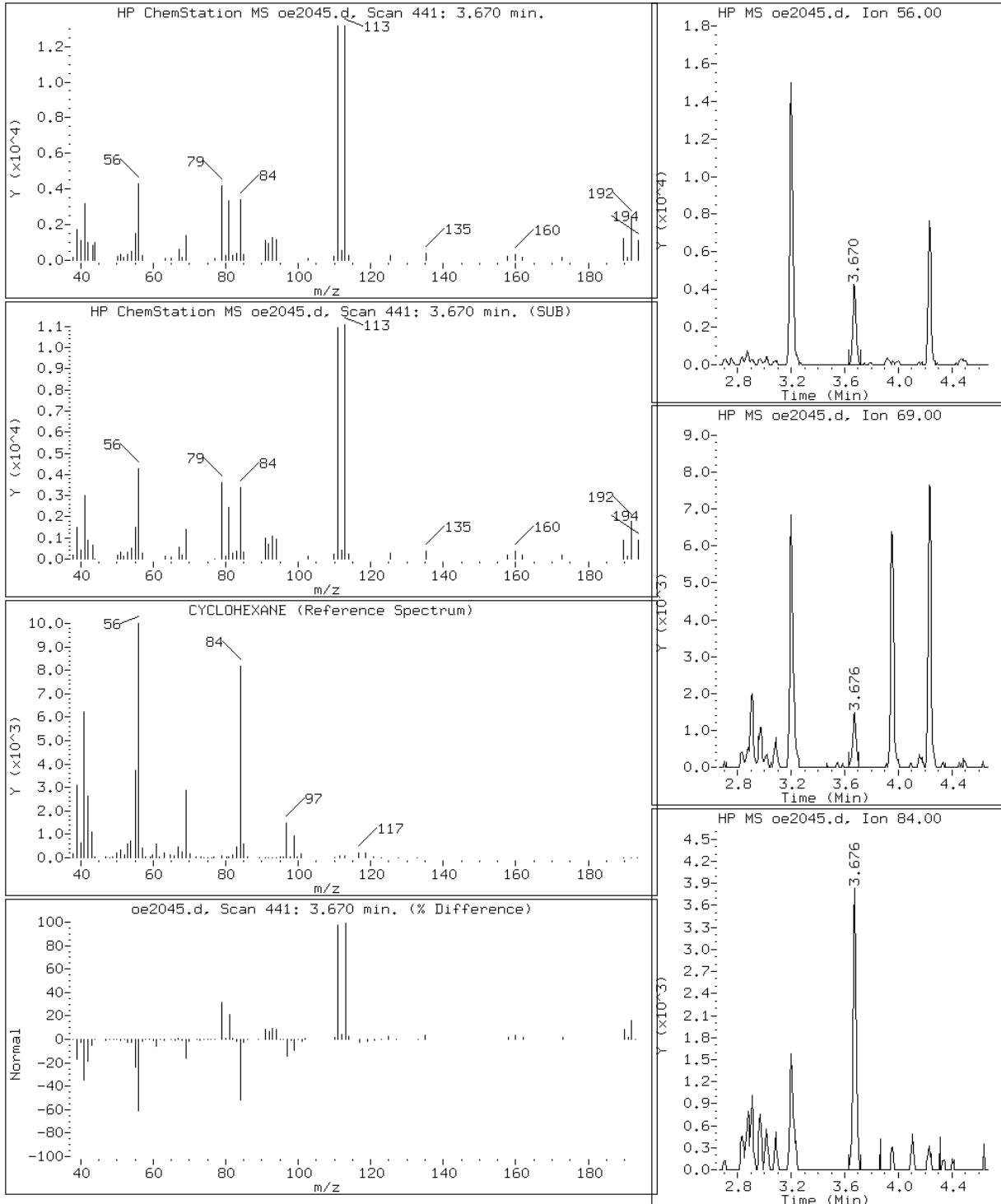
Client ID: 25LM20102

Instrument: MS05973C2.i

Sample Info: 680-90122-D-4=[10052013]

Operator: JD

38 CYCLOHEXANE



Data File: oe2045.d

Date: 20-MAY-2013 19:31

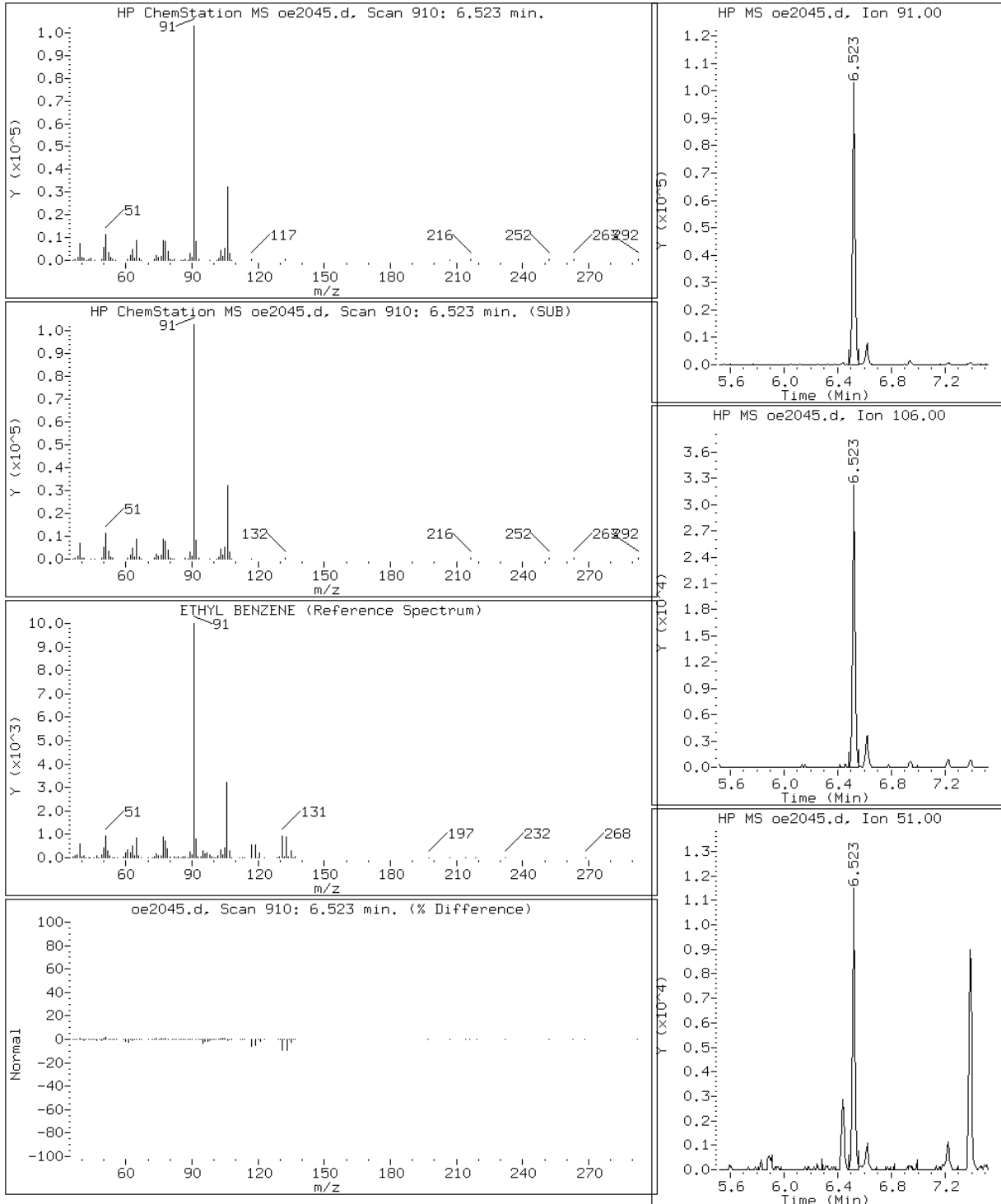
Client ID: 25LM20102

Instrument: MS05973C2.i

Sample Info: 680-90122-D-4=[10052013]

Operator: JD

73 ETHYL BENZENE



Data File: oe2045.d

Date: 20-MAY-2013 19:31

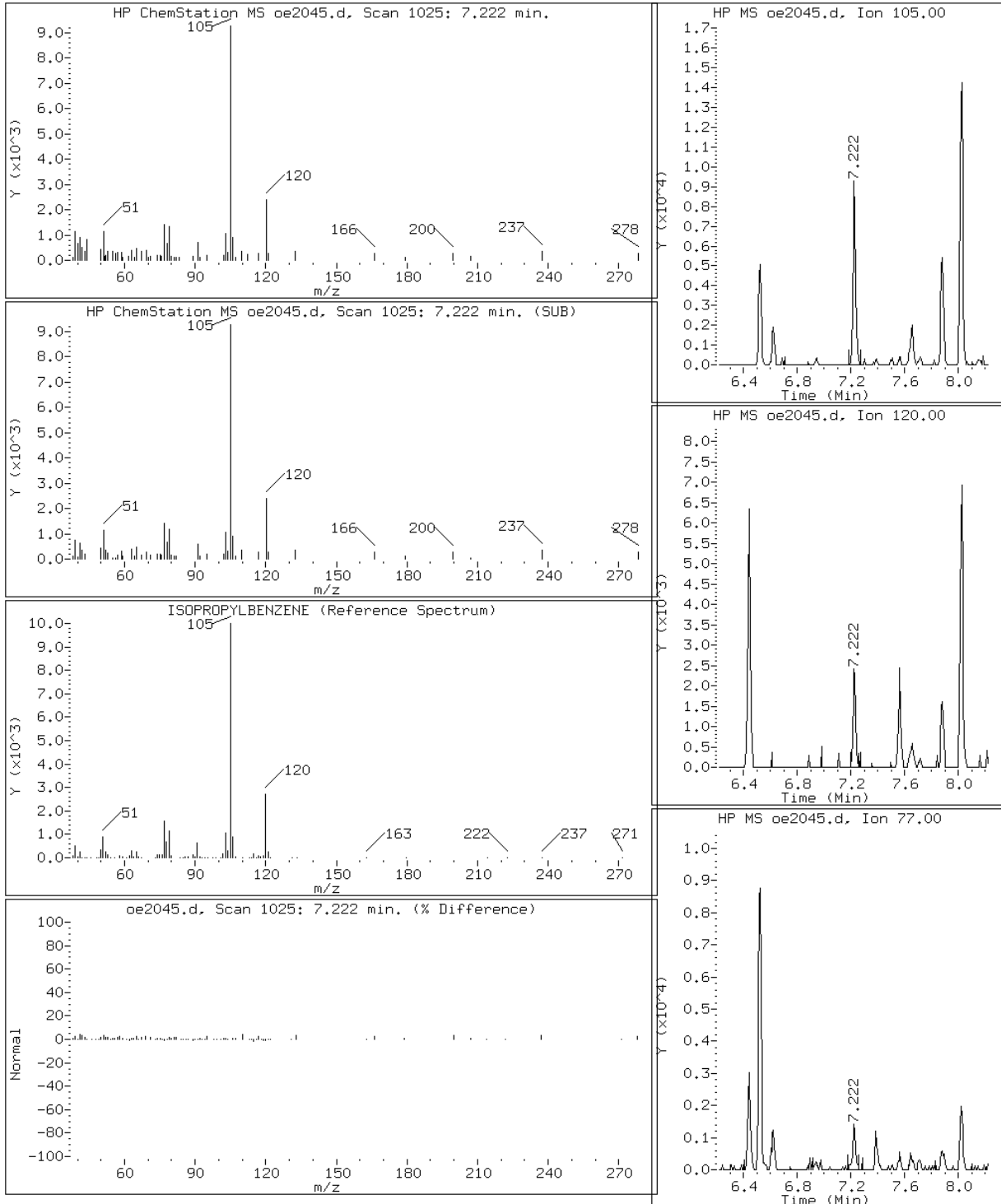
Client ID: 25LM20102

Instrument: MS05973C2.i

Sample Info: 680-90122-D-4=[10052013]

Operator: JD

79 ISOPROPYLBENZENE



Data File: oe2045.d

Date: 20-MAY-2013 19:31

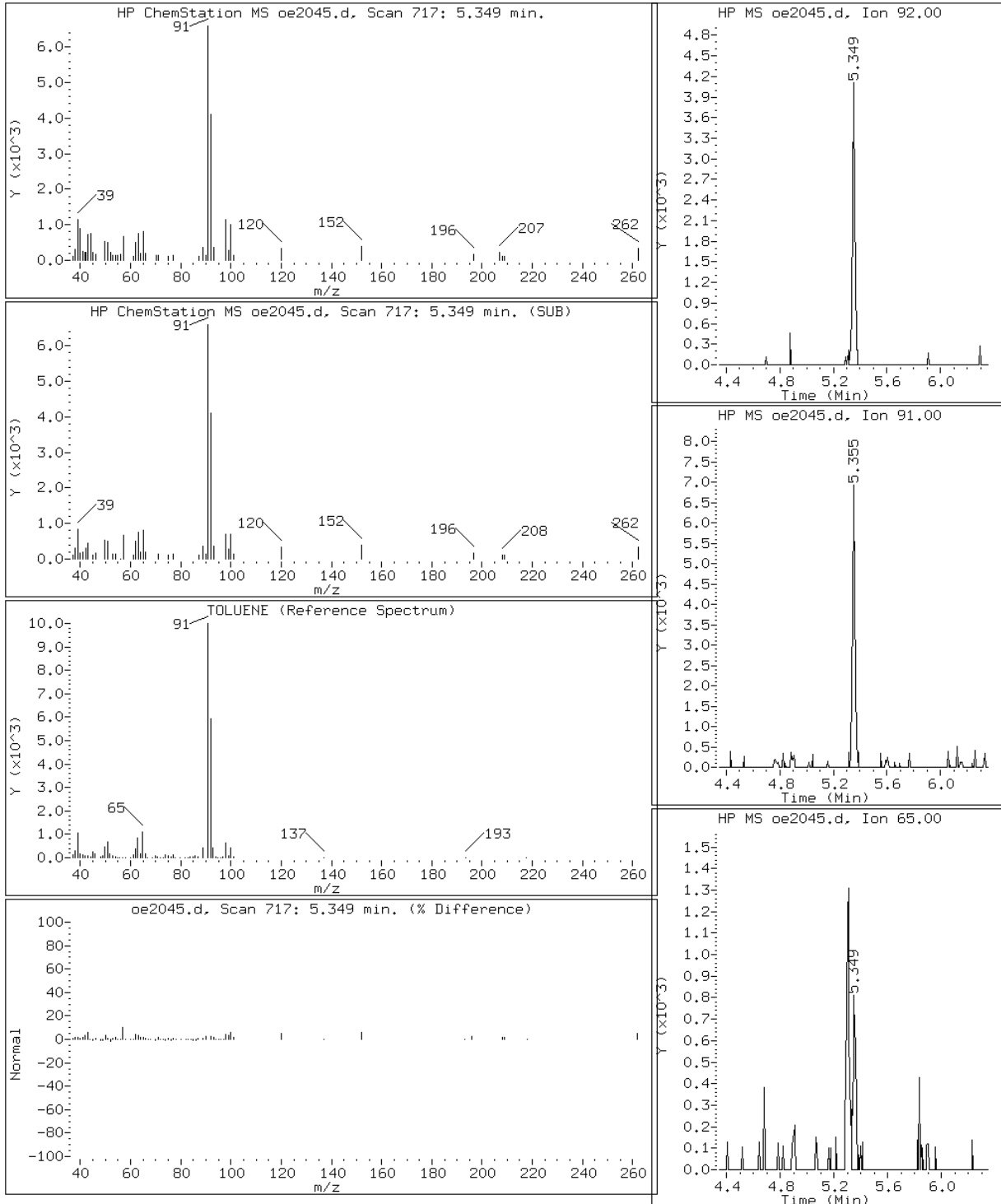
Client ID: 25LM20102

Instrument: MS05973C2.i

Sample Info: 680-90122-D-4=[10052013]

Operator: JD

61 TOLUENE



Data File: oe2045.d

Date: 20-MAY-2013 19:31

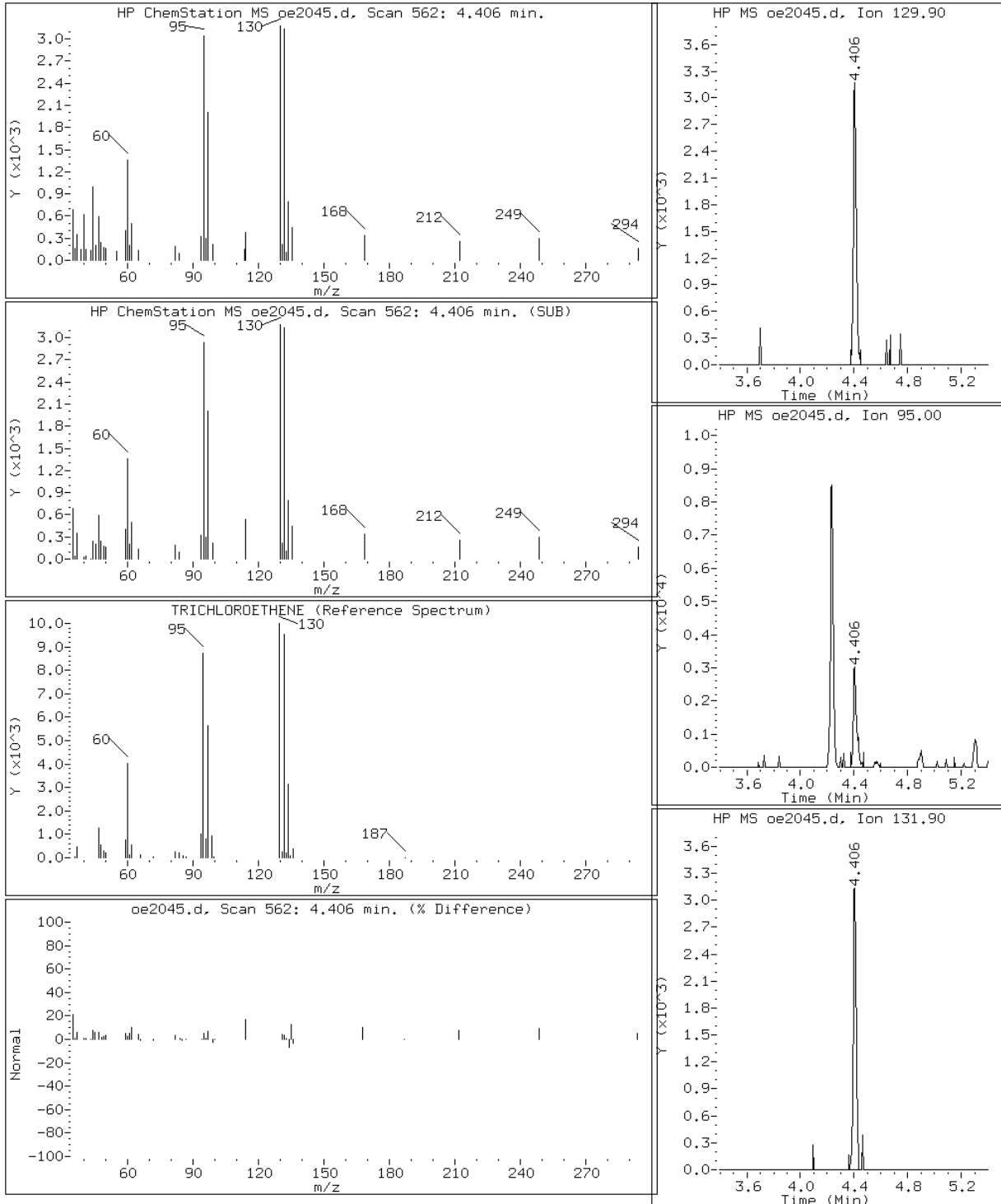
Client ID: 25LM20102

Instrument: MS05973C2.i

Sample Info: 680-90122-D-4=[10052013]

Operator: JD

49 TRICHLOROETHENE



Data File: oe2045.d

Date: 20-MAY-2013 19:31

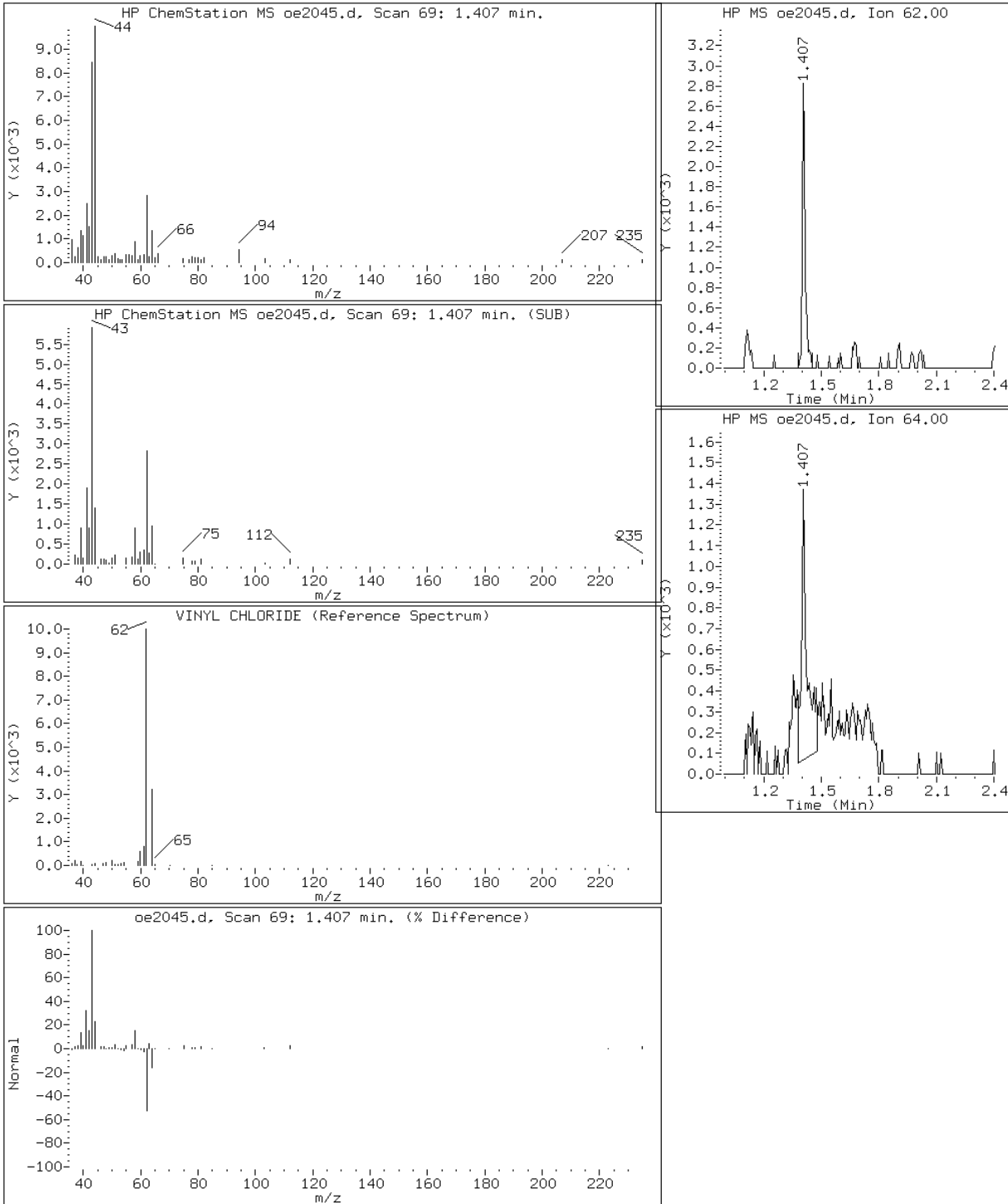
Client ID: 25LM20102

Instrument: MS05973C2.i

Sample Info: 680-90122-D-4=[10052013]

Operator: JD

3 VINYL CHLORIDE



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM00022 Lab Sample ID: 680-90122-5
 Matrix: Water Lab File ID: oe2021.d
 Analysis Method: 8260B Date Collected: 05/08/2013 17:15
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 13:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.13
75-34-3	1,1-Dichloroethane	ND		1.0	0.25
75-35-4	1,1-Dichloroethene	ND		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.44
106-93-4	1,2-Dibromoethane	ND		1.0	0.25
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.21
107-06-2	1,2-Dichloroethane	ND		1.0	0.10
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.28
78-93-3	2-Butanone	ND		10	1.0
591-78-6	2-Hexanone	ND		10	1.0
108-10-1	4-Methyl-2-pentanone	ND		10	1.0
67-64-1	Acetone	ND		25	5.0
71-43-2	Benzene	ND		1.0	0.25
75-27-4	Bromodichloromethane	ND		1.0	0.25
75-25-2	Bromoform	ND		1.0	0.50
74-83-9	Bromomethane	ND		5.0	2.0
75-15-0	Carbon disulfide	ND		2.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.25
75-00-3	Chloroethane	ND		5.0	2.0
67-66-3	Chloroform	ND		1.0	0.14
74-87-3	Chloromethane	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.11
110-82-7	Cyclohexane	ND		1.0	0.25
124-48-1	Dibromochloromethane	ND		1.0	0.10
75-71-8	Dichlorodifluoromethane	ND		1.0	0.25
100-41-4	Ethylbenzene	ND		1.0	0.11
98-82-8	Isopropylbenzene	ND		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM00022 Lab Sample ID: 680-90122-5
 Matrix: Water Lab File ID: oe2021.d
 Analysis Method: 8260B Date Collected: 05/08/2013 17:15
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 13:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		10	0.20
108-87-2	Methylcyclohexane	ND		1.0	0.10
75-09-2	Methylene Chloride	ND		5.0	1.0
100-42-5	Styrene	ND		1.0	0.11
127-18-4	Tetrachloroethene	ND		1.0	0.15
108-88-3	Toluene	ND		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.13
75-69-4	Trichlorofluoromethane	ND		1.0	0.25
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	89		70-130
1868-53-7	Dibromofluoromethane	98		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/1o052013.b/oe2021.d
Lab Smp Id: 680-90122-A-5 Client Smp ID: 25LM00022
Inj Date : 20-MAY-2013 13:35
Operator : JD Inst ID: MSO5973C2.i
Smp Info : 680-90122-A-5=[10052013]
Misc Info : 680-90122-A-5
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSO5973C2.i/1o052013.b/O-18260BC2-m.m
Meth Date : 20-May-2013 10:28 ghenassi Quant Type: ISTD
Cal Date : 17-MAY-2013 12:53 Cal File: oe1717q.d
Als bottle: 60
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
35 TETRAHYDROFURAN	42	3.542	3.544	(0.897)	1558	0.62438	0.62(aH)
\$ 40 DIBROMOFLUOROMETHANE	113	3.688	3.686	(0.934)	135628	49.0678	49
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.950	3.947	(1.000)	169112	50.0000	
* 48 1,4-DIFLUOROBENZENE	114	4.236	4.233	(1.000)	468817	50.0000	
\$ 60 TOLUENE-d8	98	5.300	5.298	(1.251)	505870	48.1977	48
* 71 CHLOROBENZENE-d5	82	6.438	6.436	(1.000)	221397	50.0000	
\$ 81 4-BROMOFLUOROBENZENE	95	7.393	7.391	(1.148)	183102	44.6929	45

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- H - Operator selected an alternate compound hit.

Data File: oe2021.d

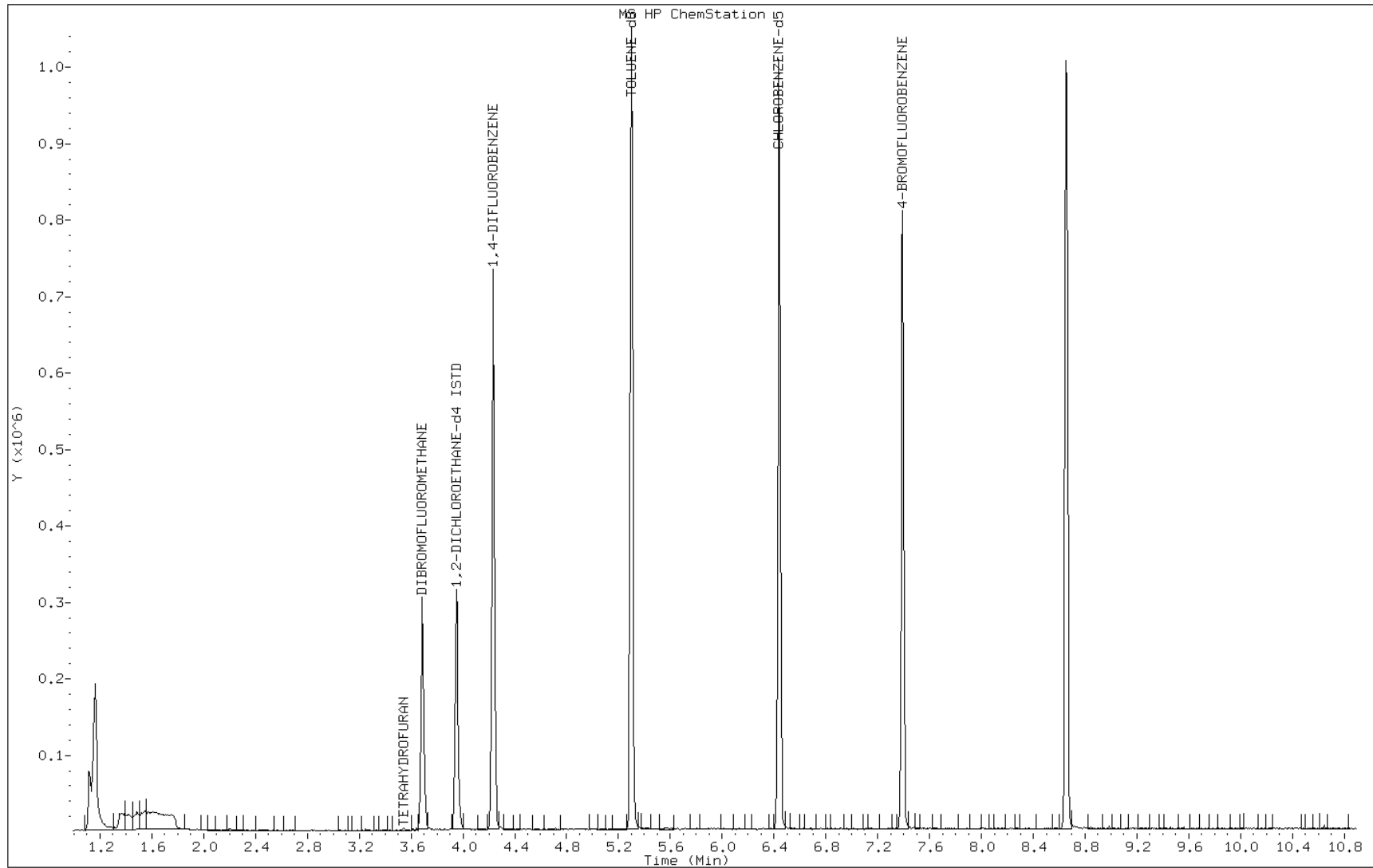
Date: 20-MAY-2013 13:35

Client ID: 25LM00022

Instrument: MS05973C2.i

Sample Info: 680-90122-A-5=[10052013]

Operator: JD



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

Lab Name: TestAmerica Savannah Job No.: 680-90122-1 Analy Batch No.: 277091

SDG No.: _____

Instrument ID: MSO2 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2013 16:58 Calibration End Date: 05/16/2013 20:26 Calibration ID: 17916

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-277091/2	oe1605q.d
Level 2	IC 680-277091/3	oe1607q.d
Level 3	IC 680-277091/4	oe1609q.d
Level 4	IC 680-277091/5	oe1611q.d
Level 5	IC 680-277091/6	oe1613q.d
Level 6	ICIS 680-277091/7	oe1615q.d
Level 7	IC 680-277091/8	oe1617q.d
Level 8	IC 680-277091/9	oe1619q.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	++++ 1.1076	1.0213 1.1151	1.1240 1.0954	1.1406	1.1422	Ave	1.1066				3.7		15.0				
Vinyl chloride	1.6203 1.3839	1.5115 1.3819	1.3312 1.3346	1.4015	1.4297	Ave	1.4243				6.9		15.0				
Chloromethane	++++ 1.4681	++++ 1.4881	1.6724 1.4647	1.5453	1.5738	Ave	1.5354			0.1000	5.2		15.0				
1,3-Butadiene	++++ 1.1556	0.9463 1.1479	1.1123 1.1173	1.1473	1.1830	Ave	1.1156				7.0		15.0				
Bromomethane	++++ 0.0574	++++ 0.0621	0.0540 0.0721	0.0560	0.0441	QuaF	18.147	-14.87						0.9995		0.9900	
Chloroethane	++++ 0.3560	0.7290 0.3358	0.4632 0.3300	0.4055	0.3905	LinF	0.3332							0.9988		0.9900	
Trichlorofluoromethane	++++ 1.5838	1.3317 1.5564	1.6066 1.5205	1.6952	1.6925	Ave	1.5695				7.9		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 0.8154	0.6557 0.8137	0.8148 0.8152	0.8374	0.8372	Ave	0.7985				8.0		15.0				
1,1-Dichloroethene	++++ 0.6967	0.6405 0.7281	0.6768 0.7279	0.6839	0.7053	Ave	0.6942				4.4		15.0				
Acetone	++++ 0.0870	++++ 0.0910	0.0900 0.0882	0.0867	0.0898	Ave	0.0888				2.0		15.0				
Carbon disulfide	++++ 2.3039	2.3650 2.3452	2.2617 2.3574	2.3105	2.3313	Ave	2.3250				1.5		15.0				
Methyl acetate	++++ 0.9714	1.2366 1.0212	1.0277 1.0122	0.9111	0.9304	Ave	1.0158				10.6		15.0				
Methylene Chloride	++++ 0.7788	0.8511 0.7993	0.8112 0.7821	0.7939	0.8162	Ave	0.8047				3.1		15.0				
Methyl tert-butyl ether	++++ 2.5420	2.4138 2.7085	2.4207 2.8217	2.4376	2.5097	Ave	2.5506				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.: 680-90122-1 Analy Batch No.: 277091

SDG No.: _____

Instrument ID: MSO2 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2013 16:58 Calibration End Date: 05/16/2013 20:26 Calibration ID: 17916

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														
trans-1,2-Dichloroethene	++++ 0.7907	0.7773 0.8122	0.7788 0.8144	0.7860	0.8003	Ave		0.7942			1.9		15.0				
1,1-Dichloroethane	++++ 1.3684	1.3584 1.4112	1.3553 1.4478	1.3990	1.4147	Ave		1.3935		0.1000	2.5		15.0				
Vinyl acetate	++++ 1.1897	1.2074 1.1864	1.1506 1.1906	1.1608	1.1973	Ave		1.1833			1.7		15.0				
2,2-Dichloropropane	++++ 1.0211	1.1348 1.0522	1.0687 1.0512	1.0799	1.0401	Ave		1.0640			3.4		15.0				
cis-1,2-Dichloroethene	++++ 0.8766	0.8263 0.9134	0.8789 0.9278	0.8613	0.8837	Ave		0.8812			3.8		15.0				
2-Butanone	++++ 0.4795	0.6725 0.4983	0.4648 0.4754	0.4733	0.4757	LinF		0.4801						0.9994		0.9900	
Bromochloromethane	++++ 0.8664	0.7501 0.8687	0.7492 0.8622	0.8657	0.7339	Ave		0.8137			8.0		15.0				
Chloroform	++++ 1.3382	1.3329 1.3785	1.3627 1.3916	1.3747	1.3819	Ave		1.3658			1.6		15.0				
Cyclohexane	++++ 0.4717	0.3971 0.4837	0.4589 0.5100	0.4573	0.4533	Ave		0.4617			7.5		15.0				
1,1,1-Trichloroethane	++++ 0.4634	0.3717 0.4972	0.4152 0.5467	0.4363	0.4384	Ave		0.4527			12.6		15.0				
Carbon tetrachloride	++++ 0.3933	0.3218 0.4188	0.3524 0.4606	0.3712	0.3771	Ave		0.3850			11.7		15.0				
1,1-Dichloropropene	++++ 0.4431	0.3560 0.4574	0.4231 0.4759	0.4418	0.4386	Ave		0.4337			8.8		15.0				
Benzene	++++ 1.1803	1.1490 1.2063	1.1426 1.2603	1.1563	1.1382	Ave		1.1761			3.8		15.0				
1,2-Dichloroethane	++++ 0.4099	0.4407 0.4191	0.4053 0.4276	0.4119	0.4077	Ave		0.4174			3.1		15.0				
Trichloroethene	++++ 0.3402	0.3052 0.3528	0.3153 0.3859	0.3288	0.3296	Ave		0.3368			7.9		15.0				
Methylcyclohexane	++++ 0.5188	0.4335 0.5330	0.4778 0.5719	0.5024	0.5042	Ave		0.5060			8.6		15.0				
1,2-Dichloropropane	++++ 0.3449	0.3418 0.3536	0.3397 0.3663	0.3493	0.3449	Ave		0.3487			2.6		15.0				
Dibromomethane	++++ 0.2113	0.2113 0.2150	0.2035 0.2271	0.2016	0.2064	Ave		0.2109			4.1		15.0				
Bromodichloromethane	++++ 0.3907	0.3497 0.4067	0.3568 0.4362	0.3648	0.3670	Ave		0.3817			8.2		15.0				
2-Chloroethyl vinyl ether	++++ 0.2346	0.2273 0.2463	0.2029 0.2592	0.2190	0.2276	Ave		0.2310			7.9		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.: 680-90122-1

Analy Batch No.: 277091

SDG No.: _____

Instrument ID: MSO2

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2013 16:58

Calibration End Date: 05/16/2013 20:26

Calibration ID: 17916

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														
cis-1,3-Dichloropropene	++++	0.5019	0.5089	0.5121	0.5245	Ave		0.5399			7.4	15.0					
	0.5469	0.5749	0.6099														
4-Methyl-2-pentanone	++++	0.3667	0.3710	0.3748	0.3881	Ave		0.3907			5.6	15.0					
	0.3964	0.4149	0.4230														
Toluene	++++	0.6797	0.7076	0.7269	0.7245	Ave		0.7472			7.4	15.0					
	0.7559	0.7935	0.8420														
trans-1,3-Dichloropropene	++++	0.5068	0.4582	0.4992	0.5044	Ave		0.5258			9.8	15.0					
	0.5298	0.5652	0.6168														
1,1,2-Trichloroethane	++++	0.2680	0.2524	0.2512	0.2533	Ave		0.2615			4.2	15.0					
	0.2584	0.2657	0.2812														
Tetrachloroethene	++++	0.5545	0.5849	0.6021	0.6166	Ave		0.6285			9.3	15.0					
	0.6400	0.6720	0.7293														
1,3-Dichloropropane	++++	0.5198	0.5295	0.5354	0.5451	Ave		0.5527			5.3	15.0					
	0.5569	0.5791	0.6031														
2-Hexanone	++++	0.5794	0.5493	0.5678	0.6053	Ave		0.5953			5.1	15.0					
	0.6166	0.6314	0.6174														
Dibromochloromethane	++++	0.6209	0.6072	0.5943	0.6354	Ave		0.6702			12.2	15.0					
	0.6770	0.7372	0.8195														
1,2-Dibromoethane	++++	0.3126	0.2948	0.3097	0.3169	Ave		0.3249			7.4	15.0					
	0.3286	0.3447	0.3667														
Chlorobenzene	++++	1.7413	1.7167	1.7816	1.8214	Ave		1.8517		0.3000	7.0	15.0					
	1.8682	1.9409	2.0916														
Ethylbenzene	++++	2.7085	2.9205	3.0080	3.0869	Ave		3.1880			11.9	15.0					
	3.2778	3.4753	3.8389														
1,1,1,2-Tetrachloroethane	++++	0.5945	0.5788	0.5923	0.6324	LinF		0.8089					0.9954	0.9900			
	0.6902	0.7574	0.8287														
m-Xylene & p-Xylene	++++	1.1290	1.1606	1.1905	1.2251	Ave		1.2837			11.7	15.0					
	1.3241	1.4181	1.5381														
o-Xylene	++++	1.1072	1.1654	1.1750	1.2053	Ave		1.2475			10.0	15.0					
	1.2653	1.3394	1.4748														
Styrene	++++	1.7113	1.8825	1.9006	2.0018	Ave		2.0504			12.0	15.0					
	2.1814	2.2588	2.4166														
Bromoform	++++	0.4101	0.4413	0.4430	0.4792	QuaF		1.8132	-0.152				0.9995	0.9900			
	0.5501	0.6325	0.7278														
Isopropylbenzene	++++	2.3344	2.6150	2.6971	2.7836	Ave		2.8379			12.2	15.0					
	2.9466	3.0769	3.4114														
Bromobenzene	++++	0.8666	0.8561	0.8684	0.9121	Ave		0.9441			10.4	15.0					
	0.9621	1.0221	1.1212														
1,1,2,2-Tetrachloroethane	++++	0.9486	0.8613	0.8930	0.9012	Ave		0.9323		0.3000	5.5	15.0					
	0.9350	0.9800	1.0072														

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.: 680-90122-1

Analy Batch No.: 277091

SDG No.: _____

Instrument ID: MSO2

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2013 16:58

Calibration End Date: 05/16/2013 20:26

Calibration ID: 17916

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														
N-Propylbenzene	++++ 0.9917	0.7675 1.0627	0.8862 1.1351	0.8846	0.9507	Ave		0.9541			12.9		15.0				
1,2,3-Trichloropropane	++++ 0.3345	0.3747 0.3517	0.2981 0.3554	0.3017	0.3240	Ave		0.3343			8.5		15.0				
2-Chlorotoluene	++++ 0.8699	0.7511 0.9039	0.8133 0.9716	0.7922	0.8310	Ave		0.8476			8.7		15.0				
1,3,5-Trimethylbenzene	++++ 2.9360	2.3946 3.1408	2.5222 3.5064	2.6593	2.7582	Ave		2.8453			13.5		15.0				
4-Chlorotoluene	++++ 0.8917	0.7205 0.9292	0.7988 0.9679	0.8198	0.8299	Ave		0.8511			9.9		15.0				
tert-Butylbenzene	++++ 2.6074	2.0851 2.7881	2.2666 3.0781	2.3580	2.4344	Ave		2.5168			13.4		15.0				
1,2,4-Trimethylbenzene	++++ 2.9088	2.4121 3.1039	2.4099 3.4262	2.6090	2.7182	Ave		2.7983			13.4		15.0				
sec-Butylbenzene	++++ 3.7808	3.0553 4.0010	3.2432 4.4796	3.4232	3.5499	Ave		3.6476			13.3		15.0				
p-Isopropyltoluene	++++ 3.2986	2.4364 3.7111	2.6079 4.2668	2.7858	2.9849	LinF		4.1259						0.9908		0.9900	
1,3-Dichlorobenzene	++++ 2.0415	1.5895 2.2370	1.7101 2.3548	1.7899	1.8693	LinF		2.3163						0.9975		0.9900	
1,4-Dichlorobenzene	++++ 1.9155	1.5494 2.0243	1.7296 2.1983	1.7526	1.7939	Ave		1.8519			11.5		15.0				
n-Butylbenzene	++++ 2.7990	2.0309 2.9824	2.2798 3.3509	2.4866	2.5845	LinF		3.2584						0.9944		0.9900	
1,2-Dichlorobenzene	++++ 1.7991	1.5952 1.9008	1.5662 2.0649	1.6188	1.7158	Ave		1.7516			10.4		15.0				
1,2-Dibromo-3-Chloropropane	++++ 0.2335	0.2106 0.2529	0.1851 0.2663	0.2014	0.2079	Ave		0.2225			13.2		15.0				
1,2,4-Trichlorobenzene	++++ 1.0376	0.8517 1.1554	0.8453 1.3094	0.9040	0.9861	LinF		1.2697						0.9926		0.9900	
Hexachlorobutadiene	++++ 0.6569	0.5674 0.6839	0.5621 0.7726	0.5991	0.6233	Ave		0.6379			11.6		15.0				
Naphthalene	++++ 2.0586	1.6603 2.2874	1.5533 2.5577	1.6986	1.8723	LinF		2.4857						0.9934		0.9900	
1,2,3-Trichlorobenzene	++++ 0.9059	0.8126 0.9923	0.7345 1.1170	0.7914	0.8564	LinF		1.0850						0.9936		0.9900	
1,3-Dichloropropene, Total	++++ 0.5384	0.5044 0.5701	0.4836 0.6133	0.5056	0.5145	Ave		0.5328			8.5		15.0				
a-Methylstyrene TIC	++++ 1.6374	1.2026 1.7439	1.3549 1.9401	1.4208	1.5209	LinF		1.8900						0.9951		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.: 680-90122-1 Analy Batch No.: 277091

SDG No.: _____

Instrument ID: MSO2 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2013 16:58 Calibration End Date: 05/16/2013 20:26 Calibration ID: 17916

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														
Dibromofluoromethane	+++++	0.7719	0.7716	0.7945	0.8123	Ave		0.8172			5.5		15.0				
	0.8171	0.8627	0.8905														
Toluene-d8 (Surr)	+++++	0.9732	1.0582	1.0657	1.0953	Ave		1.1194			9.7		15.0				
	1.1395	1.1973	1.3064														
4-Bromofluorobenzene	+++++	0.9493	0.8514	0.8588	0.8826	Ave		0.9252			7.8		15.0				
	0.9152	0.9634	1.0559														

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.: 680-90122-1 Analy Batch No.: 277091

SDG No.: _____

Instrument ID: MSO2 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2013 16:58 Calibration End Date: 05/16/2013 20:26 Calibration ID: 17916

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-277091/2	oe1605q.d
Level 2	IC 680-277091/3	oe1607q.d
Level 3	IC 680-277091/4	oe1609q.d
Level 4	IC 680-277091/5	oe1611q.d
Level 5	IC 680-277091/6	oe1613q.d
Level 6	ICIS 680-277091/7	oe1615q.d
Level 7	IC 680-277091/8	oe1617q.d
Level 8	IC 680-277091/9	oe1619q.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	12DC E	Ave	++++ 237127	4165 488491	22973 1031509	47410	93636	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Vinyl chloride	12DC E	Ave	3277 296275	6164 605374	27210 1256724	58254	117204	0.500 50.0	1.00 100	5.00 200	10.0	20.0
Chloromethane	12DC E	Ave	++++ 314319	++++ 651888	34184 1379266	64233	129016	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,3-Butadiene	12DC E	Ave	++++ 247399	3859 502858	22734 1052072	47689	96978	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Bromomethane	12DC E	QuaF	++++ 12292	++++ 27202	1103 67877	2329	3617	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Chloroethane	12DC E	LinF	++++ 76214	2973 147104	9467 310747	16856	32011	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Trichlorofluoromethane	12DC E	Ave	++++ 339082	5431 681807	32838 1431753	70465	138744	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	12DC E	Ave	++++ 174572	2674 356433	16654 767675	34806	68631	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,1-Dichloroethene	12DC E	Ave	++++ 149154	2612 318970	13833 685443	28426	57822	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Acetone	12DC E	Ave	++++ 37251	++++ 79720	3678 166079	7206	14719	++++ 100	++++ 200	10.0 400	20.0	40.0
Carbon disulfide	12DC E	Ave	++++ 493257	9645 1027353	46228 2219868	96041	191114	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Methyl acetate	12DC E	Ave	++++ 207967	5043 447347	21005 953098	37871	76270	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Methylene Chloride	12DC E	Ave	++++ 166726	3471 350158	16580 736446	32999	66911	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Methyl tert-butyl ether	12DC E	Ave	++++ 1088429	19688 2373039	98956 5313997	202641	411477	++++ 100	2.00 200	10.0 400	20.0	40.0
trans-1,2-Dichloroethene	12DC E	Ave	++++ 169287	3170 355791	15919 766831	32670	65610	++++ 50.0	1.00 100	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.: 680-90122-1 Analy Batch No.: 277091

SDG No.: _____

Instrument ID: MSO2 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2013 16:58 Calibration End Date: 05/16/2013 20:26 Calibration ID: 17916

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
1,1-Dichloroethane	12DC E	Ave	++++ 292955	5540 618189	27701 1363275	58152	115973	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Vinyl acetate	12DC E	Ave	++++ 509416	9848 1039400	47036 2242232	96500	196308	++++ 100	2.00 200	10.0 400	20.0	40.0
2,2-Dichloropropane	12DC E	Ave	++++ 218613	4628 460940	21844 989850	44888	85260	++++ 50.0	1.00 100	5.00 200	10.0	20.0
cis-1,2-Dichloroethene	12DC E	Ave	++++ 187665	3370 400144	17964 873662	35801	72445	++++ 50.0	1.00 100	5.00 200	10.0	20.0
2-Butanone	12DC E	LinF	++++ 205315	5485 436606	19002 895276	39348	77988	++++ 100	2.00 200	10.0 400	20.0	40.0
Bromochloromethane	12DC E	Ave	++++ 185485	3059 380538	15313 811911	35986	60164	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Chloroform	12DC E	Ave	++++ 286492	5436 603871	27853 1310375	57140	113281	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Cyclohexane	DFB	Ave	++++ 277563	4529 586049	26346 1287239	52967	104662	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,1,1-Trichloroethane	DFB	Ave	++++ 272637	4239 602326	23833 1380050	50528	101232	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Carbon tetrachloride	DFB	Ave	++++ 231443	3670 507344	20228 1162547	42992	87057	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,1-Dichloropropene	DFB	Ave	++++ 260689	4061 554095	24288 1201276	51174	101258	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Benzene	DFB	Ave	++++ 694478	13105 1461511	65590 3181229	133924	262799	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,2-Dichloroethane	DFB	Ave	++++ 241199	5026 507736	23267 1079247	47711	94123	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Trichloroethene	DFB	Ave	++++ 200145	3481 427462	18103 974106	38078	76098	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Methylcyclohexane	DFB	Ave	++++ 305263	4945 645733	27431 1443515	58189	116406	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,2-Dichloropropane	DFB	Ave	++++ 202936	3899 428418	19503 924485	40458	79637	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Dibromomethane	DFB	Ave	++++ 124310	2410 260482	11681 573276	23345	47654	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Bromodichloromethane	DFB	Ave	++++ 229911	3989 492679	20481 1101009	42254	84746	++++ 50.0	1.00 100	5.00 200	10.0	20.0
2-Chloroethyl vinyl ether	DFB	Ave	++++ 276038	5184 596737	23297 1308584	50725	105102	++++ 100	2.00 200	10.0 400	20.0	40.0
cis-1,3-Dichloropropene	DFB	Ave	++++ 321797	5725 696522	29214 1539375	59309	121108	++++ 50.0	1.00 100	5.00 200	10.0	20.0
4-Methyl-2-pentanone	DFB	Ave	++++ 466525	8366 1005438	42595 2135454	86820	179201	++++ 100	2.00 200	10.0 400	20.0	40.0

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

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

Analy Batch No.: 277091

SDG No.: _____

Instrument ID: MSO2

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2013 16:58

Calibration End Date: 05/16/2013 20:26

Calibration ID: 17916

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
Toluene	DFB	Ave	++++ 444737	7752 961361	40623 2125437	84185	167282	++++ 50.0	1.00 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	DFB	Ave	++++ 311741	5781 684758	26306 1556910	57816	116457	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	DFB	Ave	++++ 152056	3057 321938	14489 709887	29098	58473	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Tetrachloroethene	CBZ	Ave	++++ 184748	3010 403764	16292 921315	34363	69186	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,3-Dichloropropane	DFB	Ave	++++ 327664	5929 701548	30395 1522403	62008	125855	++++ 50.0	1.00 100	5.00 200	10.0	20.0
2-Hexanone	CBZ	Ave	++++ 355995	6290 758744	30600 1559862	64814	135817	++++ 100	2.00 200	10.0 400	20.0	40.0
Dibromochloromethane	CBZ	Ave	++++ 195422	3370 442936	16913 1035209	33917	71289	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,2-Dibromoethane	DFB	Ave	++++ 193340	3566 417664	16923 925540	35873	73162	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Chlorobenzene	CBZ	Ave	++++ 539295	9452 1166152	47818 2642252	101680	204358	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Ethylbenzene	CBZ	Ave	++++ 946181	14702 2088087	81350 4849459	171678	346349	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	LinF	++++ 199223	3227 455102	16122 1046798	33807	70955	++++ 50.0	1.00 100	5.00 200	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	++++ 764465	12257 1704123	64654 3886102	135892	274902	++++ 100	2.00 200	10.0 400	20.0	40.0
o-Xylene	CBZ	Ave	++++ 365254	6010 804776	32462 1863058	67063	135229	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Styrene	CBZ	Ave	++++ 629679	9289 1357206	52436 3052696	108475	224597	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Bromoform	CBZ	QuaF	++++ 158804	2226 380027	12291 919329	25286	53767	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Isopropylbenzene	CBZ	Ave	++++ 850591	12671 1848709	72841 4309448	153936	312316	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Bromobenzene	CBZ	Ave	++++ 277720	4704 614126	23845 1416370	49565	102340	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	++++ 269907	5149 588826	23992 1272280	50964	101115	++++ 50.0	1.00 100	5.00 200	10.0	20.0
N-Propylbenzene	CBZ	Ave	++++ 286259	4166 638500	24684 1433934	50485	106671	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,2,3-Trichloropropane	CBZ	Ave	++++ 96551	2034 211311	8303 448898	17219	36351	++++ 50.0	1.00 100	5.00 200	10.0	20.0
2-Chlorotoluene	CBZ	Ave	++++ 251116	4077 543099	22654 1227322	45214	93232	++++ 50.0	1.00 100	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.: 680-90122-1

Analy Batch No.: 277091

SDG No.: _____

Instrument ID: MSO2

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2013 16:58

Calibration End Date: 05/16/2013 20:26

Calibration ID: 17916

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
1,3,5-Trimethylbenzene	CBZ	Ave	++++ 847519	12998 1887112	70254 4429388	151776	309468	++++ 50.0	1.00 100	5.00 200	10.0	20.0
4-Chlorotoluene	CBZ	Ave	++++ 257410	3911 558316	22251 1222740	46787	93112	++++ 50.0	1.00 100	5.00 200	10.0	20.0
tert-Butylbenzene	CBZ	Ave	++++ 752669	11318 1675234	63135 3888328	134578	273135	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,2,4-Trimethylbenzene	CBZ	Ave	++++ 839661	13093 1864987	67128 4328068	148905	304975	++++ 50.0	1.00 100	5.00 200	10.0	20.0
sec-Butylbenzene	CBZ	Ave	++++ 1091374	16584 2403954	90338 5658767	195373	398299	++++ 50.0	1.00 100	5.00 200	10.0	20.0
p-Isopropyltoluene	CBZ	LinF	++++ 952184	13225 2229764	72641 5390015	158997	334898	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,3-Dichlorobenzene	CBZ	LinF	++++ 589317	8628 1344067	47635 2974706	102158	209730	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,4-Dichlorobenzene	CBZ	Ave	++++ 552927	8410 1216284	48177 2777041	100026	201270	++++ 50.0	1.00 100	5.00 200	10.0	20.0
n-Butylbenzene	CBZ	LinF	++++ 807980	11024 1791954	63504 4232941	141918	289975	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	CBZ	Ave	++++ 519326	8659 1142102	43627 2608457	92389	192514	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	CBZ	Ave	++++ 67398	1143 151957	5155 336385	11496	23324	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,2,4-Trichlorobenzene	CBZ	LinF	++++ 299525	4623 694245	23546 1654052	51597	110642	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Hexachlorobutadiene	CBZ	Ave	++++ 189614	3080 410907	15656 975941	34192	69937	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Naphthalene	CBZ	LinF	++++ 594238	9012 1374372	43266 3230994	96945	210068	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	CBZ	LinF	++++ 261490	4411 596218	20458 1411090	45169	96083	++++ 50.0	1.00 100	5.00 200	10.0	20.0
1,3-Dichloropropene, Total	DFB	Ave	++++ 633539	11506 1381280	55521 3096285	117125	237565	++++ 100	2.00 200	10.0 400	20.0	40.0
a-Methylstyrene TIC	CBZ	LinF	++++ 472658	6528 1047793	37739 2450809	81091	170639	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Dibromofluoromethane	12DC E	Ave	++++ 174944	3148 377916	15772 838516	33023	66592	++++ 50.0	1.00 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	DFB	Ave	++++ 670469	11100 1450608	60748 3297633	123425	252902	++++ 50.0	1.00 100	5.00 200	10.0	20.0
4-Bromofluorobenzene	CBZ	Ave	++++ 264177	5153 578855	23715 1333898	49016	99028	++++ 50.0	1.00 100	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.: 680-90122-1 Analy Batch No.: 277091

SDG No.: _____

Instrument ID: MSO2 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2013 16:58 Calibration End Date: 05/16/2013 20:26 Calibration ID: 17916

Curve Type Legend:

Ave = Average ISTD LinF = Linear ISTD forced zero QuaF = Quadratic ISTD forced zero

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/2o051613.b/oe1605q.d
 Lab Smp Id: IC;8260-0005 Client Smp ID: 8260-0005
 Inj Date : 16-MAY-2013 16:58
 Operator : JD Inst ID: MSO5973C2.i
 Smp Info : IC;8260-0005=[20051613]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSO5973C2.i/2o051613.b/O-18260BC2-m.m
 Meth Date : 17-May-2013 10:44 ghenassi Quant Type: ISTD
 Cal Date : 16-MAY-2013 16:58 Cal File: oe1605q.d
 Als bottle: 52 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.236	1.236	(0.313)	2848	0.50000	0.64
2 CHLOROMETHANE	50	1.425	1.425	(0.361)	4175	0.50000	1.5
3 VINYL CHLORIDE	62	1.407	1.407	(0.356)	3277	0.50000	0.54
4 BUTADIENE	54	1.425	1.425	(0.361)	2945	0.50000	0.63
5 BROMOMETHANE	96	1.589	1.589	(0.402)	733	0.50000	3.2
6 CHLOROETHANE	64	1.644	1.644	(0.416)	1066	0.50000	0.74
7 TRICHLOROFLUOROMETHANE	101	1.778	1.778	(0.450)	3765	0.50000	0.59
11 TRICHLOROTRIFLUOROETHANE(113)	101	2.088	2.088	(0.529)	1792	0.50000	0.54
13 1 1-DICHLOROETHENE	96	2.118	2.118	(0.536)	2030	0.50000	0.72
14 ACETONE	58	2.197	2.197	(0.556)	943	0.50000	2.7
16 CARBON DISULFIDE	76	2.283	2.283	(0.578)	7004	0.50000	0.75
18 METHYL ACETATE	43	2.386	2.386	(0.604)	3343	0.50000	0.85
20 METHYLENE CHLORIDE	84	2.477	2.477	(0.627)	2265	0.50000	0.72

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.611	2.611	(0.661)	10639	0.50000	1.0
23 trans-1,2-DICHLOROETHENE	96	2.629	2.629	(0.666)	2049	0.50000	0.64
27 1,1-DICHLOROETHANE	63	2.946	2.946	(0.746)	3512	0.50000	0.63
28 VINYL ACETATE	43	2.958	2.958	(0.749)	6490	0.50000	1.4
32 2-BUTANONE	43	3.371	3.371	(0.854)	4464	0.50000	2.3
30 2,2-DICHLOROPROPANE	77	3.335	3.335	(0.844)	2800	0.50000	0.68
31 cis-1,2-DICHLOROETHENE	96	3.359	3.359	(0.851)	2125	0.50000	0.60
34 BROMOCHLOROMETHANE	49	3.530	3.530	(0.894)	1841	0.50000	0.53
37 CHLOROFORM	83	3.566	3.566	(0.903)	3275	0.50000	0.61
§ 40 DIBROMOFLUOROMETHANE	113	3.682	3.682	(0.932)	2210	0.50000	0.67
39 1,1,1-TRICHLOROETHANE	97	3.676	3.676	(0.869)	3220	0.50000	0.60
38 CYCLOHEXANE	56	3.670	3.670	(0.868)	3053	0.50000	0.56
41 CARBON TETRACHLORIDE	117	3.767	3.767	(0.891)	2540	0.50000	0.56
42 1,1-DICHLOROPROPENE	75	3.791	3.791	(0.896)	2817	0.50000	0.55
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.949	3.949	(1.000)	202247	50.00000	
44 BENZENE	78	3.937	3.937	(0.931)	8278	0.50000	0.61
46 1,2-DICHLOROETHANE	62	4.004	4.004	(0.947)	2690	0.50000	0.57
* 48 1,4-DIFLUOROEBENZENE	114	4.229	4.229	(1.000)	575786	50.00000	
49 TRICHLOROETHENE	130	4.400	4.400	(1.040)	2377	0.50000	0.61
51 METHYL CYCLOHEXANE	83	4.491	4.491	(1.062)	3618	0.50000	0.61
52 1,2-DICHLOROPROPANE	63	4.606	4.606	(1.089)	2354	0.50000	0.59
55 DIBROMOMETHANE	93	4.692	4.692	(1.109)	1645	0.50000	0.68
56 BROMODICHLOROMETHANE	83	4.795	4.795	(1.134)	2387	0.50000	0.53
57 2-CHLOROETHYL VINYL ETHER	63	5.020	5.020	(1.187)	2824	0.50000	1.0
58 cis-1,3-DICHLOROPROPENE	75	5.136	5.136	(1.214)	3486	0.50000	0.55
59 4-METHYL-2-PENTANONE (MIBK)	43	5.245	5.245	(1.240)	4657	0.50000	1.0
§ 60 TOLUENE-d8	98	5.300	5.300	(1.253)	7402	0.50000	0.56
61 TOLUENE	92	5.349	5.349	(1.265)	5383	0.50000	0.62
62 trans-1,3-DICHLOROPROPENE	75	5.574	5.574	(1.318)	3578	0.50000	0.58
64 1,1,2-TRICHLOROETHANE	83	5.708	5.708	(1.350)	1750	0.50000	0.59
65 TETRACHLOROETHENE	164	5.744	5.744	(0.892)	1846	0.50000	0.52
66 1,3-DICHLOROPROPANE	76	5.847	5.847	(1.383)	3714	0.50000	0.58
67 2-HEXANONE	43	5.884	5.884	(0.914)	2988	0.50000	0.87
68 DIBROMOCHLOROMETHANE	129	5.993	5.993	(0.931)	1926	0.50000	0.51
69 1,2-DIBROMOETHANE	107	6.103	6.103	(1.443)	2053	0.50000	0.54
* 71 CHLOROBENZENE-d5	82	6.438	6.438	(1.000)	277003	50.00000	
72 CHLOROBENZENE	112	6.462	6.462	(1.004)	5372	0.50000	0.52
73 ETHYL BENZENE	91	6.517	6.517	(1.012)	9778	0.50000	0.54
74 1,1,1,2-TETRACHLOROETHANE	131	6.529	6.529	(1.014)	1819	0.50000	0.47
75 m,p-XYLENE	106	6.614	6.614	(1.027)	7455	0.50000	1.0
76 o-XYLENE	106	6.936	6.936	(1.077)	3613	0.50000	0.52
77 STYRENE	104	6.961	6.961	(1.081)	6064	0.50000	0.50
78 BROMOFORM	173	7.131	7.131	(1.108)	1549	0.50000	0.51
79 ISOPROPYLBENZENE	105	7.222	7.222	(1.122)	8385	0.50000	0.51
§ 81 4-BROMOFLUOROEBENZENE	95	7.387	7.387	(1.147)	3886	0.50000	0.77
82 BROMOBENZENE	156	7.508	7.508	(1.166)	2588	0.50000	0.49
83 1,1,1,2,2-TETRACHLOROETHANE	83	7.526	7.526	(1.169)	2955	0.50000	0.57

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
85 1 2 3-TRICHLOROPROPANE	110	7.581	7.581	(1.178)	886	0.50000	0.48
84 n-PROPYLBENZENE	120	7.557	7.557	(1.174)	2511	0.50000	0.46
87 2-CHLOROTOLUENE	126	7.654	7.654	(1.189)	2418	0.50000	0.50
88 1 3 5-TRIMETHYLBENZENE	105	7.709	7.709	(1.198)	7429	0.50000	0.46
89 4-CHLOROTOLUENE	126	7.752	7.752	(1.204)	2560	0.50000	0.52
90 a-Methylstyrene TIC	118	7.904	7.904	(1.228)	3877	0.50000	0.43(a)
91 tert-BUTYLBENZENE	119	7.965	7.965	(1.237)	7300	0.50000	0.51
93 1 2 4-TRIMETHYLBENZENE	105	8.019	8.019	(1.246)	7983	0.50000	0.50
94 sec-BUTYLBENZENE	105	8.153	8.153	(1.266)	11123	0.50000	0.53
96 1 3-DICHLOROBENZENE	146	8.275	8.275	(1.285)	5273	0.50000	0.47
95 p-ISOPROPYLTOLUENE	119	8.269	8.269	(1.284)	7828	0.50000	0.43
97 1 4-DICHLOROBENZENE	146	8.360	8.360	(1.299)	5588	0.50000	0.53
98 n-BUTYLBENZENE	91	8.609	8.609	(1.337)	6904	0.50000	0.45
99 1 2-DICHLOROBENZENE	146	8.670	8.670	(1.347)	5526	0.50000	0.55
100 1 2-DIBROMO-3-CHLOROPROPANE	157	9.345	9.345	(1.452)	870	0.50000	0.67
101 1 2 4-TRICHLOROBENZENE	180	10.009	10.009	(1.555)	2726	0.50000	0.47
102 HEXACHLOROBUTADIENE	225	10.100	10.100	(1.569)	2064	0.50000	0.57
103 NAPHTHALENE	128	10.221	10.221	(1.588)	7605	0.50000	0.67
104 1 2 3-TRICHLOROBENZENE	180	10.428	10.428	(1.620)	2471	0.50000	0.49
M 105 1,2-DICHLOROETHENE (total)	96				4174	0.50000	1.2
M 106 1,3-DICHLOROPROPENE (total)	75				7064	0.50000	1.1
M 107 XYLENE (total)	106				11068	0.50000	1.5

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: oe1605q.d

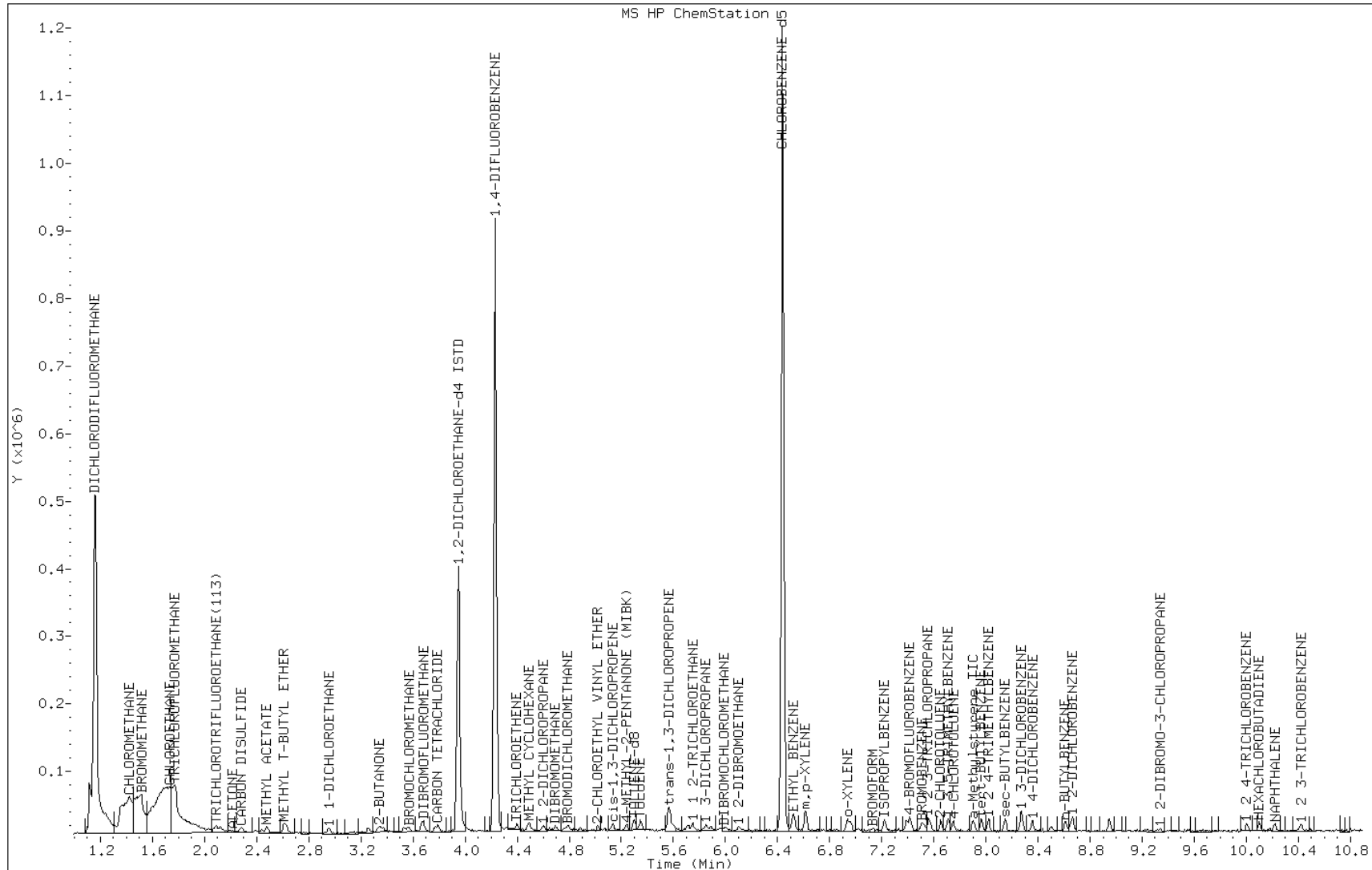
Date: 16-MAY-2013 16:58

Client ID: 8260-0005

Instrument: MS05973C2.i

Sample Info: IC;8260-0005=[20051613]

Operator: JD



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/2o051613.b/oe1607q.d
 Lab Smp Id: IC;8260-001 Client Smp ID: 8260-001
 Inj Date : 16-MAY-2013 17:28
 Operator : JD Inst ID: MSO5973C2.i
 Smp Info : IC;8260-001=[20051613]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSO5973C2.i/2o051613.b/O-18260BC2-m.m
 Meth Date : 17-May-2013 10:44 ghenassi Quant Type: ISTD
 Cal Date : 16-MAY-2013 17:28 Cal File: oe1607q.d
 Als bottle: 53 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.236	1.236	(0.313)	4165	1.00000	0.96
2 CHLOROMETHANE	50	1.419	1.419	(0.359)	7991	1.00000	1.5
3 VINYL CHLORIDE	62	1.407	1.407	(0.356)	6164	1.00000	1.0
4 BUTADIENE	54	1.419	1.419	(0.359)	3859	1.00000	0.90
5 BROMOMETHANE	96	1.583	1.583	(0.401)	674	1.00000	1.5
6 CHLOROETHANE	64	1.638	1.638	(0.415)	2973	1.00000	1.3
7 TRICHLOROFLUOROMETHANE	101	1.772	1.772	(0.449)	5431	1.00000	0.91
11 TRICHLOROTRIFLUOROETHANE(113)	101	2.088	2.088	(0.529)	2674	1.00000	0.89
13 1 1-DICHLOROETHENE	96	2.119	2.119	(0.536)	2612	1.00000	0.96
14 ACETONE	58	2.198	2.198	(0.556)	1249	2.00000	3.5
16 CARBON DISULFIDE	76	2.283	2.283	(0.578)	9645	1.00000	1.0
18 METHYL ACETATE	43	2.386	2.386	(0.604)	5043	1.00000	1.1
20 METHYLENE CHLORIDE	84	2.478	2.478	(0.627)	3471	1.00000	1.0

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.611	2.611	(0.661)	19688	2.00000	1.9
23 trans-1,2-DICHLOROETHENE	96	2.630	2.630	(0.666)	3170	1.00000	0.99
27 1,1-DICHLOROETHANE	63	2.946	2.946	(0.746)	5540	1.00000	1.00
28 VINYL ACETATE	43	2.952	2.952	(0.747)	9848	2.00000	2.0
32 2-BUTANONE	43	3.372	3.372	(0.854)	5485	2.00000	2.3
30 2,2-DICHLOROPROPANE	77	3.335	3.335	(0.844)	4628	1.00000	1.1
31 cis-1,2-DICHLOROETHENE	96	3.354	3.354	(0.849)	3370	1.00000	0.97
34 BROMOCHLOROMETHANE	49	3.530	3.530	(0.894)	3059	1.00000	0.93
37 CHLOROFORM	83	3.566	3.566	(0.903)	5436	1.00000	1.00
§ 40 DIBROMOFLUOROMETHANE	113	3.688	3.688	(0.934)	3148	1.00000	0.97
39 1,1,1-TRICHLOROETHANE	97	3.676	3.676	(0.869)	4239	1.00000	0.89
38 CYCLOHEXANE	56	3.670	3.670	(0.868)	4529	1.00000	0.92
41 CARBON TETRACHLORIDE	117	3.767	3.767	(0.891)	3670	1.00000	0.90
42 1,1-DICHLOROPROPENE	75	3.792	3.792	(0.896)	4061	1.00000	0.89
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.950	3.950	(1.000)	203909	50.00000	
44 BENZENE	78	3.938	3.938	(0.931)	13105	1.00000	0.99
46 1,2-DICHLOROETHANE	62	4.004	4.004	(0.947)	5026	1.00000	1.0
* 48 1,4-DIFLUOROEBENZENE	114	4.230	4.230	(1.000)	570293	50.00000	
49 TRICHLOROETHENE	130	4.400	4.400	(1.040)	3481	1.00000	0.95
51 METHYL CYCLOHEXANE	83	4.491	4.491	(1.062)	4945	1.00000	0.91
52 1,2-DICHLOROPROPANE	63	4.607	4.607	(1.089)	3899	1.00000	1.00
55 DIBROMOMETHANE	93	4.698	4.698	(1.111)	2410	1.00000	1.0
56 BROMODICHLOROMETHANE	83	4.795	4.795	(1.134)	3989	1.00000	0.94
57 2-CHLOROETHYL VINYL ETHER	63	5.020	5.020	(1.187)	5184	2.00000	2.0
58 cis-1,3-DICHLOROPROPENE	75	5.136	5.136	(1.214)	5725	1.00000	0.95
59 4-METHYL-2-PENTANONE (MIBK)	43	5.239	5.239	(1.239)	8366	2.00000	1.9
§ 60 TOLUENE-d8	98	5.300	5.300	(1.253)	11100	1.00000	0.92
61 TOLUENE	92	5.349	5.349	(1.265)	7752	1.00000	0.95
62 trans-1,3-DICHLOROPROPENE	75	5.574	5.574	(1.318)	5781	1.00000	0.98
64 1,1,2-TRICHLOROETHANE	83	5.714	5.714	(1.351)	3057	1.00000	1.0
65 TETRACHLOROETHENE	164	5.744	5.744	(0.892)	3010	1.00000	0.93
66 1,3-DICHLOROPROPANE	76	5.848	5.848	(1.383)	5929	1.00000	0.96
67 2-HEXANONE	43	5.890	5.890	(0.915)	6290	2.00000	1.9
68 DIBROMOCHLOROMETHANE	129	6.000	6.000	(0.932)	3370	1.00000	0.96
69 1,2-DIBROMOETHANE	107	6.103	6.103	(1.443)	3566	1.00000	0.98
* 71 CHLOROBENZENE-d5	82	6.438	6.438	(1.000)	271401	50.00000	
72 CHLOROBENZENE	112	6.462	6.462	(1.004)	9452	1.00000	0.96
73 ETHYL BENZENE	91	6.517	6.517	(1.012)	14702	1.00000	0.90
74 1,1,1,2-TETRACHLOROETHANE	131	6.529	6.529	(1.014)	3227	1.00000	0.92
75 m,p-XYLENE	106	6.614	6.614	(1.027)	12257	2.00000	1.8
76 o-XYLENE	106	6.937	6.937	(1.077)	6010	1.00000	0.93
77 STYRENE	104	6.961	6.961	(1.081)	9289	1.00000	0.88
78 BROMOFORM	173	7.131	7.131	(1.108)	2226	1.00000	0.86
79 ISOPROPYLBENZENE	105	7.223	7.223	(1.122)	12671	1.00000	0.88
§ 81 4-BROMOFLUOROBENZENE	95	7.393	7.393	(1.148)	5153	1.00000	1.0
82 BROMOBENZENE	156	7.509	7.509	(1.166)	4704	1.00000	0.95
83 1,1,2,2-TETRACHLOROETHANE	83	7.527	7.527	(1.169)	5149	1.00000	1.0

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
85 1 2 3-TRICHLOROPROPANE	110	7.575	7.575	(1.177)	2034	1.00000	1.1
84 n-PROPYLBENZENE	120	7.563	7.563	(1.175)	4166	1.00000	0.87
87 2-CHLOROTOLUENE	126	7.655	7.655	(1.189)	4077	1.00000	0.93
88 1 3 5-TRIMETHYLBENZENE	105	7.709	7.709	(1.197)	12998	1.00000	0.90
89 4-CHLOROTOLUENE	126	7.752	7.752	(1.204)	3911	1.00000	0.89
90 a-Methylstyrene TIC	118	7.904	7.904	(1.228)	6528	1.00000	0.85(a)
91 tert-BUTYLBENZENE	119	7.965	7.965	(1.237)	11318	1.00000	0.89
93 1 2 4-TRIMETHYLBENZENE	105	8.020	8.020	(1.246)	13093	1.00000	0.91
94 sec-BUTYLBENZENE	105	8.147	8.147	(1.266)	16584	1.00000	0.89
96 1 3-DICHLOROBENZENE	146	8.275	8.275	(1.285)	8628	1.00000	0.88
95 p-ISOPROPYLTOLUENE	119	8.269	8.269	(1.284)	13225	1.00000	0.85
97 1 4-DICHLOROBENZENE	146	8.360	8.360	(1.299)	8410	1.00000	0.89
98 n-BUTYLBENZENE	91	8.610	8.610	(1.337)	11024	1.00000	0.84
99 1 2-DICHLOROBENZENE	146	8.670	8.670	(1.347)	8659	1.00000	0.94
100 1 2-DIBROMO-3-CHLOROPROPANE	157	9.346	9.346	(1.452)	1143	1.00000	0.95
101 1 2 4-TRICHLOROBENZENE	180	10.009	10.009	(1.555)	4623	1.00000	0.90
102 HEXACHLOROBUTADIENE	225	10.100	10.100	(1.569)	3080	1.00000	0.93
103 NAPHTHALENE	128	10.216	10.216	(1.587)	9012	1.00000	0.89
104 1 2 3-TRICHLOROBENZENE	180	10.422	10.422	(1.619)	4411	1.00000	0.95
M 105 1,2-DICHLOROETHENE (total)	96				6541	2.00000	2.0
M 106 1,3-DICHLOROPROPENE (total)	75				11506	2.00000	1.9
M 107 XYLENE (total)	106				18267	3.00000	2.8

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: oe1607q.d

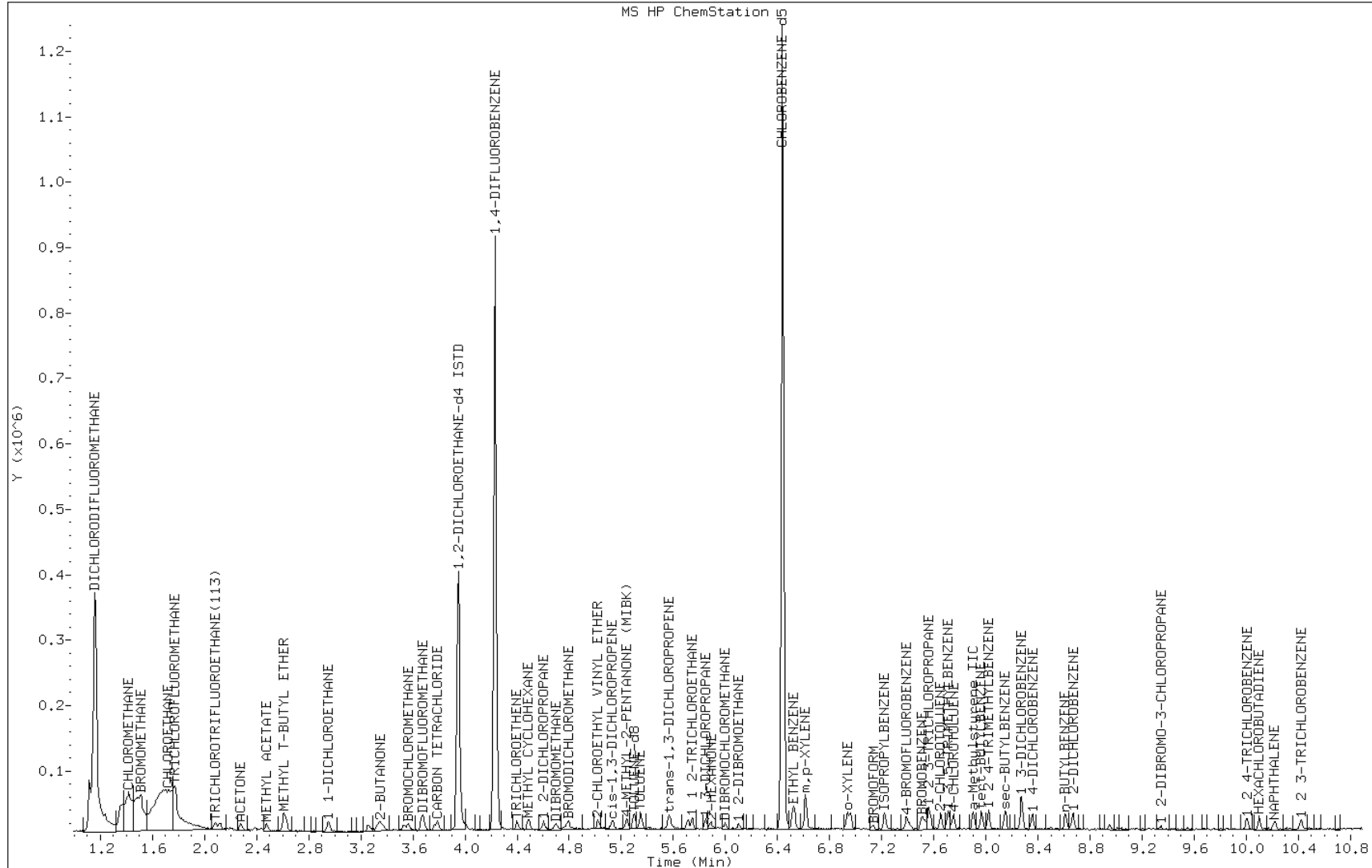
Date: 16-MAY-2013 17:28

Client ID: 8260-001

Instrument: MS05973C2.i

Sample Info: IC;8260-001=[20051613]

Operator: JD



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/2o051613.b/oe1609q.d
Lab Smp Id: IC;8260-005 Client Smp ID: 8260-005
Inj Date : 16-MAY-2013 17:58
Operator : JD Inst ID: MSO5973C2.i
Smp Info : IC;8260-005=[20051613]
Misc Info :
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSO5973C2.i/2o051613.b/O-18260BC2-m.m
Meth Date : 17-May-2013 11:21 criegner Quant Type: ISTD
Cal Date : 16-MAY-2013 17:58 Cal File: oe1609q.d
Als bottle: 54 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
1 DICHLORODIFLUOROMETHANE	85	1.233	1.233 (0.312)	22973	5.00000	5.1	
2 CHLOROMETHANE	50	1.421	1.421 (0.360)	34184	5.00000	8.8	
3 VINYL CHLORIDE	62	1.403	1.403 (0.355)	27210	5.00000	4.7	
4 BUTADIENE	54	1.421	1.421 (0.360)	22734	5.00000	5.0	
5 BROMOMETHANE	96	1.579	1.579 (0.400)	1103	5.00000	3.9	
6 CHLOROETHANE	64	1.640	1.640 (0.415)	9467	5.00000	7.0	
7 TRICHLOROFLUOROMETHANE	101	1.774	1.774 (0.449)	32838	5.00000	5.1	
11 TRICHLOROTRIFLUOROETHANE(113)	101	2.084	2.084 (0.527)	16654	5.00000	5.1	
13 1 1-DICHLOROETHENE	96	2.121	2.121 (0.537)	13833	5.00000	4.9	
14 ACETONE	58	2.194	2.194 (0.555)	3678	10.00000	10	
16 CARBON DISULFIDE	76	2.279	2.279 (0.577)	46228	5.00000	4.9	
18 METHYL ACETATE	43	2.382	2.382 (0.603)	21005	5.00000	5.1	
20 METHYLENE CHLORIDE	84	2.480	2.480 (0.627)	16580	5.00000	5.0	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.608	2.608	(0.660)	98956	10.0000	9.5
23 trans-1,2-DICHLOROETHENE	96	2.626	2.626	(0.664)	15919	5.00000	4.9
27 1,1-DICHLOROETHANE	63	2.948	2.948	(0.746)	27701	5.00000	4.9
28 VINYL ACETATE	43	2.954	2.954	(0.748)	47036	10.0000	9.7
32 2-BUTANONE	43	3.374	3.374	(0.854)	19002	10.0000	9.7
30 2,2-DICHLOROPROPANE	77	3.331	3.331	(0.843)	21844	5.00000	5.0
31 cis-1,2-DICHLOROETHENE	96	3.356	3.356	(0.849)	17964	5.00000	5.0
34 BROMOCHLOROMETHANE	49	3.526	3.526	(0.892)	15313	5.00000	4.6
37 CHLOROFORM	83	3.563	3.563	(0.901)	27853	5.00000	5.0
§ 40 DIBROMOFLUOROMETHANE	113	3.684	3.684	(0.932)	15772	5.00000	4.7
39 1,1,1-TRICHLOROETHANE	97	3.678	3.678	(0.869)	23833	5.00000	4.6
38 CYCLOHEXANE	56	3.666	3.666	(0.866)	26346	5.00000	5.0
41 CARBON TETRACHLORIDE	117	3.769	3.769	(0.891)	20228	5.00000	4.6
42 1,1-DICHLOROPROPENE	75	3.794	3.794	(0.896)	24288	5.00000	4.9
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.952	3.952	(1.000)	204395	50.0000	
44 BENZENE	78	3.940	3.940	(0.931)	65590	5.00000	4.9
46 1,2-DICHLOROETHANE	62	4.007	4.007	(0.947)	23267	5.00000	4.9
* 48 1,4-DIFLUOROEBENZENE	114	4.232	4.232	(1.000)	574065	50.0000	
49 TRICHLOROETHENE	130	4.402	4.402	(1.040)	18103	5.00000	4.7
51 METHYL CYCLOHEXANE	83	4.487	4.487	(1.060)	27431	5.00000	4.7
52 1,2-DICHLOROPROPANE	63	4.603	4.603	(1.088)	19503	5.00000	4.9
55 DIBROMOMETHANE	93	4.694	4.694	(1.109)	11681	5.00000	4.8
56 BROMODICHLOROMETHANE	83	4.798	4.798	(1.134)	20481	5.00000	4.7
57 2-CHLOROETHYL VINYL ETHER	63	5.023	5.023	(1.187)	23297	10.0000	8.8
58 cis-1,3-DICHLOROPROPENE	75	5.132	5.132	(1.213)	29214	5.00000	4.7
59 4-METHYL-2-PENTANONE (MIBK)	43	5.242	5.242	(1.239)	42595	10.0000	9.5
§ 60 TOLUENE-d8	98	5.303	5.303	(1.253)	60748	5.00000	4.7
61 TOLUENE	92	5.351	5.351	(1.264)	40623	5.00000	4.7
62 trans-1,3-DICHLOROPROPENE	75	5.570	5.570	(1.316)	26306	5.00000	4.4
64 1,1,2-TRICHLOROETHANE	83	5.716	5.716	(1.351)	14489	5.00000	4.8
65 TETRACHLOROETHENE	164	5.747	5.747	(0.892)	16292	5.00000	4.7
66 1,3-DICHLOROPROPANE	76	5.850	5.850	(1.382)	30395	5.00000	4.8
67 2-HEXANONE	43	5.887	5.887	(0.914)	30600	10.0000	9.2
68 DIBROMOCHLOROMETHANE	129	5.996	5.996	(0.931)	16913	5.00000	4.5
69 1,2-DIBROMOETHANE	107	6.106	6.106	(1.443)	16923	5.00000	4.5
* 71 CHLOROBENZENE-d5	82	6.440	6.440	(1.000)	278546	50.0000	
72 CHLOROBENZENE	112	6.464	6.464	(1.004)	47818	5.00000	4.6
73 ETHYL BENZENE	91	6.519	6.519	(1.012)	81350	5.00000	4.6
74 1,1,1,2-TETRACHLOROETHANE	131	6.531	6.531	(1.014)	16122	5.00000	3.6
75 m,p-XYLENE	106	6.617	6.617	(1.027)	64654	10.0000	9.0
76 o-XYLENE	106	6.939	6.939	(1.077)	32462	5.00000	4.7
77 STYRENE	104	6.963	6.963	(1.081)	52436	5.00000	4.6
78 BROMOFORM	173	7.134	7.134	(1.108)	12291	5.00000	3.1
79 ISOPROPYLBENZENE	105	7.225	7.225	(1.122)	72841	5.00000	4.6
§ 81 4-BROMOFLUOROEBENZENE	95	7.389	7.389	(1.147)	23715	5.00000	4.6
82 BROMOBENZENE	156	7.511	7.511	(1.166)	23845	5.00000	4.5
83 1,1,2,2-TETRACHLOROETHANE	83	7.529	7.529	(1.169)	23992	5.00000	4.6

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
85 1 2 3-TRICHLOROPROPANE	110	7.578	7.578	(1.177)	8303	5.00000	4.5
84 n-PROPYLBENZENE	120	7.559	7.559	(1.174)	24684	5.00000	4.6
87 2-CHLOROTOLUENE	126	7.657	7.657	(1.189)	22654	5.00000	4.8
88 1 3 5-TRIMETHYLBENZENE	105	7.712	7.712	(1.197)	70254	5.00000	4.4
89 4-CHLOROTOLUENE	126	7.754	7.754	(1.204)	22251	5.00000	4.7
90 a-Methylstyrene TIC	118	7.906	7.906	(1.228)	37739	5.00000	3.6(a)
91 tert-BUTYLBENZENE	119	7.967	7.967	(1.237)	63135	5.00000	4.5
93 1 2 4-TRIMETHYLBENZENE	105	8.022	8.022	(1.246)	67128	5.00000	4.3
94 sec-BUTYLBENZENE	105	8.150	8.150	(1.265)	90338	5.00000	4.4
96 1 3-DICHLOROBENZENE	146	8.277	8.277	(1.285)	47635	5.00000	3.7
95 p-ISOPROPYLTOLUENE	119	8.271	8.271	(1.284)	72641	5.00000	3.2
97 1 4-DICHLOROBENZENE	146	8.356	8.356	(1.298)	48177	5.00000	4.7
98 n-BUTYLBENZENE	91	8.612	8.612	(1.337)	63504	5.00000	3.5
99 1 2-DICHLOROBENZENE	146	8.673	8.673	(1.347)	43627	5.00000	4.5
100 1 2-DIBROMO-3-CHLOROPROPANE	157	9.348	9.348	(1.452)	5155	5.00000	4.2
101 1 2 4-TRICHLOROBENZENE	180	10.005	10.005	(1.554)	23546	5.00000	3.3
102 HEXACHLOROBUTADIENE	225	10.102	10.102	(1.569)	15656	5.00000	4.4
103 NAPHTHALENE	128	10.218	10.218	(1.587)	43266	5.00000	3.1
104 1 2 3-TRICHLOROBENZENE	180	10.425	10.425	(1.619)	20458	5.00000	3.4
M 105 1,2-DICHLOROETHENE (total)	96				33883	10.0000	9.9
M 106 1,3-DICHLOROPROPENE (total)	75				55521	10.0000	9.1
M 107 XYLENE (total)	106				97116	15.0000	14

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: oe1609q.d

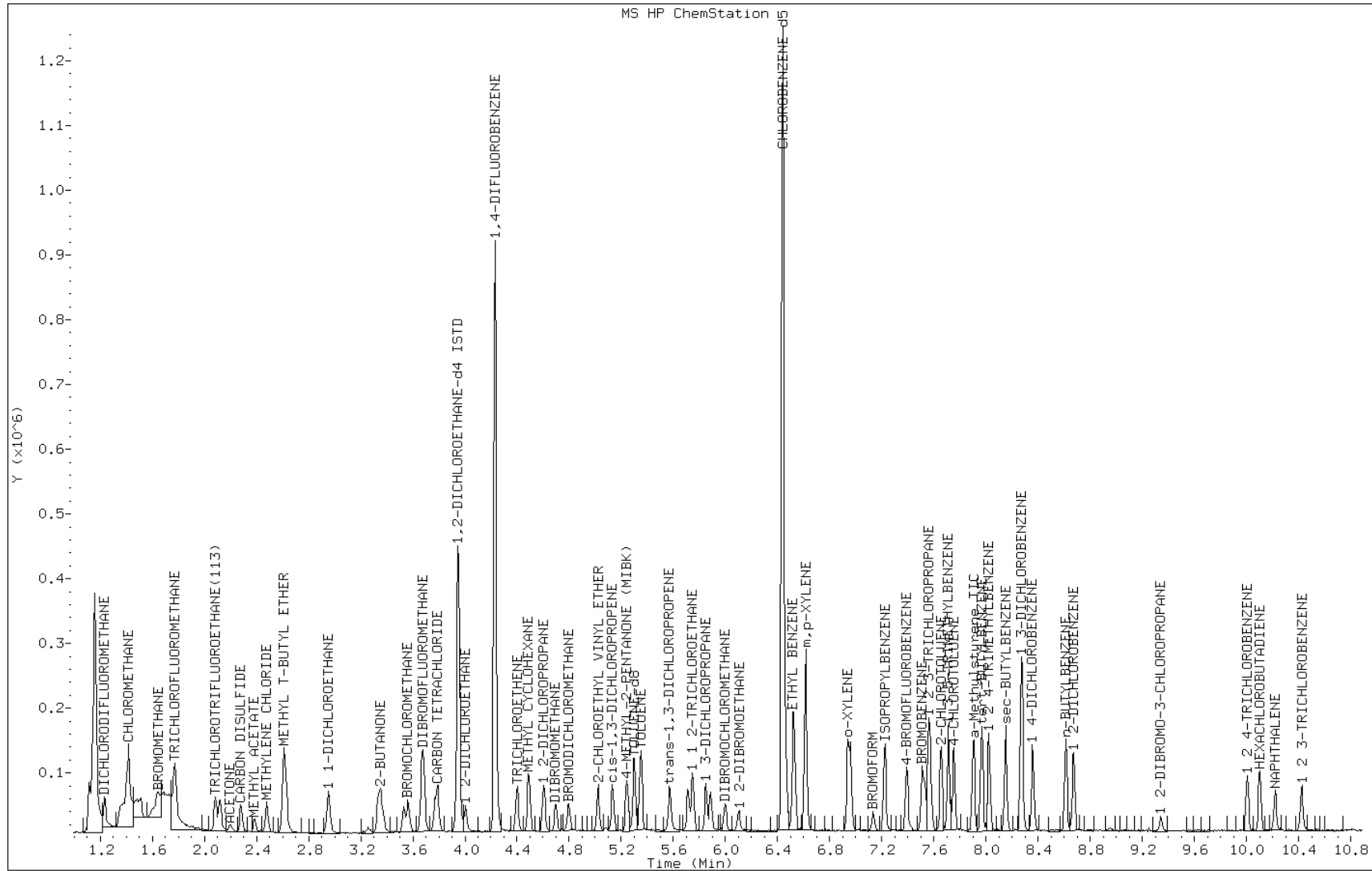
Date: 16-MAY-2013 17:58

Client ID: 8260-005

Instrument: MS05973C2.i

Sample Info: IC;8260-005=[20051613]

Operator: JD



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/2o051613.b/oe1611q.d
Lab Smp Id: IC;8260-010 Client Smp ID: 8260-010
Inj Date : 16-MAY-2013 18:28
Operator : JD Inst ID: MSO5973C2.i
Smp Info : IC;8260-010=[20051613]
Misc Info :
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSO5973C2.i/2o051613.b/O-18260BC2-m.m
Meth Date : 17-May-2013 11:21 criegner Quant Type: ISTD
Cal Date : 16-MAY-2013 18:28 Cal File: oe1611q.d
Als bottle: 55 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.236	1.236	(0.313)	47410	10.0000	10
2 CHLOROMETHANE	50	1.419	1.419	(0.359)	64233	10.0000	16
3 VINYL CHLORIDE	62	1.407	1.407	(0.356)	58254	10.0000	9.8
4 BUTADIENE	54	1.419	1.419	(0.359)	47689	10.0000	10
5 BROMOMETHANE	96	1.583	1.583	(0.401)	2329	10.0000	8.0
6 CHLOROETHANE	64	1.644	1.644	(0.416)	16856	10.0000	12
7 TRICHLOROFLUOROMETHANE	101	1.778	1.778	(0.450)	70465	10.0000	11
11 TRICHLOROTRIFLUOROETHANE(113)	101	2.088	2.088	(0.529)	34806	10.0000	10
13 1 1-DICHLOROETHENE	96	2.125	2.125	(0.538)	28426	10.0000	9.9
14 ACETONE	58	2.204	2.204	(0.558)	7206	20.0000	20
16 CARBON DISULFIDE	76	2.283	2.283	(0.578)	96041	10.0000	9.9
18 METHYL ACETATE	43	2.386	2.386	(0.604)	37871	10.0000	9.0
20 METHYLENE CHLORIDE	84	2.478	2.478	(0.627)	32999	10.0000	9.9

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.611	2.611	(0.661)	202641	20.0000	19
23 trans-1,2-DICHLOROETHENE	96	2.630	2.630	(0.666)	32670	10.0000	9.9
27 1,1-DICHLOROETHANE	63	2.946	2.946	(0.746)	58152	10.0000	10
28 VINYL ACETATE	43	2.958	2.958	(0.749)	96500	20.0000	20
32 2-BUTANONE	43	3.372	3.372	(0.854)	39348	20.0000	20
30 2,2-DICHLOROPROPANE	77	3.335	3.335	(0.844)	44888	10.0000	10
31 cis-1,2-DICHLOROETHENE	96	3.354	3.354	(0.849)	35801	10.0000	9.8
34 BROMOCHLOROMETHANE	49	3.530	3.530	(0.894)	35986	10.0000	11
37 CHLOROFORM	83	3.566	3.566	(0.903)	57140	10.0000	10
§ 40 DIBROMOFLUOROMETHANE	113	3.688	3.688	(0.934)	33023	10.0000	9.7
39 1,1,1-TRICHLOROETHANE	97	3.682	3.682	(0.871)	50528	10.0000	9.6
38 CYCLOHEXANE	56	3.670	3.670	(0.868)	52967	10.0000	9.9
41 CARBON TETRACHLORIDE	117	3.767	3.767	(0.891)	42992	10.0000	9.6
42 1,1-DICHLOROPROPENE	75	3.792	3.792	(0.896)	51174	10.0000	10
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.950	3.950	(1.000)	207832	50.0000	
44 BENZENE	78	3.944	3.944	(0.932)	133924	10.0000	9.8
46 1,2-DICHLOROETHANE	62	4.004	4.004	(0.947)	47711	10.0000	9.9
* 48 1,4-DIFLUOROEBENZENE	114	4.230	4.230	(1.000)	579094	50.0000	
49 TRICHLOROETHENE	130	4.400	4.400	(1.040)	38078	10.0000	9.8
51 METHYL CYCLOHEXANE	83	4.491	4.491	(1.062)	58189	10.0000	9.9
52 1,2-DICHLOROPROPANE	63	4.607	4.607	(1.089)	40458	10.0000	10
55 DIBROMOMETHANE	93	4.692	4.692	(1.109)	23345	10.0000	9.6
56 BROMODICHLOROMETHANE	83	4.795	4.795	(1.134)	42254	10.0000	9.6
57 2-CHLOROETHYL VINYL ETHER	63	5.020	5.020	(1.187)	50725	20.0000	19
58 cis-1,3-DICHLOROPROPENE	75	5.136	5.136	(1.214)	59309	10.0000	9.5
59 4-METHYL-2-PENTANONE (MIBK)	43	5.239	5.239	(1.239)	86820	20.0000	19
§ 60 TOLUENE-d8	98	5.300	5.300	(1.253)	123425	10.0000	9.5
61 TOLUENE	92	5.349	5.349	(1.265)	84185	10.0000	9.7
62 trans-1,3-DICHLOROPROPENE	75	5.574	5.574	(1.318)	57816	10.0000	9.5
64 1,1,2-TRICHLOROETHANE	83	5.714	5.714	(1.351)	29098	10.0000	9.6
65 TETRACHLOROETHENE	164	5.750	5.750	(0.893)	34363	10.0000	9.6
66 1,3-DICHLOROPROPANE	76	5.848	5.848	(1.383)	62008	10.0000	9.7
67 2-HEXANONE	43	5.884	5.884	(0.914)	64814	20.0000	19
68 DIBROMOCHLOROMETHANE	129	6.000	6.000	(0.932)	33917	10.0000	8.9
69 1,2-DIBROMOETHANE	107	6.103	6.103	(1.443)	35873	10.0000	9.5
* 71 CHLOROBENZENE-d5	82	6.438	6.438	(1.000)	285368	50.0000	
72 CHLOROBENZENE	112	6.462	6.462	(1.004)	101680	10.0000	9.6
73 ETHYL BENZENE	91	6.523	6.523	(1.013)	171678	10.0000	9.4
74 1,1,1,2-TETRACHLOROETHANE	131	6.529	6.529	(1.014)	33807	10.0000	7.3
75 m,p-XYLENE	106	6.614	6.614	(1.027)	135892	20.0000	19
76 o-XYLENE	106	6.937	6.937	(1.077)	67063	10.0000	9.4
77 STYRENE	104	6.961	6.961	(1.081)	108475	10.0000	9.3
78 BROMOFORM	173	7.131	7.131	(1.108)	25286	10.0000	6.3
79 ISOPROPYLBENZENE	105	7.223	7.223	(1.122)	153936	10.0000	9.5
§ 81 4-BROMOFLUOROBENZENE	95	7.393	7.393	(1.148)	49016	10.0000	9.3
82 BROMOBENZENE	156	7.509	7.509	(1.166)	49565	10.0000	9.2
83 1,1,2,2-TETRACHLOROETHANE	83	7.533	7.533	(1.170)	50964	10.0000	9.6

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
85 1 2 3-TRICHLOROPROPANE	110	7.575	7.575	(1.177)	17219	10.0000	9.0
84 n-PROPYLBENZENE	120	7.563	7.563	(1.175)	50485	10.0000	9.3
87 2-CHLOROTOLUENE	126	7.655	7.655	(1.189)	45214	10.0000	9.3
88 1 3 5-TRIMETHYLBENZENE	105	7.709	7.709	(1.197)	151776	10.0000	9.3
89 4-CHLOROTOLUENE	126	7.752	7.752	(1.204)	46787	10.0000	9.6
90 a-Methylstyrene TIC	118	7.904	7.904	(1.228)	81091	10.0000	7.5
91 tert-BUTYLBENZENE	119	7.971	7.971	(1.238)	134578	10.0000	9.4
93 1 2 4-TRIMETHYLBENZENE	105	8.020	8.020	(1.246)	148905	10.0000	9.3
94 sec-BUTYLBENZENE	105	8.153	8.153	(1.266)	195373	10.0000	9.4
96 1 3-DICHLOROBENZENE	146	8.275	8.275	(1.285)	102158	10.0000	7.7
95 p-ISOPROPYLTOLUENE	119	8.269	8.269	(1.284)	158997	10.0000	6.8
97 1 4-DICHLOROBENZENE	146	8.360	8.360	(1.299)	100026	10.0000	9.5
98 n-BUTYLBENZENE	91	8.616	8.616	(1.338)	141918	10.0000	7.6
99 1 2-DICHLOROBENZENE	146	8.670	8.670	(1.347)	92389	10.0000	9.2
100 1 2-DIBROMO-3-CHLOROPROPANE	157	9.346	9.346	(1.452)	11496	10.0000	9.1
101 1 2 4-TRICHLOROBENZENE	180	10.009	10.009	(1.555)	51597	10.0000	7.1
102 HEXACHLOROBUTADIENE	225	10.100	10.100	(1.569)	34192	10.0000	9.4
103 NAPHTHALENE	128	10.222	10.222	(1.588)	96945	10.0000	6.8
104 1 2 3-TRICHLOROBENZENE	180	10.423	10.423	(1.619)	45169	10.0000	7.3
M 105 1,2-DICHLOROETHENE (total)	96				68472	20.0000	20
M 106 1,3-DICHLOROPROPENE (total)	75				117125	20.0000	19
M 107 XYLENE (total)	106				202955	30.0000	28

Data File: oe1611q.d

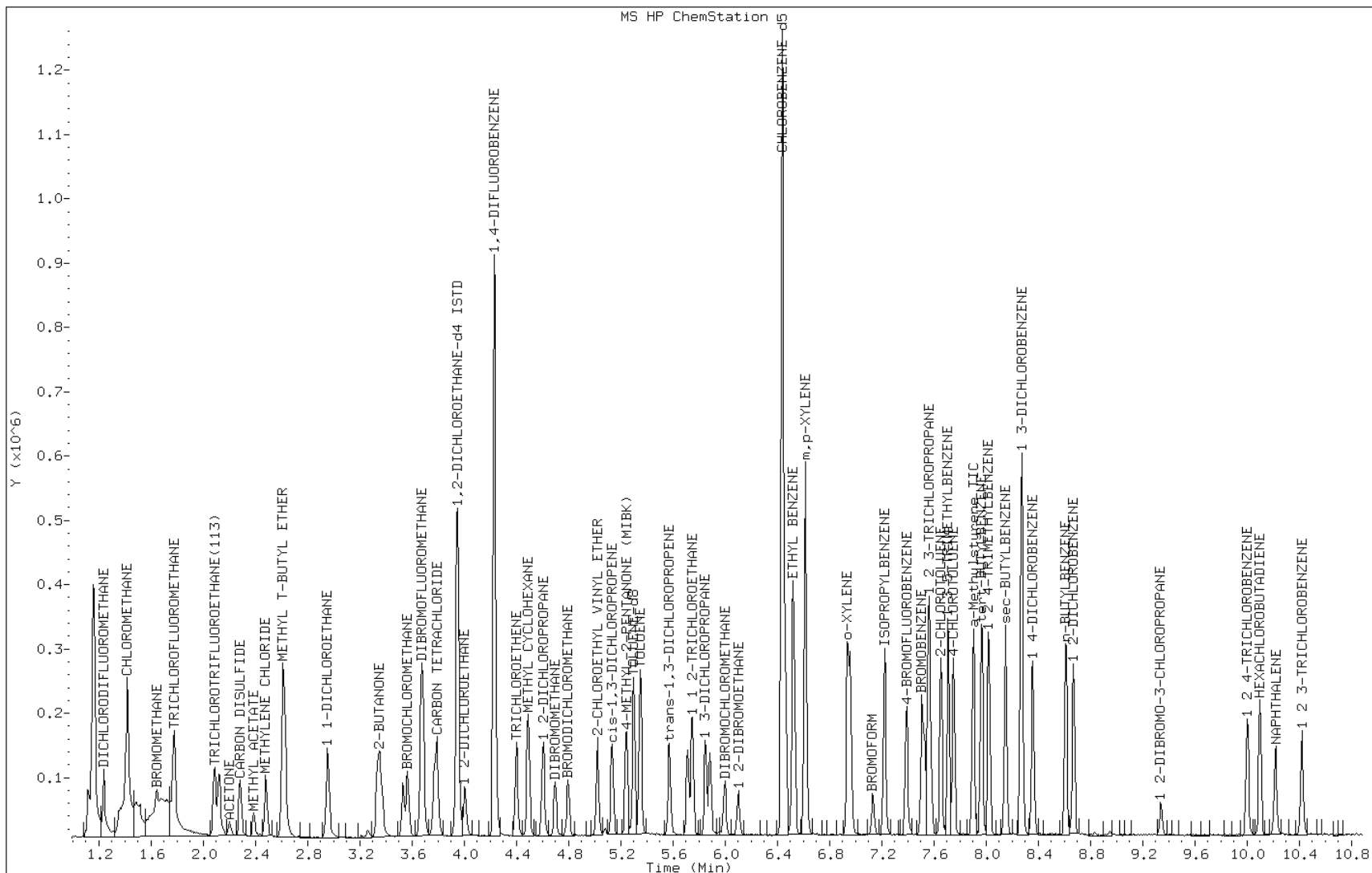
Date: 16-MAY-2013 18:28

Client ID: 8260-010

Instrument: MS05973C2.i

Sample Info: IC;8260-010=[20051613]

Operator: JD



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/2o051613.b/oe1613q.d
 Lab Smp Id: IC;8260-020 Client Smp ID: 8260-020
 Inj Date : 16-MAY-2013 18:57
 Operator : JD Inst ID: MSO5973C2.i
 Smp Info : IC;8260-020=[20051613]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSO5973C2.i/2o051613.b/O-18260BC2-m.m
 Meth Date : 17-May-2013 11:21 criegner Quant Type: ISTD
 Cal Date : 16-MAY-2013 18:57 Cal File: oe1613q.d
 Als bottle: 56 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.236	1.236	(0.313)	93636	20.0000	21
2 CHLOROMETHANE	50	1.419	1.419	(0.359)	129016	20.0000	33
3 VINYL CHLORIDE	62	1.406	1.406	(0.356)	117204	20.0000	20
4 BUTADIENE	54	1.425	1.425	(0.361)	96978	20.0000	21
5 BROMOMETHANE	96	1.583	1.583	(0.401)	3617	20.0000	13
6 CHLOROETHANE	64	1.644	1.644	(0.416)	32011	20.0000	23
7 TRICHLOROFLUOROMETHANE	101	1.778	1.778	(0.450)	138744	20.0000	22
11 TRICHLOROTRIFLUOROETHANE(113)	101	2.088	2.088	(0.529)	68631	20.0000	21
13 1 1-DICHLOROETHENE	96	2.124	2.124	(0.538)	57822	20.0000	20
14 ACETONE	58	2.203	2.203	(0.558)	14719	40.0000	40
16 CARBON DISULFIDE	76	2.282	2.282	(0.578)	191114	20.0000	20
18 METHYL ACETATE	43	2.386	2.386	(0.604)	76270	20.0000	18
20 METHYLENE CHLORIDE	84	2.483	2.483	(0.629)	66911	20.0000	20

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.611	2.611	(0.661)	411477	40.0000	39
23 trans-1,2-DICHLOROETHENE	96	2.629	2.629	(0.666)	65610	20.0000	20
27 1,1-DICHLOROETHANE	63	2.952	2.952	(0.747)	115973	20.0000	20
28 VINYL ACETATE	43	2.958	2.958	(0.749)	196308	40.0000	40
32 2-BUTANONE	43	3.371	3.371	(0.854)	77988	40.0000	40
30 2,2-DICHLOROPROPANE	77	3.335	3.335	(0.844)	85260	20.0000	20
31 cis-1,2-DICHLOROETHENE	96	3.353	3.353	(0.849)	72445	20.0000	20
34 BROMOCHLOROMETHANE	49	3.530	3.530	(0.894)	60164	20.0000	18
37 CHLOROFORM	83	3.566	3.566	(0.903)	113281	20.0000	20
§ 40 DIBROMOFLUOROMETHANE	113	3.688	3.688	(0.934)	66592	20.0000	20
39 1,1,1-TRICHLOROETHANE	97	3.676	3.676	(0.868)	101232	20.0000	19
38 CYCLOHEXANE	56	3.669	3.669	(0.866)	104662	20.0000	20
41 CARBON TETRACHLORIDE	117	3.767	3.767	(0.889)	87057	20.0000	20
42 1,1-DICHLOROPROPENE	75	3.791	3.791	(0.895)	101258	20.0000	20
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.949	3.949	(1.000)	204942	50.0000	
44 BENZENE	78	3.943	3.943	(0.931)	262799	20.0000	19
46 1,2-DICHLOROETHANE	62	4.004	4.004	(0.945)	94123	20.0000	20
* 48 1,4-DIFLUOROBENZENE	114	4.235	4.235	(1.000)	577221	50.0000	
49 TRICHLOROETHENE	130	4.399	4.399	(1.039)	76098	20.0000	20
51 METHYL CYCLOHEXANE	83	4.491	4.491	(1.060)	116406	20.0000	20
52 1,2-DICHLOROPROPANE	63	4.606	4.606	(1.088)	79637	20.0000	20
55 DIBROMOMETHANE	93	4.698	4.698	(1.109)	47654	20.0000	20
56 BROMODICHLOROMETHANE	83	4.795	4.795	(1.132)	84746	20.0000	19
57 2-CHLOROETHYL VINYL ETHER	63	5.020	5.020	(1.185)	105102	40.0000	39
58 cis-1,3-DICHLOROPROPENE	75	5.136	5.136	(1.213)	121108	20.0000	19
59 4-METHYL-2-PENTANONE (MIBK)	43	5.239	5.239	(1.237)	179201	40.0000	40
§ 60 TOLUENE-d8	98	5.300	5.300	(1.251)	252902	20.0000	20
61 TOLUENE	92	5.348	5.348	(1.263)	167282	20.0000	19
62 trans-1,3-DICHLOROPROPENE	75	5.574	5.574	(1.316)	116457	20.0000	19
64 1,1,2-TRICHLOROETHANE	83	5.714	5.714	(1.349)	58473	20.0000	19
65 TETRACHLOROETHENE	164	5.750	5.750	(0.893)	69186	20.0000	20
66 1,3-DICHLOROPROPANE	76	5.847	5.847	(1.381)	125855	20.0000	20
67 2-HEXANONE	43	5.884	5.884	(0.914)	135817	40.0000	41
68 DIBROMOCHLOROMETHANE	129	5.999	5.999	(0.932)	71289	20.0000	19
69 1,2-DIBROMOETHANE	107	6.103	6.103	(1.441)	73162	20.0000	20
* 71 CHLOROBENZENE-d5	82	6.437	6.437	(1.000)	280497	50.0000	
72 CHLOROBENZENE	112	6.462	6.462	(1.004)	204358	20.0000	20
73 ETHYL BENZENE	91	6.523	6.523	(1.013)	346349	20.0000	19
74 1,1,1,2-TETRACHLOROETHANE	131	6.529	6.529	(1.014)	70955	20.0000	16
75 m,p-XYLENE	106	6.614	6.614	(1.027)	274902	40.0000	38
76 o-XYLENE	106	6.936	6.936	(1.077)	135229	20.0000	19
77 STYRENE	104	6.961	6.961	(1.081)	224597	20.0000	20
78 BROMOFORM	173	7.131	7.131	(1.108)	53767	20.0000	14
79 ISOPROPYLBENZENE	105	7.222	7.222	(1.122)	312316	20.0000	20
§ 81 4-BROMOFLUOROBENZENE	95	7.393	7.393	(1.148)	99028	20.0000	19
82 BROMOBENZENE	156	7.508	7.508	(1.166)	102340	20.0000	19
83 1,1,2,2-TETRACHLOROETHANE	83	7.532	7.532	(1.170)	101115	20.0000	19

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
85 1 2 3-TRICHLOROPROPANE	110	7.575	7.575	(1.177)	36351	20.0000	19
84 n-PROPYLBENZENE	120	7.563	7.563	(1.175)	106671	20.0000	20
87 2-CHLOROTOLUENE	126	7.654	7.654	(1.189)	93232	20.0000	20
88 1 3 5-TRIMETHYLBENZENE	105	7.709	7.709	(1.198)	309468	20.0000	19
89 4-CHLOROTOLUENE	126	7.751	7.751	(1.204)	93112	20.0000	20
90 a-Methylstyrene TIC	118	7.904	7.904	(1.228)	170639	20.0000	16
91 tert-BUTYLBENZENE	119	7.970	7.970	(1.238)	273135	20.0000	19
93 1 2 4-TRIMETHYLBENZENE	105	8.019	8.019	(1.246)	304975	20.0000	19
94 sec-BUTYLBENZENE	105	8.153	8.153	(1.266)	398299	20.0000	19
96 1 3-DICHLOROBENZENE	146	8.275	8.275	(1.285)	209730	20.0000	16
95 p-ISOPROPYLTOLUENE	119	8.269	8.269	(1.284)	334898	20.0000	14
97 1 4-DICHLOROBENZENE	146	8.360	8.360	(1.299)	201270	20.0000	19
98 n-BUTYLBENZENE	91	8.615	8.615	(1.338)	289975	20.0000	16
99 1 2-DICHLOROBENZENE	146	8.670	8.670	(1.347)	192514	20.0000	20
100 1 2-DIBROMO-3-CHLOROPROPANE	157	9.345	9.345	(1.452)	23324	20.0000	19
101 1 2 4-TRICHLOROBENZENE	180	10.008	10.008	(1.555)	110642	20.0000	16
102 HEXACHLOROBUTADIENE	225	10.100	10.100	(1.569)	69937	20.0000	20
103 NAPHTHALENE	128	10.221	10.221	(1.588)	210068	20.0000	15
104 1 2 3-TRICHLOROBENZENE	180	10.422	10.422	(1.619)	96083	20.0000	16
M 105 1,2-DICHLOROETHENE (total)	96				138056	40.0000	40
M 106 1,3-DICHLOROPROPENE (total)	75				237565	40.0000	39
M 107 XYLENE (total)	106				410132	60.0000	58

Data File: oe1613q.d

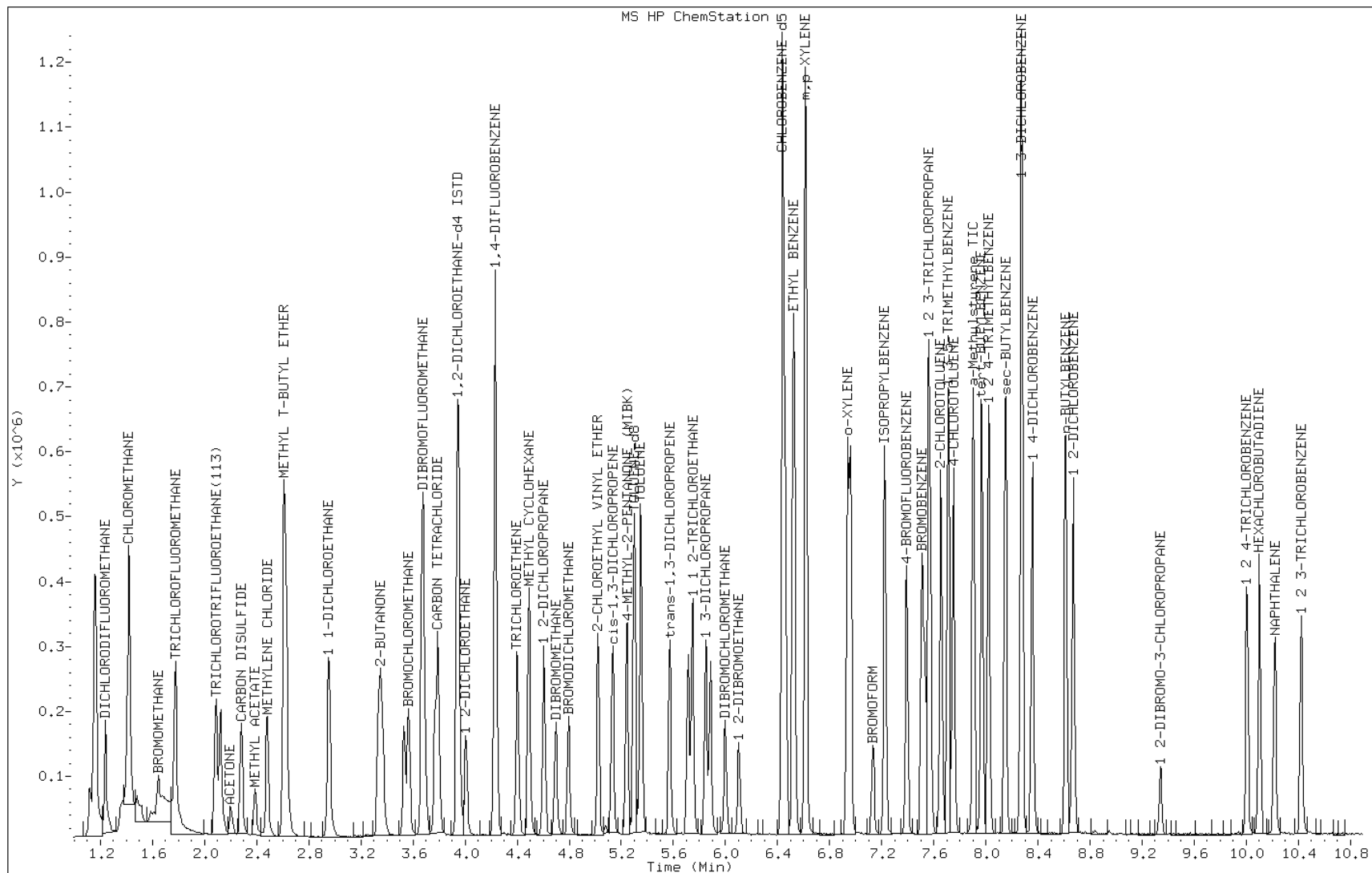
Date: 16-MAY-2013 18:57

Client ID: 8260-020

Instrument: MS05973C2.i

Sample Info: IC;8260-020=[20051613]

Operator: JD



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/2o051613.b/oe1615q.d
Lab Smp Id: ICIS;8260-050 Client Smp ID: 8260-050
Inj Date : 16-MAY-2013 19:27
Operator : JD Inst ID: MSO5973C2.i
Smp Info : ICIS;8260-050=[20051613]
Misc Info :
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSO5973C2.i/2o051613.b/O-18260BC2-m.m
Meth Date : 17-May-2013 11:21 criegner Quant Type: ISTD
Cal Date : 16-MAY-2013 19:27 Cal File: oe1615q.d
Als bottle: 57 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85		1.238	1.238	(0.313)	237127	50.0000	50
2 CHLOROMETHANE	50		1.420	1.420	(0.359)	314319	50.0000	72
3 VINYL CHLORIDE	62		1.408	1.408	(0.356)	296275	50.0000	49
4 BUTADIENE	54		1.420	1.420	(0.359)	247399	50.0000	52
5 BROMOMETHANE	96		1.584	1.584	(0.401)	12292	50.0000	41
6 CHLOROETHANE	64		1.639	1.639	(0.415)	76214	50.0000	53
7 TRICHLOROFLUOROMETHANE	101		1.773	1.773	(0.449)	339082	50.0000	50
11 TRICHLOROTRIFLUOROETHANE(113)	101		2.083	2.083	(0.527)	174572	50.0000	51
13 1 1-DICHLOROETHENE	96		2.120	2.120	(0.537)	149154	50.0000	50
14 ACETONE	58		2.199	2.199	(0.557)	37251	100.000	98
16 CARBON DISULFIDE	76		2.284	2.284	(0.578)	493257	50.0000	50
18 METHYL ACETATE	43		2.387	2.387	(0.604)	207967	50.0000	48
20 METHYLENE CHLORIDE	84		2.479	2.479	(0.627)	166726	50.0000	48

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.606	2.606	(0.660)	1088429	100.000	100
23 trans-1 2-DICHLOROETHENE	96	2.631	2.631	(0.666)	169287	50.0000	50
27 1 1-DICHLOROETHANE	63	2.947	2.947	(0.746)	292955	50.0000	49
28 VINYL ACETATE	43	2.959	2.959	(0.749)	509416	100.000	100
32 2-BUTANONE	43	3.373	3.373	(0.854)	205315	100.000	100
30 2 2-DICHLOROPROPANE	77	3.336	3.336	(0.844)	218613	50.0000	48
31 cis-1 2-DICHLOROETHENE	96	3.355	3.355	(0.849)	187665	50.0000	50
34 BROMOCHLOROMETHANE	49	3.531	3.531	(0.894)	185485	50.0000	53
37 CHLOROFORM	83	3.568	3.568	(0.903)	286492	50.0000	49
§ 40 DIBROMOFLUOROMETHANE	113	3.683	3.683	(0.932)	174944	50.0000	50
39 1 1 1-TRICHLOROETHANE	97	3.677	3.677	(0.869)	272637	50.0000	51
38 CYCLOHEXANE	56	3.671	3.671	(0.868)	277563	50.0000	51
41 CARBON TETRACHLORIDE	117	3.768	3.768	(0.891)	231443	50.0000	51
42 1 1-DICHLOROPROPENE	75	3.793	3.793	(0.896)	260689	50.0000	51
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.951	3.951	(1.000)	214093	50.0000	
44 BENZENE	78	3.939	3.939	(0.931)	694478	50.0000	50
46 1 2-DICHLOROETHANE	62	4.006	4.006	(0.947)	241199	50.0000	49
* 48 1,4-DIFLUOROBENZENE	114	4.231	4.231	(1.000)	588392	50.0000	
49 TRICHLOROETHENE	130	4.401	4.401	(1.040)	200145	50.0000	50
51 METHYL CYCLOHEXANE	83	4.492	4.492	(1.062)	305263	50.0000	51
52 1 2-DICHLOROPROPANE	63	4.602	4.602	(1.088)	202936	50.0000	49
55 DIBROMOMETHANE	93	4.693	4.693	(1.109)	124310	50.0000	50
56 BROMODICHLOROMETHANE	83	4.796	4.796	(1.134)	229911	50.0000	51
57 2-CHLOROETHYL VINYL ETHER	63	5.021	5.021	(1.187)	276038	100.000	100
58 cis-1,3-DICHLOROPROPENE	75	5.131	5.131	(1.213)	321797	50.0000	51
59 4-METHYL-2-PENTANONE (MIBK)	43	5.240	5.240	(1.239)	466525	100.000	100
§ 60 TOLUENE-d8	98	5.301	5.301	(1.253)	670469	50.0000	51
61 TOLUENE	92	5.350	5.350	(1.265)	444737	50.0000	51
62 trans-1,3-DICHLOROPROPENE	75	5.569	5.569	(1.316)	311741	50.0000	50
64 1 1 2-TRICHLOROETHANE	83	5.715	5.715	(1.351)	152056	50.0000	49
65 TETRACHLOROETHENE	164	5.745	5.745	(0.892)	184748	50.0000	51
66 1 3-DICHLOROPROPANE	76	5.849	5.849	(1.382)	327664	50.0000	50
67 2-HEXANONE	43	5.885	5.885	(0.914)	355995	100.000	100
68 DIBROMOCHLOROMETHANE	129	6.001	6.001	(0.932)	195422	50.0000	51
69 1 2-DIBROMOETHANE	107	6.104	6.104	(1.443)	193340	50.0000	51
* 71 CHLOROBENZENE-d5	82	6.439	6.439	(1.000)	288664	50.0000	
72 CHLOROBENZENE	112	6.463	6.463	(1.004)	539295	50.0000	50
73 ETHYL BENZENE	91	6.518	6.518	(1.012)	946181	50.0000	51
74 1,1,1,2-TETRACHLOROETHANE	131	6.530	6.530	(1.014)	199223	50.0000	43
75 m,p-XYLENE	106	6.615	6.615	(1.027)	764465	100.000	100
76 o-XYLENE	106	6.938	6.938	(1.077)	365254	50.0000	51
77 STYRENE	104	6.962	6.962	(1.081)	629679	50.0000	53
78 BROMOFORM	173	7.132	7.132	(1.108)	158804	50.0000	39
79 ISOPROPYLBENZENE	105	7.224	7.224	(1.122)	850591	50.0000	52
§ 81 4-BROMOFLUOROBENZENE	95	7.388	7.388	(1.147)	264177	50.0000	49
82 BROMOBENZENE	156	7.510	7.510	(1.166)	277720	50.0000	51
83 1,1,2,2-TETRACHLOROETHANE	83	7.528	7.528	(1.169)	269907	50.0000	50

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
85 1 2 3-TRICHLOROPROPANE	110	7.577	7.577	(1.177)	96551	50.0000	50
84 n-PROPYLBENZENE	120	7.558	7.558	(1.174)	286259	50.0000	52
87 2-CHLOROTOLUENE	126	7.656	7.656	(1.189)	251116	50.0000	51
88 1 3 5-TRIMETHYLBENZENE	105	7.710	7.710	(1.197)	847519	50.0000	52
89 4-CHLOROTOLUENE	126	7.753	7.753	(1.204)	257410	50.0000	52
90 a-Methylstyrene TIC	118	7.905	7.905	(1.228)	472658	50.0000	43
91 tert-BUTYLBENZENE	119	7.966	7.966	(1.237)	752669	50.0000	52
93 1 2 4-TRIMETHYLBENZENE	105	8.021	8.021	(1.246)	839661	50.0000	52
94 sec-BUTYLBENZENE	105	8.148	8.148	(1.265)	1091374	50.0000	52
96 1 3-DICHLOROBENZENE	146	8.276	8.276	(1.285)	589317	50.0000	44
95 p-ISOPROPYLTOLUENE	119	8.270	8.270	(1.284)	952184	50.0000	40
97 1 4-DICHLOROBENZENE	146	8.361	8.361	(1.299)	552927	50.0000	52
98 n-BUTYLBENZENE	91	8.611	8.611	(1.337)	807980	50.0000	43
99 1 2-DICHLOROBENZENE	146	8.672	8.672	(1.347)	519326	50.0000	51
100 1 2-DIBROMO-3-CHLOROPROPANE	157	9.341	9.341	(1.451)	67398	50.0000	52
101 1 2 4-TRICHLOROBENZENE	180	10.004	10.004	(1.554)	299525	50.0000	41
102 HEXACHLOROBUTADIENE	225	10.101	10.101	(1.569)	189614	50.0000	51
103 NAPHTHALENE	128	10.217	10.217	(1.587)	594238	50.0000	41
104 1 2 3-TRICHLOROBENZENE	180	10.424	10.424	(1.619)	261490	50.0000	42
M 105 1,2-DICHLOROETHENE (total)	96				356952	100.000	99
M 106 1,3-DICHLOROPROPENE (total)	75				633539	100.000	100
M 107 XYLENE (total)	106				1129719	150.000	150

Data File: oe1615q.d

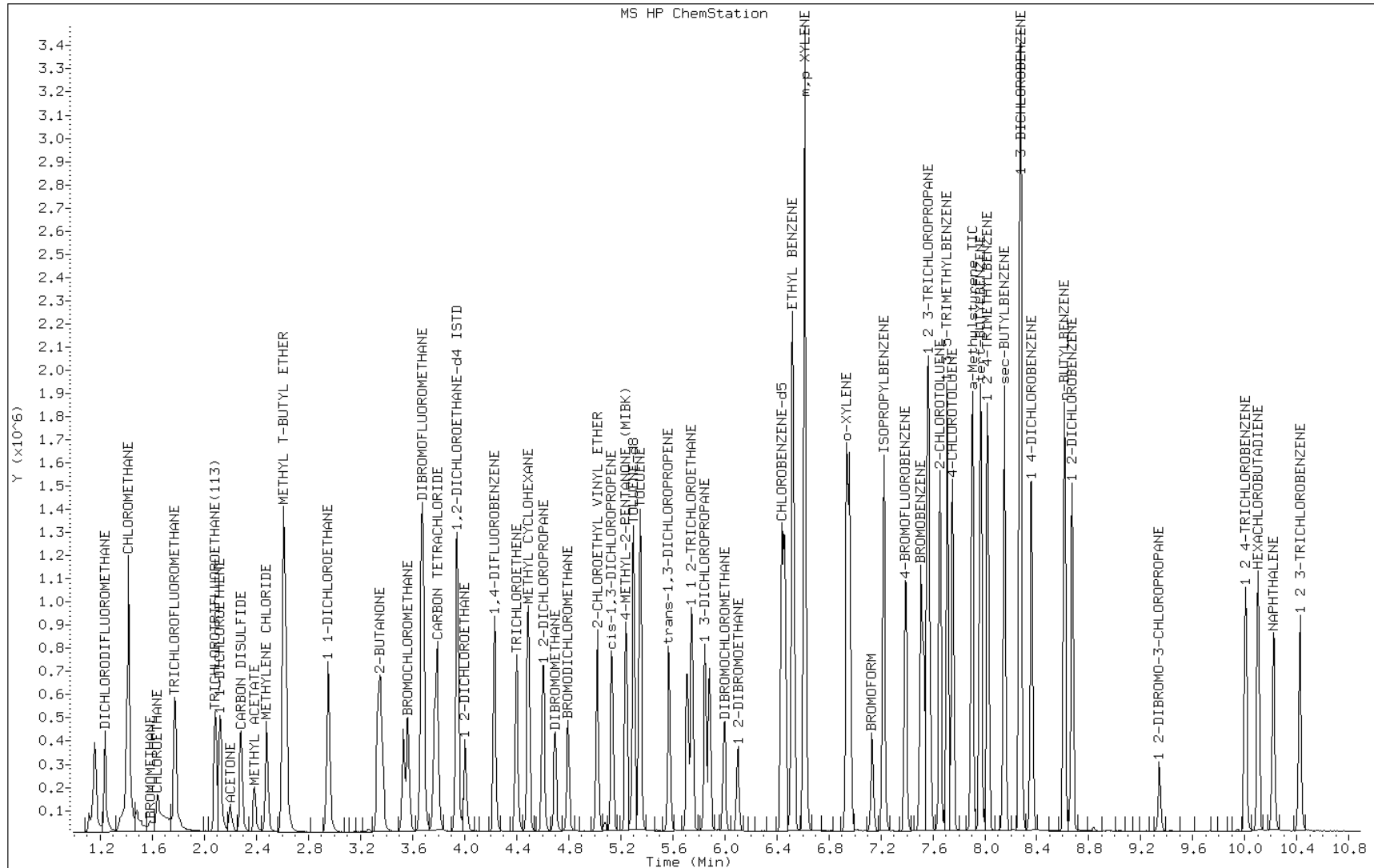
Date: 16-MAY-2013 19:27

Client ID: 8260-050

Instrument: MS05973C2.i

Sample Info: ICIS;8260-050=[20051613]

Operator: JD



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/2o051613.b/oe1617q.d
 Lab Smp Id: IC;8260-100 Client Smp ID: 8260-100
 Inj Date : 16-MAY-2013 19:56
 Operator : JD Inst ID: MSO5973C2.i
 Smp Info : IC;8260-100=[20051613]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSO5973C2.i/2o051613.b/O-18260BC2-m.m
 Meth Date : 17-May-2013 11:22 criegner Quant Type: ISTD
 Cal Date : 16-MAY-2013 19:56 Cal File: oe1617q.d
 Als bottle: 58 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.238	1.238	(0.313)	488491	100.000	100
2 CHLOROMETHANE	50	1.420	1.420	(0.359)	651888	100.000	150
3 VINYL CHLORIDE	62	1.408	1.408	(0.356)	605374	100.000	97
4 BUTADIENE	54	1.420	1.420	(0.359)	502858	100.000	100
5 BROMOMETHANE	96	1.585	1.585	(0.401)	27202	100.000	89
6 CHLOROETHANE	64	1.639	1.639	(0.415)	147104	100.000	100
7 TRICHLOROFLUOROMETHANE	101	1.773	1.773	(0.449)	681807	100.000	99
11 TRICHLOROTRIFLUOROETHANE(113)	101	2.083	2.083	(0.527)	356433	100.000	100
13 1 1-DICHLOROETHENE	96	2.126	2.126	(0.538)	318970	100.000	100
14 ACETONE	58	2.199	2.199	(0.557)	79720	200.000	210
16 CARBON DISULFIDE	76	2.278	2.278	(0.577)	1027353	100.000	100
18 METHYL ACETATE	43	2.388	2.388	(0.604)	447347	100.000	100
20 METHYLENE CHLORIDE	84	2.479	2.479	(0.627)	350158	100.000	99

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.607	2.607	(0.660)	2373039	200.000	210
23 trans-1 2-DICHLOROETHENE	96	2.625	2.625	(0.664)	355791	100.000	100
27 1 1-DICHLOROETHANE	63	2.947	2.947	(0.746)	618189	100.000	100
28 VINYL ACETATE	43	2.953	2.953	(0.747)	1039400	200.000	200
32 2-BUTANONE	43	3.373	3.373	(0.854)	436606	200.000	210
30 2 2-DICHLOROPROPANE	77	3.337	3.337	(0.844)	460940	100.000	99
31 cis-1 2-DICHLOROETHENE	96	3.355	3.355	(0.849)	400144	100.000	100
34 BROMOCHLOROMETHANE	49	3.531	3.531	(0.894)	380538	100.000	110
37 CHLOROFORM	83	3.568	3.568	(0.903)	603871	100.000	100
§ 40 DIBROMOFLUOROMETHANE	113	3.683	3.683	(0.932)	377916	100.000	110
39 1 1 1-TRICHLOROETHANE	97	3.677	3.677	(0.869)	602326	100.000	110
38 CYCLOHEXANE	56	3.671	3.671	(0.868)	586049	100.000	100
41 CARBON TETRACHLORIDE	117	3.769	3.769	(0.891)	507344	100.000	110
42 1 1-DICHLOROPROPENE	75	3.793	3.793	(0.896)	554095	100.000	110
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.951	3.951	(1.000)	219033	50.0000	
44 BENZENE	78	3.939	3.939	(0.931)	1461511	100.000	100
46 1 2-DICHLOROETHANE	62	4.006	4.006	(0.947)	507736	100.000	100
* 48 1,4-DIFLUOROEBENZENE	114	4.231	4.231	(1.000)	605761	50.0000	
49 TRICHLOROETHENE	130	4.401	4.401	(1.040)	427462	100.000	100
51 METHYL CYCLOHEXANE	83	4.493	4.493	(1.062)	645733	100.000	110
52 1 2-DICHLOROPROPANE	63	4.602	4.602	(1.088)	428418	100.000	100
55 DIBROMOMETHANE	93	4.693	4.693	(1.109)	260482	100.000	100
56 BROMODICHLOROMETHANE	83	4.797	4.797	(1.134)	492679	100.000	110
57 2-CHLOROETHYL VINYL ETHER	63	5.022	5.022	(1.187)	596737	200.000	210
58 cis-1,3-DICHLOROPROPENE	75	5.131	5.131	(1.213)	696522	100.000	110
59 4-METHYL-2-PENTANONE (MIBK)	43	5.241	5.241	(1.239)	1005438	200.000	210
§ 60 TOLUENE-d8	98	5.302	5.302	(1.253)	1450608	100.000	110
61 TOLUENE	92	5.350	5.350	(1.265)	961361	100.000	110
62 trans-1,3-DICHLOROPROPENE	75	5.569	5.569	(1.316)	684758	100.000	110
64 1 1 2-TRICHLOROETHANE	83	5.715	5.715	(1.351)	321938	100.000	100
65 TETRACHLOROETHENE	164	5.752	5.752	(0.893)	403764	100.000	110
66 1 3-DICHLOROPROPANE	76	5.849	5.849	(1.382)	701548	100.000	100
67 2-HEXANONE	43	5.886	5.886	(0.914)	758744	200.000	210
68 DIBROMOCHLOROMETHANE	129	6.001	6.001	(0.932)	442936	100.000	110
69 1 2-DIBROMOETHANE	107	6.105	6.105	(1.443)	417664	100.000	110
* 71 CHLOROBENZENE-d5	82	6.439	6.439	(1.000)	300422	50.0000	
72 CHLOROBENZENE	112	6.464	6.464	(1.004)	1166152	100.000	100
73 ETHYL BENZENE	91	6.518	6.518	(1.012)	2088087	100.000	110
74 1,1,1,2-TETRACHLOROETHANE	131	6.530	6.530	(1.014)	455102	100.000	94
75 m,p-XYLENE	106	6.616	6.616	(1.027)	1704123	200.000	220
76 o-XYLENE	106	6.938	6.938	(1.077)	804776	100.000	110
77 STYRENE	104	6.962	6.962	(1.081)	1357206	100.000	110
78 BROMOFORM	173	7.133	7.133	(1.108)	380027	100.000	90
79 ISOPROPYLBENZENE	105	7.224	7.224	(1.122)	1848709	100.000	110
§ 81 4-BROMOFLUOROEBENZENE	95	7.388	7.388	(1.147)	578855	100.000	100
82 BROMOBENZENE	156	7.510	7.510	(1.166)	614126	100.000	110
83 1,1,2,2-TETRACHLOROETHANE	83	7.528	7.528	(1.169)	588826	100.000	110

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
85 1 2 3-TRICHLOROPROPANE	110	7.577	7.577	(1.177)	211311	100.000	110
84 n-PROPYLBENZENE	120	7.559	7.559	(1.174)	638500	100.000	110
87 2-CHLOROTOLUENE	126	7.656	7.656	(1.189)	543099	100.000	110
88 1 3 5-TRIMETHYLBENZENE	105	7.711	7.711	(1.197)	1887112	100.000	110
89 4-CHLOROTOLUENE	126	7.753	7.753	(1.204)	558316	100.000	110
90 a-Methylstyrene TIC	118	7.905	7.905	(1.228)	1047793	100.000	92
91 tert-BUTYLBENZENE	119	7.966	7.966	(1.237)	1675234	100.000	110
93 1 2 4-TRIMETHYLBENZENE	105	8.021	8.021	(1.246)	1864987	100.000	110
94 sec-BUTYLBENZENE	105	8.149	8.149	(1.265)	2403954	100.000	110
96 1 3-DICHLOROBENZENE	146	8.276	8.276	(1.285)	1344067	100.000	97
95 p-ISOPROPYLTOLUENE	119	8.270	8.270	(1.284)	2229764	100.000	90
97 1 4-DICHLOROBENZENE	146	8.362	8.362	(1.299)	1216284	100.000	110
98 n-BUTYLBENZENE	91	8.611	8.611	(1.337)	1791954	100.000	92
99 1 2-DICHLOROBENZENE	146	8.672	8.672	(1.347)	1142102	100.000	110
100 1 2-DIBROMO-3-CHLOROPROPANE	157	9.341	9.341	(1.451)	151957	100.000	110
101 1 2 4-TRICHLOROBENZENE	180	10.004	10.004	(1.554)	694245	100.000	91
102 HEXACHLOROBUTADIENE	225	10.101	10.101	(1.569)	410907	100.000	110
103 NAPHTHALENE	128	10.217	10.217	(1.587)	1374372	100.000	92
104 1 2 3-TRICHLOROBENZENE	180	10.424	10.424	(1.619)	596218	100.000	91
M 105 1,2-DICHLOROETHENE (total)	96				755936	200.000	210
M 106 1,3-DICHLOROPROPENE (total)	75				1381280	200.000	210
M 107 XYLENE (total)	106				2508899	300.000	330

Data File: oe1617q.d

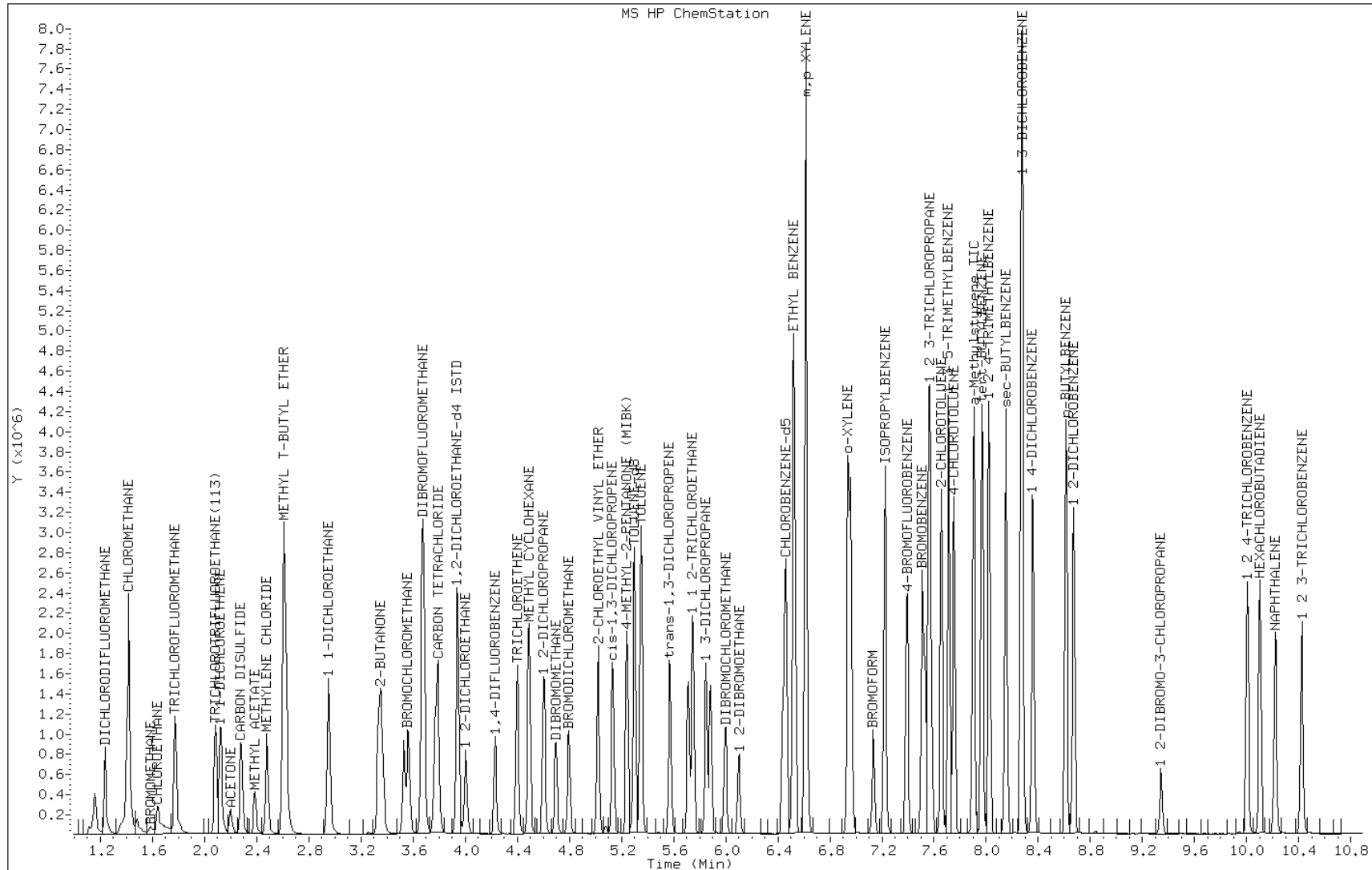
Date: 16-MAY-2013 19:56

Client ID: 8260-100

Instrument: MS05973C2.i

Sample Info: IC;8260-100=[20051613]

Operator: JD



TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/2o051613.b/oe1619q.d
 Lab Smp Id: IC;8260-200 Client Smp ID: 8260-200
 Inj Date : 16-MAY-2013 20:26
 Operator : JD Inst ID: MSO5973C2.i
 Smp Info : IC;8260-200=[20051613]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSO5973C2.i/2o051613.b/O-18260BC2-m.m
 Meth Date : 17-May-2013 11:22 criegner Quant Type: ISTD
 Cal Date : 16-MAY-2013 20:26 Cal File: oe1619q.d
 Als bottle: 59 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85		1.237	1.237	(0.313)	1031509	200.000	200
2 CHLOROMETHANE	50		1.420	1.420	(0.359)	1379266	200.000	200
3 VINYL CHLORIDE	62		1.407	1.407	(0.356)	1256724	200.000	190
4 BUTADIENE	54		1.420	1.420	(0.359)	1052072	200.000	200
5 BROMOMETHANE	96		1.584	1.584	(0.401)	67877	200.000	210
6 CHLOROETHANE	64		1.645	1.645	(0.416)	310747	200.000	200
7 TRICHLOROFLUOROMETHANE	101		1.779	1.779	(0.450)	1431753	200.000	190
11 TRICHLOROTRIFLUOROETHANE(113)	101		2.083	2.083	(0.527)	767675	200.000	200
13 1 1-DICHLOROETHENE	96		2.125	2.125	(0.538)	685443	200.000	210
14 ACETONE	58		2.198	2.198	(0.556)	166079	400.000	400
16 CARBON DISULFIDE	76		2.283	2.283	(0.578)	2219868	200.000	200
18 METHYL ACETATE	43		2.387	2.387	(0.604)	953098	200.000	200
20 METHYLENE CHLORIDE	84		2.478	2.478	(0.627)	736446	200.000	190

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.606	2.606	(0.660)	5313997	400.000	440
23 trans-1,2-DICHLOROETHENE	96	2.630	2.630	(0.666)	766831	200.000	210
27 1,1-DICHLOROETHANE	63	2.947	2.947	(0.746)	1363275	200.000	210
28 VINYL ACETATE	43	2.959	2.959	(0.749)	2242232	400.000	400
32 2-BUTANONE	43	3.372	3.372	(0.854)	895276	400.000	400
30 2,2-DICHLOROPROPANE	77	3.336	3.336	(0.844)	989850	200.000	200
31 cis-1,2-DICHLOROETHENE	96	3.354	3.354	(0.849)	873662	200.000	210
34 BROMOCHLOROMETHANE	49	3.531	3.531	(0.894)	811911	200.000	210
37 CHLOROFORM	83	3.567	3.567	(0.903)	1310375	200.000	200
§ 40 DIBROMOFLUOROMETHANE	113	3.683	3.683	(0.932)	838516	200.000	220
39 1,1,1-TRICHLOROETHANE	97	3.677	3.677	(0.869)	1380050	200.000	240
38 CYCLOHEXANE	56	3.670	3.670	(0.868)	1287239	200.000	220
41 CARBON TETRACHLORIDE	117	3.768	3.768	(0.891)	1162547	200.000	240
42 1,1-DICHLOROPROPENE	75	3.792	3.792	(0.896)	1201276	200.000	220
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.950	3.950	(1.000)	235411	50.0000	
44 BENZENE	78	3.938	3.938	(0.931)	3181229	200.000	210
46 1,2-DICHLOROETHANE	62	4.005	4.005	(0.947)	1079247	200.000	200
* 48 1,4-DIFLUOROENZENE	114	4.230	4.230	(1.000)	631031	50.0000	
49 TRICHLOROETHENE	130	4.401	4.401	(1.040)	974106	200.000	230
51 METHYL CYCLOHEXANE	83	4.492	4.492	(1.062)	1443515	200.000	230
52 1,2-DICHLOROPROPANE	63	4.607	4.607	(1.089)	924485	200.000	210
55 DIBROMOMETHANE	93	4.692	4.692	(1.109)	573276	200.000	220
56 BROMODICHLOROMETHANE	83	4.796	4.796	(1.134)	1101009	200.000	230
57 2-CHLOROETHYL VINYL ETHER	63	5.021	5.021	(1.187)	1308584	400.000	450
58 cis-1,3-DICHLOROPROPENE	75	5.137	5.137	(1.214)	1539375	200.000	230
59 4-METHYL-2-PENTANONE (MIBK)	43	5.240	5.240	(1.239)	2135454	400.000	430
§ 60 TOLUENE-d8	98	5.301	5.301	(1.253)	3297633	200.000	230
61 TOLUENE	92	5.350	5.350	(1.265)	2125437	200.000	230
62 trans-1,3-DICHLOROPROPENE	75	5.575	5.575	(1.318)	1556910	200.000	230
64 1,1,2-TRICHLOROETHANE	83	5.715	5.715	(1.351)	709887	200.000	220
65 TETRACHLOROETHENE	164	5.751	5.751	(0.893)	921315	200.000	230
66 1,3-DICHLOROPROPANE	76	5.848	5.848	(1.383)	1522403	200.000	220
67 2-HEXANONE	43	5.885	5.885	(0.914)	1559862	400.000	410
68 DIBROMOCHLOROMETHANE	129	6.000	6.000	(0.932)	1035209	200.000	240
69 1,2-DIBROMOETHANE	107	6.104	6.104	(1.443)	925540	200.000	230
* 71 CHLOROBENZENE-d5	82	6.438	6.438	(1.000)	315810	50.0000	
72 CHLOROBENZENE	112	6.463	6.463	(1.004)	2642252	200.000	230
73 ETHYL BENZENE	91	6.524	6.524	(1.013)	4849459	200.000	240
74 1,1,1,2-TETRACHLOROETHANE	131	6.530	6.530	(1.014)	1046798	200.000	200
75 m,p-XYLENE	106	6.615	6.615	(1.027)	3886102	400.000	480
76 o-XYLENE	106	6.937	6.937	(1.077)	1863058	200.000	240
77 STYRENE	104	6.962	6.962	(1.081)	3052696	200.000	240
78 BROMOFORM	173	7.132	7.132	(1.108)	919329	200.000	210
79 ISOPROPYLBENZENE	105	7.223	7.223	(1.122)	4309448	200.000	240
§ 81 4-BROMOFLUOROENZENE	95	7.394	7.394	(1.148)	1333898	200.000	230
82 BROMOBENZENE	156	7.509	7.509	(1.166)	1416370	200.000	240
83 1,1,2,2-TETRACHLOROETHANE	83	7.533	7.533	(1.170)	1272280	200.000	220(A)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
85 1 2 3-TRICHLOROPROPANE	110	7.576	7.576	(1.177)	448898	200.000	210
84 n-PROPYLBENZENE	120	7.564	7.564	(1.175)	1433934	200.000	240
87 2-CHLOROTOLUENE	126	7.655	7.655	(1.189)	1227322	200.000	230
88 1 3 5-TRIMETHYLBENZENE	105	7.716	7.716	(1.198)	4429388	200.000	250
89 4-CHLOROTOLUENE	126	7.752	7.752	(1.204)	1222740	200.000	230
90 a-Methylstyrene TIC	118	7.905	7.905	(1.228)	2450809	200.000	210(A)
91 tert-BUTYLBENZENE	119	7.971	7.971	(1.238)	3888328	200.000	240
93 1 2 4-TRIMETHYLBENZENE	105	8.020	8.020	(1.246)	4328068	200.000	240
94 sec-BUTYLBENZENE	105	8.154	8.154	(1.266)	5658767	200.000	250
96 1 3-DICHLOROBENZENE	146	8.276	8.276	(1.285)	2974706	200.000	200
95 p-ISOPROPYLTOLUENE	119	8.276	8.276	(1.285)	5390015	200.000	210
97 1 4-DICHLOROBENZENE	146	8.361	8.361	(1.299)	2777041	200.000	240
98 n-BUTYLBENZENE	91	8.610	8.610	(1.337)	4232941	200.000	210
99 1 2-DICHLOROBENZENE	146	8.671	8.671	(1.347)	2608457	200.000	240
100 1 2-DIBROMO-3-CHLOROPROPANE	157	9.346	9.346	(1.452)	336385	200.000	240
101 1 2 4-TRICHLOROBENZENE	180	10.003	10.003	(1.554)	1654052	200.000	210
102 HEXACHLOROBUTADIENE	225	10.101	10.101	(1.569)	975941	200.000	240
103 NAPHTHALENE	128	10.222	10.222	(1.588)	3230994	200.000	210
104 1 2 3-TRICHLOROBENZENE	180	10.423	10.423	(1.619)	1411090	200.000	210
M 105 1,2-DICHLOROETHENE (total)	96				1640493	400.000	420
M 106 1,3-DICHLOROPROPENE (total)	75				3096285	400.000	460
M 107 XYLENE (total)	106				5749161	600.000	720

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: oe1619q.d

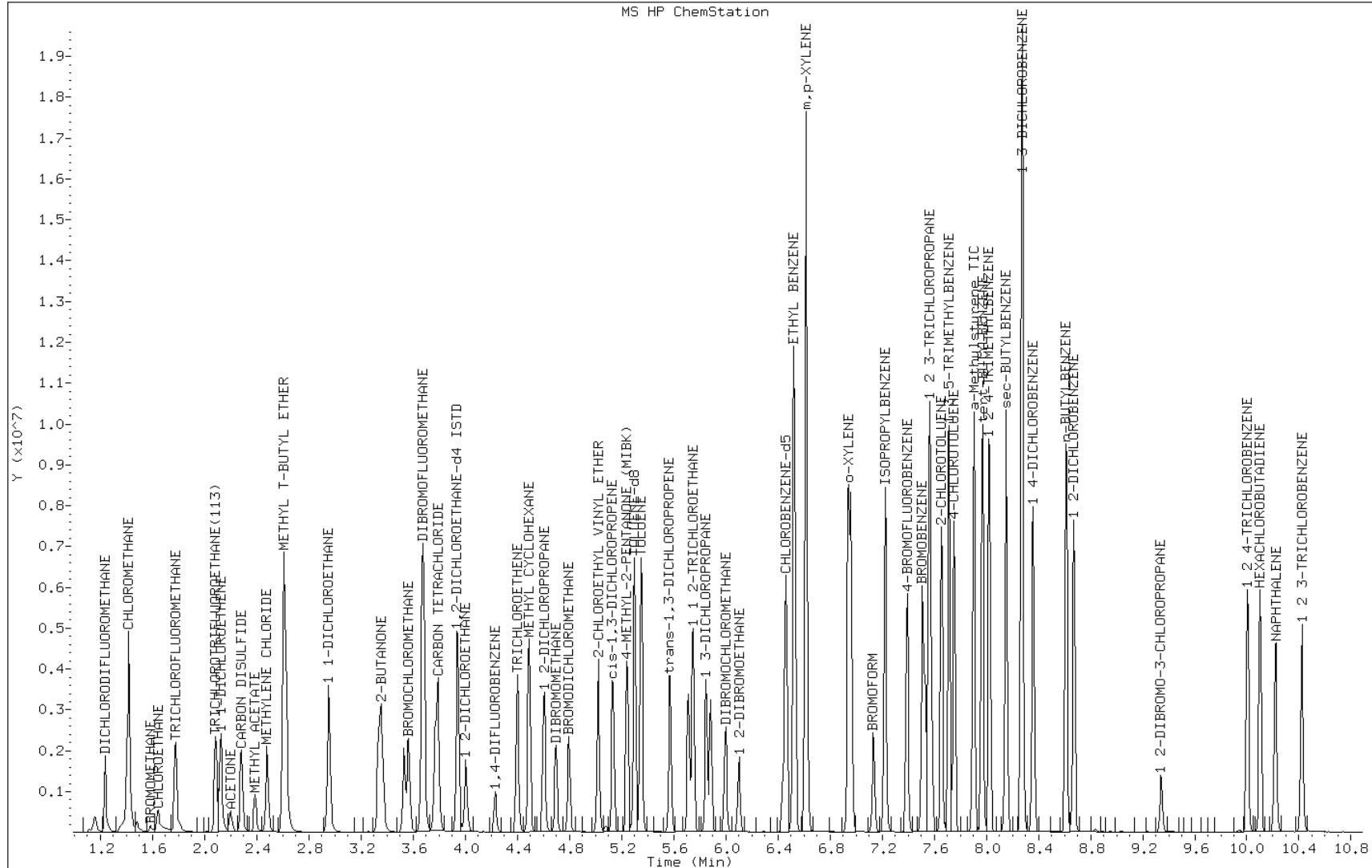
Date: 16-MAY-2013 20:26

Client ID: 8260-200

Instrument: MS05973C2.i

Sample Info: IC;8260-200=[20051613]

Operator: JD



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-277297/2 Calibration Date: 05/20/2013 10:08
 Instrument ID: MSO2 Calib Start Date: 05/16/2013 16:58
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/16/2013 20:26
 Lab File ID: oe2007q.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	1.107	1.065		48.1	50.0	-3.7	60.0
Vinyl chloride	Ave	1.424	1.519		53.3	50.0	6.7	20.0
1,3-Butadiene	Ave	1.116	1.241		55.6	50.0	11.3	60.0
Chloromethane	Ave	1.535	1.575	0.1000	51.3	50.0	2.6	60.0
Bromomethane	QuaF	0.0576	0.0637		54.8	50.0	9.6	60.0
Chloroethane	LinF	0.4300	0.4531		68.0	50.0	36.0	60.0
Trichlorofluoromethane	Ave	1.570	1.869		59.5	50.0	19.0	60.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.7985	0.7759		48.6	50.0	-2.8	60.0
1,1-Dichloroethene	Ave	0.6942	0.6528		47.0	50.0	-6.0	20.0
Acetone	Ave	0.0888	0.0767		86.4	100	-13.7	60.0
Carbon disulfide	Ave	2.325	2.142		46.1	50.0	-7.9	60.0
Methyl acetate	Ave	1.016	0.7675		37.8	50.0	-24.4	60.0
Methylene Chloride	Ave	0.8047	0.7468		46.4	50.0	-7.2	60.0
Methyl tert-butyl ether	Ave	2.551	2.336		91.6	100	-8.4	60.0
trans-1,2-Dichloroethene	Ave	0.7942	0.7453		46.9	50.0	-6.2	60.0
1,1-Dichloroethane	Ave	1.394	1.308	0.1000	46.9	50.0	-6.1	60.0
Vinyl acetate	Ave	1.183	1.238		105	100	4.6	60.0
2,2-Dichloropropane	Ave	1.064	1.009		47.4	50.0	-5.2	60.0
cis-1,2-Dichloroethene	Ave	0.8812	0.8294		47.1	50.0	-5.9	60.0
2-Butanone	LinF	0.5056	0.4170		86.9	100	-13.1	60.0
Bromochloromethane	Ave	0.8137	0.7975		49.0	50.0	-2.0	60.0
Chloroform	Ave	1.366	1.272		46.6	50.0	-6.9	20.0
Cyclohexane	Ave	0.4617	0.4539		49.2	50.0	-1.7	60.0
1,1,1-Trichloroethane	Ave	0.4527	0.4249		46.9	50.0	-6.1	60.0
Carbon tetrachloride	Ave	0.3850	0.2850		37.0	50.0	-26.0	60.0
1,1-Dichloropropene	Ave	0.4337	0.4389		50.6	50.0	1.2	60.0
Benzene	Ave	1.176	1.177		50.0	50.0	0.0	60.0
1,2-Dichloroethane	Ave	0.4174	0.4291		51.4	50.0	2.8	60.0
Trichloroethene	Ave	0.3368	0.3230		48.0	50.0	-4.1	60.0
Methylcyclohexane	Ave	0.5060	0.5079		50.2	50.0	0.4	60.0
1,2-Dichloropropane	Ave	0.3487	0.3351		48.1	50.0	-3.9	20.0
Dibromomethane	Ave	0.2109	0.2045		48.5	50.0	-3.0	60.0
Bromodichloromethane	Ave	0.3817	0.3423		44.8	50.0	-10.3	60.0
2-Chloroethyl vinyl ether	Ave	0.2310	0.2208		95.6	100	-4.4	60.0
cis-1,3-Dichloropropene	Ave	0.5399	0.5070		47.0	50.0	-6.1	60.0
4-Methyl-2-pentanone	Ave	0.3907	0.3579		91.6	100	-8.4	60.0
Toluene	Ave	0.7472	0.7503		50.2	50.0	0.4	20.0
trans-1,3-Dichloropropene	Ave	0.5258	0.4830		45.9	50.0	-8.1	60.0
1,1,2-Trichloroethane	Ave	0.2615	0.2538		48.5	50.0	-2.9	60.0
Tetrachloroethene	Ave	0.6285	0.6301		50.1	50.0	0.3	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-277297/2 Calibration Date: 05/20/2013 10:08
 Instrument ID: MSO2 Calib Start Date: 05/16/2013 16:58
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/16/2013 20:26
 Lab File ID: oe2007q.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
1,3-Dichloropropane	Ave	0.5527	0.5523		50.0	50.0	-0.0	60.0
2-Hexanone	Ave	0.5953	0.5764		96.8	100	-3.2	60.0
Dibromochloromethane	Ave	0.6702	0.5317		39.7	50.0	-20.7	60.0
1,2-Dibromoethane	Ave	0.3249	0.3134		48.2	50.0	-3.5	60.0
Chlorobenzene	Ave	1.852	1.864	0.3000	50.3	50.0	0.7	60.0
Ethylbenzene	Ave	3.188	3.331		52.2	50.0	4.5	20.0
1,1,1,2-Tetrachloroethane	LinF	0.6678	0.5842		36.1	50.0	-27.8	60.0
m-Xylene & p-Xylene	Ave	1.284	1.369		107	100	6.7	60.0
o-Xylene	Ave	1.247	1.281		51.3	50.0	2.7	60.0
Styrene	Ave	2.050	2.227		54.3	50.0	8.6	60.0
Bromoform	QuaF	0.5263	0.3708	0.1000	32.6	50.0	-34.8	60.0
Isopropylbenzene	Ave	2.838	2.995		52.8	50.0	5.5	60.0
Bromobenzene	Ave	0.9441	0.9753		51.7	50.0	3.3	60.0
1,1,2,2-Tetrachloroethane	Ave	0.9323	0.9482	0.3000	50.9	50.0	1.7	60.0
N-Propylbenzene	Ave	0.9541	1.021		53.5	50.0	7.0	60.0
1,2,3-Trichloropropane	Ave	0.3343	0.3469		51.9	50.0	3.8	60.0
2-Chlorotoluene	Ave	0.8476	0.8944		52.8	50.0	5.5	60.0
1,3,5-Trimethylbenzene	Ave	2.845	3.062		53.8	50.0	7.6	60.0
4-Chlorotoluene	Ave	0.8511	0.9309		54.7	50.0	9.4	60.0
tert-Butylbenzene	Ave	2.517	2.769		55.0	50.0	10.0	60.0
1,2,4-Trimethylbenzene	Ave	2.798	3.087		55.2	50.0	10.3	60.0
sec-Butylbenzene	Ave	3.648	4.011		55.0	50.0	10.0	60.0
p-Isopropyltoluene	LinF	3.156	3.529		42.8	50.0	-14.5	60.0
1,3-Dichlorobenzene	LinF	1.942	2.258		48.7	50.0	-2.5	60.0
1,4-Dichlorobenzene	Ave	1.852	2.061		55.7	50.0	11.3	60.0
n-Butylbenzene	LinF	2.645	2.846		43.7	50.0	-12.7	60.0
1,2-Dichlorobenzene	Ave	1.752	1.916		54.7	50.0	9.4	60.0
1,2-Dibromo-3-Chloropropane	Ave	0.2225	0.1862		41.8	50.0	-16.3	60.0
1,2,4-Trichlorobenzene	LinF	1.013	0.9819		38.7	50.0	-22.7	60.0
Hexachlorobutadiene	Ave	0.6379	0.6536		51.2	50.0	2.5	60.0
Naphthalene	LinF	1.955	1.914		38.5	50.0	-23.0	60.0
1,2,3-Trichlorobenzene	LinF	0.8872	0.8510		39.2	50.0	-21.6	60.0
1,3-Dichloropropene, Total	Ave	0.5328	0.4950		92.9	100	-7.1	60.0
Dibromofluoromethane	Ave	0.8172	0.7752		47.4	50.0	-5.1	60.0
Toluene-d8 (Surr)	Ave	1.119	1.138		50.8	50.0	1.6	60.0
4-Bromofluorobenzene	Ave	0.9252	0.9396		50.8	50.0	1.6	60.0

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/1o052013.b/oe2007q.d
 Lab Smp Id: CCVIS;8260-050 Client Smp ID: 8260-050
 Inj Date : 20-MAY-2013 10:08
 Operator : JD Inst ID: MSO5973C2.i
 Smp Info : CCVIS;8260-050=[10052013]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSO5973C2.i/1o052013.b/O-18260BC2-m.m
 Meth Date : 20-May-2013 10:28 ghenassi Quant Type: ISTD
 Cal Date : 17-MAY-2013 12:53 Cal File: oe1717q.d
 Als bottle: 53 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260a11{std}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/L)	ON-COL (ug/L)
1 DICHLORODIFLUOROMETHANE	85		1.234	1.234	(0.313)	197442	50.0000	48
2 CHLOROMETHANE	50		1.417	1.417	(0.359)	291803	50.0000	51
3 VINYL CHLORIDE	62		1.405	1.405	(0.356)	281521	50.0000	53
4 BUTADIENE	54		1.417	1.417	(0.359)	230040	50.0000	56
5 BROMOMETHANE	96		1.581	1.581	(0.400)	11809	50.0000	55
6 CHLOROETHANE	64		1.636	1.636	(0.414)	83962	50.0000	68
7 TRICHLOROFLUOROMETHANE	101		1.776	1.776	(0.450)	346251	50.0000	60
11 TRICHLOROTRIFLUOROETHANE(113)	101		2.080	2.080	(0.527)	143787	50.0000	49
13 1 1-DICHLOROETHENE	96		2.116	2.116	(0.536)	120970	50.0000	47
14 ACETONE	58		2.201	2.201	(0.558)	28408	100.000	86
16 CARBON DISULFIDE	76		2.281	2.281	(0.578)	396965	50.0000	46
18 METHYL ACETATE	43		2.384	2.384	(0.604)	142221	50.0000	38
20 METHYLENE CHLORIDE	84		2.475	2.475	(0.627)	138385	50.0000	46

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
22 METHYL T-BUTYL ETHER	73	2.609	2.609	(0.661)	865619	100.000	92
23 trans-1,2-DICHLOROETHENE	96	2.627	2.627	(0.666)	138117	50.0000	47
27 1,1-DICHLOROETHANE	63	2.944	2.944	(0.746)	242472	50.0000	47
28 VINYL ACETATE	43	2.956	2.956	(0.749)	458644	100.000	100
32 2-BUTANONE	43	3.369	3.369	(0.854)	154559	100.000	87
30 2,2-DICHLOROPROPANE	77	3.333	3.333	(0.844)	186889	50.0000	47
31 cis-1,2-DICHLOROETHENE	96	3.351	3.351	(0.849)	153686	50.0000	47
34 BROMOCHLOROMETHANE	49	3.528	3.528	(0.894)	147778	50.0000	49
37 CHLOROFORM	83	3.564	3.564	(0.903)	235711	50.0000	47
§ 40 DIBROMOFLUOROMETHANE	113	3.686	3.686	(0.934)	143653	50.0000	47
39 1,1,1-TRICHLOROETHANE	97	3.680	3.680	(0.869)	207661	50.0000	47
38 CYCLOHEXANE	56	3.668	3.668	(0.866)	221847	50.0000	49
41 CARBON TETRACHLORIDE	117	3.765	3.765	(0.889)	139284	50.0000	37
42 1,1-DICHLOROPROPENE	75	3.789	3.789	(0.895)	214508	50.0000	51
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.947	3.947	(1.000)	185309	50.0000	
44 BENZENE	78	3.941	3.941	(0.931)	575232	50.0000	50
46 1,2-DICHLOROETHANE	62	4.002	4.002	(0.945)	209696	50.0000	51
* 48 1,4-DIFLUOROENZENE	114	4.233	4.233	(1.000)	488745	50.0000	
49 TRICHLOROETHENE	130	4.398	4.398	(1.039)	157883	50.0000	48
51 METHYL CYCLOHEXANE	83	4.489	4.489	(1.060)	248207	50.0000	50
52 1,2-DICHLOROPROPANE	63	4.604	4.604	(1.088)	163796	50.0000	48
55 DIBROMOMETHANE	93	4.696	4.696	(1.109)	99938	50.0000	48
56 BROMODICHLOROMETHANE	83	4.793	4.793	(1.132)	167291	50.0000	45
57 2-CHLOROETHYL VINYL ETHER	63	5.018	5.018	(1.185)	215791	100.000	96
58 cis-1,3-DICHLOROPROPENE	75	5.134	5.134	(1.213)	247806	50.0000	47
59 4-METHYL-2-PENTANONE (MIBK)	43	5.243	5.243	(1.239)	349876	100.000	92
§ 60 TOLUENE-d8	98	5.298	5.298	(1.251)	556068	50.0000	51
61 TOLUENE	92	5.353	5.353	(1.264)	366696	50.0000	50
62 trans-1,3-DICHLOROPROPENE	75	5.572	5.572	(1.316)	236061	50.0000	46
64 1,1,2-TRICHLOROETHANE	83	5.712	5.712	(1.349)	124062	50.0000	49
65 TETRACHLOROETHENE	164	5.748	5.748	(0.893)	149033	50.0000	50
66 1,3-DICHLOROPROPANE	76	5.845	5.845	(1.381)	269937	50.0000	50
67 2-HEXANONE	43	5.882	5.882	(0.914)	272650	100.000	97
68 DIBROMOCHLOROMETHANE	129	5.998	5.998	(0.932)	125753	50.0000	40
69 1,2-DIBROMOETHANE	107	6.101	6.101	(1.441)	153160	50.0000	48
* 71 CHLOROBENZENE-d5	82	6.436	6.436	(1.000)	236507	50.0000	
72 CHLOROBENZENE	112	6.460	6.460	(1.004)	440847	50.0000	50
73 ETHYL BENZENE	91	6.521	6.521	(1.013)	787864	50.0000	52
74 1,1,1,2-TETRACHLOROETHANE	131	6.533	6.533	(1.015)	138158	50.0000	36
75 m,p-XYLENE	106	6.618	6.618	(1.028)	647756	100.000	110
76 o-XYLENE	106	6.940	6.940	(1.078)	302971	50.0000	51
77 STYRENE	104	6.959	6.959	(1.081)	526685	50.0000	54
78 BROMOFORM	173	7.135	7.135	(1.109)	87699	50.0000	33
79 ISOPROPYLBENZENE	105	7.220	7.220	(1.122)	708232	50.0000	53
§ 81 4-BROMOFLUOROENZENE	95	7.391	7.391	(1.148)	222232	50.0000	51
82 BROMOBENZENE	156	7.506	7.506	(1.166)	230673	50.0000	52
83 1,1,2,2-TETRACHLOROETHANE	83	7.531	7.531	(1.170)	224254	50.0000	51

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
85 1 2 3-TRICHLOROPROPANE	110	7.573	7.573	(1.177)	82033	50.0000	52
84 n-PROPYLBENZENE	120	7.561	7.561	(1.175)	241487	50.0000	54
87 2-CHLOROTOLUENE	126	7.652	7.652	(1.189)	211521	50.0000	53
88 1 3 5-TRIMETHYLBENZENE	105	7.713	7.713	(1.198)	724255	50.0000	54
89 4-CHLOROTOLUENE	126	7.750	7.750	(1.204)	220152	50.0000	55
90 a-Methylstyrene TIC	118	7.902	7.902	(1.228)	399588	50.0000	45
91 tert-BUTYLBENZENE	119	7.969	7.969	(1.238)	654808	50.0000	55
93 1 2 4-TRIMETHYLBENZENE	105	8.023	8.023	(1.247)	730045	50.0000	55
94 sec-BUTYLBENZENE	105	8.151	8.151	(1.267)	948663	50.0000	55
96 1 3-DICHLOROBENZENE	146	8.279	8.279	(1.286)	534024	50.0000	49
95 p-ISOPROPYLTOLUENE	119	8.273	8.273	(1.285)	834705	50.0000	43
97 1 4-DICHLOROBENZENE	146	8.358	8.358	(1.299)	487549	50.0000	56
98 n-BUTYLBENZENE	91	8.613	8.613	(1.338)	673058	50.0000	44
99 1 2-DICHLOROBENZENE	146	8.668	8.668	(1.347)	453222	50.0000	55
100 1 2-DIBROMO-3-CHLOROPROPANE	157	9.343	9.343	(1.452)	44038	50.0000	42
101 1 2 4-TRICHLOROBENZENE	180	10.007	10.007	(1.555)	232220	50.0000	39
102 HEXACHLOROBUTADIENE	225	10.098	10.098	(1.569)	154588	50.0000	51
103 NAPHTHALENE	128	10.219	10.219	(1.588)	452650	50.0000	38
104 1 2 3-TRICHLOROBENZENE	180	10.420	10.420	(1.619)	201258	50.0000	39
M 105 1,2-DICHLOROETHENE (total)	96				291804	100.000	94
M 106 1,3-DICHLOROPROPENE (total)	75				483868	100.000	93
M 107 XYLENE (total)	106				950727	150.000	160

Data File: oe2007q.d

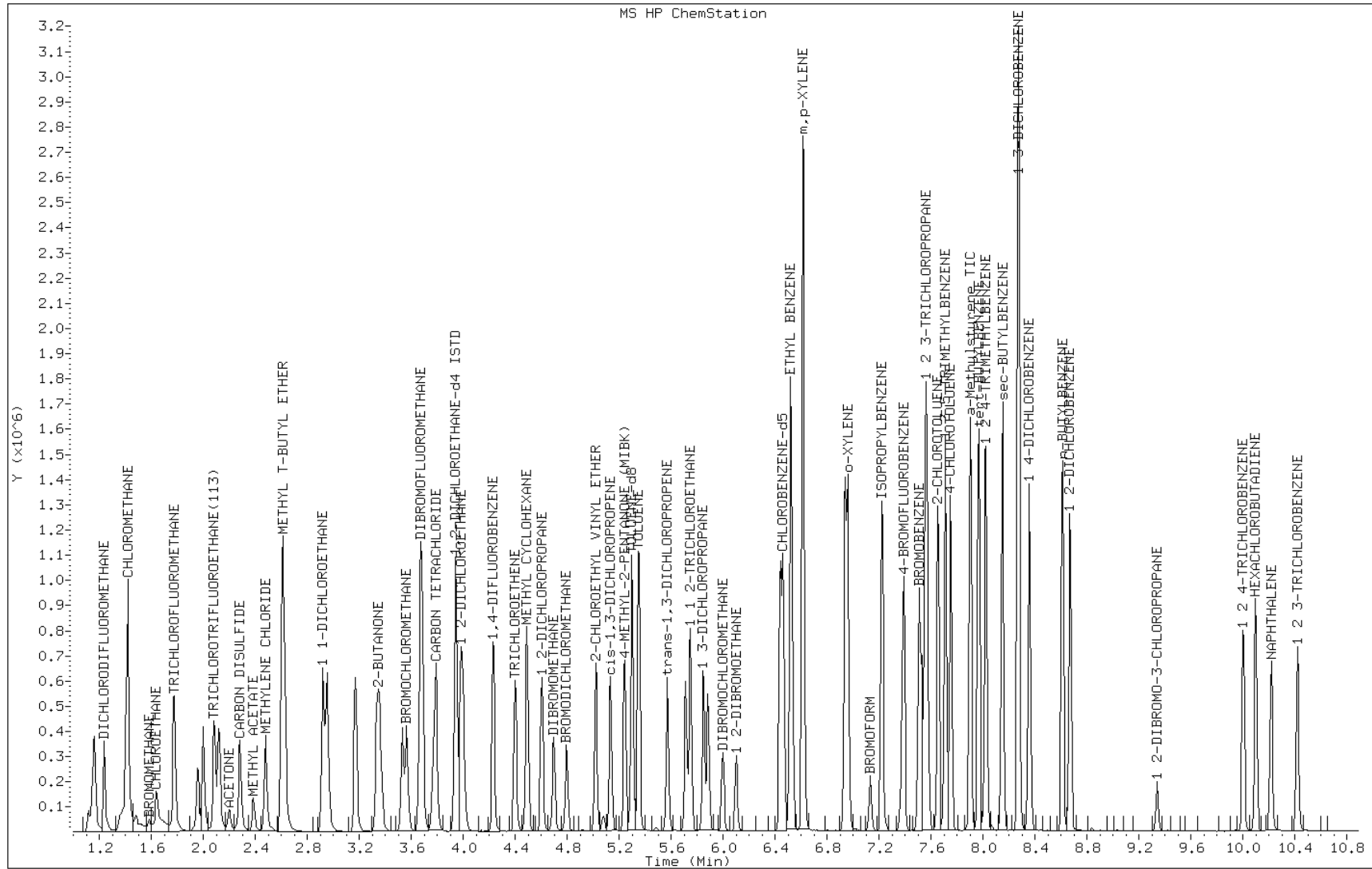
Date: 20-MAY-2013 10:08

Client ID: 8260-050

Instrument: MS05973C2.i

Sample Info: CCVIS;8260-050=[10052013]

Operator: JD



TESTAMERICA SAVANNAH

Data file : /chem/VM/MSO5973.i/2o051613.b/oe1601t.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 16-MAY-2013 15:20
Operator : JD Inst ID: MSO5973.i
Smp Info : 4-BFB=[20051613] BFB TUNE
Misc Info :
Comment :
Method : /chem/VM/MSO5973.i/2o051613.b/O-lbfb-m.m
Meth Date : 28-Jul-2009 11:06 criegner Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem2

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
RT	EXP RT (REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
			ON-COL (ug/L)	FINAL (ug/L)			
1	BFB						CAS #: 460-00-4
7.365	7.147 (0.000)	95	84152		0.00- 100.00	96.82	
7.365	7.147 (0.000)	50	18336		8.00- 40.00	21.79	
7.365	7.147 (0.000)	75	44400		30.00- 66.00	52.76	
7.365	7.147 (0.000)	96	6195		5.00- 9.00	7.36	
7.365	7.147 (0.000)	173	496		0.00- 2.00	0.57	
7.365	7.147 (0.000)	174	86912		50.00- 120.00	103.28	
7.365	7.147 (0.000)	175	6051		4.00- 9.00	6.96	
7.365	7.147 (0.000)	176	84040		93.00- 101.00	96.70	
7.365	7.147 (0.000)	177	5561		5.00- 9.00	6.62	

Data File: oe1601t.d

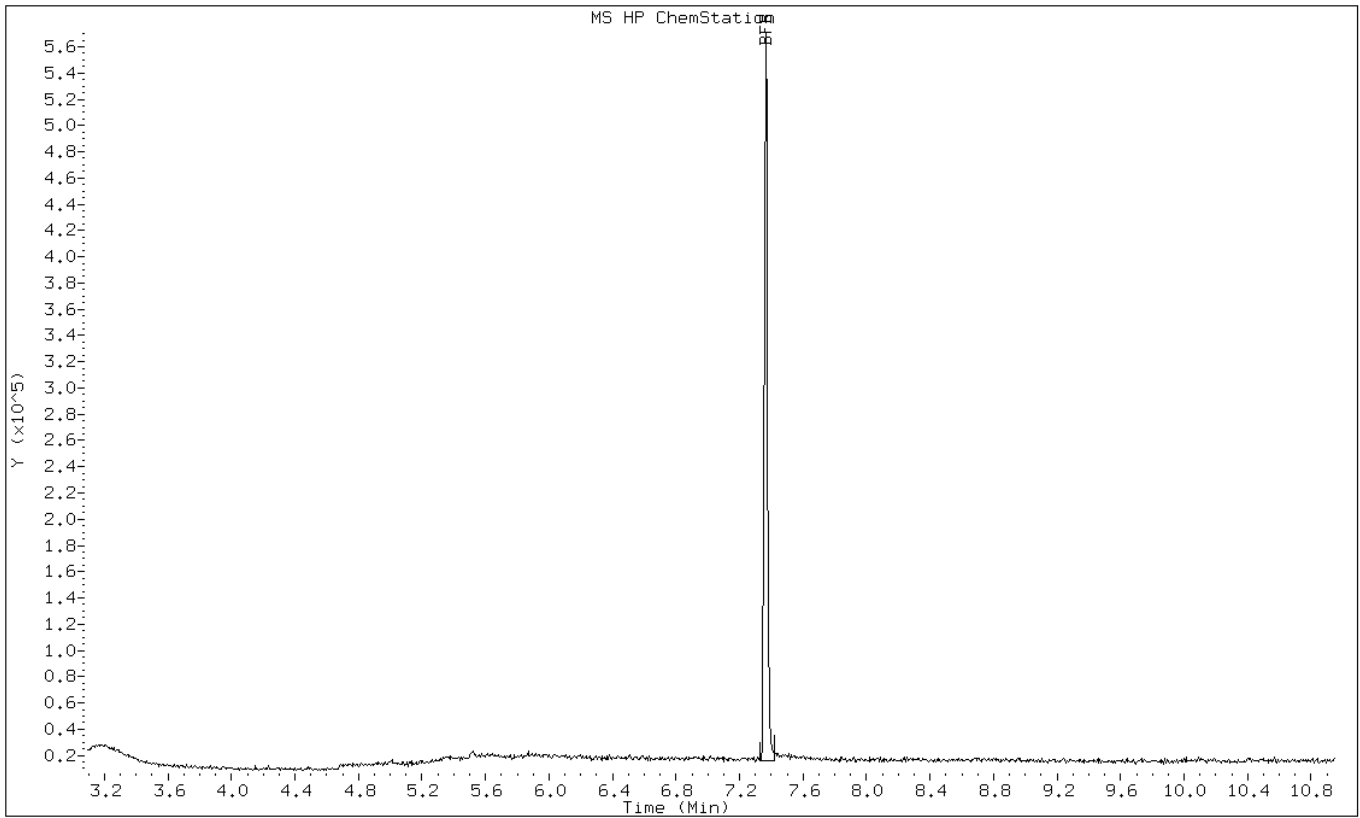
Date: 16-MAY-2013 15:20

Client ID: BFB

Instrument: MS05973C2.i

Sample Info: 4-BFB=[20051613] BFB TUNE

Operator: JD



Data File: oe1601t.d

Date: 16-MAY-2013 15:20

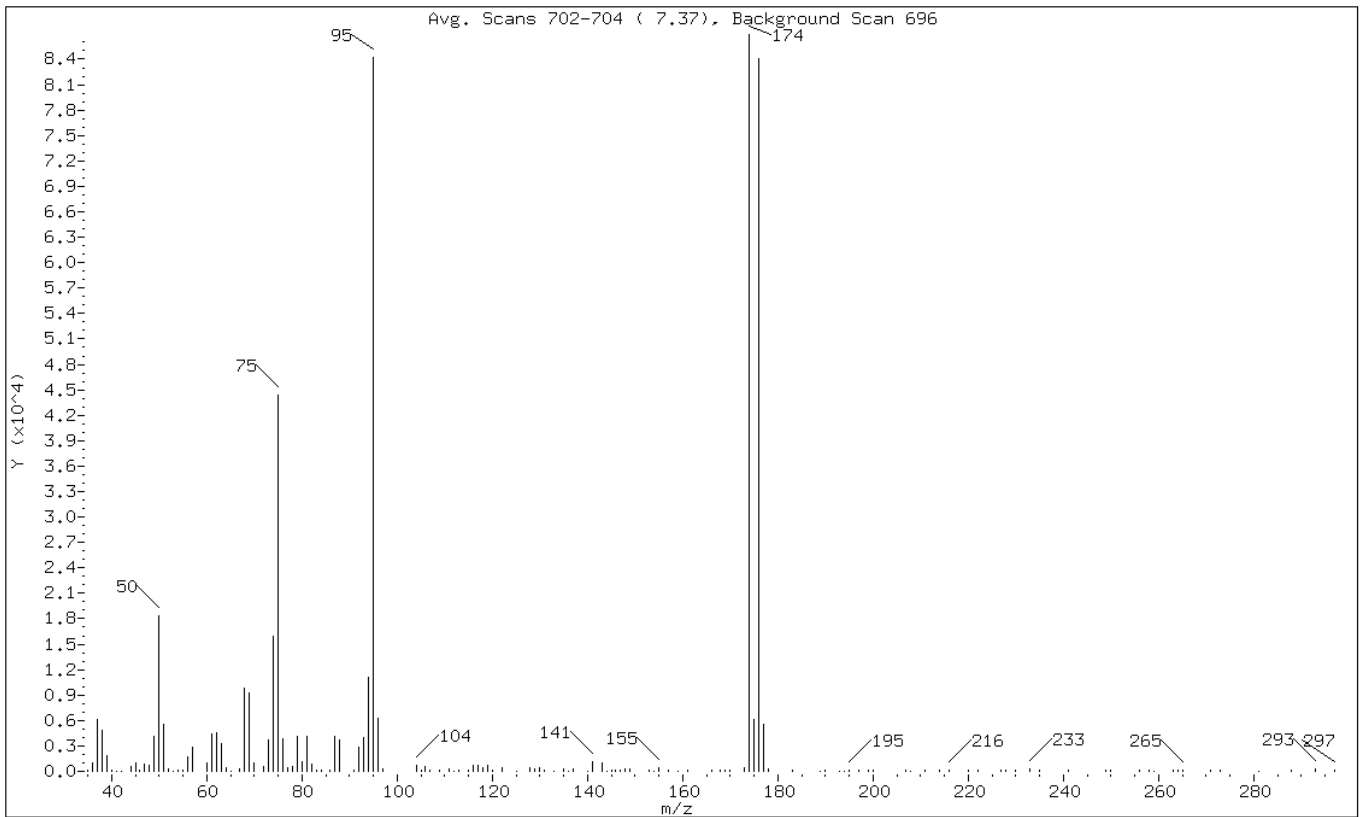
Client ID: BFB

Instrument: MS05973C2.i

Sample Info: 4-BFB=[20051613] BFB TUNE

Operator: JD

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.79
75	30.00 - 66.00% of mass 95	52.76
96	5.00 - 9.00% of mass 95	7.36
173	Less than 2.00% of mass 174	0.59 (0.57)
174	50.00 - 120.00% of mass 95	103.28
175	4.00 - 9.00% of mass 174	7.19 (6.96)
176	93.00 - 101.00% of mass 174	99.87 (96.70)
177	5.00 - 9.00% of mass 176	6.61 (6.62)

Data File: oe1601t.d

Date: 16-MAY-2013 15:20

Client ID: BFB

Instrument: MSO5973C2.i

Sample Info: 4-BFB=[20051613] BFB TUNE

Operator: JD

Data File: /chem/VM/MSO5973C2.i/20051613.b/oe1601t.d
Spectrum: Avg. Scans 702-704 (7.37), Background Scan 696
Location of Maximum: 174.00
Number of points: 140

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	189	76.00	3874	129.00	341	194.00	37
36.00	929	77.00	418	130.00	428	195.00	191
37.00	6119	78.00	581	131.00	186	197.00	105
38.00	4818	79.00	4109	133.00	44	199.00	86
39.00	1807	80.00	1083	135.00	220	200.00	77
40.00	106	81.00	4132	136.00	47	207.00	186
41.00	19	82.00	790	137.00	302	208.00	28
42.00	48	83.00	207	140.00	38	211.00	129
44.00	506	84.00	80	141.00	1137	214.00	124
45.00	1028	86.00	155	143.00	1056	216.00	148
46.00	160	87.00	4093	144.00	43	220.00	114
47.00	884	88.00	3649	145.00	93	222.00	139
48.00	647	91.00	136	146.00	164	227.00	112
49.00	4151	92.00	2912	147.00	120	228.00	102
50.00	18336	93.00	3925	148.00	271	230.00	98
51.00	5609	94.00	11081	149.00	219	233.00	266
52.00	319	95.00	84152	153.00	122	235.00	117
53.00	35	96.00	6195	154.00	37	241.00	96
54.00	82	97.00	237	155.00	368	249.00	109
55.00	169	104.00	757	157.00	208	250.00	104
56.00	1668	105.00	197	159.00	54	256.00	80
57.00	2809	106.00	539	161.00	154	258.00	78
60.00	992	107.00	195	166.00	115	259.00	58
61.00	4467	109.00	92	168.00	122	263.00	101
62.00	4561	111.00	231	169.00	133	264.00	156
63.00	3341	112.00	54	170.00	151	265.00	191
64.00	473	113.00	207	173.00	496	271.00	107
65.00	50	115.00	123	174.00	86912	273.00	93
67.00	319	116.00	677	175.00	6051	281.00	42
68.00	9754	117.00	741	176.00	84040	288.00	102
69.00	9255	118.00	429	177.00	5561	293.00	294
70.00	930	119.00	669	178.00	265	297.00	82
72.00	541	120.00	91	183.00	137		
73.00	3681	122.00	362	189.00	65		
74.00	15867	125.00	34	190.00	98		
75.00	44400	128.00	452	193.00	47		

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Data file : /chem/VM/MS05973.i/1o052013.b/oe2001t.d
 Lab Smp Id: BFB Client Smp ID: BFB
 Inj Date : 20-MAY-2013 08:36
 Operator : JD Inst ID: MS05973.i
 Smp Info : 4-BFB=[10052013] BFB TUNE
 Misc Info :
 Comment :
 Method : /chem/VM/MS05973.i/1o052013.b/O-lbfb-m.m
 Meth Date : 28-Jul-2009 11:06 criegner Quant Type: ISTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: savchem2

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
RT	EXP RT (REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
			ON-COL (ug/L)	FINAL (ug/L)			
1	BFB						CAS #: 460-00-4
7.380	7.147 (0.000)	95	59696		0.00- 100.00	92.29	
7.380	7.147 (0.000)	50	13235		8.00- 40.00	22.17	
7.380	7.147 (0.000)	75	30936		30.00- 66.00	51.82	
7.380	7.147 (0.000)	96	4184		5.00- 9.00	7.01	
7.380	7.147 (0.000)	173	319		0.00- 2.00	0.49	
7.380	7.147 (0.000)	174	64680		50.00- 120.00	108.35	
7.380	7.147 (0.000)	175	4564		4.00- 9.00	7.06	
7.380	7.147 (0.000)	176	63488		93.00- 101.00	98.16	
7.380	7.147 (0.000)	177	4158		5.00- 9.00	6.55	

Data File: oe2001t.d

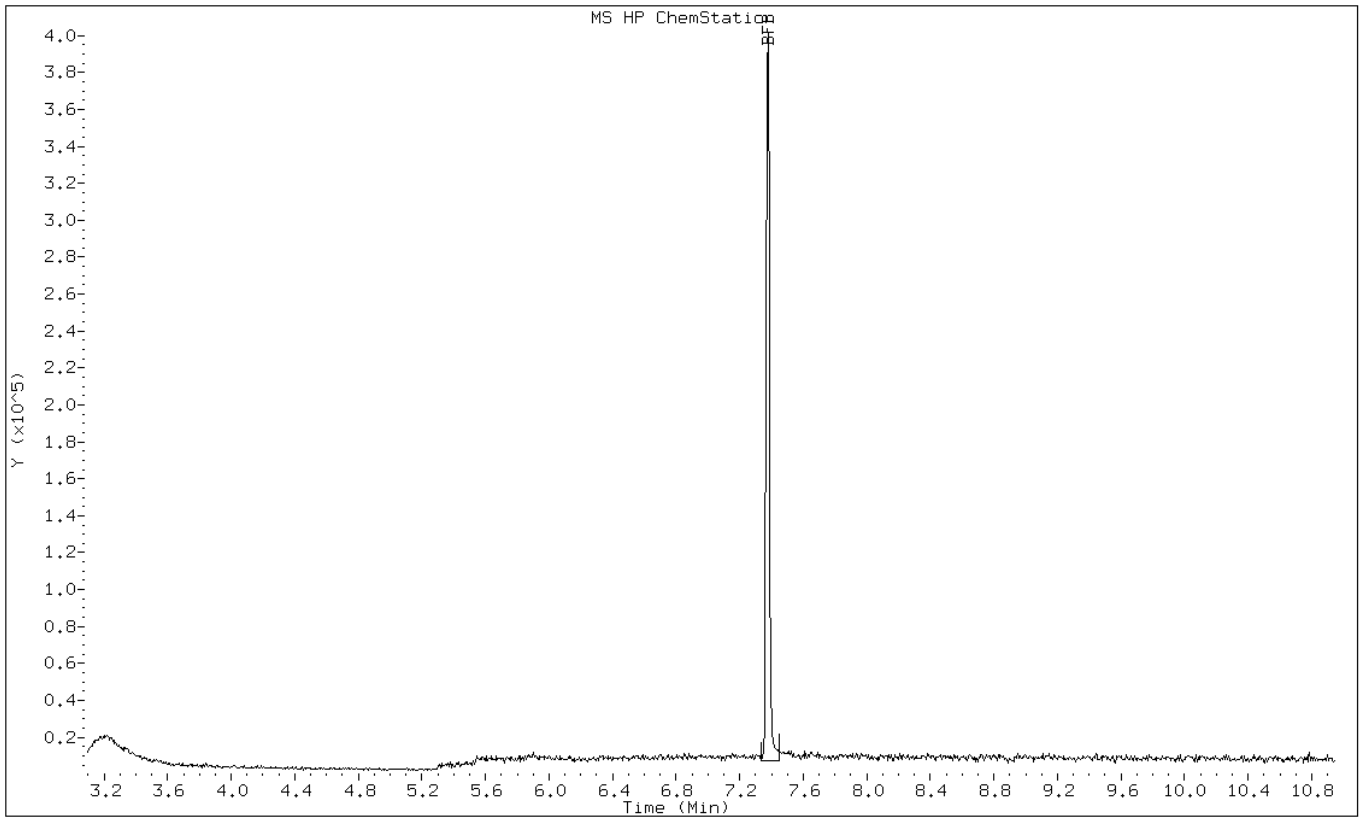
Date: 20-MAY-2013 08:36

Client ID: BFB

Instrument: MS05973C2.i

Sample Info: 4-BFB=[10052013] BFB TUNE

Operator: JD



Data File: oe2001t.d

Date: 20-MAY-2013 08:36

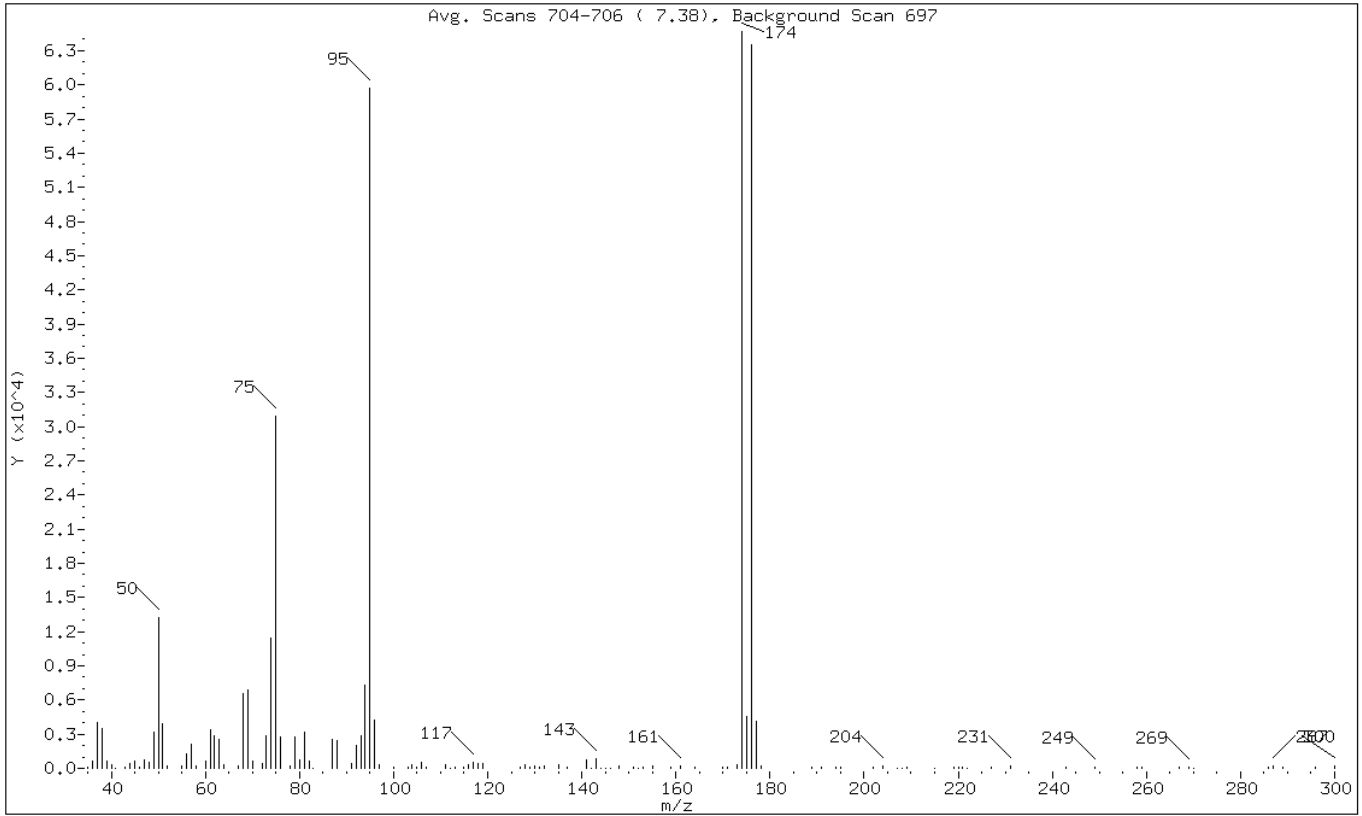
Client ID: BFB

Instrument: MS05973C2.i

Sample Info: 4-BFB=[10052013] BFB TUNE

Operator: JD

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.17
75	30.00 - 66.00% of mass 95	51.82
96	5.00 - 9.00% of mass 95	7.01
173	Less than 2.00% of mass 174	0.53 (0.49)
174	50.00 - 120.00% of mass 95	108.35
175	4.00 - 9.00% of mass 174	7.65 (7.06)
176	93.00 - 101.00% of mass 174	106.35 (98.16)
177	5.00 - 9.00% of mass 176	6.97 (6.55)

Data File: oe2001t.d

Date: 20-MAY-2013 08:36

Client ID: BFB

Instrument: MSO5973C2.i

Sample Info: 4-BFB=[10052013] BFB TUNE

Operator: JD

Data File: /chem/VM/MSO5973C2.i/10052013.b/oe2001t.d
Spectrum: Avg. Scans 704-706 (7.38), Background Scan 697
Location of Maximum: 174.00
Number of points: 122

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	109	73.00	2877	118.00	388	178.00	218
36.00	601	74.00	11396	119.00	433	189.00	78
37.00	4033	75.00	30936	127.00	138	191.00	73
38.00	3465	76.00	2769	128.00	291	194.00	127
39.00	663	78.00	261	129.00	97	195.00	153
40.00	284	79.00	2778	130.00	229	202.00	81
41.00	40	80.00	772	131.00	62	204.00	231
43.00	88	81.00	3131	132.00	230	207.00	10
44.00	473	82.00	674	135.00	290	208.00	15
45.00	684	83.00	35	137.00	146	209.00	110
46.00	132	87.00	2540	141.00	732	215.00	38
47.00	725	88.00	2480	142.00	41	219.00	93
48.00	573	91.00	399	143.00	807	220.00	133
49.00	3153	92.00	2033	144.00	44	221.00	90
50.00	13235	93.00	2893	145.00	43	222.00	35
51.00	3945	94.00	7344	146.00	52	227.00	101
52.00	229	95.00	59696	148.00	173	231.00	170
55.00	239	96.00	4184	151.00	117	243.00	98
56.00	1317	97.00	302	152.00	33	249.00	114
57.00	2108	100.00	127	153.00	114	258.00	106
58.00	243	103.00	74	155.00	201	259.00	76
60.00	621	104.00	351	159.00	84	267.00	96
61.00	3387	105.00	128	161.00	208	269.00	135
62.00	2871	106.00	559	164.00	84	270.00	38
63.00	2492	107.00	125	170.00	94	286.00	111
64.00	272	111.00	303	171.00	112	287.00	160
67.00	203	112.00	49	173.00	319	289.00	152
68.00	6531	113.00	115	174.00	64680	296.00	79
69.00	6905	115.00	75	175.00	4564	300.00	167
70.00	628	116.00	325	176.00	63488		
72.00	391	117.00	561	177.00	4158		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-277297/7
 Matrix: Water Lab File ID: oe2017q.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 12:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.13
75-34-3	1,1-Dichloroethane	ND		1.0	0.25
75-35-4	1,1-Dichloroethene	ND		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.44
106-93-4	1,2-Dibromoethane	ND		1.0	0.25
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.21
107-06-2	1,2-Dichloroethane	ND		1.0	0.10
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.28
78-93-3	2-Butanone	ND		10	1.0
591-78-6	2-Hexanone	ND		10	1.0
108-10-1	4-Methyl-2-pentanone	ND		10	1.0
67-64-1	Acetone	ND		25	5.0
71-43-2	Benzene	ND		1.0	0.25
75-27-4	Bromodichloromethane	ND		1.0	0.25
75-25-2	Bromoform	ND		1.0	0.50
74-83-9	Bromomethane	ND		5.0	2.0
75-15-0	Carbon disulfide	ND		2.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.25
75-00-3	Chloroethane	ND		5.0	2.0
67-66-3	Chloroform	ND		1.0	0.14
74-87-3	Chloromethane	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.11
110-82-7	Cyclohexane	ND		1.0	0.25
124-48-1	Dibromochloromethane	ND		1.0	0.10
75-71-8	Dichlorodifluoromethane	ND		1.0	0.25
100-41-4	Ethylbenzene	ND		1.0	0.11
98-82-8	Isopropylbenzene	ND		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-277297/7
 Matrix: Water Lab File ID: oe2017q.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 12:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		10	0.20
108-87-2	Methylcyclohexane	ND		1.0	0.10
75-09-2	Methylene Chloride	ND		5.0	1.0
100-42-5	Styrene	ND		1.0	0.11
127-18-4	Tetrachloroethene	ND		1.0	0.15
108-88-3	Toluene	ND		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.13
75-69-4	Trichlorofluoromethane	ND		1.0	0.25
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	90		70-130
1868-53-7	Dibromofluoromethane	98		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

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SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/1o052013.b/oe2017q.d
 Lab Smp Id: MB Client Smp ID: 1o052013MB
 Inj Date : 20-MAY-2013 12:36
 Operator : JD Inst ID: MSO5973C2.i
 Smp Info : MB=[10052013]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSO5973C2.i/1o052013.b/O-18260BC2-m.m
 Meth Date : 20-May-2013 10:28 ghenassi Quant Type: ISTD
 Cal Date : 17-MAY-2013 12:53 Cal File: oe1717q.d
 Als bottle: 58 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 40 DIBROMOFLUOROMETHANE	113		3.690	3.686	(0.934)	174957	49.1547	49
* 45 1,2-DICHLOROETHANE-d4 ISTD	65		3.952	3.947	(1.000)	217765	50.0000	
* 48 1,4-DIFLUOROBENZENE	114		4.232	4.233	(1.000)	617051	50.0000	
\$ 60 TOLUENE-d8	98		5.302	5.298	(1.253)	657434	47.5907	48
* 71 CHLOROBENZENE-d5	82		6.440	6.436	(1.000)	290392	50.0000	
\$ 81 4-BROMOFLUOROBENZENE	95		7.389	7.391	(1.147)	240511	44.7576	45

Data File: oe2017q.d

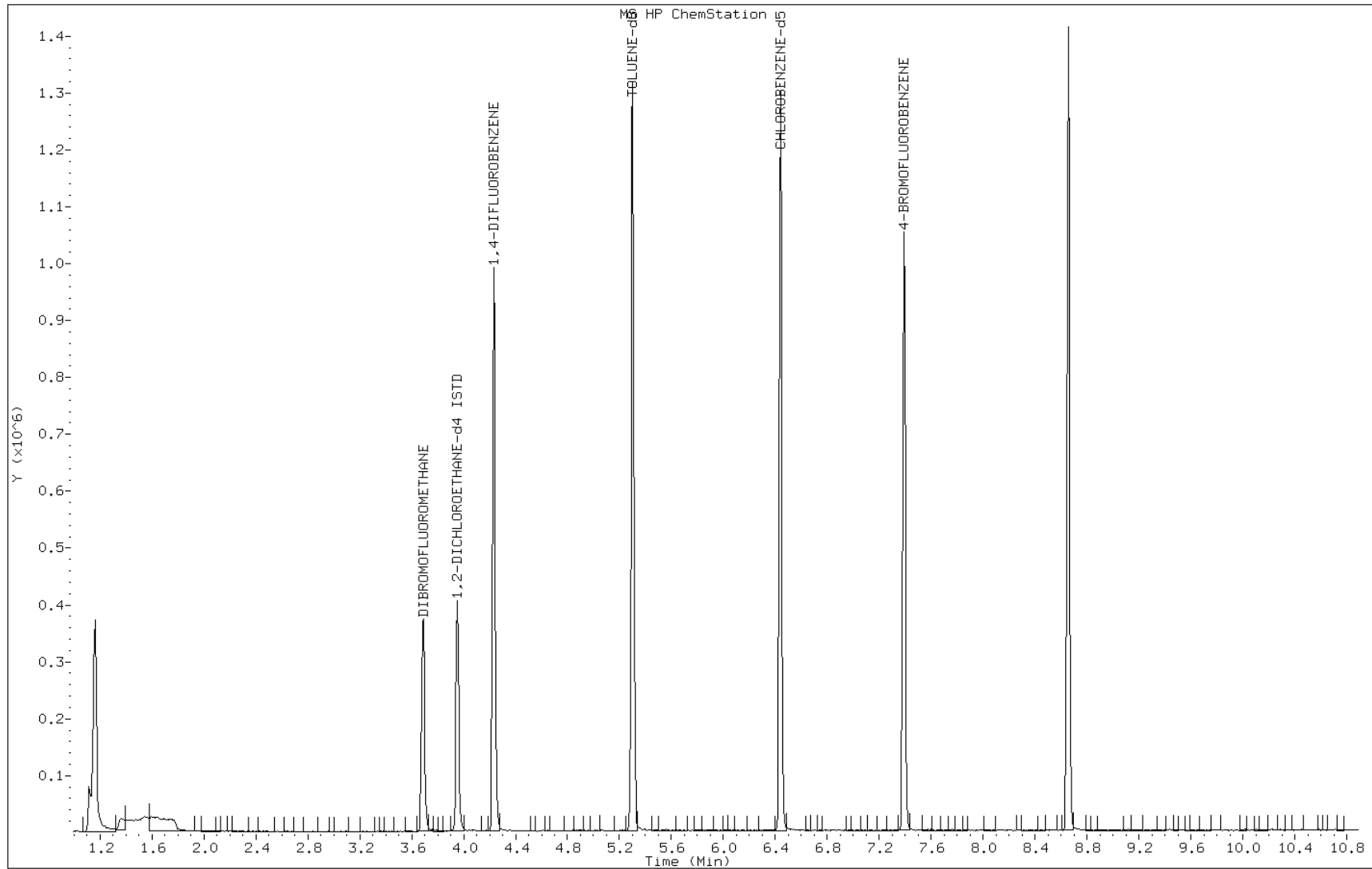
Date: 20-MAY-2013 12:36

Client ID: 1o052013MB

Instrument: MS05973C2.i

Sample Info: MB=[10052013]

Operator: JD



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-277297/4
 Matrix: Water Lab File ID: oe2009q.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 10:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	45.4		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	51.1		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	47.1		1.0	0.50
79-00-5	1,1,2-Trichloroethane	50.7		1.0	0.13
75-34-3	1,1-Dichloroethane	43.5		1.0	0.25
75-35-4	1,1-Dichloroethene	46.5		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	39.6		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	45.4		1.0	0.44
106-93-4	1,2-Dibromoethane	49.3		1.0	0.25
95-50-1	1,2-Dichlorobenzene	56.1		1.0	0.21
107-06-2	1,2-Dichloroethane	49.8		1.0	0.10
78-87-5	1,2-Dichloropropane	42.1		1.0	0.13
541-73-1	1,3-Dichlorobenzene	49.0		1.0	0.25
106-46-7	1,4-Dichlorobenzene	56.8		1.0	0.28
78-93-3	2-Butanone	83.3		10	1.0
591-78-6	2-Hexanone	92.1		10	1.0
108-10-1	4-Methyl-2-pentanone	92.5		10	1.0
67-64-1	Acetone	77.6		25	5.0
71-43-2	Benzene	49.2		1.0	0.25
75-27-4	Bromodichloromethane	44.8		1.0	0.25
75-25-2	Bromoform	34.6		1.0	0.50
74-83-9	Bromomethane	57.5		5.0	2.0
75-15-0	Carbon disulfide	45.2		2.0	0.60
56-23-5	Carbon tetrachloride	39.4		1.0	0.50
108-90-7	Chlorobenzene	51.7		1.0	0.25
75-00-3	Chloroethane	64.7		5.0	2.0
67-66-3	Chloroform	46.1		1.0	0.14
74-87-3	Chloromethane	52.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	45.8		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	40.8		1.0	0.11
110-82-7	Cyclohexane	52.4		1.0	0.25
124-48-1	Dibromochloromethane	40.9		1.0	0.10
75-71-8	Dichlorodifluoromethane	49.0		1.0	0.25
100-41-4	Ethylbenzene	52.2		1.0	0.11
98-82-8	Isopropylbenzene	57.7		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-277297/4
 Matrix: Water Lab File ID: oe2009q.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 10:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	36.0		1.0	0.19
1634-04-4	Methyl tert-butyl ether	90.1		10	0.20
108-87-2	Methylcyclohexane	52.5		1.0	0.10
75-09-2	Methylene Chloride	48.1		5.0	1.0
100-42-5	Styrene	55.0		1.0	0.11
127-18-4	Tetrachloroethene	50.5		1.0	0.15
108-88-3	Toluene	50.5		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	46.6		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	40.8		1.0	0.21
79-01-6	Trichloroethene	46.4		1.0	0.13
75-69-4	Trichlorofluoromethane	57.2		1.0	0.25
75-01-4	Vinyl chloride	53.3		1.0	0.18
1330-20-7	Xylenes, Total	159		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	102		70-130
1868-53-7	Dibromofluoromethane	94		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/1o052013.b/oe2009q.d
 Lab Smp Id: LCS Client Smp ID: 1o052013MBLCS
 Inj Date : 20-MAY-2013 10:38
 Operator : JD Inst ID: MSO5973C2.i
 Smp Info : LCS=[10052013]
 Misc Info :
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSO5973C2.i/1o052013.b/O-18260BC2-m.m
 Meth Date : 20-May-2013 10:28 ghenassi Quant Type: ISTD
 Cal Date : 17-MAY-2013 12:53 Cal File: oe1717q.d
 Als bottle: 54 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.237	1.234	(0.313)	200566	48.9951	49
2 CHLOROMETHANE	50	1.419	1.417	(0.359)	296674	52.2319	52
3 VINYL CHLORIDE	62	1.407	1.405	(0.356)	280879	53.3084	53
4 BUTADIENE	54	1.419	1.417	(0.359)	227584	55.1441	55
5 BROMOMETHANE	96	1.584	1.581	(0.401)	12398	57.4792	57
6 CHLOROETHANE	64	1.638	1.636	(0.415)	79785	64.7237	65
7 TRICHLOROFLUOROMETHANE	101	1.772	1.776	(0.449)	331870	57.1588	57
8 Ethanol	46	1.936	1.925	(0.490)	17949	925.110	930
9 DIETHYL ETHER	59	1.955	1.956	(0.495)	109977	46.3561	46
10 FURAN	68	1.997	1.998	(0.506)	214913	47.1734	47
11 TRICHLOROTRIFLUOROETHANE(113)	101	2.082	2.080	(0.527)	139110	47.0957	47
13 1 1-DICHLOROETHENE	96	2.119	2.116	(0.536)	119370	46.4850	46
14 ACETONE	58	2.198	2.201	(0.556)	25482	77.6009	78

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
16 CARBON DISULFIDE	76		2.277	2.281	(0.576)	388747	45.1986	45
18 METHYL ACETATE	43		2.387	2.384	(0.604)	135336	36.0162	36
20 METHYLENE CHLORIDE	84		2.478	2.475	(0.627)	143166	48.0969	48
21 TERT BUTYL ALCOHOL	59		2.526	2.522	(0.640)	11398	37.3391	37
22 METHYL T-BUTYL ETHER	73		2.606	2.609	(0.660)	850247	90.1143	90
23 trans-1 2-DICHLOROETHENE	96		2.624	2.627	(0.664)	136956	46.6135	47
27 1 1-DICHLOROETHANE	63		2.946	2.944	(0.746)	224486	43.5469	44
28 VINYL ACETATE	43		2.952	2.956	(0.747)	485976	111.025	110
26 ISOPROPYL ETHER	45		2.922	2.917	(0.740)	414211	46.2628	46
32 2-BUTANONE	43		3.372	3.369	(0.854)	147871	83.2657	83
30 2 2-DICHLOROPROPANE	77		3.336	3.333	(0.844)	180868	45.9520	46
31 cis-1 2-DICHLOROETHENE	96		3.354	3.351	(0.849)	149154	45.7583	46
35 TETRAHYDROFURAN	42		3.536	3.544	(0.895)	41051	15.0417	15
34 BROMOCHLOROMETHANE	49		3.530	3.528	(0.894)	153889	51.1216	51
37 CHLOROFORM	83		3.567	3.564	(0.903)	232752	46.0680	46
§ 40 DIBROMOFLUOROMETHANE	113		3.682	3.686	(0.932)	141453	46.7896	47
39 1 1 1-TRICHLOROETHANE	97		3.676	3.680	(0.869)	199789	45.3880	45
38 CYCLOHEXANE	56		3.670	3.668	(0.868)	235260	52.3999	52
41 CARBON TETRACHLORIDE	117		3.768	3.765	(0.891)	147470	39.3910	39
42 1 1-DICHLOROPROPENE	75		3.792	3.789	(0.896)	180845	42.8833	43
* 45 1,2-DICHLOROETHANE-d4 ISTD	65		3.950	3.947	(1.000)	184963	50.0000	
44 BENZENE	78		3.938	3.941	(0.931)	562653	49.1977	49
46 1 2-DICHLOROETHANE	62		4.005	4.002	(0.947)	202053	49.7768	50
* 48 1,4-DIFLUOROBENZENE	114		4.230	4.233	(1.000)	486188	50.0000	
49 TRICHLOROETHENE	130		4.400	4.398	(1.040)	151824	46.3549	46
51 METHYL CYCLOHEXANE	83		4.491	4.489	(1.062)	258079	52.4578	52
52 1 2-DICHLOROPROPANE	63		4.607	4.604	(1.089)	142801	42.1211	42
55 DIBROMOMETHANE	93		4.692	4.696	(1.109)	100741	49.1300	49
54 1,4-DIOXANE	88		4.686	4.681	(1.186)	23353	494.691	490
56 BROMODICHLOROMETHANE	83		4.796	4.793	(1.134)	166198	44.7772	45
57 2-CHLOROETHYL VINYL ETHER	63		5.021	5.018	(1.187)	218437	97.2591	97
58 cis-1,3-DICHLOROPROPENE	75		5.130	5.134	(1.213)	214217	40.8061	41
59 4-METHYL-2-PENTANONE (MIBK)	43		5.240	5.243	(1.239)	351585	92.5412	93
§ 60 TOLUENE-d8	98		5.301	5.298	(1.253)	546901	50.2453	50
61 TOLUENE	92		5.349	5.353	(1.265)	366650	50.4669	50
62 trans-1,3-DICHLOROPROPENE	75		5.574	5.572	(1.318)	208763	40.8329	41
64 1 1 2-TRICHLOROETHANE	83		5.714	5.712	(1.351)	128889	50.6941	51
65 TETRACHLOROETHENE	164		5.745	5.748	(0.892)	148866	50.4723	50
66 1 3-DICHLOROPROPANE	76		5.848	5.845	(1.383)	235616	43.8416	44
67 2-HEXANONE	43		5.885	5.882	(0.914)	257167	92.0518	92
68 DIBROMOCHLOROMETHANE	129		6.000	5.998	(0.932)	128627	40.8971	41
69 1 2-DIBROMOETHANE	107		6.104	6.101	(1.443)	155587	49.2534	49
* 71 CHLOROBENZENE-d5	82		6.438	6.436	(1.000)	234644	50.0000	
72 CHLOROBENZENE	112		6.463	6.460	(1.004)	449142	51.6867	52
73 ETHYL BENZENE	91		6.517	6.521	(1.012)	781316	52.2240	52
74 1,1,1,2-TETRACHLOROETHANE	131		6.529	6.533	(1.014)	137005	36.0919	36
75 m,p-XYLENE	106		6.615	6.618	(1.027)	653472	108.478	110

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
76 o-XYLENE		106	6.937	6.940	(1.077)	297123	50.7525	51
77 STYRENE		104	6.961	6.959	(1.081)	529470	55.0249	55
78 BROMOFORM		173	7.132	7.135	(1.108)	92606	34.5992	35
79 ISOPROPYLBENZENE		105	7.223	7.220	(1.122)	767963	57.6645	58
80 CYCLOHEXANONE		55	7.369	7.370	(1.145)	73956	493.373	490
§ 81 4-BROMOFLUOROBENZENE		95	7.387	7.391	(1.147)	222200	51.1743	51
82 BROMOBENZENE		156	7.509	7.506	(1.166)	233680	52.7433	53
83 1,1,2,2-TETRACHLOROETHANE		83	7.527	7.531	(1.169)	223367	51.0520	51
85 1 2 3-TRICHLOROPROPANE		110	7.576	7.573	(1.177)	71770	45.7492	46
84 n-PROPYLBENZENE		120	7.558	7.561	(1.174)	242589	54.1821	54
87 2-CHLOROTOLUENE		126	7.655	7.652	(1.189)	215307	54.1311	54
88 1 3 5-TRIMETHYLBENZENE		105	7.710	7.713	(1.197)	707915	53.0159	53
89 4-CHLOROTOLUENE		126	7.752	7.750	(1.204)	227140	56.8670	57
90 a-Methylstyrene TIC		118	7.904	7.902	(1.228)	414545	46.7392	47
91 tert-BUTYLBENZENE		119	7.965	7.969	(1.237)	642819	54.4250	54
93 1 2 4-TRIMETHYLBENZENE		105	8.020	8.023	(1.246)	717357	54.6262	55
94 sec-BUTYLBENZENE		105	8.148	8.151	(1.266)	959851	56.0741	56
96 1 3-DICHLOROBENZENE		146	8.275	8.279	(1.285)	532203	48.9609	49
95 p-ISOPROPYLTOLUENE		119	8.269	8.273	(1.284)	838336	43.2975	43
97 1 4-DICHLOROBENZENE		146	8.354	8.358	(1.298)	493664	56.8025	57
98 n-BUTYLBENZENE		91	8.610	8.613	(1.337)	648897	42.4358	42
99 1 2-DICHLOROBENZENE		146	8.671	8.668	(1.347)	460730	56.0510	56
100 1 2-DIBROMO-3-CHLOROPROPANE		157	9.340	9.343	(1.451)	47407	45.3982	45
101 1 2 4-TRICHLOROBENZENE		180	10.003	10.007	(1.554)	235742	39.5630	40
102 HEXACHLOROBUTADIENE		225	10.100	10.098	(1.569)	156325	52.2208	52
103 NAPHTHALENE		128	10.216	10.219	(1.587)	439577	37.6829	38
104 1 2 3-TRICHLOROBENZENE		180	10.423	10.420	(1.619)	206836	40.6230	41
M 105 1,2-DICHLOROETHENE (total)		96				286110	92.3718	92
M 106 1,3-DICHLOROPROPENE (total)		75				422980	81.6390	82
M 107 XYLENE (total)		106				950595	159.230	160

Data File: oe2009q.d

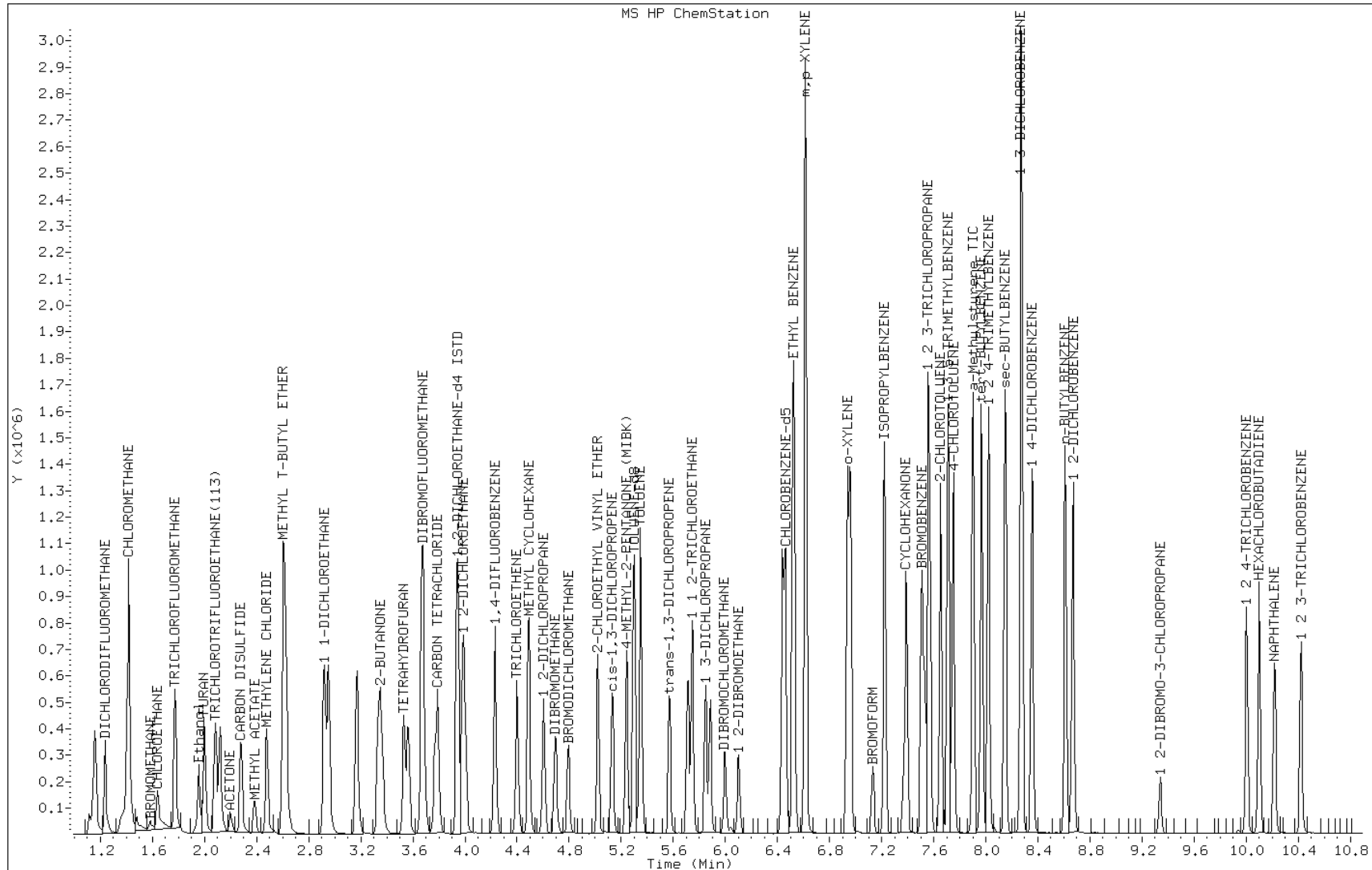
Date: 20-MAY-2013 10:38

Client ID: 1o052013MBLCS

Instrument: MS05973C2.i

Sample Info: LCS=[10052013]

Operator: JD



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-277297/5
 Matrix: Water Lab File ID: oe2011q.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 11:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	46.8		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	50.9		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	47.0		1.0	0.50
79-00-5	1,1,2-Trichloroethane	48.3		1.0	0.13
75-34-3	1,1-Dichloroethane	45.8		1.0	0.25
75-35-4	1,1-Dichloroethene	47.1		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	36.0		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	43.2		1.0	0.44
106-93-4	1,2-Dibromoethane	49.3		1.0	0.25
95-50-1	1,2-Dichlorobenzene	54.6		1.0	0.21
107-06-2	1,2-Dichloroethane	51.4		1.0	0.10
78-87-5	1,2-Dichloropropane	47.1		1.0	0.13
541-73-1	1,3-Dichlorobenzene	48.1		1.0	0.25
106-46-7	1,4-Dichlorobenzene	54.6		1.0	0.28
78-93-3	2-Butanone	88.2		10	1.0
591-78-6	2-Hexanone	97.6		10	1.0
108-10-1	4-Methyl-2-pentanone	92.8		10	1.0
67-64-1	Acetone	87.4		25	5.0
71-43-2	Benzene	49.1		1.0	0.25
75-27-4	Bromodichloromethane	45.1		1.0	0.25
75-25-2	Bromoform	34.8		1.0	0.50
74-83-9	Bromomethane	57.0		5.0	2.0
75-15-0	Carbon disulfide	44.6		2.0	0.60
56-23-5	Carbon tetrachloride	38.5		1.0	0.50
108-90-7	Chlorobenzene	49.9		1.0	0.25
75-00-3	Chloroethane	64.0		5.0	2.0
67-66-3	Chloroform	46.2		1.0	0.14
74-87-3	Chloromethane	51.5		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	46.4		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	47.3		1.0	0.11
110-82-7	Cyclohexane	47.4		1.0	0.25
124-48-1	Dibromochloromethane	41.3		1.0	0.10
75-71-8	Dichlorodifluoromethane	46.0		1.0	0.25
100-41-4	Ethylbenzene	50.9		1.0	0.11
98-82-8	Isopropylbenzene	52.5		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-277297/5
 Matrix: Water Lab File ID: oe2011q.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 11:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	37.6		1.0	0.19
1634-04-4	Methyl tert-butyl ether	93.2		10	0.20
108-87-2	Methylcyclohexane	48.8		1.0	0.10
75-09-2	Methylene Chloride	45.9		5.0	1.0
100-42-5	Styrene	54.1		1.0	0.11
127-18-4	Tetrachloroethene	49.6		1.0	0.15
108-88-3	Toluene	49.8		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	46.3		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	46.1		1.0	0.21
79-01-6	Trichloroethene	48.0		1.0	0.13
75-69-4	Trichlorofluoromethane	57.1		1.0	0.25
75-01-4	Vinyl chloride	52.3		1.0	0.18
1330-20-7	Xylenes, Total	157		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	100		70-130
1868-53-7	Dibromofluoromethane	95		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/1o052013.b/oe2011q.d
Lab Smp Id: LCSD Client Smp ID: 1o052013MBLCSD
Inj Date : 20-MAY-2013 11:07
Operator : JD Inst ID: MSO5973C2.i
Smp Info : LCSD=[10052013]
Misc Info :
Comment : PURGE & TRAP ANALYSIS
Method : /chem/VM/MSO5973C2.i/1o052013.b/O-18260BC2-m.m
Meth Date : 20-May-2013 10:28 ghenassi Quant Type: ISTD
Cal Date : 17-MAY-2013 12:53 Cal File: oe1717q.d
Als bottle: 55 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
Target Version: 3.50
Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.237	1.234	(0.313)	191617	45.9719	46
2 CHLOROMETHANE	50	1.420	1.417	(0.359)	297778	51.4887	51
3 VINYL CHLORIDE	62	1.408	1.405	(0.356)	280794	52.3393	52
4 BUTADIENE	54	1.420	1.417	(0.359)	227220	54.0713	54
5 BROMOMETHANE	96	1.584	1.581	(0.401)	12509	56.9868	57
6 CHLOROETHANE	64	1.639	1.636	(0.415)	80311	63.9853	64
7 TRICHLOROFLUOROMETHANE	101	1.773	1.776	(0.449)	337440	57.0788	57
8 Ethanol	46	1.937	1.925	(0.490)	17590	890.393	890
9 DIETHYL ETHER	59	1.955	1.956	(0.495)	108120	44.7583	45
10 FURAN	68	1.998	1.998	(0.506)	206091	44.4280	44
11 TRICHLOROTRIFLUOROETHANE(113)	101	2.083	2.080	(0.527)	141280	46.9749	47
13 1 1-DICHLOROETHENE	96	2.119	2.116	(0.536)	123144	47.0971	47
14 ACETONE	58	2.198	2.201	(0.556)	29229	87.4199	87

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
15 IODOMETHANE	142	2.253	2.248	(0.570)	6892	3.61747	3.6
16 CARBON DISULFIDE	76	2.277	2.281	(0.576)	390452	44.5850	45
18 METHYL ACETATE	43	2.381	2.384	(0.603)	144046	37.6486	38
20 METHYLENE CHLORIDE	84	2.478	2.475	(0.627)	138964	45.8503	46
21 TERT BUTYL ALCOHOL	59	2.527	2.522	(0.640)	11428	36.7679	37
22 METHYL T-BUTYL ETHER	73	2.606	2.609	(0.660)	895283	93.1906	93
23 trans-1 2-DICHLOROETHENE	96	2.624	2.627	(0.664)	138403	46.2635	46
27 1 1-DICHLOROETHANE	63	2.947	2.944	(0.746)	240173	45.7568	46
28 VINYL ACETATE	43	2.953	2.956	(0.747)	453094	101.662	100
26 ISOPROPYL ETHER	45	2.916	2.917	(0.738)	404692	44.3913	44
32 2-BUTANONE	43	3.372	3.369	(0.854)	159512	88.2144	88
30 2 2-DICHLOROPROPANE	77	3.336	3.333	(0.844)	184846	46.1228	46
31 cis-1 2-DICHLOROETHENE	96	3.354	3.351	(0.849)	153925	46.3775	46
35 TETRAHYDROFURAN	42	3.537	3.544	(0.895)	41449	14.9160	15
34 BROMOCHLOROMETHANE	49	3.531	3.528	(0.894)	149407	48.7451	49
37 CHLOROFORM	83	3.567	3.564	(0.903)	237682	46.2025	46
\$ 40 DIBROMOFLUOROMETHANE	113	3.683	3.686	(0.932)	146016	47.4352	47
39 1 1 1-TRICHLOROETHANE	97	3.677	3.680	(0.869)	210399	46.7667	47
38 CYCLOHEXANE	56	3.664	3.668	(0.866)	217366	47.3693	47
41 CARBON TETRACHLORIDE	117	3.768	3.765	(0.891)	147139	38.4543	38
42 1 1-DICHLOROPROPENE	75	3.792	3.789	(0.896)	213193	49.4627	49
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.950	3.947	(1.000)	188331	50.0000	
44 BENZENE	78	3.938	3.941	(0.931)	573500	49.0637	49
46 1 2-DICHLOROETHANE	62	4.005	4.002	(0.947)	213252	51.4018	51
* 48 1,4-DIFLUOROBENZENE	114	4.230	4.233	(1.000)	496914	50.0000	
49 TRICHLOROETHENE	130	4.401	4.398	(1.040)	160523	47.9530	48
51 METHYL CYCLOHEXANE	83	4.492	4.489	(1.062)	245596	48.8429	49
52 1 2-DICHLOROPROPANE	63	4.601	4.604	(1.088)	163245	47.1120	47
55 DIBROMOMETHANE	93	4.693	4.696	(1.109)	102195	48.7633	49
54 1,4-DIOXANE	88	4.686	4.681	(1.186)	23934	497.932	500
56 BROMODICHLOROMETHANE	83	4.796	4.793	(1.134)	171061	45.0926	45
57 2-CHLOROETHYL VINYL ETHER	63	5.021	5.018	(1.187)	220665	96.1303	96
58 cis-1,3-DICHLOROPROPENE	75	5.131	5.134	(1.213)	253809	47.3044	47
59 4-METHYL-2-PENTANONE (MIBK)	43	5.240	5.243	(1.239)	360526	92.8462	93
\$ 60 TOLUENE-d8	98	5.301	5.298	(1.253)	552074	49.6257	50
61 TOLUENE	92	5.350	5.353	(1.265)	369435	49.7526	50
62 trans-1,3-DICHLOROPROPENE	75	5.569	5.572	(1.316)	240934	46.1082	46
64 1 1 2-TRICHLOROETHANE	83	5.709	5.712	(1.349)	125501	48.2961	48
65 TETRACHLOROETHENE	164	5.745	5.748	(0.892)	150216	49.6457	50
66 1 3-DICHLOROPROPANE	76	5.848	5.845	(1.383)	273513	49.7946	50
67 2-HEXANONE	43	5.885	5.882	(0.914)	279854	97.6465	98
68 DIBROMOCHLOROMETHANE	129	6.001	5.998	(0.932)	133187	41.2791	41
69 1 2-DIBROMOETHANE	107	6.104	6.101	(1.443)	159286	49.3359	49
* 71 CHLOROBENZENE-d5	82	6.439	6.436	(1.000)	240714	50.0000	
72 CHLOROBENZENE	112	6.463	6.460	(1.004)	444456	49.8577	50
73 ETHYL BENZENE	91	6.518	6.521	(1.012)	781133	50.8951	51
74 1,1,1,2-TETRACHLOROETHANE	131	6.530	6.533	(1.014)	142543	36.6039	37

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	==	=====	=====	=====	=====	=====	=====
75 m,p-XYLENE		106	6.615	6.618	(1.027)	653535	105.752	110
76 o-XYLENE		106	6.937	6.940	(1.077)	306058	50.9604	51
77 STYRENE		104	6.962	6.959	(1.081)	534245	54.1211	54
78 BROMOFORM		173	7.132	7.135	(1.108)	95686	34.8399	35
79 ISOPROPYLBENZENE		105	7.223	7.220	(1.122)	717939	52.5489	53
80 CYCLOHEXANONE		55	7.369	7.370	(1.145)	74107	481.914	480
§ 81 4-BROMOFLUOROBENZENE		95	7.388	7.391	(1.147)	223370	50.1465	50
82 BROMOBENZENE		156	7.509	7.506	(1.166)	233882	51.4577	51
83 1,1,2,2-TETRACHLOROETHANE		83	7.527	7.531	(1.169)	228553	50.9200	51
85 1,2,3-TRICHLOROPROPANE		110	7.576	7.573	(1.177)	84588	52.5603	53
84 n-PROPYLBENZENE		120	7.558	7.561	(1.174)	244861	53.3104	53
87 2-CHLOROTOLUENE		126	7.655	7.652	(1.189)	211679	51.8769	52
88 1,3,5-TRIMETHYLBENZENE		105	7.710	7.713	(1.197)	714791	52.1810	52
89 4-CHLOROTOLUENE		126	7.753	7.750	(1.204)	221892	54.1522	54
90 a-Methylstyrene TIC		118	7.905	7.902	(1.228)	406347	44.6596	45
91 tert-BUTYLBENZENE		119	7.965	7.969	(1.237)	657205	54.2399	54
93 1,2,4-TRIMETHYLBENZENE		105	8.020	8.023	(1.246)	695563	51.6310	52
94 sec-BUTYLBENZENE		105	8.148	8.151	(1.266)	957495	54.5260	55
96 1,3-DICHLOROBENZENE		146	8.276	8.279	(1.285)	536748	48.1338	48
95 p-ISOPROPYLTOLUENE		119	8.270	8.273	(1.284)	819564	41.2606	41
97 1,4-DICHLOROBENZENE		146	8.361	8.358	(1.299)	486613	54.5793	55
98 n-BUTYLBENZENE		91	8.610	8.613	(1.337)	642940	40.9859	41
99 1,2-DICHLOROBENZENE		146	8.671	8.668	(1.347)	460685	54.6323	55
100 1,2-DIBROMO-3-CHLOROPROPANE		157	9.340	9.343	(1.451)	46227	43.1519	43
101 1,2,4-TRICHLOROBENZENE		180	10.003	10.007	(1.554)	220256	36.0319	36
102 HEXACHLOROBUTADIENE		225	10.101	10.098	(1.569)	157297	51.2205	51
103 NAPHTHALENE		128	10.216	10.219	(1.587)	423049	35.3515	35
104 1,2,3-TRICHLOROBENZENE		180	10.423	10.420	(1.619)	197237	37.7609	38
M 105 1,2-DICHLOROETHENE (total)		96				292328	92.6410	93
M 106 1,3-DICHLOROPROPENE (total)		75				494743	93.4126	93
M 107 XYLENE (total)		106				959593	156.713	160

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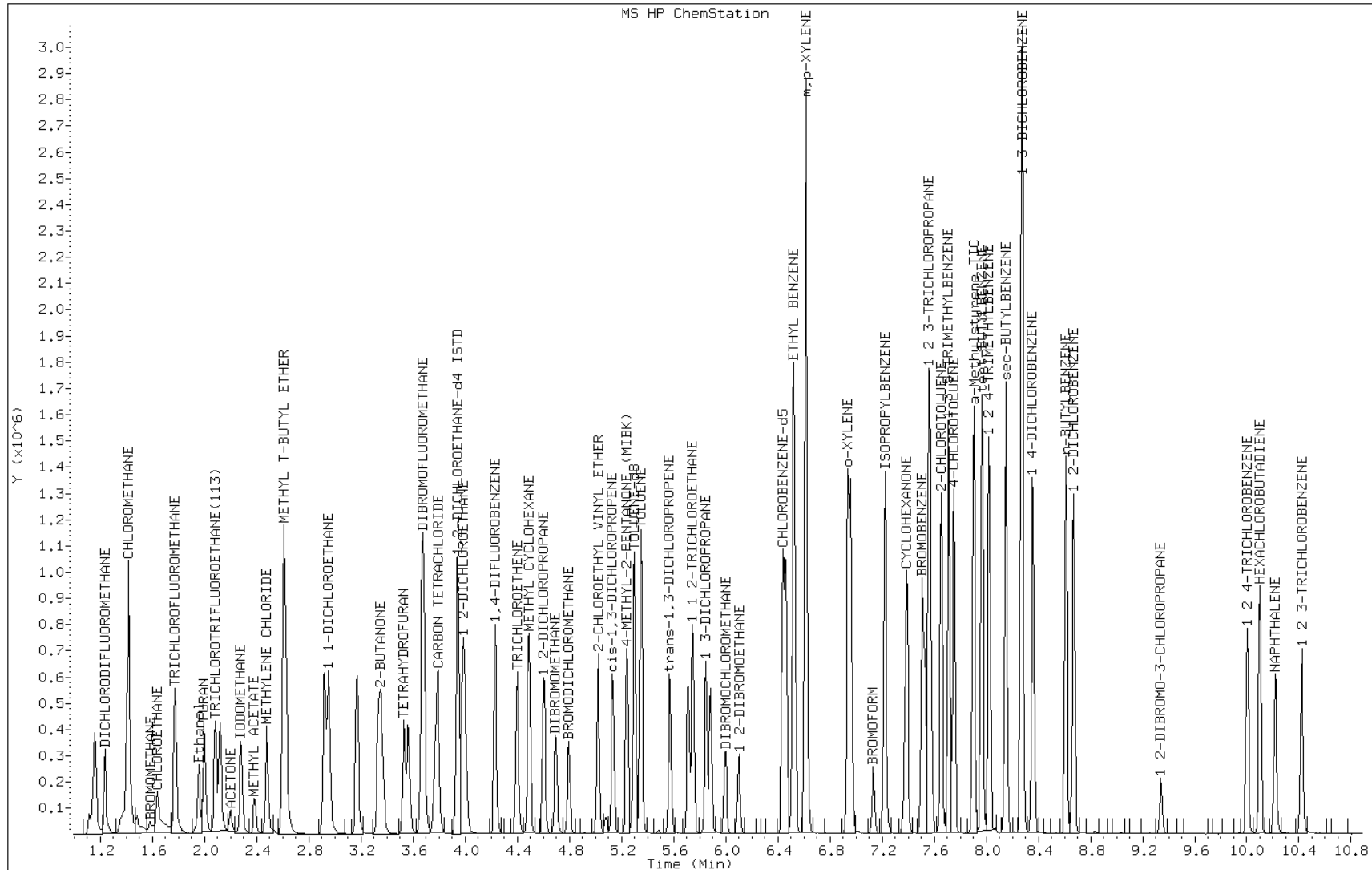
Date: 20-MAY-2013 11:07

Client ID: 1o052013MBLCSD

Instrument: MS05973C2.i

Sample Info: LCSD=[10052013]

Operator: JD



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20101 MS Lab Sample ID: 680-90122-3 MS
 Matrix: Water Lab File ID: oe2047.d
 Analysis Method: 8260B Date Collected: 05/08/2013 15:30
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 20:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	47.7		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	56.2		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	55.8		1.0	0.50
79-00-5	1,1,2-Trichloroethane	51.1		1.0	0.13
75-34-3	1,1-Dichloroethane	53.1		1.0	0.25
75-35-4	1,1-Dichloroethene	54.3		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	44.3		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	42.3		1.0	0.44
106-93-4	1,2-Dibromoethane	49.9		1.0	0.25
95-50-1	1,2-Dichlorobenzene	66.8		1.0	0.21
107-06-2	1,2-Dichloroethane	55.3		1.0	0.10
78-87-5	1,2-Dichloropropane	52.3		1.0	0.13
541-73-1	1,3-Dichlorobenzene	59.1		1.0	0.25
106-46-7	1,4-Dichlorobenzene	67.4		1.0	0.28
78-93-3	2-Butanone	91.6		10	1.0
591-78-6	2-Hexanone	102		10	1.0
108-10-1	4-Methyl-2-pentanone	99.3		10	1.0
67-64-1	Acetone	94.1		25	5.0
71-43-2	Benzene	72.0		1.0	0.25
75-27-4	Bromodichloromethane	44.8		1.0	0.25
75-25-2	Bromoform	29.0		1.0	0.50
74-83-9	Bromomethane	62.7		5.0	2.0
75-15-0	Carbon disulfide	52.6		2.0	0.60
56-23-5	Carbon tetrachloride	34.1		1.0	0.50
108-90-7	Chlorobenzene	55.2		1.0	0.25
75-00-3	Chloroethane	83.7		5.0	2.0
67-66-3	Chloroform	51.3		1.0	0.14
74-87-3	Chloromethane	61.8		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	54.2		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	43.6		1.0	0.11
110-82-7	Cyclohexane	57.4		1.0	0.25
124-48-1	Dibromochloromethane	36.9		1.0	0.10
75-71-8	Dichlorodifluoromethane	53.7		1.0	0.25
100-41-4	Ethylbenzene	68.3		1.0	0.11
98-82-8	Isopropylbenzene	61.7		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20101 MS Lab Sample ID: 680-90122-3 MS
 Matrix: Water Lab File ID: oe2047.d
 Analysis Method: 8260B Date Collected: 05/08/2013 15:30
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 20:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	36.5		1.0	0.19
1634-04-4	Methyl tert-butyl ether	92.5		10	0.20
108-87-2	Methylcyclohexane	55.1		1.0	0.10
75-09-2	Methylene Chloride	50.7		5.0	1.0
100-42-5	Styrene	61.2		1.0	0.11
127-18-4	Tetrachloroethene	55.8		1.0	0.15
108-88-3	Toluene	57.5		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	53.0		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	41.4		1.0	0.21
79-01-6	Trichloroethene	54.5		1.0	0.13
75-69-4	Trichlorofluoromethane	71.1		1.0	0.25
75-01-4	Vinyl chloride	63.9		1.0	0.18
1330-20-7	Xylenes, Total	182		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	113		70-130
1868-53-7	Dibromofluoromethane	104		70-130
2037-26-5	Toluene-d8 (Surr)	112		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/1o052013.b/oe2047.d
 Lab Smp Id: 680-90122-E-3 MS Client Smp ID: 25LM20101
 Inj Date : 20-MAY-2013 20:00
 Operator : JD Inst ID: MSO5973C2.i
 Smp Info : 680-90122-E-3 MS=[10052013]
 Misc Info : 680-90122-E-3 MS
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSO5973C2.i/1o052013.b/O-18260BC2-m.m
 Meth Date : 20-May-2013 10:28 ghenassi Quant Type: ISTD
 Cal Date : 17-MAY-2013 12:53 Cal File: oe1717q.d
 Als bottle: 73 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.236	1.234	(0.313)	213087	53.7093	54
2 CHLOROMETHANE	50	1.419	1.417	(0.359)	340128	61.7867	62
3 VINYL CHLORIDE	62	1.407	1.405	(0.356)	326416	63.9212	64
4 BUTADIENE	54	1.419	1.417	(0.359)	261759	65.4418	65
5 BROMOMETHANE	96	1.583	1.581	(0.401)	13171	62.6528	63
6 CHLOROETHANE	64	1.638	1.636	(0.415)	100010	83.7109	84(R)
7 TRICHLOROFLUOROMETHANE	101	1.772	1.776	(0.449)	400075	71.0973	71
8 Ethanol	46	1.936	1.925	(0.490)	17789	946.022	950
9 DIETHYL ETHER	59	1.954	1.956	(0.495)	105681	45.9619	46
10 FURAN	68	1.997	1.998	(0.506)	220737	49.9927	50
11 TRICHLOROTRIFLUOROETHANE(113)	101	2.082	2.080	(0.527)	159698	55.7851	56
13 1 1-DICHLOROETHENE	96	2.118	2.116	(0.536)	135098	54.2829	54
14 ACETONE	58	2.197	2.201	(0.556)	29941	94.0797	94

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
16 CARBON DISULFIDE	76	2.283	2.281	(0.578)	438089	52.5553	53
18 METHYL ACETATE	43	2.386	2.384	(0.604)	132959	36.5090	37
20 METHYLENE CHLORIDE	84	2.477	2.475	(0.627)	146250	50.6955	51
21 TERT BUTYL ALCOHOL	59	2.532	2.522	(0.641)	7347	24.8337	25
22 METHYL T-BUTYL ETHER	73	2.605	2.609	(0.660)	846262	92.5444	93
23 trans-1 2-DICHLOROETHENE	96	2.623	2.627	(0.664)	150818	52.9639	53
27 1 1-DICHLOROETHANE	63	2.946	2.944	(0.746)	265232	53.0873	53
28 VINYL ACETATE	43	2.958	2.956	(0.749)	334627	78.8794	79
26 ISOPROPYL ETHER	45	2.921	2.917	(0.740)	396633	45.7084	46
32 2-BUTANONE	43	3.372	3.369	(0.854)	157612	91.5733	92
30 2 2-DICHLOROPROPANE	77	3.335	3.333	(0.844)	146381	38.3728	38
31 cis-1 2-DICHLOROETHENE	96	3.353	3.351	(0.849)	171351	54.2398	54
35 TETRAHYDROFURAN	42	3.536	3.544	(0.895)	41118	15.5454	16
34 BROMOCHLOROMETHANE	49	3.530	3.528	(0.894)	154292	52.8855	53
37 CHLOROFORM	83	3.566	3.564	(0.903)	251241	51.3089	51
\$ 40 DIBROMOFLUOROMETHANE	113	3.682	3.686	(0.932)	151835	51.8210	52
39 1 1 1-TRICHLOROETHANE	97	3.676	3.680	(0.869)	205968	47.7098	48
38 CYCLOHEXANE	56	3.670	3.668	(0.868)	252573	57.3597	57
41 CARBON TETRACHLORIDE	117	3.767	3.765	(0.891)	125069	34.0629	34(R)
42 1 1-DICHLOROPROPENE	75	3.791	3.789	(0.896)	230629	55.7614	56
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.950	3.947	(1.000)	179262	50.0000	
44 BENZENE	78	3.937	3.941	(0.931)	807204	71.9657	72(R)
46 1 2-DICHLOROETHANE	62	4.004	4.002	(0.947)	220291	55.3346	55
* 48 1,4-DIFLUOROBENZENE	114	4.229	4.233	(1.000)	476833	50.0000	
49 TRICHLOROETHENE	130	4.400	4.398	(1.040)	174938	54.4600	54
51 METHYL CYCLOHEXANE	83	4.491	4.489	(1.062)	265641	55.0542	55
52 1 2-DICHLOROPROPANE	63	4.607	4.604	(1.089)	173748	52.2548	52
55 DIBROMOMETHANE	93	4.698	4.696	(1.111)	101143	50.2938	50
54 1,4-DIOXANE	88	4.692	4.681	(1.188)	22618	494.359	490
56 BROMODICHLOROMETHANE	83	4.795	4.793	(1.134)	163080	44.7992	45
58 cis-1,3-DICHLOROPROPENE	75	5.136	5.134	(1.214)	224360	43.5767	44
59 4-METHYL-2-PENTANONE (MIBK)	43	5.239	5.243	(1.239)	369819	99.2503	99
\$ 60 TOLUENE-d8	98	5.300	5.298	(1.253)	595773	55.8091	56
61 TOLUENE	92	5.349	5.353	(1.265)	409391	57.4554	57
62 trans-1,3-DICHLOROPROPENE	75	5.574	5.572	(1.318)	207521	41.3863	41
64 1 1 2-TRICHLOROETHANE	83	5.714	5.712	(1.351)	127471	51.1200	51
65 TETRACHLOROETHENE	164	5.750	5.748	(0.893)	162502	55.8259	56
66 1 3-DICHLOROPROPANE	76	5.848	5.845	(1.383)	282608	53.6172	54
67 2-HEXANONE	43	5.884	5.882	(0.914)	281679	102.162	100
68 DIBROMOCHLOROMETHANE	129	6.000	5.998	(0.932)	114419	36.8619	37
69 1 2-DIBROMOETHANE	107	6.103	6.101	(1.443)	154449	49.8524	50
* 71 CHLOROBENZENE-d5	82	6.438	6.436	(1.000)	231574	50.0000	
72 CHLOROBENZENE	112	6.462	6.460	(1.004)	473464	55.2080	55
73 ETHYL BENZENE	91	6.523	6.521	(1.013)	1008763	68.3207	68(R)
74 1,1,1,2-TETRACHLOROETHANE	131	6.529	6.533	(1.014)	131118	34.9990	35
75 m,p-XYLENE	106	6.614	6.618	(1.027)	737582	124.063	120
76 o-XYLENE	106	6.936	6.940	(1.077)	335698	58.1018	58

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
77 STYRENE	104	6.961	6.959	(1.081)	581580	61.2417	61
78 BROMOFORM	173	7.131	7.135	(1.108)	76219	29.0179	29(R)
79 ISOPROPYLBENZENE	105	7.222	7.220	(1.122)	810918	61.6971	62
80 CYCLOHEXANONE	55	7.368	7.370	(1.145)	71738	484.921	480
§ 81 4-BROMOFLUOROBENZENE	95	7.393	7.391	(1.148)	242809	56.6620	57
82 BROMOBENZENE	156	7.508	7.506	(1.166)	252458	57.7370	58
83 1,1,2,2-TETRACHLOROETHANE	83	7.527	7.531	(1.169)	242648	56.1940	56
85 1 2 3-TRICHLOROPROPANE	110	7.575	7.573	(1.177)	90586	58.5088	59
84 n-PROPYLBENZENE	120	7.563	7.561	(1.175)	278892	63.1161	63
87 2-CHLOROTOLUENE	126	7.654	7.652	(1.189)	237631	60.5357	61
88 1 3 5-TRIMETHYLBENZENE	105	7.709	7.713	(1.198)	842815	63.9554	64
89 4-CHLOROTOLUENE	126	7.752	7.750	(1.204)	252779	64.1250	64(R)
90 a-Methylstyrene TIC	118	7.904	7.902	(1.228)	423901	48.4277	48
91 tert-BUTYLBENZENE	119	7.971	7.969	(1.238)	800204	68.6484	69(R)
93 1 2 4-TRIMETHYLBENZENE	105	8.019	8.023	(1.246)	970162	74.8566	75(R)
94 sec-BUTYLBENZENE	105	8.153	8.151	(1.266)	1169205	69.2100	69(R)
96 1 3-DICHLOROBENZENE	146	8.275	8.279	(1.285)	633763	59.0770	59
95 p-ISOPROPYLTOLUENE	119	8.269	8.273	(1.284)	1010416	52.8767	53
97 1 4-DICHLOROBENZENE	146	8.360	8.358	(1.299)	577930	67.3800	67(R)
98 n-BUTYLBENZENE	91	8.609	8.613	(1.337)	817383	54.1628	54
99 1 2-DICHLOROBENZENE	146	8.670	8.668	(1.347)	541804	66.7881	67(R)
100 1 2-DIBROMO-3-CHLOROPROPANE	157	9.346	9.343	(1.452)	43554	42.2614	42
101 1 2 4-TRICHLOROBENZENE	180	10.003	10.007	(1.554)	260388	44.2785	44
102 HEXACHLOROBUTADIENE	225	10.100	10.098	(1.569)	163698	55.4087	55
103 NAPHTHALENE	128	10.222	10.219	(1.588)	504142	43.7907	44
104 1 2 3-TRICHLOROBENZENE	180	10.422	10.420	(1.619)	225321	44.8402	45
M 105 1,2-DICHLOROETHENE (total)	96				322169	107.204	110
M 106 1,3-DICHLOROPROPENE (total)	75				431881	84.9631	85
M 107 XYLENE (total)	106				1073280	182.165	180

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

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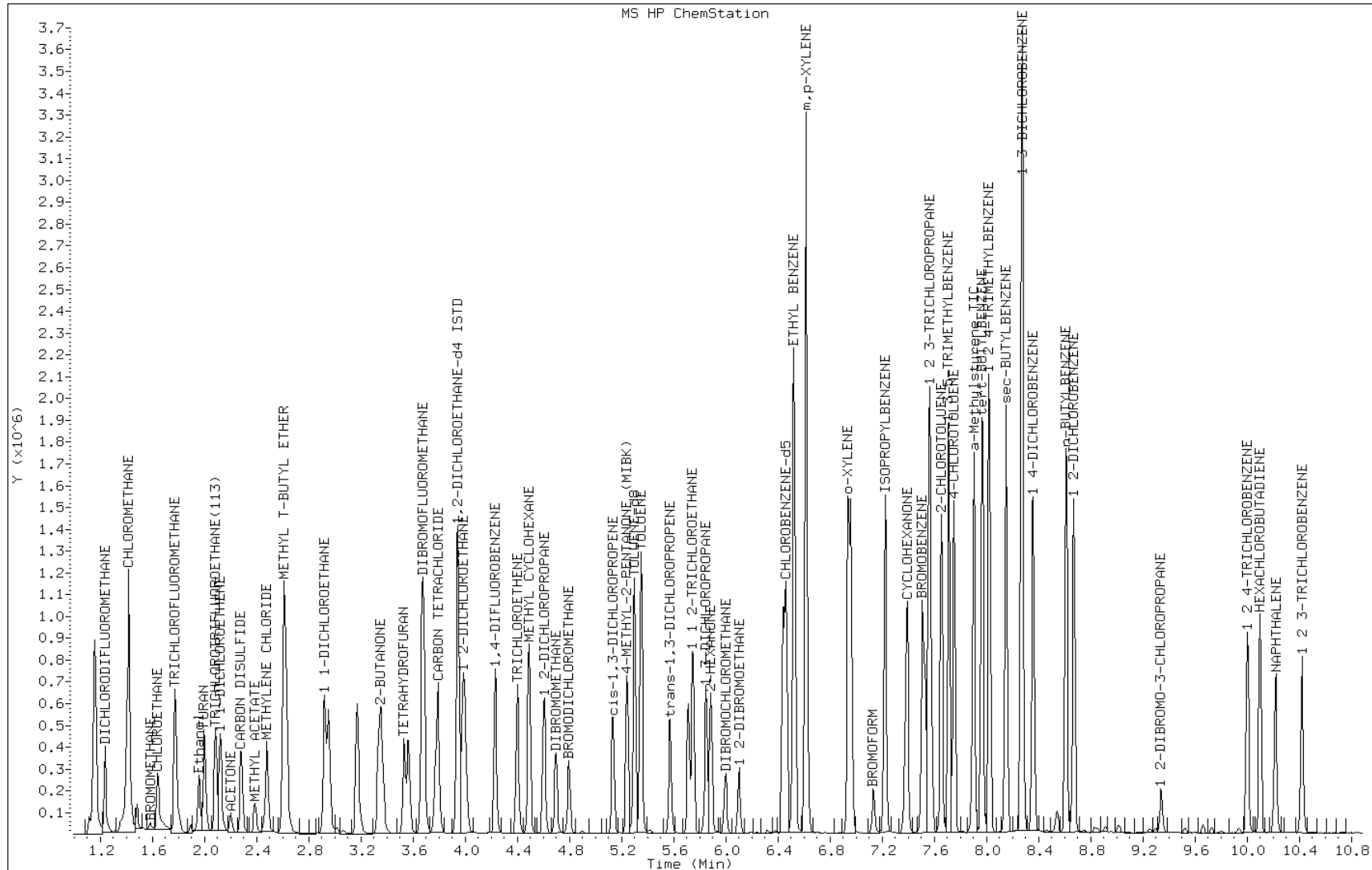
Date: 20-MAY-2013 20:00

Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-E-3 MS=[10052013]

Operator: JD



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20101 MSD Lab Sample ID: 680-90122-3 MSD
 Matrix: Water Lab File ID: oe2049.d
 Analysis Method: 8260B Date Collected: 05/08/2013 15:30
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 20:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	46.1		1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	52.7		1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	52.3		1.0	0.50
79-00-5	1,1,2-Trichloroethane	48.2		1.0	0.13
75-34-3	1,1-Dichloroethane	50.7		1.0	0.25
75-35-4	1,1-Dichloroethene	51.2		1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	42.0		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	41.9		1.0	0.44
106-93-4	1,2-Dibromoethane	47.0		1.0	0.25
95-50-1	1,2-Dichlorobenzene	62.9		1.0	0.21
107-06-2	1,2-Dichloroethane	52.0		1.0	0.10
78-87-5	1,2-Dichloropropane	48.5		1.0	0.13
541-73-1	1,3-Dichlorobenzene	55.5		1.0	0.25
106-46-7	1,4-Dichlorobenzene	64.4		1.0	0.28
78-93-3	2-Butanone	87.5		10	1.0
591-78-6	2-Hexanone	96.5		10	1.0
108-10-1	4-Methyl-2-pentanone	91.9		10	1.0
67-64-1	Acetone	97.3		25	5.0
71-43-2	Benzene	69.2		1.0	0.25
75-27-4	Bromodichloromethane	43.2		1.0	0.25
75-25-2	Bromoform	30.0		1.0	0.50
74-83-9	Bromomethane	68.9		5.0	2.0
75-15-0	Carbon disulfide	50.1		2.0	0.60
56-23-5	Carbon tetrachloride	35.2		1.0	0.50
108-90-7	Chlorobenzene	52.3		1.0	0.25
75-00-3	Chloroethane	78.5		5.0	2.0
67-66-3	Chloroform	48.8		1.0	0.14
74-87-3	Chloromethane	58.0		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	51.2		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	41.3		1.0	0.11
110-82-7	Cyclohexane	53.6		1.0	0.25
124-48-1	Dibromochloromethane	36.5		1.0	0.10
75-71-8	Dichlorodifluoromethane	50.3		1.0	0.25
100-41-4	Ethylbenzene	65.8		1.0	0.11
98-82-8	Isopropylbenzene	58.3		1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20101 MSD Lab Sample ID: 680-90122-3 MSD
 Matrix: Water Lab File ID: oe2049.d
 Analysis Method: 8260B Date Collected: 05/08/2013 15:30
 Sample wt/vol: 5(mL) Date Analyzed: 05/20/2013 20:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 277297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	35.5		1.0	0.19
1634-04-4	Methyl tert-butyl ether	87.7		10	0.20
108-87-2	Methylcyclohexane	51.7		1.0	0.10
75-09-2	Methylene Chloride	47.9		5.0	1.0
100-42-5	Styrene	57.2		1.0	0.11
127-18-4	Tetrachloroethene	52.3		1.0	0.15
108-88-3	Toluene	54.7		1.0	0.33
156-60-5	trans-1,2-Dichloroethene	49.9		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	40.1		1.0	0.21
79-01-6	Trichloroethene	51.6		1.0	0.13
75-69-4	Trichlorofluoromethane	65.7		1.0	0.25
75-01-4	Vinyl chloride	59.9		1.0	0.18
1330-20-7	Xylenes, Total	171		2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	106		70-130
1868-53-7	Dibromofluoromethane	98		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

TESTAMERICA SAVANNAH

SW-846 Method 8260B

Data file : /chem/VM/MSO5973C2.i/1o052013.b/oe2049.d
 Lab Smp Id: 680-90122-D-3 MSD Client Smp ID: 25LM20101
 Inj Date : 20-MAY-2013 20:30
 Operator : JD Inst ID: MSO5973C2.i
 Smp Info : 680-90122-D-3 MSD=[10052013]
 Misc Info : 680-90122-D-3 MSD
 Comment : PURGE & TRAP ANALYSIS
 Method : /chem/VM/MSO5973C2.i/1o052013.b/O-18260BC2-m.m
 Meth Date : 20-May-2013 10:28 ghenassi Quant Type: ISTD
 Cal Date : 17-MAY-2013 12:53 Cal File: oe1717q.d
 Als bottle: 74 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260TC2a11{aq}.sub
 Target Version: 3.50
 Processing Host: savchem2

Concentration Formula: Amt * DF * Vom/Vo * E * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vom	5.00000	Method Sample Volume
Vo	5.00000	Sample Volume
E	1.00000	ug to mg conversion (value=1 if no conve
A	1000.00000	mL to L conversion

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 DICHLORODIFLUOROMETHANE	85	1.237	1.234	(0.313)	201819	50.3470	50
2 CHLOROMETHANE	50	1.420	1.417	(0.359)	322392	57.9637	58
3 VINYL CHLORIDE	62	1.407	1.405	(0.356)	308920	59.8741	60
4 BUTADIENE	54	1.420	1.417	(0.359)	245378	60.7168	61
5 BROMOMETHANE	96	1.584	1.581	(0.401)	14746	68.9442	69
6 CHLOROETHANE	64	1.639	1.636	(0.415)	94788	78.5256	79(R)
7 TRICHLOROFLUOROMETHANE	101	1.772	1.776	(0.449)	373648	65.7194	66
8 Ethanol	46	1.931	1.925	(0.489)	17377	914.627	910
9 DIETHYL ETHER	59	1.955	1.956	(0.495)	103729	44.6500	45
10 FURAN	68	1.998	1.998	(0.506)	217654	48.7885	49
11 TRICHLOROTRIFLUOROETHANE(113)	101	2.083	2.080	(0.527)	151318	52.3153	52
13 1 1-DICHLOROETHENE	96	2.119	2.116	(0.536)	128814	51.2268	51
14 ACETONE	58	2.198	2.201	(0.556)	31287	97.3001	97

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
16 CARBON DISULFIDE	76	2.277	2.281	(0.576)	421869	50.0900	50
18 METHYL ACETATE	43	2.387	2.384	(0.604)	130443	35.4505	35
17 3-CHLORO-1-PROPENE	76	2.429	2.369	(0.615)	927	0.66777	0.67(aq)
20 METHYLENE CHLORIDE	84	2.478	2.475	(0.627)	139736	47.9404	48
21 TERT BUTYL ALCOHOL	59	2.527	2.522	(0.640)	8653	28.9480	29
22 METHYL T-BUTYL ETHER	73	2.606	2.609	(0.660)	809921	87.6612	88
23 trans-1 2-DICHLOROETHENE	96	2.624	2.627	(0.664)	143569	49.9008	50
27 1 1-DICHLOROETHANE	63	2.947	2.944	(0.746)	256179	50.7490	51
28 VINYL ACETATE	43	2.953	2.956	(0.747)	348750	81.3647	81
26 ISOPROPYL ETHER	45	2.916	2.917	(0.738)	390675	44.5597	45
32 2-BUTANONE	43	3.372	3.369	(0.854)	152085	87.4552	87
30 2 2-DICHLOROPROPANE	77	3.336	3.333	(0.844)	146376	37.9777	38
31 cis-1 2-DICHLOROETHENE	96	3.354	3.351	(0.849)	163280	51.1545	51
35 TETRAHYDROFURAN	42	3.537	3.544	(0.895)	39478	14.7722	15
34 BROMOCHLOROMETHANE	49	3.531	3.528	(0.894)	146666	49.7556	50
37 CHLOROFORM	83	3.561	3.564	(0.901)	241395	48.7922	49
§ 40 DIBROMOFLUOROMETHANE	113	3.683	3.686	(0.932)	144671	48.8691	49
39 1 1 1-TRICHLOROETHANE	97	3.677	3.680	(0.869)	201819	46.1040	46
38 CYCLOHEXANE	56	3.664	3.668	(0.866)	239096	53.5502	54
41 CARBON TETRACHLORIDE	117	3.768	3.765	(0.891)	131029	35.1940	35
42 1 1-DICHLOROPROPENE	75	3.792	3.789	(0.896)	222180	52.9778	53
* 45 1,2-DICHLOROETHANE-d4 ISTD	65	3.950	3.947	(1.000)	181121	50.0000	
44 BENZENE	78	3.938	3.941	(0.931)	786570	69.1590	69(R)
46 1 2-DICHLOROETHANE	62	4.005	4.002	(0.947)	209964	52.0132	52
* 48 1,4-DIFLUOROBENZENE	114	4.230	4.233	(1.000)	483501	50.0000	
49 TRICHLOROETHENE	130	4.401	4.398	(1.040)	167937	51.5595	52
51 METHYL CYCLOHEXANE	83	4.492	4.489	(1.062)	252702	51.6503	52
52 1 2-DICHLOROPROPANE	63	4.607	4.604	(1.089)	163682	48.5486	49
55 DIBROMOMETHANE	93	4.692	4.696	(1.109)	96169	47.1609	47
54 1,4-DIOXANE	88	4.686	4.681	(1.186)	22688	490.799	490
56 BROMODICHLOROMETHANE	83	4.796	4.793	(1.134)	159433	43.1933	43
58 cis-1,3-DICHLOROPROPENE	75	5.131	5.134	(1.213)	215817	41.3394	41
59 4-METHYL-2-PENTANONE (MIBK)	43	5.240	5.243	(1.239)	347377	91.9417	92
§ 60 TOLUENE-d8	98	5.301	5.298	(1.253)	570542	52.7085	53
61 TOLUENE	92	5.350	5.353	(1.265)	395342	54.7186	55
62 trans-1,3-DICHLOROPROPENE	75	5.569	5.572	(1.316)	203729	40.0697	40
64 1 1 2-TRICHLOROETHANE	83	5.715	5.712	(1.351)	121897	48.2105	48
65 TETRACHLOROETHENE	164	5.751	5.748	(0.893)	153939	52.3113	52
66 1 3-DICHLOROPROPANE	76	5.848	5.845	(1.383)	265934	49.7579	50
67 2-HEXANONE	43	5.885	5.882	(0.914)	268863	96.4579	96
68 DIBROMOCHLOROMETHANE	129	6.000	5.998	(0.932)	114388	36.4527	36
69 1 2-DIBROMOETHANE	107	6.104	6.101	(1.443)	147701	47.0168	47
* 71 CHLOROBENZENE-d5	82	6.438	6.436	(1.000)	234110	50.0000	
72 CHLOROBENZENE	112	6.463	6.460	(1.004)	453088	52.2598	52
73 ETHYL BENZENE	91	6.518	6.521	(1.012)	981490	65.7535	66(R)
74 1,1,1,2-TETRACHLOROETHANE	131	6.530	6.533	(1.014)	132728	35.0449	35
75 m,p-XYLENE	106	6.615	6.618	(1.027)	701320	116.686	120

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
76 o-XYLENE		106	6.937	6.940	(1.077)	316811	54.2389	54
77 STYRENE		104	6.962	6.959	(1.081)	549377	57.2239	57
78 BROMOFORM		173	7.132	7.135	(1.108)	79686	29.9802	30(R)
79 ISOPROPYLBENZENE		105	7.223	7.220	(1.122)	774301	58.2730	58
80 CYCLOHEXANONE		55	7.369	7.370	(1.145)	73184	489.336	490
§ 81 4-BROMOFLUOROBENZENE		95	7.387	7.391	(1.147)	229511	52.9786	53
82 BROMOBENZENE		156	7.509	7.506	(1.166)	240549	54.4175	54
83 1,1,2,2-TETRACHLOROETHANE		83	7.527	7.531	(1.169)	229853	52.6542	53
85 1 2 3-TRICHLOROPROPANE		110	7.576	7.573	(1.177)	87157	55.6842	56
84 n-PROPYLBENZENE		120	7.558	7.561	(1.174)	264919	59.3044	59
87 2-CHLOROTOLUENE		126	7.655	7.652	(1.189)	225546	56.8346	57
88 1 3 5-TRIMETHYLBENZENE		105	7.710	7.713	(1.197)	806327	60.5237	61
89 4-CHLOROTOLUENE		126	7.752	7.750	(1.204)	243096	61.0005	61
90 a-Methylstyrene TIC		118	7.905	7.902	(1.228)	395700	44.7162	45
91 tert-BUTYLBENZENE		119	7.965	7.969	(1.237)	761213	64.5960	65
93 1 2 4-TRIMETHYLBENZENE		105	8.020	8.023	(1.246)	922116	70.3787	70(R)
94 sec-BUTYLBENZENE		105	8.148	8.151	(1.266)	1112543	65.1426	65(R)
96 1 3-DICHLOROBENZENE		146	8.276	8.279	(1.285)	602434	55.5483	56
95 p-ISOPROPYLTOLUENE		119	8.270	8.273	(1.284)	960531	49.7216	50
97 1 4-DICHLOROBENZENE		146	8.361	8.358	(1.299)	558099	64.3630	64(R)
98 n-BUTYLBENZENE		91	8.610	8.613	(1.337)	790585	51.8196	52
99 1 2-DICHLOROBENZENE		146	8.671	8.668	(1.347)	515954	62.9126	63(R)
100 1 2-DIBROMO-3-CHLOROPROPANE		157	9.340	9.343	(1.451)	43693	41.9370	42
101 1 2 4-TRICHLOROBENZENE		180	10.003	10.007	(1.554)	249676	41.9970	42
102 HEXACHLOROBUTADIENE		225	10.101	10.098	(1.569)	158461	53.0551	53
103 NAPHTHALENE		128	10.216	10.219	(1.587)	497577	42.7523	43
104 1 2 3-TRICHLOROBENZENE		180	10.423	10.420	(1.619)	218659	43.0430	43
M 105 1,2-DICHLOROETHENE (total)		96				306849	101.055	100
M 106 1,3-DICHLOROPROPENE (total)		75				419546	81.4091	81
M 107 XYLENE (total)		106				1018131	170.925	170

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.

Data File: oe2049.d

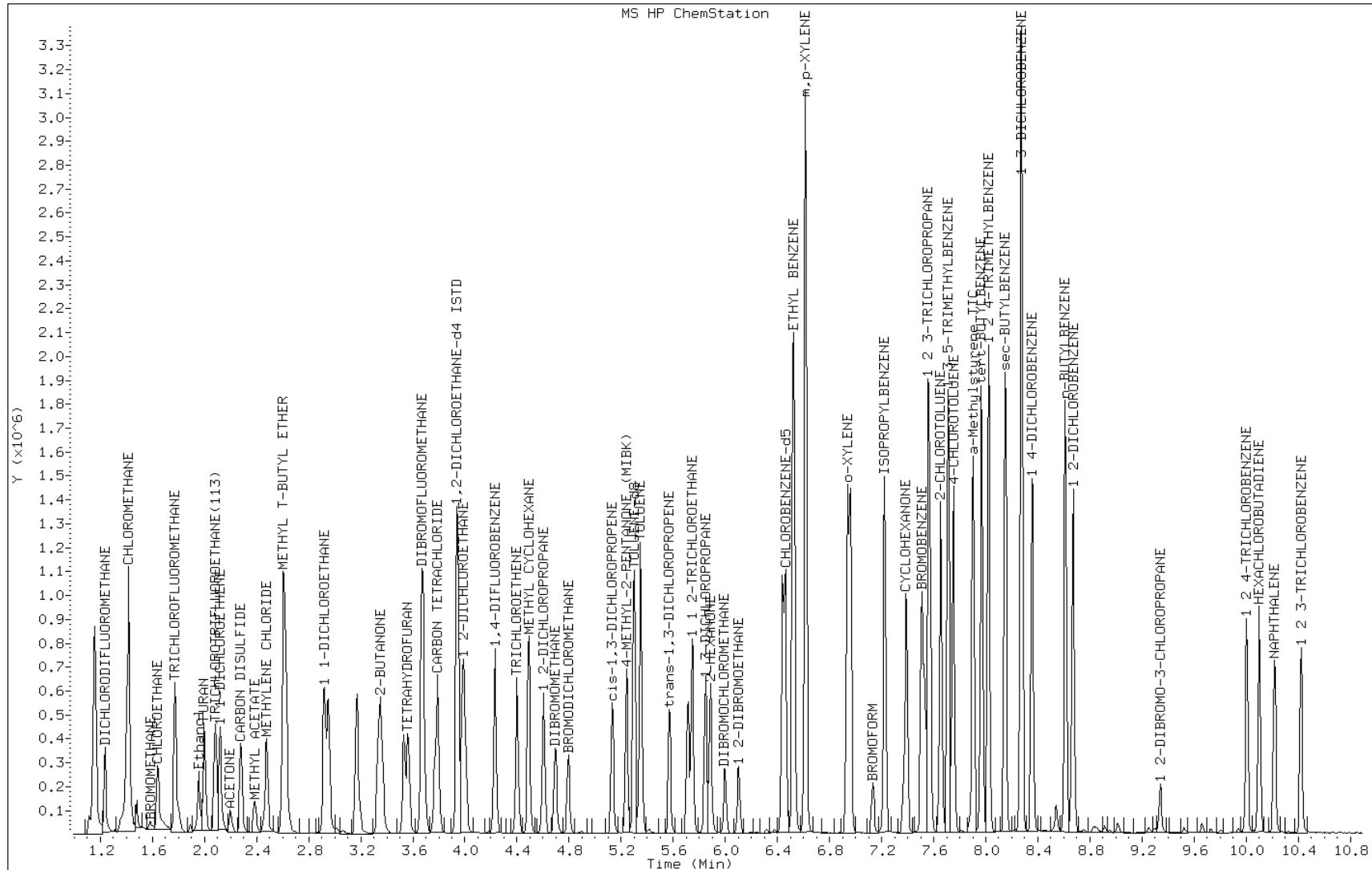
Date: 20-MAY-2013 20:30

Client ID: 25LM20101

Instrument: MS05973C2.i

Sample Info: 680-90122-D-3 MSD=[10052013]

Operator: JD



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: MSO2 Start Date: 05/16/2013 15:20Analysis Batch Number: 277091 End Date: 05/16/2013 21:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 680-277091/1		05/16/2013 15:20	1	oe1601t.d	DB-624 0.18 (mm)
IC 680-277091/2		05/16/2013 16:58	1	oe1605q.d	DB-624 0.18 (mm)
IC 680-277091/3		05/16/2013 17:28	1	oe1607q.d	DB-624 0.18 (mm)
IC 680-277091/4		05/16/2013 17:58	1	oe1609q.d	DB-624 0.18 (mm)
IC 680-277091/5		05/16/2013 18:28	1	oe1611q.d	DB-624 0.18 (mm)
IC 680-277091/6		05/16/2013 18:57	1	oe1613q.d	DB-624 0.18 (mm)
ICIS 680-277091/7		05/16/2013 19:27	1	oe1615q.d	DB-624 0.18 (mm)
IC 680-277091/8		05/16/2013 19:56	1	oe1617q.d	DB-624 0.18 (mm)
IC 680-277091/9		05/16/2013 20:26	1	oe1619q.d	DB-624 0.18 (mm)
ICV 680-277091/10		05/16/2013 21:25	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: MSO2 Start Date: 05/20/2013 08:36Analysis Batch Number: 277297 End Date: 05/20/2013 20:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 680-277297/3		05/20/2013 08:36	1	oe2001t.d	DB-624 0.18 (mm)
CCV 680-277297/1		05/20/2013 09:09	1		DB-624 0.18 (mm)
CCVIS 680-277297/2		05/20/2013 10:08	1	oe2007q.d	DB-624 0.18 (mm)
LCS 680-277297/4		05/20/2013 10:38	1	oe2009q.d	DB-624 0.18 (mm)
LCSD 680-277297/5		05/20/2013 11:07	1	oe2011q.d	DB-624 0.18 (mm)
ZZZZZ		05/20/2013 11:37	1		DB-624 0.18 (mm)
MB 680-277297/7		05/20/2013 12:36	1	oe2017q.d	DB-624 0.18 (mm)
ZZZZZ		05/20/2013 13:06	1		DB-624 0.18 (mm)
680-90122-5	25LM00022	05/20/2013 13:35	1	oe2021.d	DB-624 0.18 (mm)
ZZZZZ		05/20/2013 14:05	1		DB-624 0.18 (mm)
ZZZZZ		05/20/2013 14:35	10		DB-624 0.18 (mm)
ZZZZZ		05/20/2013 15:04	1		DB-624 0.18 (mm)
ZZZZZ		05/20/2013 15:34	5		DB-624 0.18 (mm)
ZZZZZ		05/20/2013 16:04	5		DB-624 0.18 (mm)
ZZZZZ		05/20/2013 17:03	1		DB-624 0.18 (mm)
ZZZZZ		05/20/2013 17:32	1		DB-624 0.18 (mm)
680-90122-1	25LM20098	05/20/2013 18:02	1	oe2039.d	DB-624 0.18 (mm)
680-90122-2	25LM20099	05/20/2013 18:32	1	oe2041.d	DB-624 0.18 (mm)
680-90122-3	25LM20101	05/20/2013 19:01	1	oe2043.d	DB-624 0.18 (mm)
680-90122-4	25LM20102	05/20/2013 19:31	1	oe2045.d	DB-624 0.18 (mm)
680-90122-3 MS	25LM20101 MS	05/20/2013 20:00	1	oe2047.d	DB-624 0.18 (mm)
680-90122-3 MSD	25LM20101 MSD	05/20/2013 20:30	1	oe2049.d	DB-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 Burlington Job No.: 680-90122-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: MECAQ025.D

Lab ID: LCS 200-55736/24 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methane	72.4	60.9	84	70-130	
Ethane	137	114	83	70-130	
Ethylene	128	111	86	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: MECAQ035.D
 Lab ID: 680-90122-3 MS Client ID: 25LM20101 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Methane	72.4	22	67.1	62	70-130	F
Ethane	137	ND	127	93	70-130	
Ethylene	128	ND	114	89	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 680-90122-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: MECAQ036.D

Lab ID: 680-90122-3 MSD Client ID: 25LM20101 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane	72.4	78.4	77	15	30	70-130	
Ethane	137	105	77	19	30	70-130	
Ethylene	128	100	78	13	30	70-130	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Lab Sample ID: MB 200-55736/25
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) MECAQ026.D Lab File ID: (2) _____
 Date Analyzed: (1) 05/20/2013 16:02 Date Analyzed: (2) _____
 Instrument ID: (1) CH2866.i Instrument ID: (2) _____
 GC Column: (1) RT-U-Plot ID: 0.53(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 200-55736/24	05/20/2013 15:52	
25LM20098	680-90122-1	05/20/2013 16:56	
25LM20099	680-90122-2	05/20/2013 17:02	
25LM20101	680-90122-3	05/20/2013 17:07	
25LM20101 MS	680-90122-3 MS	05/20/2013 17:12	
25LM20101 MSD	680-90122-3 MSD	05/20/2013 17:18	
25LM20102	680-90122-4	05/20/2013 17:23	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20098 Lab Sample ID: 680-90122-1
 Matrix: Water Lab File ID: MECAQ032.D
 Analysis Method: RSK-175 Date Collected: 05/08/2013 10:22
 Sample wt/vol: 18(mL) Date Analyzed: 05/20/2013 16:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55736 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		2.0	0.45
74-84-0	Ethane	ND		4.0	0.81
74-85-1	Ethylene	ND		3.0	0.73

TestAmerica Burlington
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.bMECAQ032.D
 Lims ID: 680-90122-G-1 Client ID: 25LM20098
 Inject. Date: 20-May-2013 16:56:58 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 200-0003566-031
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 31
 Lims Batch ID: 55736 Lims Sample ID: 31
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\RSK-175.m
 Last Update: 23-May-2013 10:08:20 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
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TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\MECAQ032.D

Injection Date: 20-May-2013 16:56:58 Limit Group: VG_RSK175_Limits

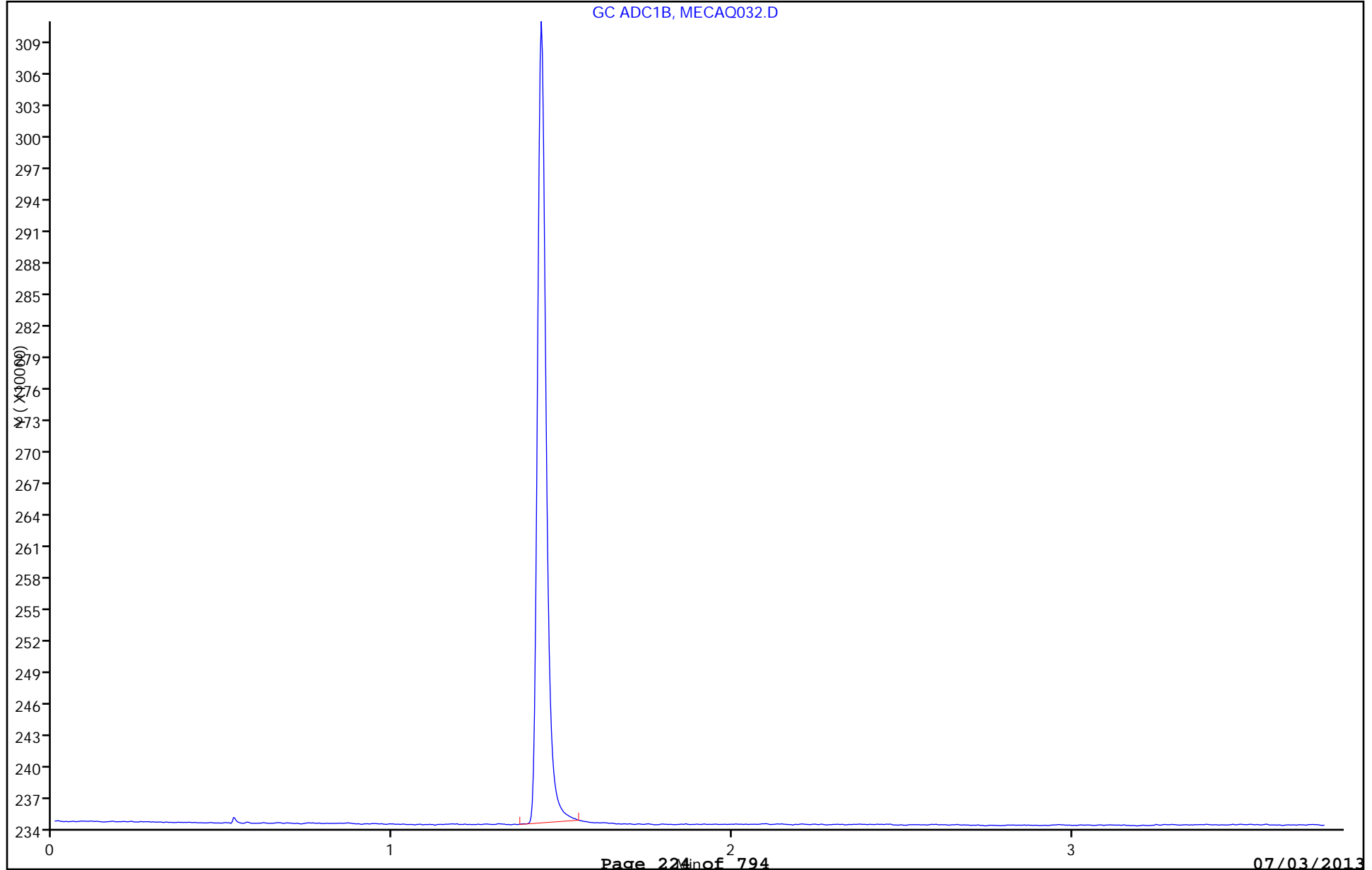
Client ID: 25LM20098 Instrument ID: CH2866.i

Lims Batch ID: 55736 Lims Sample ID: 31

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20099 Lab Sample ID: 680-90122-2
 Matrix: Water Lab File ID: MECAQ033.D
 Analysis Method: RSK-175 Date Collected: 05/08/2013 12:50
 Sample wt/vol: 18(mL) Date Analyzed: 05/20/2013 17:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55736 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
74-82-8	Methane	ND		2.0	2.0
74-84-0	Ethane	ND		4.0	4.0
74-85-1	Ethylene	ND		3.0	3.0

TestAmerica Burlington
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.bMECAQ033.D
 Lims ID: 680-90122-G-2 Client ID: 25LM20099
 Inject. Date: 20-May-2013 17:02:42 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 200-0003566-032
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 32
 Lims Batch ID: 55736 Lims Sample ID: 32
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\RSK-175.m
 Last Update: 23-May-2013 10:08:20 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

First Level Reviewer: sheldont Date: 23-May-2013 10:01:53

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
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TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\MECAQ033.D

Injection Date: 20-May-2013 17:02:42 Limit Group: VG_RSK175_Limits

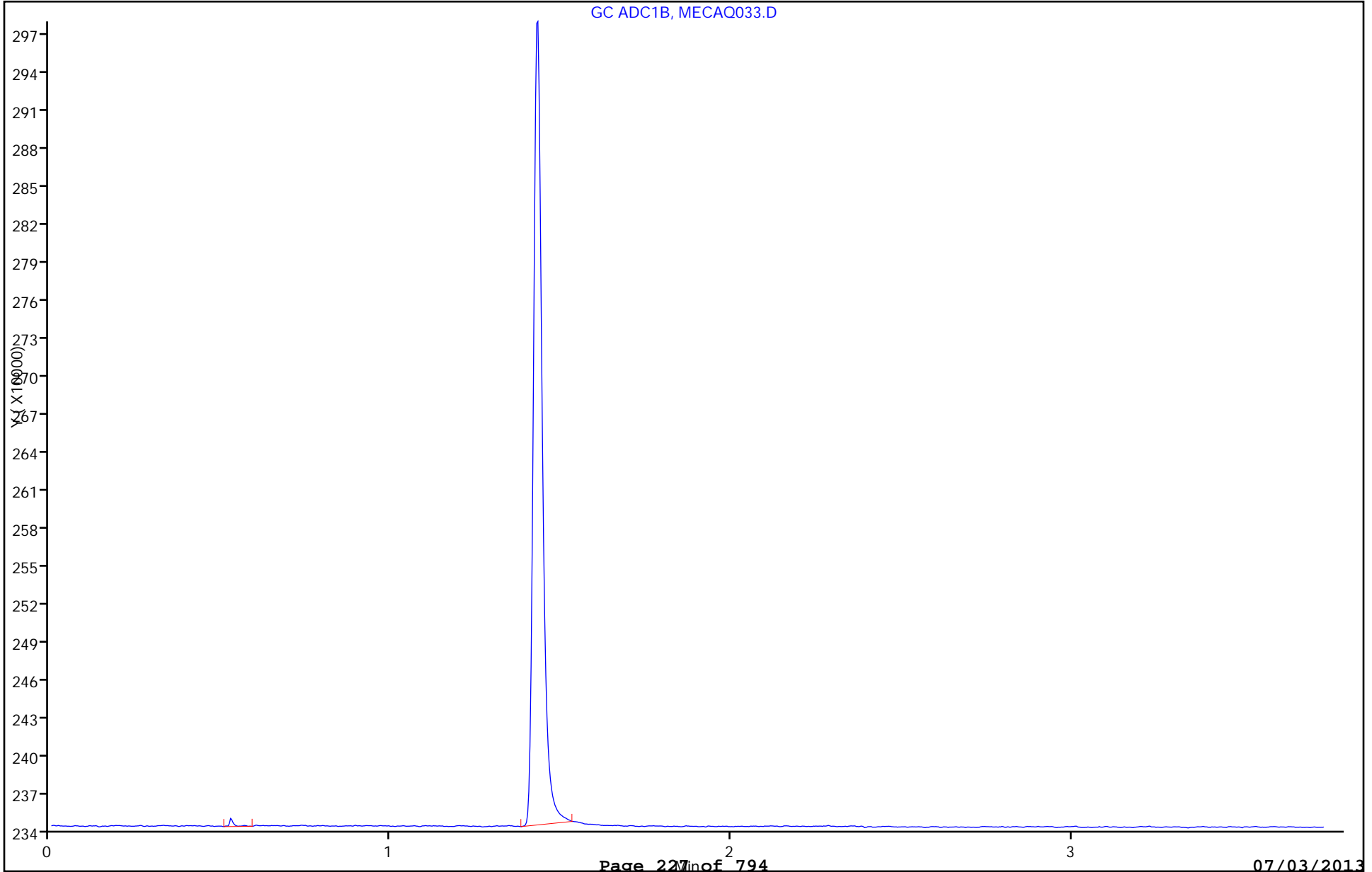
Client ID: 25LM20099 Instrument ID: CH2866.i

Lims Batch ID: 55736 Lims Sample ID: 32

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20101 Lab Sample ID: 680-90122-3
 Matrix: Water Lab File ID: MECAQ034.D
 Analysis Method: RSK-175 Date Collected: 05/08/2013 15:30
 Sample wt/vol: 18(mL) Date Analyzed: 05/20/2013 17:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55736 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
74-82-8	Methane	22		2.0	2.0
74-84-0	Ethane	ND		4.0	4.0
74-85-1	Ethylene	ND		3.0	3.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.bMECAQ034.D
 Lims ID: 680-90122-G-3 Client ID: 25LM20101
 Inject. Date: 20-May-2013 17:07:50 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 200-0003566-033
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 33
 Lims Batch ID: 55736 Lims Sample ID: 33
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\RSK-175.m
 Last Update: 23-May-2013 10:08:20 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.568	0.570	-0.002	727163	22.4	
2 Ethylene					
0.948	0.953	-0.005	5363	0.1575	

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\MECAQ034.D

Injection Date: 20-May-2013 17:07:50 Limit Group: VG_RSK175_Limits

Client ID: 25LM20101 Instrument ID: CH2866.i

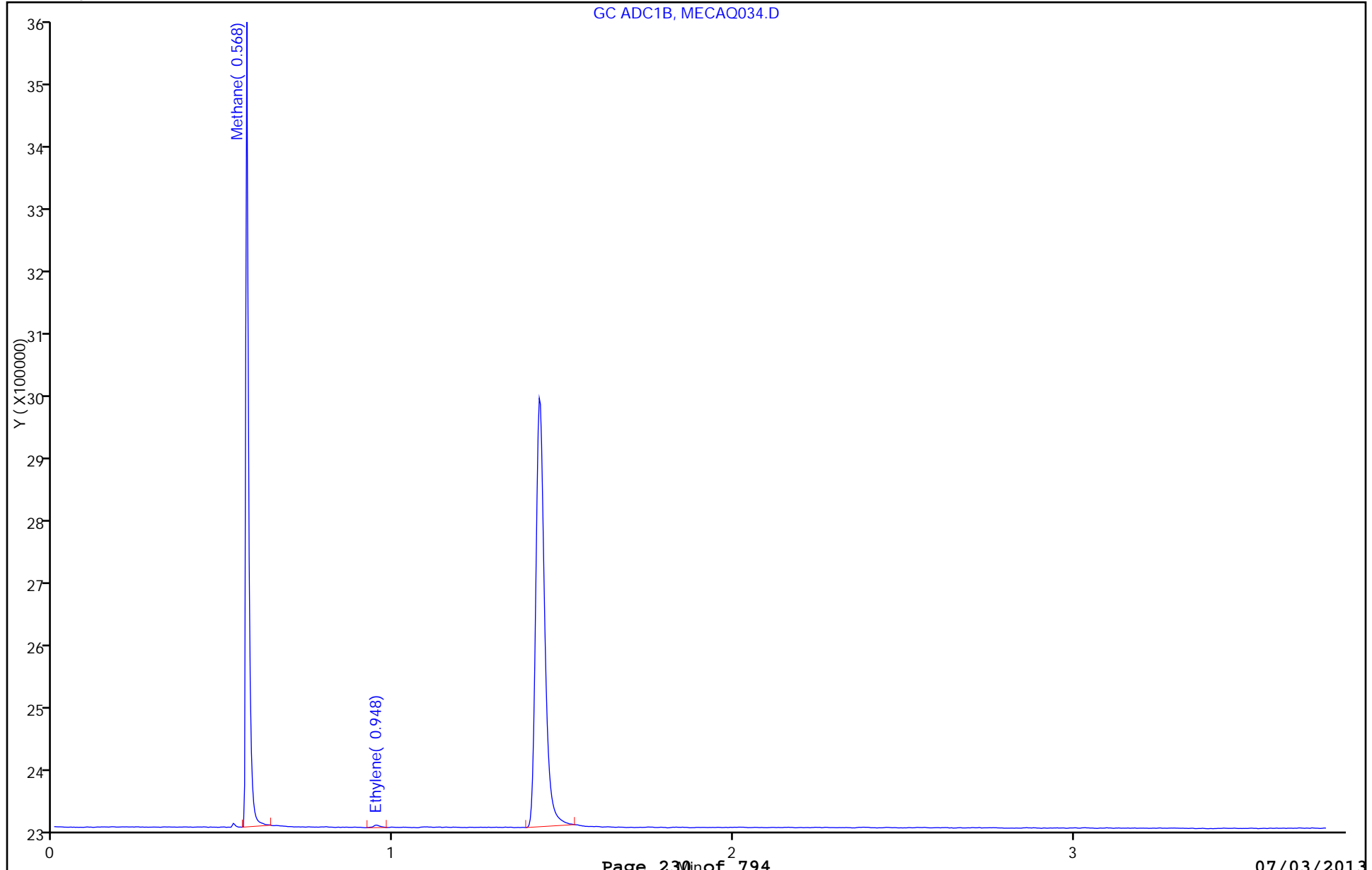
Lims Batch ID: 55736 Lims Sample ID: 33

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:

GC ADC1B, MECAQ034.D



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20102 Lab Sample ID: 680-90122-4
 Matrix: Water Lab File ID: MECAQ037.D
 Analysis Method: RSK-175 Date Collected: 05/08/2013 15:30
 Sample wt/vol: 18(mL) Date Analyzed: 05/20/2013 17:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55736 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
74-82-8	Methane	25		2.0	2.0
74-84-0	Ethane	ND		4.0	4.0
74-85-1	Ethylene	ND		3.0	3.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.bMECAQ037.D
 Lims ID: 680-90122-G-4 Client ID: 25LM20102
 Inject. Date: 20-May-2013 17:23:26 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 200-0003566-037
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 36
 Lims Batch ID: 55736 Lims Sample ID: 37
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\RSK-175.m
 Last Update: 23-May-2013 10:08:20 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
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1 Methane
 0.567 0.570 -0.003 796749 24.6

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\MECAQ037.D

Injection Date: 20-May-2013 17:23:26 Limit Group: VG_RSK175_Limits

Client ID: 25LM20102 Instrument ID: CH2866.i

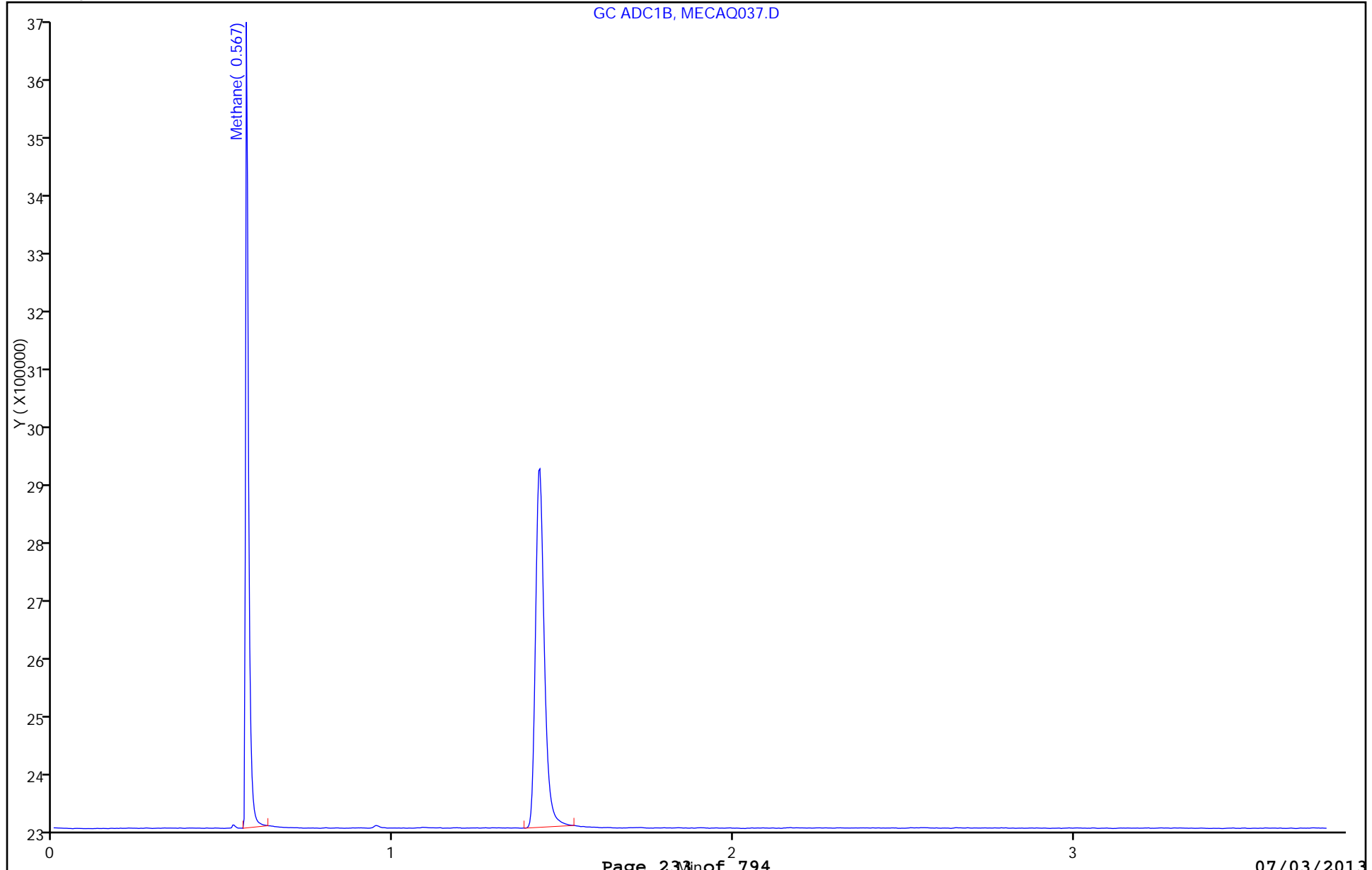
Lims Batch ID: 55736 Lims Sample ID: 37

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:

GC ADC1B, MECAQ037.D



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

Lab Name: TestAmerica Burlington Job No.: 680-90122-1 Analy Batch No.: 53930

SDG No.: _____

Instrument ID: CH2866.i GC Column: RT-U-Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 15:57 Calibration End Date: 04/03/2013 16:17 Calibration ID: 21055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-53930/1	MECAA01.D
Level 2	IC 200-53930/2	MECAA02.D
Level 3	ICRT 200-53930/3	MECAA03.D
Level 4	IC 200-53930/4	MECAA04.D
Level 5	IC 200-53930/5	MECAA05.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Methane	0.549	0.547	0.548	0.549	0.548						0.298 - 0.798	0.548
Ethylene	0.912	0.914	0.912	0.912	0.911						0.662 - 1.162	0.912
Ethane	1.049	1.050	1.052	1.049	1.048						0.802 - 1.302	1.050

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 680-90122-1 Analy Batch No.: 53930

SDG No.: _____

Instrument ID: CH2866.i GC Column: RT-U-Plot ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 15:57 Calibration End Date: 04/03/2013 16:17 Calibration ID: 21055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-53930/1	MECAA01.D
Level 2	IC 200-53930/2	MECAA02.D
Level 3	ICRT 200-53930/3	MECAA03.D
Level 4	IC 200-53930/4	MECAA04.D
Level 5	IC 200-53930/5	MECAA05.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 3	LVL 4		B	M1	M2								
Methane	32630 32050	34876	34391	28310	Ave		32451.2487			8.0		30.0				
Ethylene	34283 33162	37816	36027	28986	Ave		34054.9530			9.8		30.0				
Ethane	33444 33228	36929	35973	29133	Ave		33741.2978			9.0		30.0				

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 Burlington Job No.: 680-90122-1 Analy Batch No.: 53930

SDG No.: _____

Instrument ID: CH2866.i GC Column: RT-U-Plot ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 15:57 Calibration End Date: 04/03/2013 16:17 Calibration ID: 21055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-53930/1	MECAA01.D
Level 2	IC 200-53930/2	MECAA02.D
Level 3	ICRT 200-53930/3	MECAA03.D
Level 4	IC 200-53930/4	MECAA04.D
Level 5	IC 200-53930/5	MECAA05.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
Methane	Ave	55520	631291	2490094	6149311	11602909	1.70	18.1	72.4	217	362
Ethylene	Ave	103332	1212556	4620797	11153071	21266794	3.01	32.1	128	385	641
Ethane	Ave	107419	1261828	4916636	11945133	22706958	3.21	34.2	137	410	683

Curve Type Legend:

Ave = Average

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA01.D
 Lims ID: IC Client ID:
 Inject. Date: 03-Apr-2013 15:57:14 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 1
 Sample ID: IC
 Misc. Info.:
 Operator: PAD Instrument ID: CH2866.i
 Purge Vol: 18.000 mL ALS Bottle#: 1
 Lims Batch ID: 53930 Lims Sample ID: 1
 Sublist: chrom-RSK-175*sub1
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\RSK-175.m
 Last Update: 12-Apr-2013 16:03:53 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK002

First Level Reviewer: chirgwinb Date: 05-Apr-2013 14:25:39

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.549	0.548	0.001	55520	1.71	
2 Ethylene					
0.912	0.912	0.000	103332	3.03	
3 Ethane					
1.049	1.052	-0.004	107419	3.18	

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA01.D

Injection Date: 03-Apr-2013 15:57:14 Limit Group: VG_RSK175_Limits

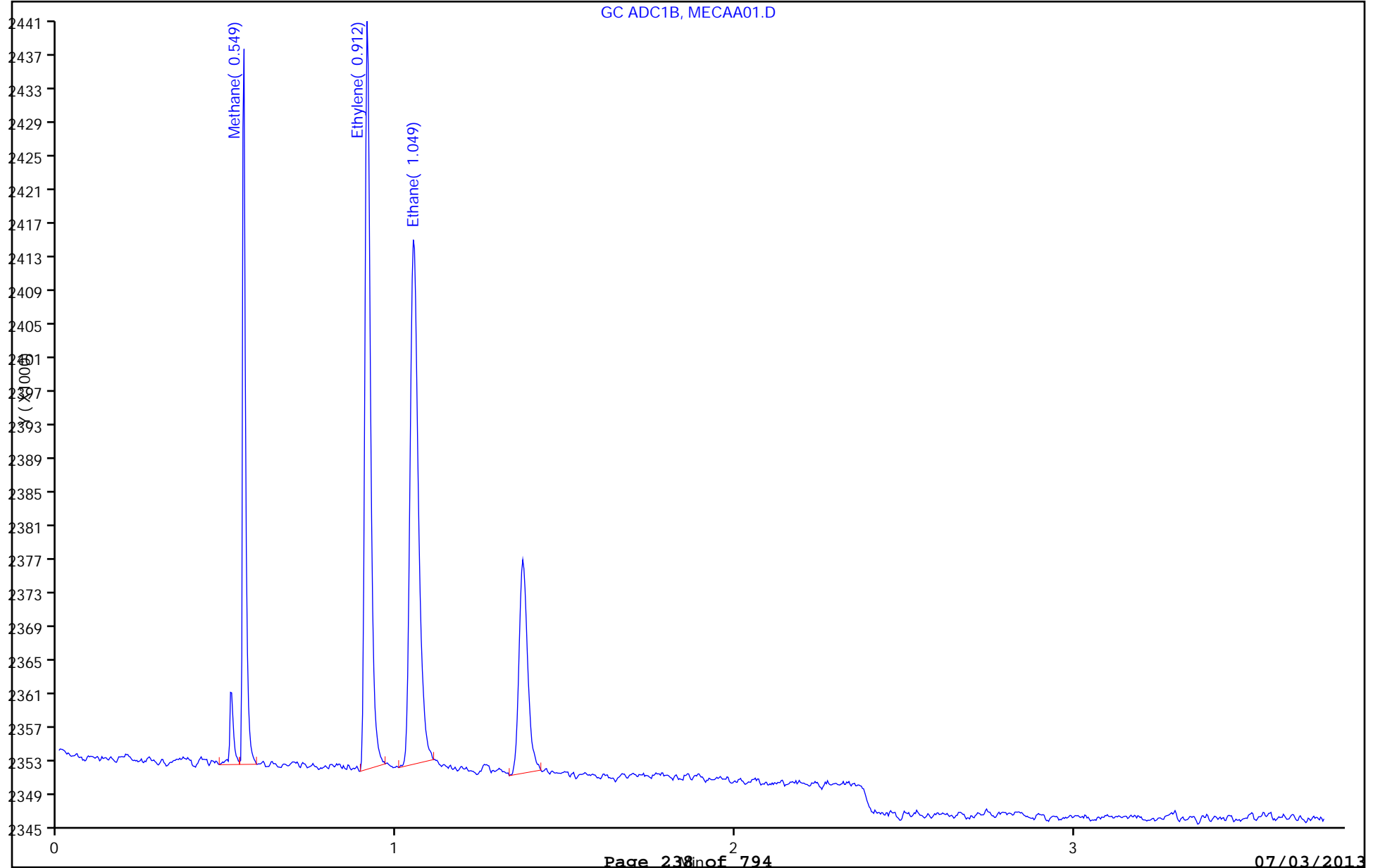
Client ID: Instrument ID: CH2866.i

Lims Batch ID: 53930 Lims Sample ID: 1

Operator ID: PAD Purge Vol: 18.000 mL

Column Type: Column Dia:

Y Scaling:



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA02.D
 Lims ID: IC Client ID:
 Inject. Date: 03-Apr-2013 16:01:57 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 2
 Sample ID: IC
 Misc. Info.:
 Operator: PAD Instrument ID: CH2866.i
 Purge Vol: 18.000 mL ALS Bottle#: 2
 Lims Batch ID: 53930 Lims Sample ID: 2
 Sublist: chrom-RSK-175*sub1
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\RSK-175.m
 Last Update: 12-Apr-2013 16:03:54 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK002

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.547	0.548	-0.001	631291	19.5	
2 Ethylene					
0.914	0.912	0.002	1212556	35.6	
3 Ethane					
1.050	1.052	-0.002	1261828	37.4	

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA02.D

Injection Date: 03-Apr-2013 16:01:57

Limit Group: VG_RSK175_Limits

Client ID:

Instrument ID: CH2866.i

Lims Batch ID: 53930

Lims Sample ID: 2

Operator ID: PAD

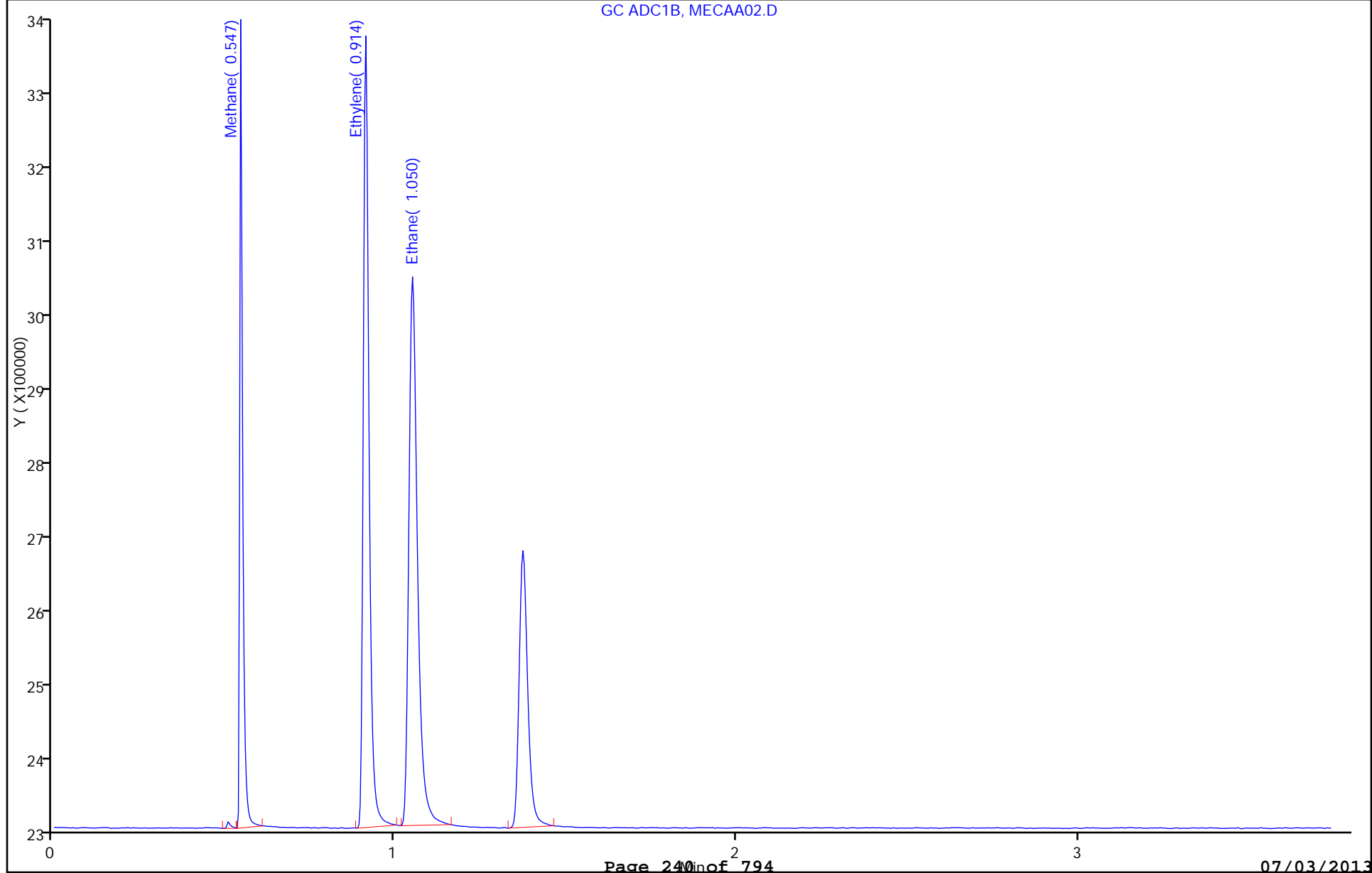
Purge Vol: 18.000 mL

Column Type:

Column Dia:

Y Scaling:

GC ADC1B, MECAA02.D



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA03.D
 Lims ID: ICRT Client ID:
 Inject. Date: 03-Apr-2013 16:06:47 Dil. Factor: 1.0000
 Sample Type: ICRT Calib Level: 3
 Sample ID: ICRT
 Misc. Info.:
 Operator: PAD Instrument ID: CH2866.i
 Purge Vol: 18.000 mL ALS Bottle#: 3
 Lims Batch ID: 53930 Lims Sample ID: 3
 Sublist: chrom-RSK-175*sub1
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\RSK-175.m
 Last Update: 12-Apr-2013 16:03:54 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK002

First Level Reviewer: chirgwinb Date: 05-Apr-2013 14:28:38

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.548	0.548	0.000	2490094	76.7	
2 Ethylene					
0.912	0.912	0.000	4620797	135.7	
3 Ethane					
1.052	1.052	0.000	4916636	145.7	

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA03.D

Injection Date: 03-Apr-2013 16:06:47

Limit Group: VG_RSK175_Limits

Client ID:

Instrument ID: CH2866.i

Lims Batch ID: 53930

Lims Sample ID: 3

Operator ID: PAD

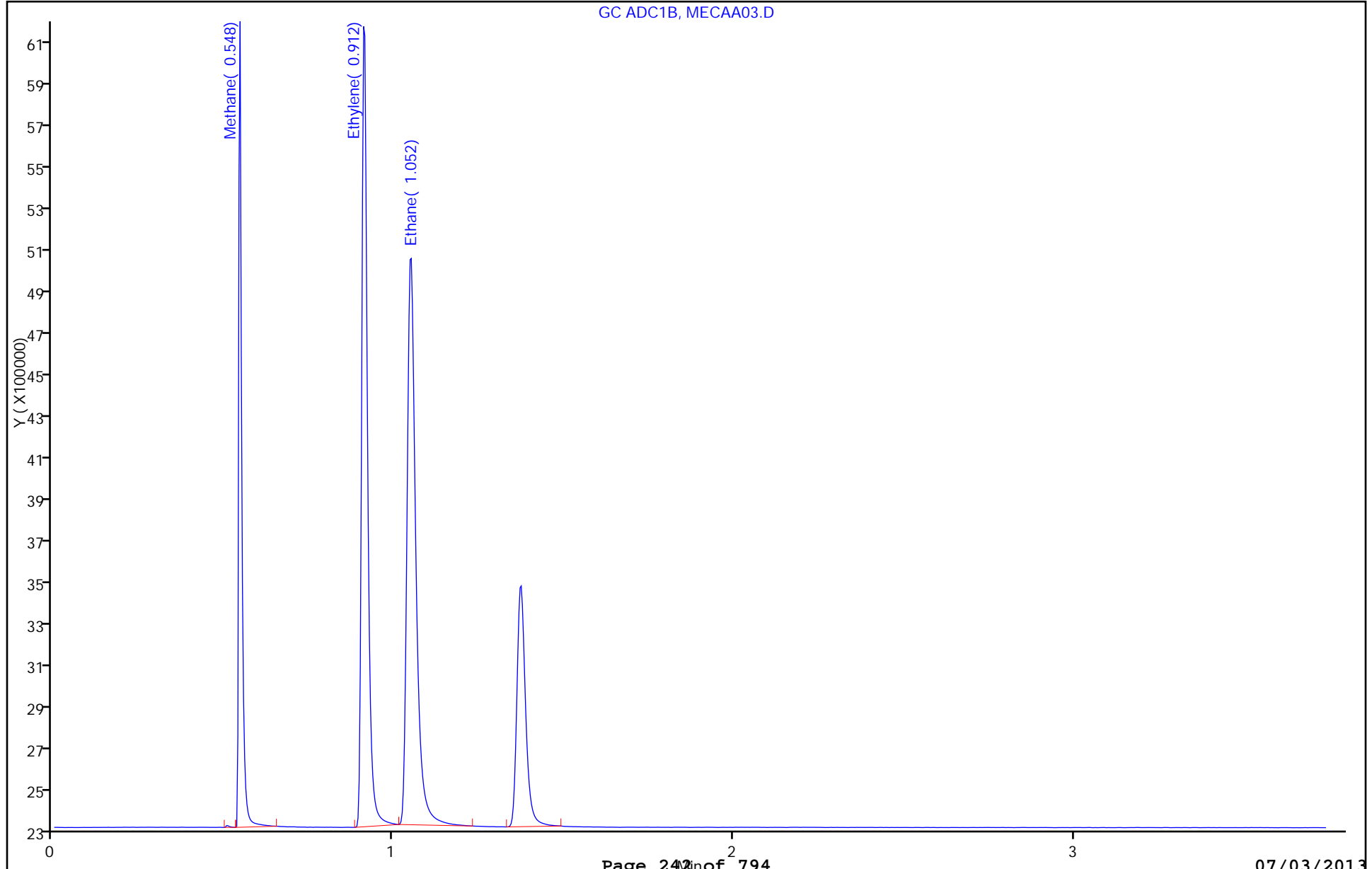
Purge Vol: 18.000 mL

Column Type:

Column Dia:

Y Scaling:

GC ADC1B, MECAA03.D



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA04.D
 Lims ID: IC Client ID:
 Inject. Date: 03-Apr-2013 16:12:44 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 4
 Sample ID: IC
 Misc. Info.:
 Operator: PAD Instrument ID: CH2866.i
 Purge Vol: 18.000 mL ALS Bottle#: 4
 Lims Batch ID: 53930 Lims Sample ID: 4
 Sublist: chrom-RSK-175*sub1
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\RSK-175.m
 Last Update: 12-Apr-2013 16:03:55 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK002

First Level Reviewer: chirgwinb Date: 11-Apr-2013 17:44:50

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.549	0.548	0.001	6149311	189.5	
2 Ethylene					
0.912	0.912	0.000	11153071	327.5	
3 Ethane					
1.049	1.052	-0.003	11945133	354.0	

TestAmerica Burlington

Data File: \\BTv-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA04.D

Injection Date: 03-Apr-2013 16:12:44

Limit Group: VG_RSK175_Limits

Client ID:

Instrument ID: CH2866.i

Lims Batch ID: 53930

Lims Sample ID: 4

Operator ID: PAD

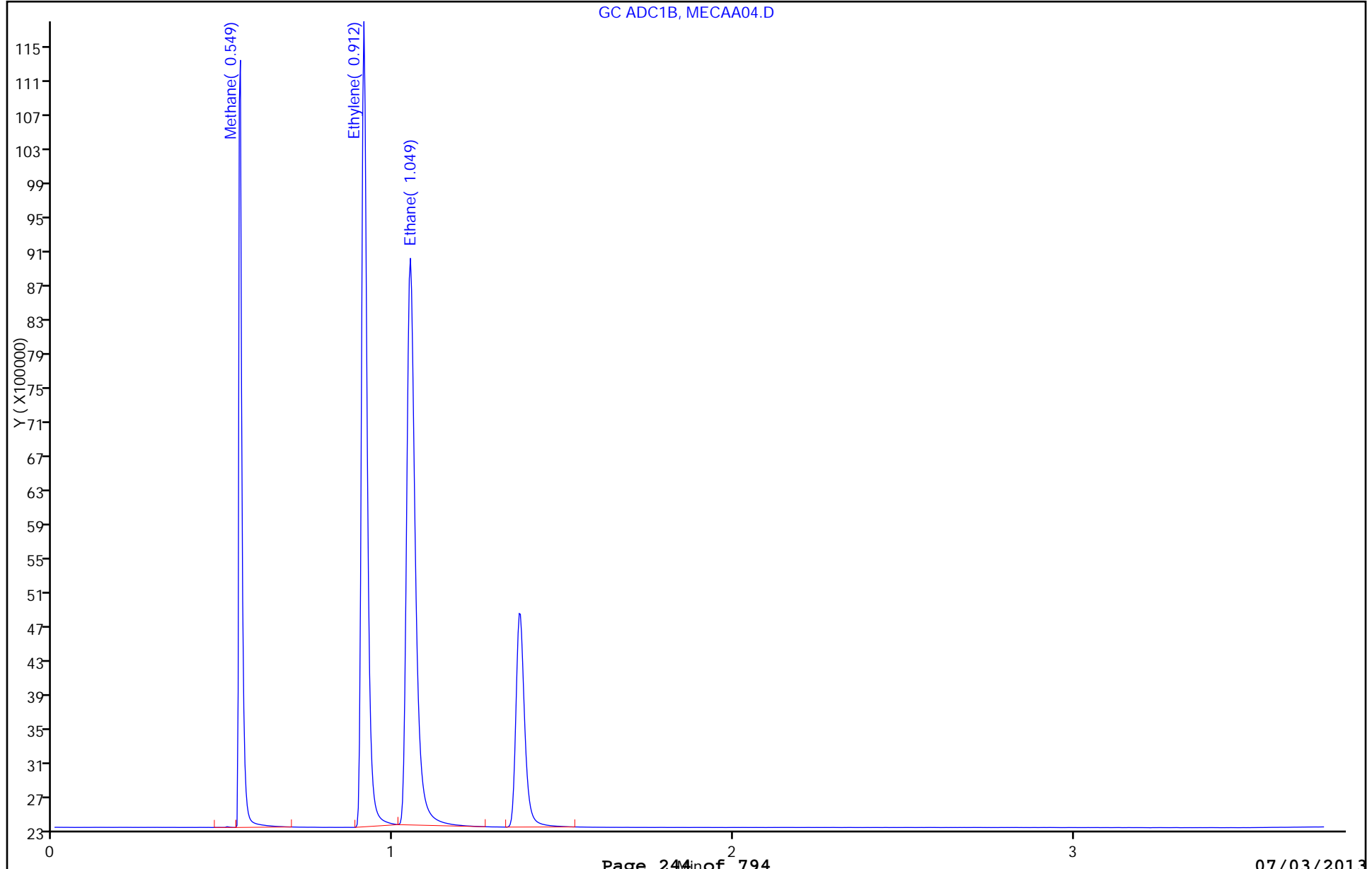
Purge Vol: 18.000 mL

Column Type:

Column Dia:

Y Scaling:

GC ADC1B, MECAA04.D



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D
 Lims ID: IC Client ID:
 Inject. Date: 03-Apr-2013 16:17:36 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 5
 Sample ID: IC
 Misc. Info.:
 Operator: PAD Instrument ID: CH2866.i
 Purge Vol: 18.000 mL ALS Bottle#: 5
 Lims Batch ID: 53930 Lims Sample ID: 5
 Sublist: chrom-RSK-175*sub1
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\RSK-175.m
 Last Update: 12-Apr-2013 16:03:55 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK002

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.548	0.548	0.000	11602909	357.5	
2 Ethylene					
0.911	0.912	-0.001	21266794	624.5	
3 Ethane					
1.048	1.052	-0.004	22706958	673.0	

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D

Injection Date: 03-Apr-2013 16:17:36

Limit Group: VG_RSK175_Limits

Client ID:

Instrument ID: CH2866.i

Lims Batch ID: 53930

Lims Sample ID: 5

Operator ID: PAD

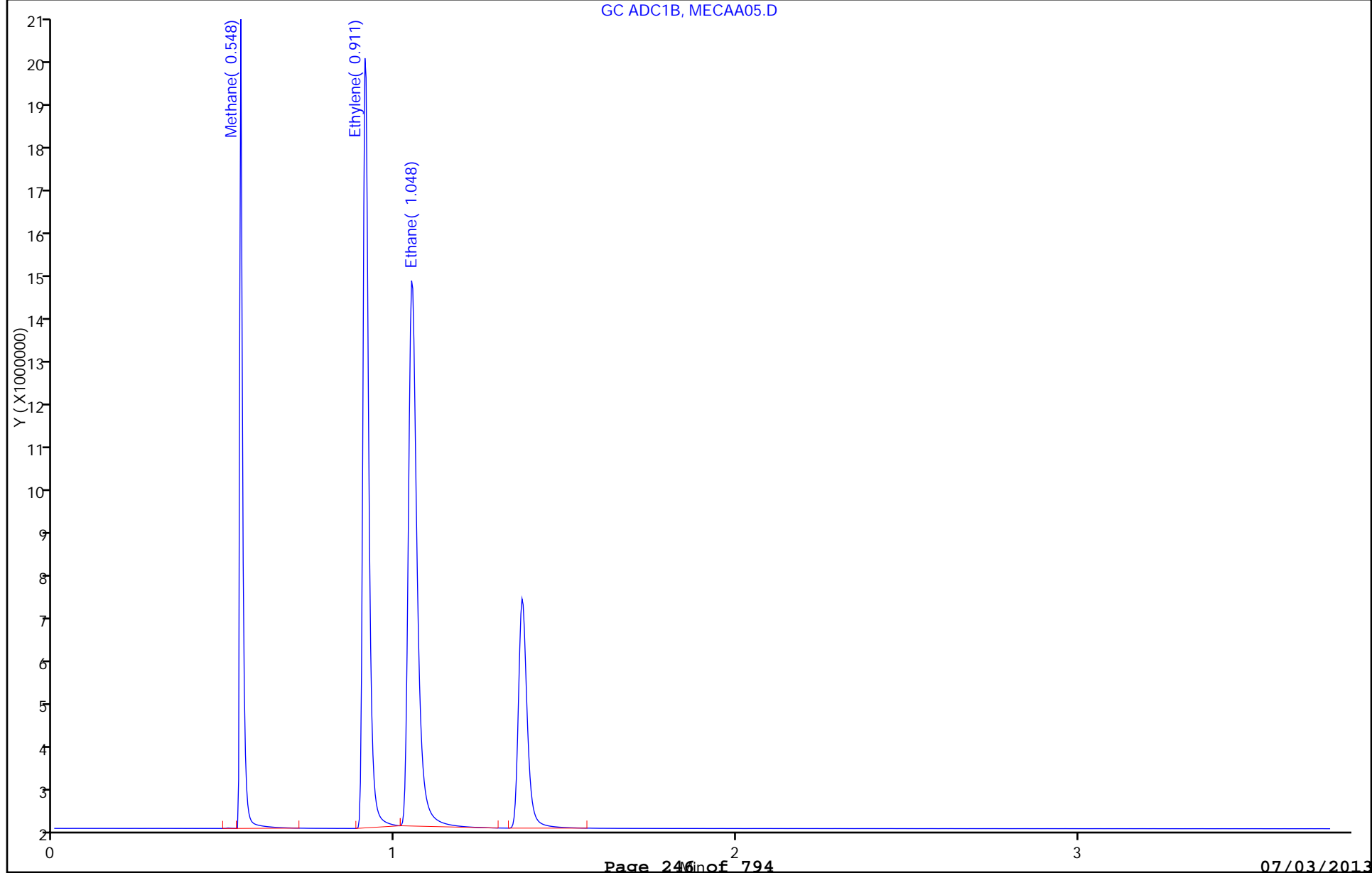
Purge Vol: 18.000 mL

Column Type:

Column Dia:

Y Scaling:

GC ADC1B, MECAA05.D



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Lab Sample ID: ICV 200-53930/6 Calibration Date: 04/03/2013 16:22
 Instrument ID: CH2866.i Calib Start Date: 04/03/2013 15:57
 GC Column: RT-U-Plot ID: 0.53 (mm) Calib End Date: 04/03/2013 16:17
 Lab File ID: MECAA06.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	Ave	32451	33364		74.4	72.4	2.8	30.0
Ethylene	Ave	34055	34638		130	128	1.7	30.0
Ethane	Ave	33741	34648		140	137	2.7	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Lab Sample ID: ICV 200-53930/6 Calibration Date: 04/03/2013 16:22
 Instrument ID: CH2866.i Calib Start Date: 04/03/2013 15:57
 GC Column: RT-U-Plot ID: 0.53 (mm) Calib End Date: 04/03/2013 16:17
 Lab File ID: MECAA06.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	0.55	0.30	0.80
Ethylene	0.91	0.66	1.16
Ethane	1.05	0.80	1.30

TestAmerica Burlington
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA06.D
 Lims ID: ICV Client ID:
 Inject. Date: 03-Apr-2013 16:22:27 Dil. Factor: 1.0000
 Sample Type: ICV
 Sample ID: ICV
 Misc. Info.:
 Operator: PAD Instrument ID: CH2866.i
 Purge Vol: 18.000 mL ALS Bottle#: 6
 Lims Batch ID: 53930 Lims Sample ID: 6
 Sublist:
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\RSK-175.m
 Last Update: 12-Apr-2013 16:03:55 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK002

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.546	0.548	-0.002	2415691	74.4	
2 Ethylene					
0.912	0.912	0.000	4442602	130.5	
3 Ethane					
1.049	1.052	-0.003	4735593	140.4	

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.b\MECAA06.D

Injection Date: 03-Apr-2013 16:22:27 Limit Group: VG_RSK175_Limits

Client ID: Instrument ID: CH2866.i

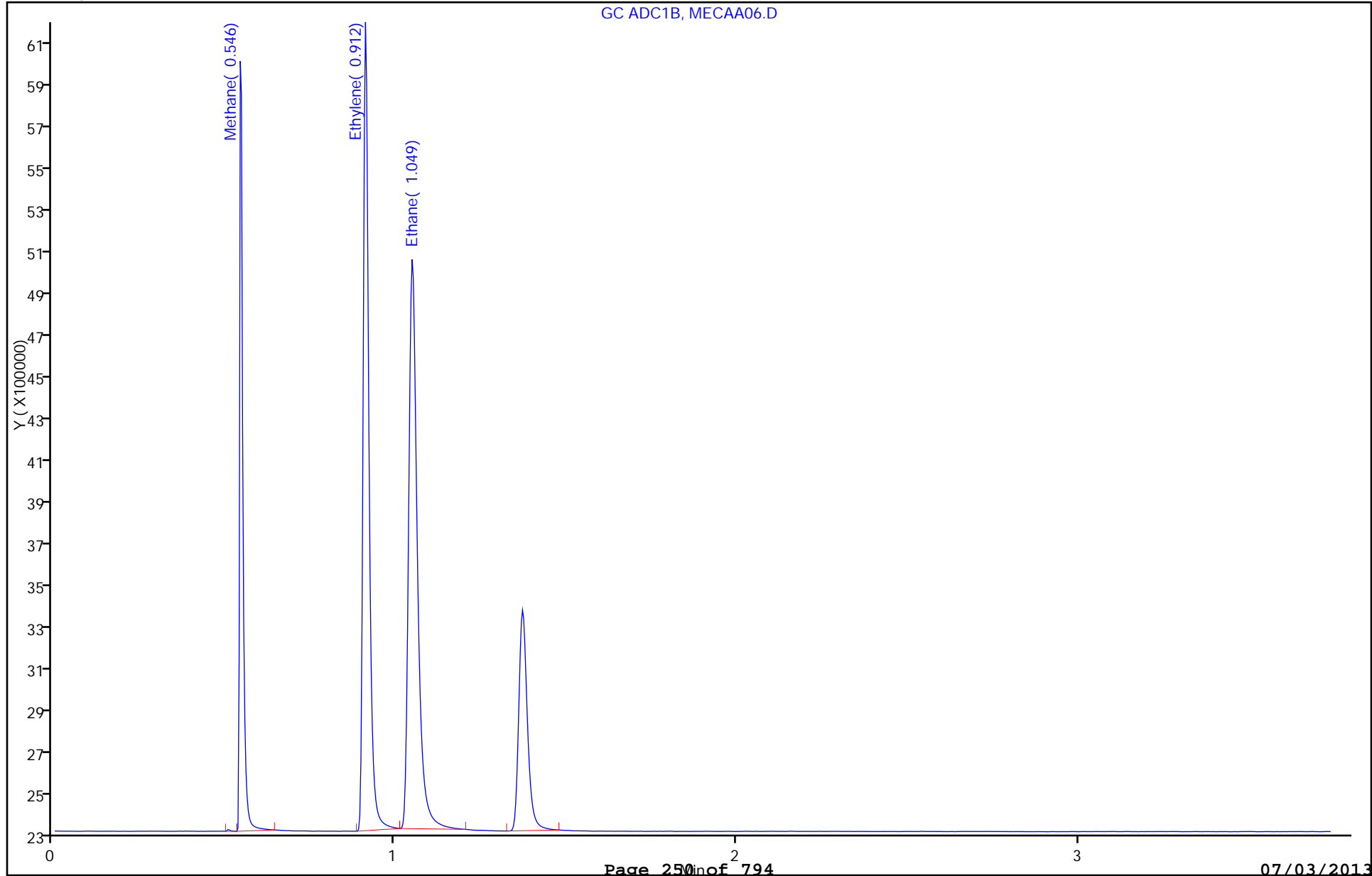
Lims Batch ID: 53930 Lims Sample ID: 6

Operator ID: PAD Purge Vol: 18.000 mL

Column Type: Column Dia:

Y Scaling:

GC ADC1B, MECAA06.D



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Lab Sample ID: CCV 200-55736/2 Calibration Date: 05/20/2013 12:40
 Instrument ID: CH2866.i Calib Start Date: 04/03/2013 15:57
 GC Column: RT-U-Plot ID: 0.53 (mm) Calib End Date: 04/03/2013 16:17
 Lab File ID: MECAQ002.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	Ave	32451	28081		62.7	72.4	-13.5	30.0
Ethylene	Ave	34055	30120		113	128	-11.6	30.0
Ethane	Ave	33741	29371		119	137	-13.0	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Lab Sample ID: CCV 200-55736/2 Calibration Date: 05/20/2013 12:40
 Instrument ID: CH2866.i Calib Start Date: 04/03/2013 15:57
 GC Column: RT-U-Plot ID: 0.53 (mm) Calib End Date: 04/03/2013 16:17
 Lab File ID: MECAQ002.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	0.57	0.32	0.82
Ethylene	0.95	0.70	1.20
Ethane	1.10	0.85	1.35

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.bMECAQ002.D
 Lims ID: CCV Client ID:
 Inject. Date: 20-May-2013 12:40:15 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: 200-0003566-002
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 2
 Lims Batch ID: 55736 Lims Sample ID: 2
 Sublist: chrom-RSK-175*sub2
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\RSK-175.m
 Last Update: 23-May-2013 10:08:20 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.570	0.570	0.000	2033174	62.7	
2 Ethylene					
0.953	0.953	0.000	3863173	113.4	
3 Ethane					
1.097	1.097	0.000	4014251	119.0	

TestAmerica Burlington

Data File: \\BTv-LIMS1\ChromData\CH2866.i\20130520-3566.b\MECAQ002.D

Injection Date: 20-May-2013 12:40:15 Limit Group: VG_RSK175_Limits

Client ID: Instrument ID: CH2866.i

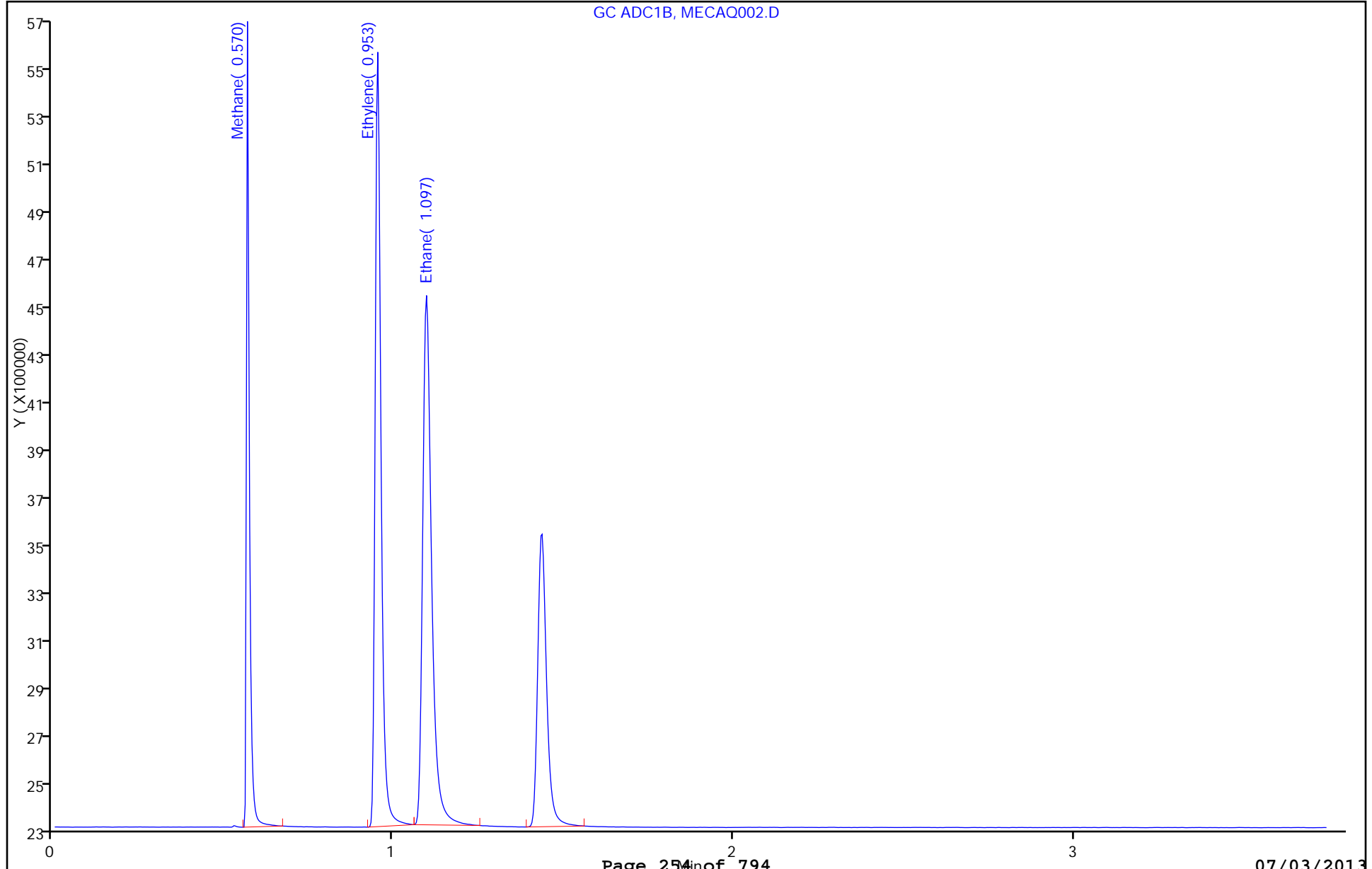
Lims Batch ID: 55736 Lims Sample ID: 2

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:

GC ADC1B, MECAQ002.D



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Lab Sample ID: CCVC 200-55736/44 Calibration Date: 05/21/2013 10:14
 Instrument ID: CH2866.i Calib Start Date: 04/03/2013 15:57
 GC Column: RT-U-Plot ID: 0.53 (mm) Calib End Date: 04/03/2013 16:17
 Lab File ID: MECAQ044.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	Ave	32451	24935		55.6	72.4	-23.2	30.0
Ethylene	Ave	34055	26820		101	128	-21.2	30.0
Ethane	Ave	33741	26066		106	137	-22.7	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Lab Sample ID: CCVC 200-55736/44 Calibration Date: 05/21/2013 10:14
 Instrument ID: CH2866.i Calib Start Date: 04/03/2013 15:57
 GC Column: RT-U-Plot ID: 0.53 (mm) Calib End Date: 04/03/2013 16:17
 Lab File ID: MECAQ044.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	0.57	0.32	0.82
Ethylene	0.95	0.70	1.20
Ethane	1.09	0.84	1.34

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.bMECAQ044.D
 Lims ID: CCVC Client ID:
 Inject. Date: 21-May-2013 10:14:50 Dil. Factor: 1.0000
 Sample Type: CCVC
 Sample ID: 200-0003566-044
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 44
 Lims Batch ID: 55736 Lims Sample ID: 44
 Sublist: chrom-RSK-175*sub2
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\RSK-175.m
 Last Update: 23-May-2013 10:08:29 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.569	0.569	0.000	1805391	55.6	
2 Ethylene					
0.949	0.949	0.000	3439860	101.0	
3 Ethane					
1.093	1.093	0.000	3562584	105.6	

TestAmerica Burlington

Data File: \\BTv-LIMS1\ChromData\CH2866.i\20130520-3566.b\MECAQ044.D

Injection Date: 21-May-2013 10:14:50 Limit Group: VG_RSK175_Limits

Client ID: Instrument ID: CH2866.i

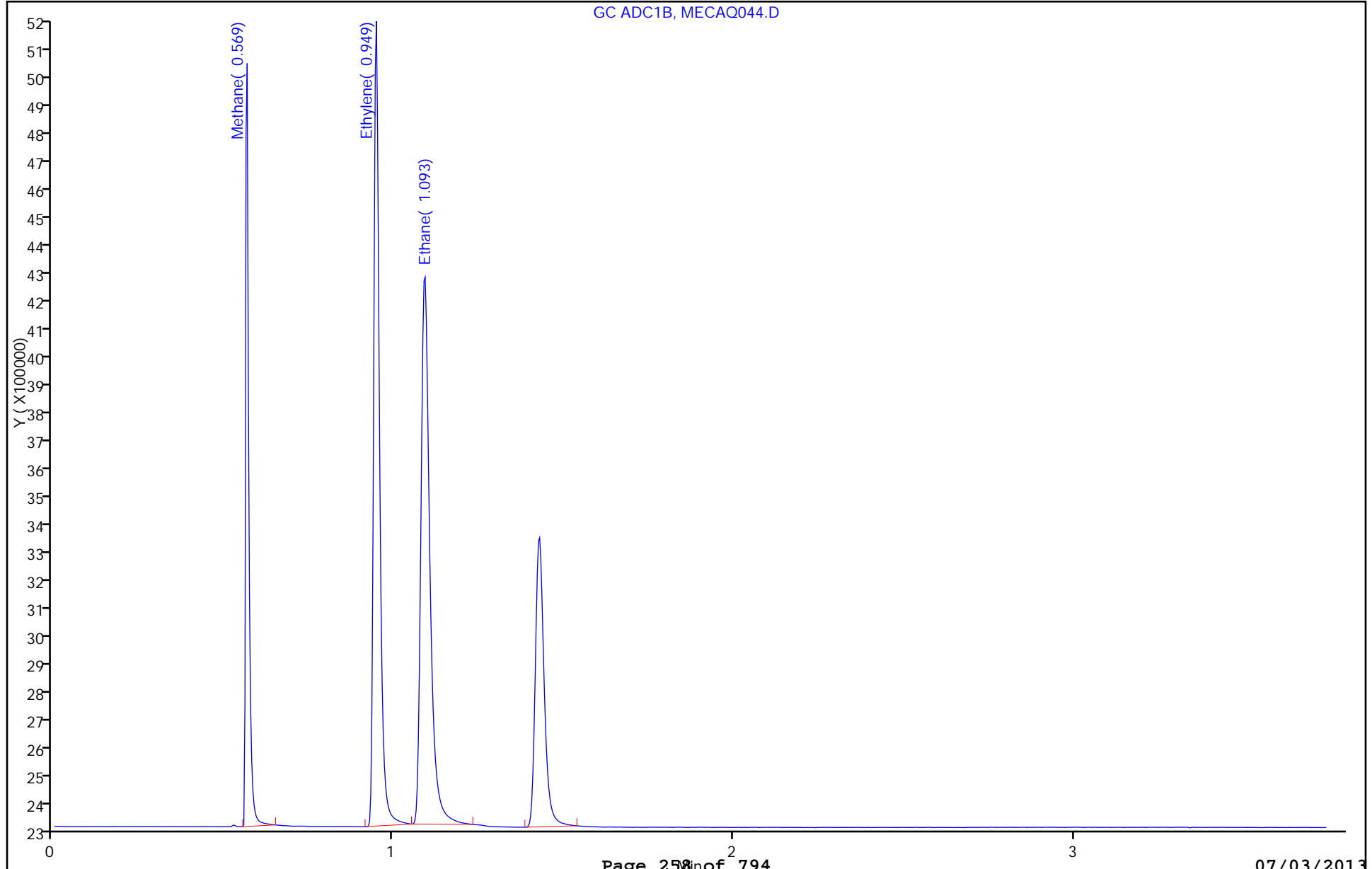
Lims Batch ID: 55736 Lims Sample ID: 44

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:

GC ADC1B, MECAQ044.D



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-55736/25
 Matrix: Water Lab File ID: MECAQ026.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 18 (mL) Date Analyzed: 05/20/2013 16:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55736 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
74-82-8	Methane	ND		2.0	2.0
74-84-0	Ethane	ND		4.0	4.0
74-85-1	Ethylene	ND		3.0	3.0

TestAmerica Burlington
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.bMECAQ026.D
 Lims ID: MB Client ID:
 Inject. Date: 20-May-2013 16:02:53 Dil. Factor: 1.0000
 Sample Type: MB
 Sample ID: 200-0003566-025
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 25
 Lims Batch ID: 55736 Lims Sample ID: 25
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\RSK-175.m
 Last Update: 23-May-2013 10:08:20 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\MECAQ026.D

Injection Date: 20-May-2013 16:02:53 Limit Group: VG_RSK175_Limits

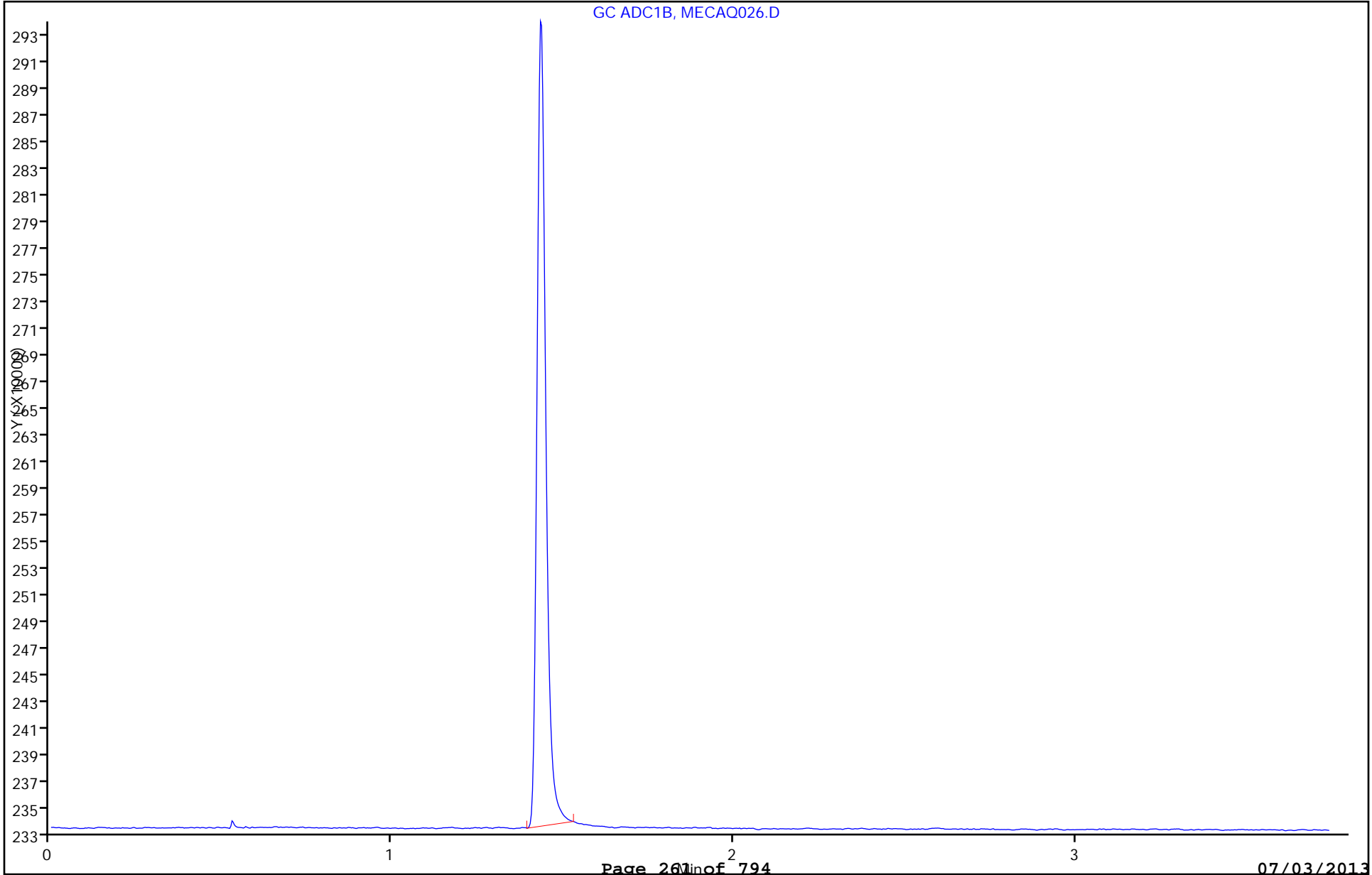
Client ID: Instrument ID: CH2866.i

Lims Batch ID: 55736 Lims Sample ID: 25

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-55736/24
 Matrix: Water Lab File ID: MECAQ025.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 18 (mL) Date Analyzed: 05/20/2013 15:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55736 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
74-82-8	Methane	60.9		2.0	2.0
74-84-0	Ethane	114		4.0	4.0
74-85-1	Ethylene	111		3.0	3.0

TestAmerica Burlington
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.bMECAQ025.D
 Lims ID: LCS Client ID:
 Inject. Date: 20-May-2013 15:52:51 Dil. Factor: 1.0000
 Sample Type: LCS
 Sample ID: 200-0003566-024
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 24
 Lims Batch ID: 55736 Lims Sample ID: 24
 Detector: GC ADC1B
 Method: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\RSK-175.m
 Last Update: 23-May-2013 10:08:20 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.569	0.570	-0.001	1975108	60.9	
2 Ethylene					
0.952	0.953	-0.001	3777390	110.9	
3 Ethane					
1.095	1.097	-0.001	3843574	113.9	

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\MECAQ025.D

Injection Date: 20-May-2013 15:52:51 Limit Group: VG_RSK175_Limits

Client ID: Instrument ID: CH2866.i

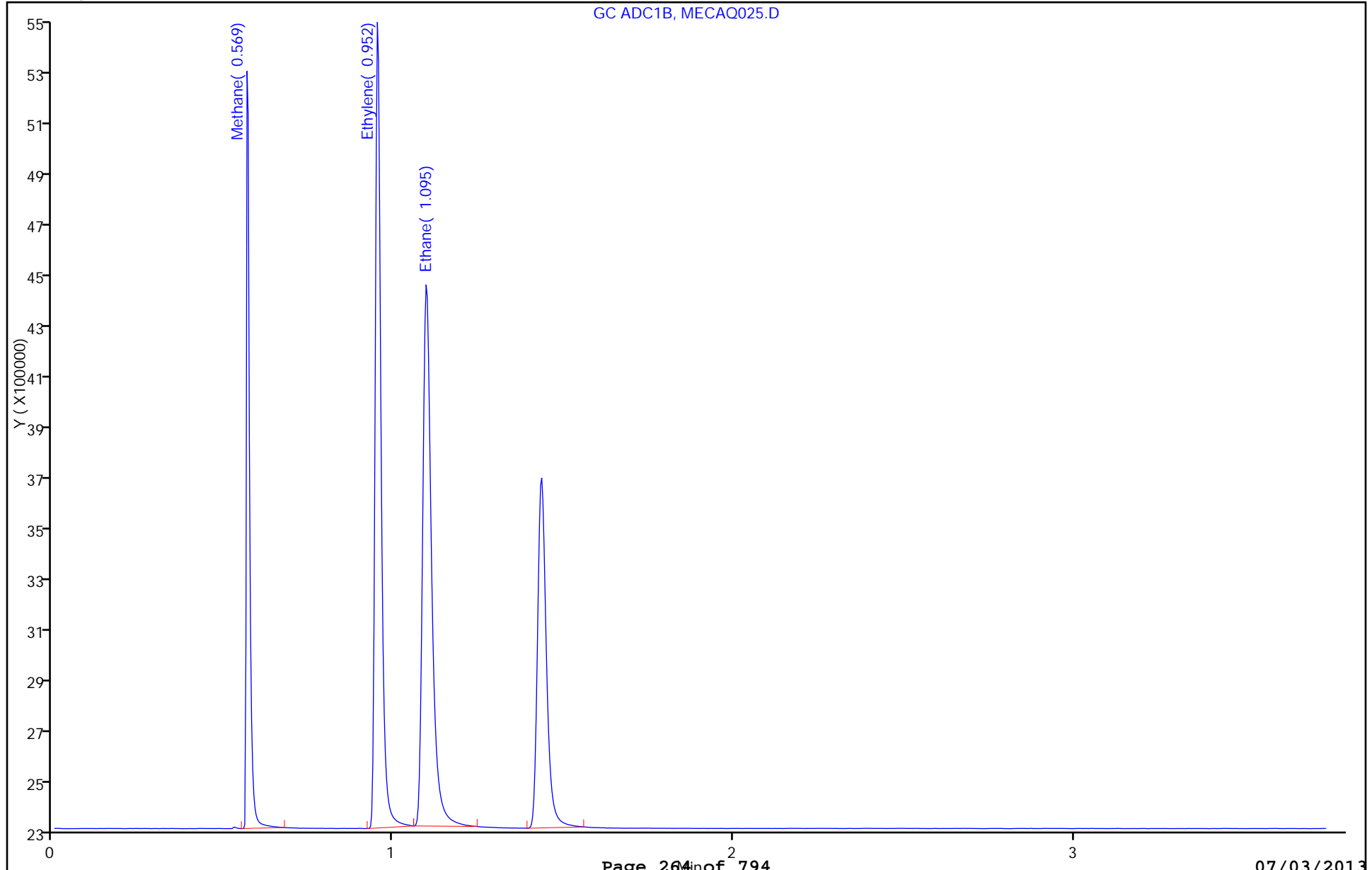
Lims Batch ID: 55736 Lims Sample ID: 24

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:

GC ADC1B, MECAQ025.D



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20101 MS Lab Sample ID: 680-90122-3 MS
 Matrix: Water Lab File ID: MECAQ035.D
 Analysis Method: RSK-175 Date Collected: 05/08/2013 15:30
 Sample wt/vol: 18(mL) Date Analyzed: 05/20/2013 17:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55736 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
74-82-8	Methane	67.1		2.0	2.0
74-84-0	Ethane	127		4.0	4.0
74-85-1	Ethylene	114		3.0	3.0

TestAmerica Burlington
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.bMECAQ035.D
 Lims ID: 680-90122-G-3 MS Client ID: 25LM20101
 Inject. Date: 20-May-2013 17:12:40 Dil. Factor: 1.0000
 Sample Type: MS
 Sample ID: 200-0003566-034
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 34
 Lims Batch ID: 55736 Lims Sample ID: 34
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\RSK-175.m
 Last Update: 23-May-2013 10:08:20 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.568	0.570	-0.002	2178807	67.1	
2 Ethylene					
0.948	0.953	-0.005	3876217	113.8	
3 Ethane					
1.091	1.097	-0.005	4300877	127.5	

TestAmerica Burlington

Data File: \\BTv-LIMS1\ChromData\CH2866.i\20130520-3566.b\MECAQ035.D

Injection Date: 20-May-2013 17:12:40

Limit Group: VG_RSK175_Limits

Client ID: 25LM20101

Instrument ID: CH2866.i

Lims Batch ID: 55736

Lims Sample ID: 34

Operator ID: NEA

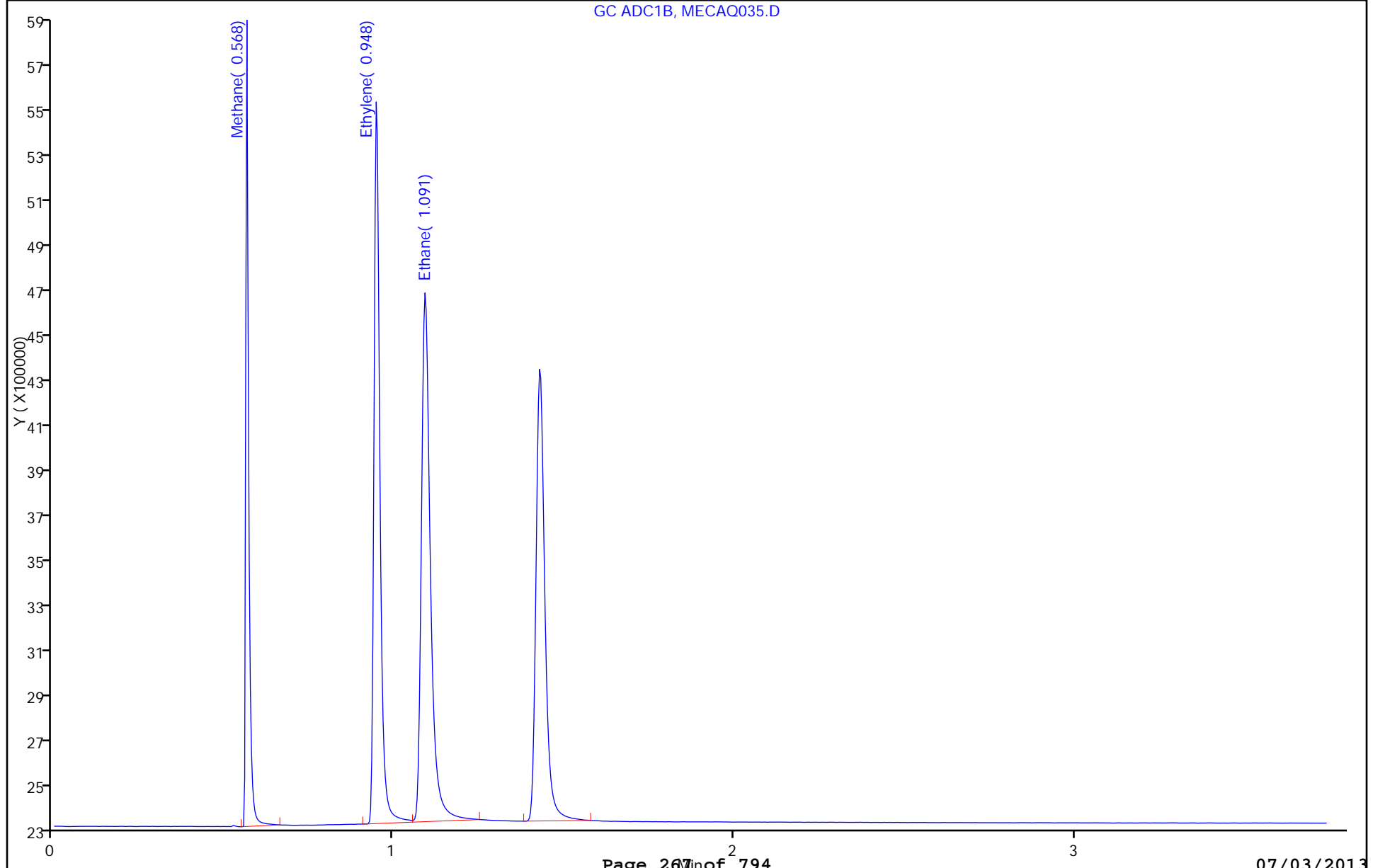
Purge Vol: 400.000 uL

Column Type:

Column Dia:

Y Scaling:

GC ADC1B, MECAQ035.D



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 680-90122-1
 SDG No.: _____
 Client Sample ID: 25LM20101 MSD Lab Sample ID: 680-90122-3 MSD
 Matrix: Water Lab File ID: MECAQ036.D
 Analysis Method: RSK-175 Date Collected: 05/08/2013 15:30
 Sample wt/vol: 18(mL) Date Analyzed: 05/20/2013 17:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RT-U-Plot ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 55736 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
74-82-8	Methane	78.4		2.0	2.0
74-84-0	Ethane	105		4.0	4.0
74-85-1	Ethylene	100		3.0	3.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.bMECAQ036.D
 Lims ID: 680-90122-G-3 MSD Client ID: 25LM20101
 Inject. Date: 20-May-2013 17:18:19 Dil. Factor: 1.0000
 Sample Type: MSD
 Sample ID: 200-0003566-036
 Misc. Info.:
 Operator: NEA Instrument ID: CH2866.i
 Purge Vol: 400.000 uL ALS Bottle#: 36
 Lims Batch ID: 55736 Lims Sample ID: 36
 Detector: GC ADC1B

Method: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\RSK-175.m
 Last Update: 23-May-2013 10:08:20 Calib Date: 03-Apr-2013 16:17:36
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CH2866.i\20130405-3317.bMECAA05.D
 Limit Group: VG_RSK175_Limits
 Integrator: Falcon
 Column Type: Column Dia:
 Process Host: XAWRK005

RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
----	--------	--------	----------	-----------------	-------

1 Methane					
0.567	0.570	-0.003	2543400	78.4	
2 Ethylene					
0.950	0.953	-0.003	3405735	100.0	
3 Ethane					
1.093	1.097	-0.003	3538637	104.9	

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH2866.i\20130520-3566.b\MECAQ036.D

Injection Date: 20-May-2013 17:18:19 Limit Group: VG_RSK175_Limits

Client ID: 25LM20101 Instrument ID: CH2866.i

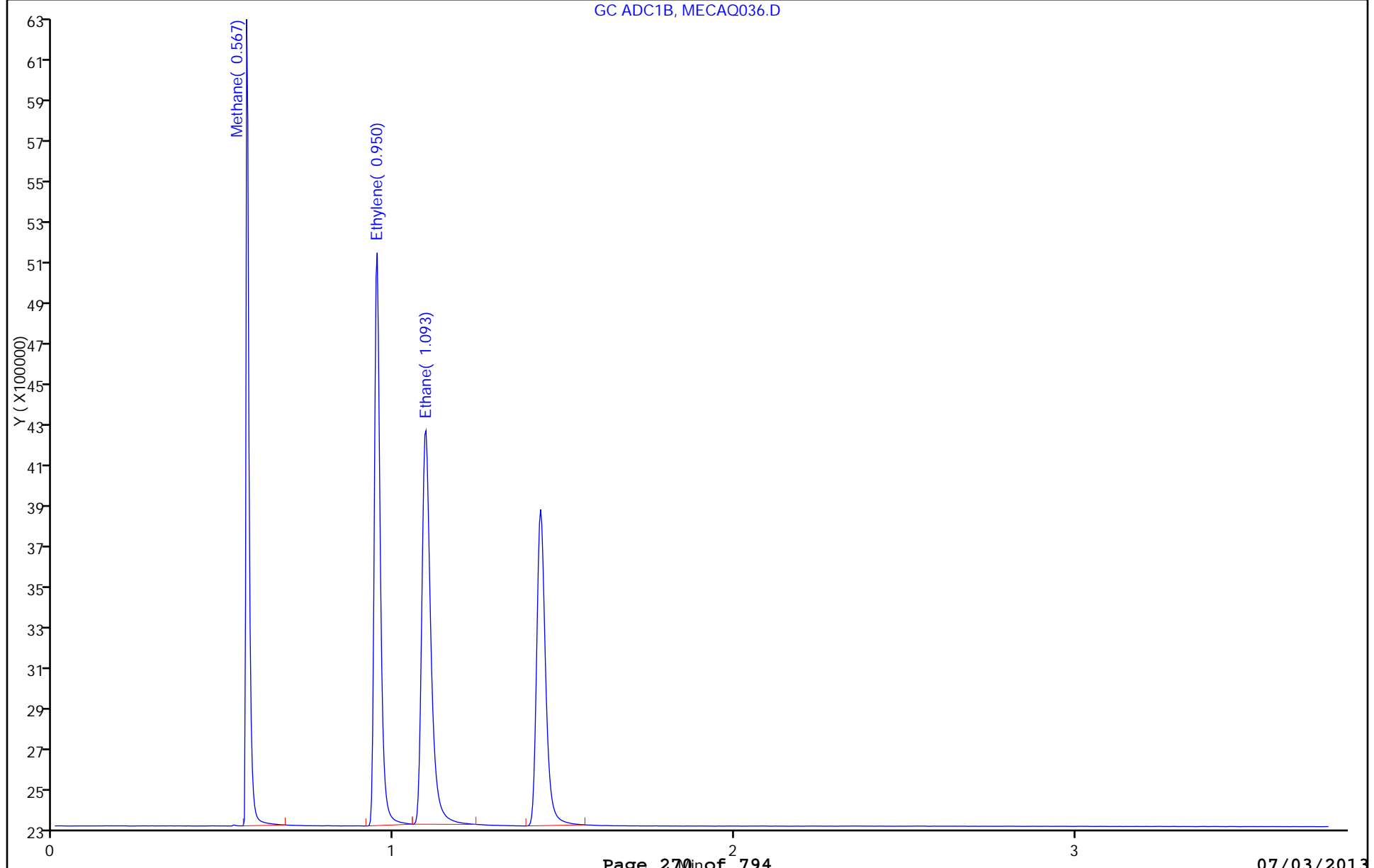
Lims Batch ID: 55736 Lims Sample ID: 36

Operator ID: NEA Purge Vol: 400.000 uL

Column Type: Column Dia:

Y Scaling:

GC ADC1B, MECAQ036.D



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 680-90122-1

SDG No.: _____

Instrument ID: CH2866.i Start Date: 04/03/2013 15:57

Analysis Batch Number: 53930 End Date: 04/03/2013 16:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 200-53930/1		04/03/2013 15:57	1	MECAA01.D	RT-U-Plot 0.53 (mm)
IC 200-53930/2		04/03/2013 16:01	1	MECAA02.D	RT-U-Plot 0.53 (mm)
ICRT 200-53930/3		04/03/2013 16:06	1	MECAA03.D	RT-U-Plot 0.53 (mm)
IC 200-53930/4		04/03/2013 16:12	1	MECAA04.D	RT-U-Plot 0.53 (mm)
IC 200-53930/5		04/03/2013 16:17	1	MECAA05.D	RT-U-Plot 0.53 (mm)
ICV 200-53930/6		04/03/2013 16:22	1	MECAA06.D	RT-U-Plot 0.53 (mm)
ZZZZZ		04/03/2013 16:28	1		RT-U-Plot 0.53 (mm)
ZZZZZ		04/03/2013 16:33	1		RT-U-Plot 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 680-90122-1

SDG No.: _____

Instrument ID: CH2866.iStart Date: 05/20/2013 12:27Analysis Batch Number: 55736End Date: 05/21/2013 10:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-55736/1		05/20/2013 12:27	1		RT-U-Plot 0.53 (mm)
CCV 200-55736/2		05/20/2013 12:40	1	MECAQ002.D	RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 12:49	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 13:01	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 13:47	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 13:52	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 13:57	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 14:03	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 14:07	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 14:12	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 14:18	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 14:23	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 14:28	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 14:34	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 14:50	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 14:55	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 15:00	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 15:06	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 15:11	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 15:15	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 15:21	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 15:26	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 15:31	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 15:37	1		RT-U-Plot 0.53 (mm)
LCS 200-55736/24		05/20/2013 15:52	1	MECAQ025.D	RT-U-Plot 0.53 (mm)
MB 200-55736/25		05/20/2013 16:02	1	MECAQ026.D	RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 16:27	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 16:31	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 16:36	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 16:47	1		RT-U-Plot 0.53 (mm)
ZZZZZ		05/20/2013 16:52	1		RT-U-Plot 0.53 (mm)
680-90122-1	25LM20098	05/20/2013 16:56	1	MECAQ032.D	RT-U-Plot 0.53 (mm)
680-90122-2	25LM20099	05/20/2013 17:02	1	MECAQ033.D	RT-U-Plot 0.53 (mm)
680-90122-3	25LM20101	05/20/2013 17:07	1	MECAQ034.D	RT-U-Plot 0.53 (mm)
680-90122-3 MS	25LM20101 MS	05/20/2013 17:12	1	MECAQ035.D	RT-U-Plot 0.53 (mm)
680-90122-3 MSD	25LM20101 MSD	05/20/2013 17:18	1	MECAQ036.D	RT-U-Plot 0.53 (mm)
680-90122-4	25LM20102	05/20/2013 17:23	1	MECAQ037.D	RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 09:32	75		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 09:37	100		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 09:41	100		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 09:47	75		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 09:52	8		RT-U-Plot 0.53 (mm)
ZZZZZ		05/21/2013 09:57	75		RT-U-Plot 0.53 (mm)
CCVC 200-55736/44		05/21/2013 10:14	1	MECAQ044.D	RT-U-Plot 0.53 (mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-90122-1

SDG No.: _____

Project: Seneca Army Depot - LTM Monitoring

Client Sample ID	Lab Sample ID
<u>25LM20098</u>	<u>680-90122-1</u>
<u>25LM20099</u>	<u>680-90122-2</u>
<u>25LM20101</u>	<u>680-90122-3</u>
<u>25LM20102</u>	<u>680-90122-4</u>
<u>25LM20105</u>	<u>680-90122-6</u>

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: 25LM20098

Lab Sample ID: 680-90122-1

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

SDG ID.:

Matrix: Water

Date Sampled: 05/08/2013 10:22

Reporting Basis: WET

Date Received: 05/09/2013 08:20

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	5500	1000	500	ug/L			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 25LM20099

Lab Sample ID: 680-90122-2

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

SDG ID.:

Matrix: Water

Date Sampled: 05/08/2013 12:50

Reporting Basis: WET

Date Received: 05/09/2013 08:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	440	100	50	ug/L			1	6010C
7440-23-5	Sodium	22000	1000	500	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: 25LM20101

Lab Sample ID: 680-90122-3

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/08/2013 15:30

Reporting Basis: WET

Date Received: 05/09/2013 08:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	6500	100	50	ug/L			1	6010C
7440-23-5	Sodium	16000	1000	500	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: 25LM20102

Lab Sample ID: 680-90122-4

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/08/2013 15:30

Reporting Basis: WET

Date Received: 05/09/2013 08:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	11000	100	50	ug/L			1	6010C
7440-23-5	Sodium	10000	1000	500	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: 25LM20105

Lab Sample ID: 680-90122-6

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/07/2013 13:26

Reporting Basis: WET

Date Received: 05/09/2013 08:20

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	4800	1000	500	ug/L			1	6010C

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

ICV Source: P_ICV_wk_00215 Concentration Units: ug/L

CCV Source: P_CCV_wk_00112

Analyte	ICV 680-277109/5 05/16/2013 15:58				CCV 680-277109/49 05/16/2013 19:59				CCV 680-277109/61 05/16/2013 21:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	984		1000	98	4930		5000	99	4820		5000	96
Sodium	9440		10000	94	6860		7500	91	6810		7500	91

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.: 680-90122-1

SDG No.: _____

ICV Source: P_ICV_wk_00215 Concentration Units: ug/L

CCV Source: P_CCV_wk_00112

Analyte	CCV 680-277109/73 05/16/2013 22:09											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	4880		5000	98								
Sodium	6790		7500	90								

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.: 680-90122-1

SDG No.: _____

ICV Source: P_ICV_wk_00215 Concentration Units: ug/L

CCV Source: P_CCV_wk_00112

Analyte	ICV 680-277577/4 05/21/2013 11:16				CCV 680-277577/66 05/21/2013 17:11				CCV 680-277577/78 05/21/2013 18:16			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	962		1000	96	4890		5000	98	4840		5000	97
Sodium	9630		10000	96	7190		7500	96	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.: 680-90122-1

SDG No.: _____

ICV Source: P_ICV_wk_00215 Concentration Units: ug/L

CCV Source: P_CCV_wk_00112

Analyte	CCV 680-277577/90 05/21/2013 19:22				CCV 680-277577/102 05/21/2013 20:27							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	4860		5000	97	4870		5000	97				
Sodium	7150		7500	95	7040		7500	94				

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.: 680-90122-1

SDG No.: _____

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-277109/7 Concentration Units: ug/L

CRQL Check Standard Source: P_CRI_00024

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	50.0	52.6	J	105	50-150
Sodium	1000	919	J	92	50-150

Lab Sample ID: CRI 680-277577/6 Concentration Units: ug/L

CRQL Check Standard Source: P_CRI_00024

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	50.0	57.0	J	114	50-150
Sodium	1000	944	J	94	50-150

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.: 680-90122-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICBIS 680-277109/6 05/16/2013 16:05		CCB 680-277109/50 05/16/2013 20:04		CCB 680-277109/62 05/16/2013 21:10		CCB 680-277109/74 05/16/2013 22:15	
		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.: 680-90122-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICBIS 680-277577/5 05/21/2013 11:21		CCB 680-277577/67 05/21/2013 17:17		CCB 680-277577/79 05/21/2013 18:22		CCB 680-277577/91 05/21/2013 19:27	
		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.: 680-90122-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 680-277577/103 05/21/2013 20:32							
		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.: 680-90122-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 680-276285/1-A
Instrument Code: ICPE Batch No.: 277109

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	ND			6010C
7440-23-5	Sodium	ND			6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 680-277276/1-A
Instrument Code: ICPE Batch No.: 277577

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.: 680-90122-1
 SDG No.: _____
 Lab Sample ID: ICSA 680-277109/8 Instrument ID: ICPE
 Lab File ID: E05162013AF.csv ICS Source: P_ICSA_wk_00032
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	200000	185700	93
Sodium		-47.4	
<i>Aluminum</i>	<i>500000</i>	<i>531837</i>	<i>106</i>
<i>Antimony</i>		<i>7.59</i>	
<i>Arsenic</i>		<i>-1.08</i>	
<i>Barium</i>		<i>-8.38</i>	
<i>Beryllium</i>		<i>-0.133</i>	
<i>Boron</i>		<i>-2.89</i>	
<i>Cadmium</i>		<i>1.53</i>	
<i>Calcium</i>	<i>500000</i>	<i>478747</i>	<i>96</i>
<i>Chromium</i>		<i>0.686</i>	
<i>Cobalt</i>		<i>1.76</i>	
<i>Copper</i>		<i>2.44</i>	
<i>Lead</i>		<i>0.491</i>	
<i>Magnesium</i>	<i>500000</i>	<i>512783</i>	<i>103</i>
<i>Manganese</i>		<i>4.36</i>	
<i>Molybdenum</i>		<i>1.97</i>	
<i>Nickel</i>		<i>2.54</i>	
<i>Potassium</i>		<i>2.37</i>	
<i>Selenium</i>		<i>-7.64</i>	
<i>Silver</i>		<i>-0.123</i>	
<i>Strontium</i>		<i>8.94</i>	
<i>Thallium</i>		<i>-12.8</i>	
<i>Tin</i>		<i>-0.396</i>	
<i>Titanium</i>		<i>1.94</i>	
<i>Vanadium</i>		<i>1.21</i>	
<i>Zinc</i>		<i>15.3</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.: 680-90122-1

SDG No.: _____

Lab Sample ID: ICSAB 680-277109/9

Instrument ID: ICPE

Lab File ID: E05162013AF.csv

ICS Source: P_ICSAB_wk_00045

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	193247	97
Sodium		-493	
<i>Aluminum</i>	<i>500000</i>	<i>551275</i>	<i>110</i>
<i>Antimony</i>	<i>600</i>	<i>663</i>	<i>111</i>
<i>Arsenic</i>	<i>100</i>	<i>118</i>	<i>118</i>
<i>Barium</i>	<i>500</i>	<i>508</i>	<i>102</i>
<i>Beryllium</i>	<i>500</i>	<i>499</i>	<i>100</i>
<i>Boron</i>		<i>-6.11</i>	
<i>Cadmium</i>	<i>1000</i>	<i>988</i>	<i>99</i>
<i>Calcium</i>	<i>500000</i>	<i>499038</i>	<i>100</i>
<i>Chromium</i>	<i>500</i>	<i>517</i>	<i>103</i>
<i>Cobalt</i>	<i>500</i>	<i>489</i>	<i>98</i>
<i>Copper</i>	<i>500</i>	<i>576</i>	<i>115</i>
<i>Lead</i>	<i>50.0</i>	<i>47.0</i>	<i>94</i>
<i>Magnesium</i>	<i>500000</i>	<i>533318</i>	<i>107</i>
<i>Manganese</i>	<i>500</i>	<i>535</i>	<i>107</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1142</i>	<i>114</i>
<i>Nickel</i>	<i>1000</i>	<i>967</i>	<i>97</i>
<i>Potassium</i>		<i>1.57</i>	
<i>Selenium</i>	<i>50.0</i>	<i>51.6</i>	<i>103</i>
<i>Silver</i>	<i>200</i>	<i>223</i>	<i>112</i>
<i>Strontium</i>		<i>10.5</i>	
<i>Thallium</i>	<i>100</i>	<i>96.3</i>	<i>96</i>
<i>Tin</i>	<i>1000</i>	<i>1036</i>	<i>104</i>
<i>Titanium</i>		<i>2.04</i>	
<i>Vanadium</i>	<i>500</i>	<i>507</i>	<i>101</i>
<i>Zinc</i>	<i>1000</i>	<i>981</i>	<i>98</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.: 680-90122-1

SDG No.: _____

Lab Sample ID: ICSA 680-277577/7

Instrument ID: ICPE

Lab File ID: E05212013.csv

ICS Source: P_ICSA_wk_00032

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	200000	184054	92
Sodium		-45.2	
<i>Aluminum</i>	<i>500000</i>	<i>531151</i>	<i>106</i>
<i>Antimony</i>		<i>6.79</i>	
<i>Arsenic</i>		<i>-5.27</i>	
<i>Barium</i>		<i>1.26</i>	
<i>Beryllium</i>		<i>-0.116</i>	
<i>Boron</i>		<i>-0.761</i>	
<i>Cadmium</i>		<i>2.25</i>	
<i>Calcium</i>	<i>500000</i>	<i>475948</i>	<i>95</i>
<i>Chromium</i>		<i>0.527</i>	
<i>Cobalt</i>		<i>0.523</i>	
<i>Copper</i>		<i>2.31</i>	
<i>Lead</i>		<i>0.0892</i>	
<i>Magnesium</i>	<i>500000</i>	<i>510916</i>	<i>102</i>
<i>Manganese</i>		<i>0.163</i>	
<i>Molybdenum</i>		<i>1.45</i>	
<i>Nickel</i>		<i>3.79</i>	
<i>Potassium</i>		<i>2.19</i>	
<i>Selenium</i>		<i>-5.91</i>	
<i>Silver</i>		<i>0.212</i>	
<i>Strontium</i>		<i>9.76</i>	
<i>Thallium</i>		<i>-2.00</i>	
<i>Tin</i>		<i>-3.40</i>	
<i>Titanium</i>		<i>1.88</i>	
<i>Vanadium</i>		<i>0.938</i>	
<i>Zinc</i>		<i>10.3</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.: 680-90122-1

SDG No.: _____

Lab Sample ID: ICSAB 680-277577/8

Instrument ID: ICPE

Lab File ID: E05212013.csv

ICS Source: P_ICSAB_wk_00045

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	190827	95
Sodium		-445	
<i>Aluminum</i>	<i>500000</i>	<i>552416</i>	<i>110</i>
<i>Antimony</i>	<i>600</i>	<i>683</i>	<i>114</i>
<i>Arsenic</i>	<i>100</i>	<i>118</i>	<i>118</i>
<i>Barium</i>	<i>500</i>	<i>515</i>	<i>103</i>
<i>Beryllium</i>	<i>500</i>	<i>495</i>	<i>99</i>
<i>Boron</i>		<i>-4.15</i>	
<i>Cadmium</i>	<i>1000</i>	<i>977</i>	<i>98</i>
<i>Calcium</i>	<i>500000</i>	<i>493164</i>	<i>99</i>
<i>Chromium</i>	<i>500</i>	<i>501</i>	<i>100</i>
<i>Cobalt</i>	<i>500</i>	<i>490</i>	<i>98</i>
<i>Copper</i>	<i>500</i>	<i>561</i>	<i>112</i>
<i>Lead</i>	<i>50.0</i>	<i>49.6</i>	<i>99</i>
<i>Magnesium</i>	<i>500000</i>	<i>529889</i>	<i>106</i>
<i>Manganese</i>	<i>500</i>	<i>517</i>	<i>103</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1117</i>	<i>112</i>
<i>Nickel</i>	<i>1000</i>	<i>962</i>	<i>96</i>
<i>Potassium</i>		<i>1.73</i>	
<i>Selenium</i>	<i>50.0</i>	<i>54.9</i>	<i>110</i>
<i>Silver</i>	<i>200</i>	<i>222</i>	<i>111</i>
<i>Strontium</i>		<i>12.5</i>	
<i>Thallium</i>	<i>100</i>	<i>95.3</i>	<i>95</i>
<i>Tin</i>	<i>1000</i>	<i>1032</i>	<i>103</i>
<i>Titanium</i>		<i>2.02</i>	
<i>Vanadium</i>	<i>500</i>	<i>505</i>	<i>101</i>
<i>Zinc</i>	<i>1000</i>	<i>950</i>	<i>95</i>

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: 25LM20101 MS Lab ID: 680-90122-3 MS
 Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 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	15400	6500	5000	179	75-125	F	6010C
Sodium	15400	16000	5000	-16	75-125	F	6010C

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-90039-B-9-B MS
 Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 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	5070	51	J	5000	100	75-125		6010C
Sodium	28900	24000		5000	101	75-125	4	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: 25LM20101 MSD Lab ID: 680-90122-3 MSD
 Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 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	12300	5000	117	75-125	22	20	F	6010C
Sodium	18400	5000	44	75-125	18	20	F	6010C

SDR = Sample Duplicate Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-90039-B-9-C MSD
 Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 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	4850	5000	96	75-125	4	20		6010C
Sodium	28400	5000	90	75-125	2	20	4	6010C

SDR = Sample Duplicate Result

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

5B-IN
 POST DIGESTION SPIKE SAMPLE RECOVERY
 METALS

Client ID: 25LM20101 PDS

Lab ID: 680-90122-3 PDS

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

SDG No.: _____

Matrix: Water

Concentration Units: ug/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Iron	7310	6500	1000	83	75-125		6010C
Sodium	16000	16000	5000	-5	75-125	W	6010C

SSR = Spiked Sample Result

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

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-276285/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

Sample Matrix: Water

LCS Source: MS_LCS1_WK_00003

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	5000	4740		95	75	125		6010C
Sodium	5000	4620		92	75	125		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-277276/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

Sample Matrix: Water

LCS Source: MS_LCS1_WK_00004

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	5000	4800		96	75	125		6010C
Sodium	5000	4890		98	75	125		6010C

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 680-90122-3

SDG No: _____

Lab Name: TestAmerica Savannah

Job No: 680-90122-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	Method
Iron	6500	6700	3.5		6010C
Sodium	16000	15500	NC		6010C

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-90122-1
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: 680-90122-1
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: 680-90122-1

SDG No.: _____

ICP-AES Instrument ID: ICPE Date: 03/05/2013

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215														
Antimony	206.834						0.007900				0.009800		0.000023		
Arsenic	188.980							0.000037					-0.000016		
Barium	389.178												0.000062		0.000112
Beryllium	313.042														
Boron	249.678												-0.000101		
Cadmium	226.502												0.000066		
Calcium	370.602												-0.025890		
Chromium	267.716								-0.000200				0.000005		
Cobalt	228.615										0.000280		-0.000003		
Copper	324.754												0.000006		
Iron	271.441									0.090560	0.001160				
Lead	220.353		-0.000011							-0.000200					
Magnesium	279.078		-0.000142										0.000087		
Manganese	257.610												0.000012		0.000025
Molybdenum	202.032												-0.000007		
Nickel	231.604												0.000008		
Potassium	766.491														
Selenium	196.026												0.000012		
Silver	328.068														
Sodium	330.237												-0.005902		
Strontium	216.596							0.000009					0.000039		
Thallium	190.794									0.000530			-0.000052		
Tin	189.925														
Titanium	334.941														
Vanadium	292.401											-0.002240			
Zinc	206.200											-0.001960			

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-90122-1

SDG No.: _____

ICP-AES Instrument ID: ICPE Date: 03/05/2013

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
Aluminum	308.215		0.023030										-0.003100	
Antimony	206.834		-0.013600						0.000200					
Arsenic	188.980		-0.000430											
Barium	389.178		0.000218										0.000095	
Beryllium	313.042		-0.000082										-0.000019	
Boron	249.678													
Cadmium	226.502													
Calcium	370.602	0.008800									0.058100		0.003040	
Chromium	267.716	0.000090											-0.000200	
Cobalt	228.615		-0.002900						-0.000060		0.002250			
Copper	324.754		0.000550										-0.000200	
Iron	271.441		0.000760										0.004220	
Lead	220.353	0.000130	-0.000800									-0.000325		
Magnesium	279.078	-0.007600												
Manganese	257.610													
Molybdenum	202.032												-0.000260	
Nickel	231.604													
Potassium	766.491													
Selenium	196.026	0.000500												
Silver	328.068	0.000061								-0.000600			0.000081	
Sodium	330.237										-0.150825			-0.144400
Strontium	216.596		-0.003360		-0.001575									
Thallium	190.794	-0.001466	-0.000433										0.000500	
Tin	189.925													
Titanium	334.941													
Vanadium	292.401		-0.007130								0.000575			
Zinc	206.200													

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-276285/1-A	05/10/2013 11:07	276285		50	50
LCS 680-276285/2-A	05/10/2013 11:07	276285		50	50
680-90039-B-9-B MS	05/10/2013 11:07	276285		50	50
680-90039-B-9-C MSD	05/10/2013 11:07	276285		50	50
680-90122-1	05/10/2013 11:07	276285		50	50
680-90122-2	05/10/2013 11:07	276285		50	50
680-90122-4	05/10/2013 11:07	276285		50	50
680-90122-6	05/10/2013 11:07	276285		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-277276/1-A	05/20/2013 11:17	277276		50	50
LCS 680-277276/2-A	05/20/2013 11:17	277276		50	50
680-90122-3	05/20/2013 11:17	277276		50	50
680-90122-3 MS	05/20/2013 11:17	277276		50	50
680-90122-3 MSD	05/20/2013 11:17	277276		50	50

13-IN
 ANALYSIS RUN LOG
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/16/2013 15:34 End Date: 05/17/2013 09:19

Lab Sample ID	D / F	T y p e	Time	Analytes															
				F e	N a														
ZZZZZZ			15:34																
ZZZZZZ			15:40																
ZZZZZZ			15:45																
ZZZZZZ			15:51																
ICV 680-277109/5	1		15:58	X	X														
ICBIS 680-277109/6	1		16:05	X	X														
CRI 680-277109/7	1		16:10	X	X														
ICSA 680-277109/8	1		16:16	X	X														
ICSAB 680-277109/9	1		16:21	X	X														
ZZZZZZ			16:27																
ZZZZZZ			16:32																
ZZZZZZ			16:38																
CCV 680-277109/13			16:43																
CCB 680-277109/14			16:48																
ZZZZZZ			16:54																
ZZZZZZ			16:59																
ZZZZZZ			17:05																
ZZZZZZ			17:10																
ZZZZZZ			17:16																
ZZZZZZ			17:21																
ZZZZZZ			17:27																
ZZZZZZ			17:32																
ZZZZZZ			17:37																
ZZZZZZ			17:43																
CCV 680-277109/25			17:48																
CCB 680-277109/26			17:54																
ZZZZZZ			17:59																
ZZZZZZ			18:04																
ZZZZZZ			18:10																
ZZZZZZ			18:15																
ZZZZZZ			18:21																
ZZZZZZ			18:26																
ZZZZZZ			18:32																
ZZZZZZ			18:37																
ZZZZZZ			18:43																
ZZZZZZ			18:48																
CCV 680-277109/37			18:54																
CCB 680-277109/38			18:59																
ZZZZZZ			19:04																
ZZZZZZ			19:10																
ZZZZZZ			19:15																
ZZZZZZ			19:21																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/16/2013 15:34 End Date: 05/17/2013 09:19

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	N a																
ZZZZZZ			19:26																		
ZZZZZZ			19:32																		
ZZZZZZ			19:37																		
ZZZZZZ			19:43																		
ZZZZZZ			19:48																		
ZZZZZZ			19:54																		
CCV 680-277109/49	1		19:59	X	X																
CCB 680-277109/50	1		20:04	X	X																
ZZZZZZ			20:10																		
ZZZZZZ			20:15																		
ZZZZZZ			20:21																		
MB 680-276285/1-A	1	T	20:26	X	X																
LCS 680-276285/2-A	1	T	20:32	X	X																
ZZZZZZ			20:37																		
680-90039-B-9-B MS	1	T	20:42	X	X																
680-90039-B-9-C MSD	1	T	20:48	X	X																
ZZZZZZ			20:53																		
ZZZZZZ			20:59																		
CCV 680-277109/61	1		21:04	X	X																
CCB 680-277109/62	1		21:10	X	X																
ZZZZZZ			21:15																		
ZZZZZZ			21:20																		
ZZZZZZ			21:26																		
680-90122-1	1	T	21:31	X	X																
680-90122-2	1	T	21:37	X	X																
680-90122-4	1	T	21:42	X	X																
680-90122-6	1	T	21:48	X	X																
ZZZZZZ			21:53																		
ZZZZZZ			21:59																		
ZZZZZZ			22:04																		
CCV 680-277109/73	1		22:09	X	X																
CCB 680-277109/74	1		22:15	X	X																
ZZZZZZ			22:20																		
ZZZZZZ			22:26																		
ZZZZZZ			22:31																		
ZZZZZZ			22:36																		
ZZZZZZ			22:42																		
ZZZZZZ			22:47																		
ZZZZZZ			22:53																		
ZZZZZZ			22:58																		
ZZZZZZ			23:04																		
ZZZZZZ			23:09																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/16/2013 15:34 End Date: 05/17/2013 09:19

Lab Sample ID	D / F	Type	Time	Analytes															
				F	N														
CCV 680-277109/85			23:14																
CCB 680-277109/86			23:20																
ZZZZZZ			23:25																
ZZZZZZ			23:31																
ZZZZZZ			23:36																
ZZZZZZ			23:42																
ZZZZZZ			23:47																
ZZZZZZ			23:52																
ZZZZZZ			23:58																
ZZZZZZ			00:03																
ZZZZZZ			00:09																
ZZZZZZ			00:14																
CCV 680-277109/97			00:20																
CCB 680-277109/98			00:25																
ZZZZZZ			00:31																
ZZZZZZ			00:36																
ZZZZZZ			00:41																
ZZZZZZ			00:47																
ZZZZZZ			00:52																
ZZZZZZ			00:58																
ZZZZZZ			01:03																
ZZZZZZ			01:09																
ZZZZZZ			01:14																
ZZZZZZ			01:19																
CCV 680-277109/109			01:25																
CCB 680-277109/110			01:30																
ZZZZZZ			01:36																
ZZZZZZ			01:41																
ZZZZZZ			01:47																
ZZZZZZ			01:52																
ZZZZZZ			01:57																
ZZZZZZ			02:03																
ZZZZZZ			02:08																
ZZZZZZ			02:14																
ZZZZZZ			02:19																
ZZZZZZ			02:25																
CCV 680-277109/121			02:30																
CCB 680-277109/122			02:35																
ZZZZZZ			02:41																
ZZZZZZ			02:46																
ZZZZZZ			02:52																
ZZZZZZ			02:57																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/16/2013 15:34 End Date: 05/17/2013 09:19

Lab Sample ID	D / F	Type	Time	Analytes															
				F	N														
ZZZZZZ			03:03																
ZZZZZZ			03:08																
ZZZZZZ			03:14																
ZZZZZZ			03:19																
ZZZZZZ			03:25																
ZZZZZZ			03:30																
CCV 680-277109/133			03:35																
CCB 680-277109/134			03:41																
ZZZZZZ			03:46																
ZZZZZZ			03:52																
ZZZZZZ			03:57																
ZZZZZZ			04:03																
ZZZZZZ			04:08																
ZZZZZZ			04:14																
ZZZZZZ			04:19																
ZZZZZZ			04:24																
ZZZZZZ			04:30																
ZZZZZZ			04:35																
CCV 680-277109/145			04:41																
CCB 680-277109/146			04:46																
ZZZZZZ			04:52																
ZZZZZZ			04:57																
ZZZZZZ			05:03																
ZZZZZZ			05:08																
ZZZZZZ			05:13																
ZZZZZZ			05:19																
ZZZZZZ			05:24																
ZZZZZZ			05:30																
ZZZZZZ			05:35																
ZZZZZZ			05:41																
CCV 680-277109/157			05:46																
CCB 680-277109/158			05:52																
ZZZZZZ			05:57																
ZZZZZZ			06:03																
ZZZZZZ			06:08																
ZZZZZZ			06:14																
ZZZZZZ			06:19																
ZZZZZZ			06:24																
ZZZZZZ			06:30																
ZZZZZZ			06:35																
ZZZZZZ			06:41																
ZZZZZZ			06:46																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/16/2013 15:34 End Date: 05/17/2013 09:19

Lab Sample ID	D / F	Type	Time	Analytes															
				F	N														
CCV 680-277109/169			06:52																
CCB 680-277109/170			06:57																
ZZZZZZ			07:03																
ZZZZZZ			07:08																
ZZZZZZ			07:14																
ZZZZZZ			07:19																
ZZZZZZ			07:25																
ZZZZZZ			07:30																
ZZZZZZ			07:36																
ZZZZZZ			07:41																
ZZZZZZ			07:46																
ZZZZZZ			07:52																
CCV 680-277109/181			07:57																
CCB 680-277109/182			08:03																
ZZZZZZ			08:08																
ZZZZZZ			08:14																
ZZZZZZ			08:19																
ZZZZZZ			08:25																
ZZZZZZ			08:30																
ZZZZZZ			08:36																
ZZZZZZ			08:41																
ZZZZZZ			08:47																
ZZZZZZ			08:52																
ZZZZZZ			08:58																
CCV 680-277109/193			09:03																
CCB 680-277109/194			09:09																
ZZZZZZ			09:14																
ZZZZZZ			09:19																

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/21/2013 11:00 End Date: 05/22/2013 05:45

Lab Sample ID	D / F	Type	Time	Analytes															
				F e	N a														
ZZZZZZ			11:00																
ZZZZZZ			11:05																
ZZZZZZ			11:10																
ICV 680-277577/4	1		11:16	X	X														
ICBIS 680-277577/5	1		11:21	X	X														
CRI 680-277577/6	1		11:34	X	X														
ICSA 680-277577/7	1		11:39	X	X														
ICSAB 680-277577/8	1		11:44	X	X														
ZZZZZZ			11:50																
ZZZZZZ			11:55																
ZZZZZZ			12:01																
CCV 680-277577/12			12:06																
CCB 680-277577/13			12:12																
ZZZZZZ			12:17																
ZZZZZZ			12:22																
ZZZZZZ			12:28																
ZZZZZZ			12:33																
ZZZZZZ			12:39																
ZZZZZZ			12:44																
ZZZZZZ			12:50																
ZZZZZZ			12:55																
ZZZZZZ			13:01																
ZZZZZZ			13:06																
CCV 680-277577/24			13:12																
CCB 680-277577/25			13:17																
ZZZZZZ			13:22																
ZZZZZZ			13:28																
ZZZZZZ			13:33																
ZZZZZZ			13:39																
ZZZZZZ			13:44																
ZZZZZZ			13:49																
ZZZZZZ			13:55																
ZZZZZZ			14:00																
ZZZZZZ			14:06																
CCV 680-277577/35			14:19																
CCB 680-277577/36			14:25																
ZZZZZZ			14:30																
ZZZZZZ			14:36																
ZZZZZZ			14:41																
ZZZZZZ			14:47																
ZZZZZZ			14:52																
ZZZZZZ			15:00																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/21/2013 11:00 End Date: 05/22/2013 05:45

Lab Sample ID	D / F	Type	Time	Analytes															
				Fe	Na														
ZZZZZZ			15:06																
ZZZZZZ			15:12																
ZZZZZZ			15:17																
CCV 680-277577/46			15:23																
CCB 680-277577/47			15:28																
ZZZZZZ			15:34																
ZZZZZZ			15:39																
ZZZZZZ			15:44																
ZZZZZZ			15:50																
ZZZZZZ			15:55																
ZZZZZZ			16:01																
CCV 680-277577/54			16:06																
CCB 680-277577/55			16:12																
ZZZZZZ			16:17																
ZZZZZZ			16:22																
ZZZZZZ			16:28																
ZZZZZZ			16:33																
ZZZZZZ			16:39																
ZZZZZZ			16:44																
ZZZZZZ			16:50																
ZZZZZZ			16:55																
ZZZZZZ			17:00																
ZZZZZZ			17:06																
CCV 680-277577/66	1		17:11	X	X														
CCB 680-277577/67	1		17:17	X	X														
ZZZZZZ			17:22																
ZZZZZZ			17:28																
ZZZZZZ			17:33																
ZZZZZZ			17:38																
ZZZZZZ			17:44																
ZZZZZZ			17:49																
ZZZZZZ			17:55																
ZZZZZZ			18:00																
MB 680-277276/1-A	1	T	18:05	X	X														
LCS 680-277276/2-A	1	T	18:11	X	X														
CCV 680-277577/78	1		18:16	X	X														
CCB 680-277577/79	1		18:22	X	X														
ZZZZZZ			18:27																
ZZZZZZ			18:33																
ZZZZZZ			18:38																
ZZZZZZ			18:44																
ZZZZZZ			18:49																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/21/2013 11:00 End Date: 05/22/2013 05:45

Lab Sample ID	D / F	T y p e	Time	Analytes															
				F e	N a														
ZZZZZZ			18:54																
ZZZZZZ			19:00																
ZZZZZZ			19:05																
ZZZZZZ			19:11																
ZZZZZZ			19:16																
CCV 680-277577/90	1		19:22	X	X														
CCB 680-277577/91	1		19:27	X	X														
680-90122-3	1	T	19:33	X	X														
680-90122-3 SD	5	T	19:38	X	X														
680-90122-3 PDS	1	T	19:43	X	X														
680-90122-3 MS	1	T	19:49	X	X														
680-90122-3 MSD	1	T	19:54	X	X														
ZZZZZZ			20:00																
ZZZZZZ			20:05																
ZZZZZZ			20:11																
ZZZZZZ			20:16																
ZZZZZZ			20:22																
CCV 680-277577/102	1		20:27	X	X														
CCB 680-277577/103	1		20:32	X	X														
ZZZZZZ			20:38																
ZZZZZZ			20:43																
ZZZZZZ			20:49																
ZZZZZZ			20:54																
ZZZZZZ			21:00																
ZZZZZZ			21:05																
ZZZZZZ			21:11																
ZZZZZZ			21:16																
ZZZZZZ			21:21																
ZZZZZZ			21:27																
CCV 680-277577/114			21:32																
CCB 680-277577/115			21:38																
ZZZZZZ			21:43																
ZZZZZZ			21:49																
ZZZZZZ			21:54																
ZZZZZZ			22:00																
ZZZZZZ			22:05																
ZZZZZZ			22:10																
ZZZZZZ			22:16																
ZZZZZZ			22:21																
ZZZZZZ			22:27																
ZZZZZZ			22:32																
CCV 680-277577/126			22:38																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/21/2013 11:00 End Date: 05/22/2013 05:45

Lab Sample ID	D / F	Type	Time	Analytes																
				F	N															
CCB 680-277577/127			22:43																	
ZZZZZZ			22:48																	
ZZZZZZ			22:54																	
ZZZZZZ			23:00																	
ZZZZZZ			23:05																	
ZZZZZZ			23:10																	
ZZZZZZ			23:16																	
ZZZZZZ			23:21																	
ZZZZZZ			23:27																	
ZZZZZZ			23:32																	
ZZZZZZ			23:38																	
CCV 680-277577/138			23:43																	
CCB 680-277577/139			23:49																	
ZZZZZZ			23:54																	
ZZZZZZ			00:00																	
ZZZZZZ			00:05																	
ZZZZZZ			00:10																	
ZZZZZZ			00:16																	
ZZZZZZ			00:21																	
ZZZZZZ			00:27																	
ZZZZZZ			00:32																	
ZZZZZZ			00:38																	
ZZZZZZ			00:43																	
CCV 680-277577/150			00:49																	
CCB 680-277577/151			00:54																	
ZZZZZZ			01:00																	
ZZZZZZ			01:05																	
ZZZZZZ			01:11																	
ZZZZZZ			01:16																	
ZZZZZZ			01:21																	
ZZZZZZ			01:27																	
ZZZZZZ			01:32																	
ZZZZZZ			01:38																	
ZZZZZZ			01:43																	
ZZZZZZ			01:49																	
CCV 680-277577/162			01:54																	
CCB 680-277577/163			02:00																	
ZZZZZZ			02:05																	
ZZZZZZ			02:11																	
ZZZZZZ			02:16																	
ZZZZZZ			02:22																	
ZZZZZZ			02:27																	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 05/21/2013 11:00 End Date: 05/22/2013 05:45

Lab Sample ID	D / F	T y p e	Time	Analytes															
				F e	N a														
ZZZZZZ			02:33																
ZZZZZZ			02:38																
ZZZZZZ			02:43																
ZZZZZZ			02:49																
ZZZZZZ			02:54																
CCV 680-277577/174			03:00																
CCB 680-277577/175			03:05																
ZZZZZZ			03:11																
ZZZZZZ			03:16																
ZZZZZZ			03:22																
ZZZZZZ			03:27																
ZZZZZZ			03:33																
ZZZZZZ			03:38																
ZZZZZZ			03:44																
ZZZZZZ			03:49																
ZZZZZZ			03:55																
ZZZZZZ			04:00																
CCV 680-277577/186			04:06																
CCB 680-277577/187			04:11																
ZZZZZZ			04:17																
ZZZZZZ			04:22																
ZZZZZZ			04:27																
ZZZZZZ			04:33																
ZZZZZZ			04:38																
ZZZZZZ			04:44																
ZZZZZZ			04:50																
ZZZZZZ			04:55																
ZZZZZZ			05:00																
ZZZZZZ			05:06																
CCV 680-277577/198			05:11																
CCB 680-277577/199			05:17																
ZZZZZZ			05:22																
ZZZZZZ			05:28																
ZZZZZZ			05:33																
CCV 680-277577/203			05:39																
CCB 680-277577/204			05:45																

Prep Types
T = Total/NA

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

Blank (Blk)	5/16/2013, 3:34:49 PM		Rack S, Tube 1
Label	Replicates Concentration		
Ag 328.068	0.1050	0.1127	-0.2178
Al 308.215	-1.3881	1.7823	-0.3942
As 188.980	-3.3086	2.4397	0.8689
B 249.678	0.3420	0.0173	-0.3594
Ba 389.178	-0.2196	0.1413	0.0783
Be 313.042	-0.0047	-0.0004	0.0050
Ca 370.602	3.335	-1.820	-1.515
Cd 226.502	-0.0372	0.0151	0.0221
Co 228.615	-0.3116	0.2019	0.1097
Cr 267.716	0.0619	-0.0592	-0.0027
Cu 324.754	-0.1493	0.0839	0.0655
Fe 271.441	-0.0066	-3.5807	3.5873
K 766.491	-0.2096	0.0453	0.1644
Mg 279.078	2.3236	-2.1872	-0.1364
Mn 257.610	-0.0726	-0.1148	0.1874
Mo 202.032	0.3170	0.1491	-0.4661
Na 330.237	-55.7630	71.3534	-15.5906
Ni 231.604	-0.3492	0.2474	0.1018
Pb 220.353	0.9380	-1.1636	0.2256
Sb 206.834	-1.8671	-1.3476	3.2147
Se 196.026	0.6929	-1.2234	0.5304
Sn 189.925	-1.4973	1.7895	-0.2922
Sr 216.596	0.1552	-0.1467	-0.0085
Ti 334.941	0.0616	-0.0330	-0.0286
Tl 190.794	-0.1268	1.1831	-1.0563
V 292.401	-0.1594	-0.0397	0.1991
Zn 206.200	0.2081	0.2860	-0.4941

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	16.759	55.2	-30.3678
Al 308.215	0.0000	ppb	3.806	22.0	-17.2815
As 188.980	0.0000	ppb	2.113	18.6	-11.3890
B 249.678	0.0000	ppb	5.524	3.8	145.820
Ba 389.178	0.0000	ppb	5.073	17.7	-28.6351
Be 313.042	0.0000	ppb	10.621	2.4	-447.888
Ca 370.602	0.0000	ppb	10.153	81.4	12.47
Cd 226.502	0.0000	ppb	1.575	4.1	38.0738
Co 228.615	0.0000	ppb	4.267	99.1	4.3033
Cr 267.716	0.0000	ppb	3.587	72.0	4.9824
Cu 324.754	0.0000	ppb	6.748	2.3	296.201
Fe 271.441	0.0000	ppb	7.416	23.6	31.4808
K 766.491	0.0000	ppb	8.008	2.9	279.294
Mg 279.078	0.0000	ppb	5.945	16.6	35.8610
Mn 257.610	0.0000	ppb	11.680	8.5	137.049
Mo 202.032	0.0000	ppb	3.560	20.6	17.2957
Na 330.237	0.0000	ppb	3.630	4.9	74.0904
Ni 231.604	0.0000	ppb	1.113	4181.4	0.0266
Pb 220.353	0.0000	ppb	2.433	8.1	30.1451
Sb 206.834	0.0000	ppb	3.386	105.8	-3.2018
Se 196.026	0.0000	ppb	0.682	6.1	11.1242
Sn 189.925	0.0000	ppb	1.889	11.4	-16.5709
Sr 216.596	0.0000	ppb	2.203	11.8	18.5954
Ti 334.941	0.0000	ppb	17.917	39.7	-45.1331
Tl 190.794	0.0000	ppb	1.237	6.2	-19.8993
V 292.401	0.0000	ppb	5.867	58.1	-10.0977
Zn 206.200	0.0000	ppb	0.837	12.2	6.8545

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HIGH STD (Std) **5/16/2013, 3:40:14 PM** **Rack S, Tube 2**

Label	Replicates Concentration		
Ag 328.068	1000.87	1004.50	994.624
Al 308.215	10033.7	10034.6	9931.62
As 188.980	999.937	991.188	1008.88
B 249.678	995.544	999.381	1005.07
Ba 389.178	9990.21	10013.4	9996.39
Be 313.042	1000.70	1000.42	998.886
Ca 370.602	10010	10016	9974
Cd 226.502	1000.38	999.457	1000.16
Co 228.615	999.595	1000.70	999.707
Cr 267.716	9990.67	9998.79	10010.5
Cu 324.754	10029.0	9913.25	10057.8
Fe 271.441	10005.4	10000.2	9994.33
K 766.491	19985.0	20050.3	19964.7
Mg 279.078	10002.5	9992.90	10004.6
Mn 257.610	9938.18	9969.74	10092.1
Mo 202.032	999.771	1002.36	997.867
Na 330.237	14974.6	15023.0	15002.4
Ni 231.604	5005.24	4996.38	4998.38
Pb 220.353	1003.12	998.735	998.146
Sb 206.834	2000.93	1999.76	1999.31
Se 196.026	10028.7	9982.89	9988.41
Sn 189.925	9973.70	10001.4	10024.9
Sr 216.596	4997.94	5001.33	5000.73
Ti 334.941	999.438	1000.37	1000.19
Tl 190.794	9998.44	9982.09	10019.5
V 292.401	9992.39	10007.1	10000.5
Zn 206.200	5002.18	5004.36	4993.46

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	444.056	0.5	88818.0
Al 308.215	10000.0	ppb	138.999	0.6	23452.5
As 188.980	1000.00	ppb	6.290	0.9	699.864
B 249.678	1000.00	ppb	75.461	0.5	15881.6
Ba 389.178	10000.0	ppb	316.187	0.1	263116
Be 313.042	1000.00	ppb	2125.197	0.1	2179781
Ca 370.602	10000	ppb	78.361	0.2	35118
Cd 226.502	1000.00	ppb	23.455	0.0	48649.0
Co 228.615	1000.00	ppb	9.463	0.1	15587.4
Cr 267.716	10000.0	ppb	590.962	0.1	591928
Cu 324.754	10000.0	ppb	3980.841	0.8	520702
Fe 271.441	10000.0	ppb	11.502	0.1	20724.6
K 766.491	20000.0	ppb	1875.373	0.2	838573
Mg 279.078	10000.0	ppb	16.435	0.1	26358.8
Mn 257.610	10000.0	ppb	5800.560	0.8	713704
Mo 202.032	1000.00	ppb	19.485	0.2	8652.19
Na 330.237	15000.0	ppb	1.357	0.1	912.032
Ni 231.604	5000.00	ppb	16.624	0.1	17895.2
Pb 220.353	1000.00	ppb	6.186	0.3	2306.37
Sb 206.834	2000.00	ppb	1.018	0.0	2418.81
Se 196.026	10000.0	ppb	16.055	0.2	6431.24
Sn 189.925	10000.0	ppb	29.106	0.3	11346.7
Sr 216.596	5000.00	ppb	26.330	0.0	72897.9
Ti 334.941	1000.00	ppb	166.177	0.0	335676
Tl 190.794	10000.0	ppb	20.595	0.2	10973.0
V 292.401	10000.0	ppb	236.515	0.1	321463
Zn 206.200	5000.00	ppb	11.235	0.1	9748.09

Ag 328.068 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-30.3678	0.0000	0.0000	-	-
HIGH STD		88818.0	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 88.8 x + -30.4$

Al 308.215 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-17.2815	0.0000	0.0000	-	-
HIGH STD		23452.5	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 2.3 x + -17.3$

As 188.980 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-11.3890	0.0000	0.0000	-	-
HIGH STD		699.864	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 0.7 x + -11.4$

B 249.678 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		145.820	0.0000	0.0000	-	-
HIGH STD		15881.6	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 15.7 x + 145.8$

Ba 389.178 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-28.6351	0.0000	0.0000	-	-
HIGH STD		263116	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 26.3 x + -28.6$

Be 313.042 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-447.888	0.0000	0.0000	-	-
HIGH STD		2179781	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 2180.2 x + -447.9$

Ca 370.602 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		12.47	0.0000	0.0000	-	-
HIGH STD		35118	10000	10000	0.0010	0.0

Curve Type: Linear Equation: $y = 3.5 x + 12.5$

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Cd 226.502 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		38.0738	0.0000	0.0000	-	-
HIGH STD		48649.0	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 48.6 x + 38.1$ **Co 228.615 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.3033	0.0000	0.0000	-	-
HIGH STD		15587.4	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 15.6 x + 4.3$ **Cr 267.716 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.9824	0.0000	0.0000	-	-
HIGH STD		591928	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 59.2 x + 5.0$ **Cu 324.754 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		296.201	0.0000	0.0000	-	-
HIGH STD		520702	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 52.0 x + 296.2$ **Fe 271.441 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		31.4808	0.0000	0.0000	-	-
HIGH STD		20724.6	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 2.1 x + 31.5$ **K 766.491 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		279.294	0.0000	0.0000	-	-
HIGH STD		838573	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 41.9 x + 279.3$ **Mg 279.078 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		35.8610	0.0000	0.0000	-	-
HIGH STD		26358.8	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 2.6 x + 35.9$

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Mn 257.610 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		137.049	0.0000	0.0000	-	-
HIGH STD		713704	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 71.4 x + 137.0$ **Mo 202.032 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		17.2957	0.0000	0.0000	-	-
HIGH STD		8652.19	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 8.6 x + 17.3$ **Na 330.237 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		74.0904	0.0000	0.0000	-	-
HIGH STD		912.032	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.1 x + 74.1$ **Ni 231.604 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.0266	0.0000	0.0000	-	-
HIGH STD		17895.2	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 3.6 x + 0.0$ **Pb 220.353 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		30.1451	0.0000	0.0000	-	-
HIGH STD		2306.37	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 2.3 x + 30.1$ **Sb 206.834 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.2018	0.0000	0.0000	-	-
HIGH STD		2418.81	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.2 x + -3.2$ **Se 196.026 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		11.1242	0.0000	0.0000	-	-
HIGH STD		6431.24	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.6 x + 11.1$

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

Sn 189.925 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-16.5709	0.0000	0.0000	-	-
HIGH STD		11346.7	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 1.1 x + -16.6$ **Sr 216.596 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		18.5954	0.0000	0.0000	-	-
HIGH STD		72897.9	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation: $y = 14.6 x + 18.6$ **Ti 334.941 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-45.1331	0.0000	0.0000	-	-
HIGH STD		335676	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 335.7 x + -45.1$ **Tl 190.794 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-19.8993	0.0000	0.0000	-	-
HIGH STD		10973.0	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 1.1 x + -19.9$ **V 292.401 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-10.0977	0.0000	0.0000	-	-
HIGH STD		321463	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 32.1 x + -10.1$ **Zn 206.200 Calibration (ppb) 5/16/2013, 3:40:14 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		6.8545	0.0000	0.0000	-	-
HIGH STD		9748.09	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation: $y = 1.9 x + 6.9$ **LRA1 (Samp) 5/16/2013, 4:27:08 PM Rack S, Tube 7****Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9759	-1.6164	-0.4793
Al 308.215	-570.944u	-546.038u	-560.210u
As 188.980	23000.0x	22563.3x	22750.7x
B 249.678	5110.04x	5202.90x	5210.65x
Ba 389.178	-1.7024u	-1.5411u	-1.4164u

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Label	Replicates Concentration		
Be 313.042	0.1097	0.1394	0.1263
Ca 370.602	983.2	1023	1030
Cd 226.502	-0.5065u	-0.7160u	-0.4132u
Co 228.615	10476.2	10479.4	10481.8
Cr 267.716	-1.8689	-1.7137	-1.7701
Cu 324.754	1.0631	0.5680	0.3092
Fe 271.441	-16.1868	-8.9472	-3.2261
K 766.491	0.2065	-0.3373u	-0.1477u
Mg 279.078	42.0908u	63.8853u	58.7650u
Mn 257.610	28557.8x	28779.2x	29021.9x
Mo 202.032	0.3631	0.3540	0.0670
Na 330.237	104482x	104572x	104253x
Ni 231.604	10435.7x	10461.0x	10435.9x
Pb 220.353	21457.3x	21498.4x	21540.1x
Sb 206.834	8.3603	10.7303	9.4388
Se 196.026	0.9291	3.2123	4.1465
Sn 189.925	1.6646	2.2434	2.7173
Sr 216.596	-6.2708u	-7.7324u	-7.5740u
Ti 334.941	27381.2	27482.4	27445.5
Tl 190.794	118.413	115.896	122.378
V 292.401	-4.5395	-4.2462	-4.7459
Zn 206.200	28.9022	30.4333	29.2917

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0238b	ppb	0.5701	55.7	34.3701
Al 308.215	-559.064b	ppb	12.4926	2.2	-1329.46
As 188.980	22771.3xb	ppb	219.044	1.0	16184.8
B 249.678	5174.53xb	ppb	55.9839	1.1	81569.7
Ba 389.178	-1.5533b	ppb	0.1434	9.2	-68.6309
Be 313.042	0.1252b	ppb	0.0149	11.9	-209.371
Ca 370.602	1012b	ppb	25.20	2.5	9958
Cd 226.502	-0.5452b	ppb	0.1551	28.4	14.7435
Co 228.615	10479.1b	ppb	2.7789	0.0	164263
Cr 267.716	-1.7843b	ppb	0.0785	4.4	117.646
Cu 324.754	0.6468b	ppb	0.3831	59.2	329.831
Fe 271.441	-9.4534b	ppb	6.4951	68.7	1981.74
K 766.491	-0.0929b	ppb	0.2760	297.3	275.402
Mg 279.078	54.9137b	ppb	11.3962	20.8	-387.152
Mn 257.610	28786.3xb	ppb	232.152	0.8	2054232
Mo 202.032	0.2614b	ppb	0.1684	64.4	19.4758
Na 330.237	104436xb	ppb	164.549	0.2	5676.71
Ni 231.604	10444.2xb	ppb	14.5356	0.1	37380.1
Pb 220.353	21498.6xb	ppb	41.3793	0.2	48949.2
Sb 206.834	9.5098b	ppb	1.1866	12.5	8.3501
Se 196.026	2.7626b	ppb	1.6552	59.9	22.0138
Sn 189.925	2.2084b	ppb	0.5272	23.9	-14.0147
Sr 216.596	-7.1924b	ppb	0.8020	11.2	-325.571
Ti 334.941	27436.4b	ppb	51.2151	0.2	9210903
Tl 190.794	118.896b	ppb	3.2681	2.7	71.1520
V 292.401	-4.5105b	ppb	0.2511	5.6	350.451
Zn 206.200	29.5424b	ppb	0.7957	2.7	64.5147

LRA2 (Samp)

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Rack S, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.4683u	-0.6974u	-1.5266u
Al 308.215	890722x	874948x	848636

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Label	Replicates Concentration		
As 188.980	37.3209	40.4428	36.8708
B 249.678	44.7879u	37.6489u	31.0498u
Ba 389.178	-15.1509	-14.7468	-16.8415
Be 313.042	-0.0813	-0.0925	-0.0836
Ca 370.602	774824	768060	772733
Cd 226.502	9.4428	8.8452	8.8468
Co 228.615	9.1930	9.2134	9.6974
Cr 267.716	8.5215	8.5599	8.3469
Cu 324.754	4.5708	4.5082	3.7408
Fe 271.441	924137	925156	922234
K 766.491	410861x	412026x	411098x
Mg 279.078	822924	821314	819450
Mn 257.610	21.0904	20.2700	20.7802
Mo 202.032	3.5948u	3.6628u	4.0460u
Na 330.237	-7052.92u	-6968.12u	-7068.92u
Ni 231.604	10.4212	7.9818	7.5434
Pb 220.353	37.6337	32.7943	31.3321
Sb 206.834	1.7522	5.1963	4.6685
Se 196.026	-18.4591u	-23.2096u	-8.8974
Sn 189.925	6.4827	2.7030	-0.2383
Sr 216.596	50.3530	50.5342	50.4976
Ti 334.941	6.0609	5.9545	5.8205
Tl 190.794	-47.0771u	-52.5297u	-45.7110u
V 292.401	4.9808	4.8491	5.6869
Zn 206.200	27046.2	26955.1	26833.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2307b	ppb	0.4628	37.6	-157.904
Al 308.215	871435xb	ppb	21261.6	2.4	2045225
As 188.980	38.2115b	ppb	1.9454	5.1	26.5792
B 249.678	37.8289b	ppb	6.8708	18.2	-701.052
Ba 389.178	-15.5797b	ppb	1.1112	7.1	3486.87
Be 313.042	-0.0858b	ppb	0.0059	6.9	-315.710
Ca 370.602	771872b	ppb	3463	0.4	2627149
Cd 226.502	9.0450b	ppb	0.3446	3.8	4287.72
Co 228.615	9.3679b	ppb	0.2855	3.0	109.052
Cr 267.716	8.4761b	ppb	0.1135	1.3	783.757
Cu 324.754	4.2733b	ppb	0.4622	10.8	802.003
Fe 271.441	923842b	ppb	1483.02	0.2	1911747
K 766.491	411328xb	ppb	615.749	0.1	17240982
Mg 279.078	821229b	ppb	1738.66	0.2	2161654
Mn 257.610	20.7135b	ppb	0.4142	2.0	4466.57
Mo 202.032	3.7679b	ppb	0.2433	6.5	-5.0757
Na 330.237	-7029.99b	ppb	54.1695	0.8	-837.073
Ni 231.604	8.6488b	ppb	1.5505	17.9	57.4352
Pb 220.353	33.9200b	ppb	3.2982	9.7	127.877
Sb 206.834	3.8723b	ppb	1.8550	47.9	26.9680
Se 196.026	-16.8554b	ppb	7.2896	43.2	7.3145
Sn 189.925	2.9824b	ppb	3.3692	113.0	-12.7798
Sr 216.596	50.4616b	ppb	0.0958	0.2	1368.09
Ti 334.941	5.9453b	ppb	0.1205	2.0	6580.60
Tl 190.794	-48.4393b	ppb	3.6077	7.4	-125.128
V 292.401	5.1722b	ppb	0.4505	8.7	160.951
Zn 206.200	26944.9b	ppb	106.736	0.4	52626.0

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RINSE (Samp) 5/16/2013, 4:38:12 PM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0991	0.2559	0.0017
Al 308.215	2.7955	5.8012	7.9688
As 188.980	17.3095	15.9683	15.7087
B 249.678	24.1298	23.2646	22.2053
Ba 389.178	-0.5148u	0.1498	-0.4078u
Be 313.042	0.0424	0.0484	0.0426
Ca 370.602	-0.9780u	-1.428u	3.309
Cd 226.502	-0.1622u	-0.0698u	0.0776
Co 228.615	0.1046	0.0529	0.0971
Cr 267.716	0.1654	0.3275	0.1835
Cu 324.754	-0.3300u	-0.0702u	-0.1490u
Fe 271.441	7.1847	8.6049	14.4686
K 766.491	3.8787	4.3704	6.4134
Mg 279.078	-0.5775u	0.5636	8.4577
Mn 257.610	0.1008	0.1591	0.4118
Mo 202.032	-0.3241u	-0.2924u	0.2592
Na 330.237	-124.795u	-125.782u	-49.2934u
Ni 231.604	-0.0536u	-1.9596u	-1.4459u
Pb 220.353	-0.8821u	0.4976	0.5391
Sb 206.834	-4.5918u	0.6124	0.5881
Se 196.026	1.6172	-4.4172u	4.8681
Sn 189.925	-1.1276u	-1.0863u	1.3731
Sr 216.596	0.4089	0.3051	-0.0985u
Ti 334.941	0.6061	0.5408	0.5746
Tl 190.794	1.2857	0.5032	0.9099
V 292.401	-0.1826u	0.3514	0.0782
Zn 206.200	-0.7377u	0.1287	0.0754

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1189	ppb	0.1283	107.9	-19.8259
Al 308.215	5.5218	ppb	2.5979	47.0	-4.3316
As 188.980	16.3289	ppb	0.8591	5.3	0.2251
B 249.678	23.1999	ppb	0.9639	4.2	510.872
Ba 389.178	-0.2576	ppb	0.3568	138.5	-35.3890
Be 313.042	0.0445	ppb	0.0034	7.7	-350.932
Ca 370.602	0.3009	ppb	2.615	868.9	12.75
Cd 226.502	-0.0515	ppb	0.1209	235.0	35.6143
Co 228.615	0.0849	ppb	0.0279	32.9	5.6542
Cr 267.716	0.2254	ppb	0.0888	39.4	18.3299
Cu 324.754	-0.1831	ppb	0.1332	72.7	286.671
Fe 271.441	10.0861	ppb	3.8612	38.3	52.3707
K 766.491	4.8875	ppb	1.3441	27.5	484.153
Mg 279.078	2.8146	ppb	4.9203	174.8	43.2680
Mn 257.610	0.2239	ppb	0.1653	73.8	153.042
Mo 202.032	-0.1191	ppb	0.3280	275.4	16.2663
Na 330.237	-99.9570	ppb	43.8787	43.9	68.5004
Ni 231.604	-1.1530	ppb	0.9862	85.5	-4.0998
Pb 220.353	0.0515	ppb	0.8088	1569.3	30.2623
Sb 206.834	-1.1304	ppb	2.9976	265.2	-4.5643
Se 196.026	0.6893	ppb	4.7117	683.5	11.5669
Sn 189.925	-0.2803	ppb	1.4320	510.9	-16.8894
Sr 216.596	0.2052	ppb	0.2681	130.6	21.6128
Ti 334.941	0.5738	ppb	0.0326	5.7	147.535
Tl 190.794	0.8996	ppb	0.3914	43.5	-18.9110
V 292.401	0.0823	ppb	0.2670	324.3	-7.4182
Zn 206.200	-0.1779	ppb	0.4856	273.0	6.5084

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mb 680-276620/1-a (Samp) **5/16/2013, 4:54:23 PM** **Rack 1, Tube 15**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2804	0.0522	0.1448
Al 308.215	1.9440	-1.1651u	1.8645
As 188.980	4.0320	2.7635	4.0243
B 249.678	6.1387	6.2305	5.1264
Ba 389.178	-0.5235u	-0.2418u	-0.5805u
Be 313.042	0.0067	0.0033	0.0067
Ca 370.602	-1.161u	-2.679u	-0.4990u
Cd 226.502	-0.0007u	-0.0443u	-0.1358u
Co 228.615	-0.0284u	0.3860	-0.1308u
Cr 267.716	0.1014	0.1422	0.1321
Cu 324.754	0.0195	0.3161	0.0286
Fe 271.441	6.1390	-2.8720u	4.3071
K 766.491	2.5754	2.3645	2.6324
Mg 279.078	0.6966	-0.7510u	1.7698
Mn 257.610	-0.1262u	0.1478	0.0645
Mo 202.032	-0.2692u	0.3036	-0.0665u
Na 330.237	-97.3734u	-72.5434u	1.9530
Ni 231.604	-0.3643u	-1.6843u	-1.8792u
Pb 220.353	-0.8188u	3.5827	-0.2602u
Sb 206.834	3.3524	3.0230	7.5350
Se 196.026	0.3860	2.8889	1.5803
Sn 189.925	1.3267	-0.8754u	0.0260
Sr 216.596	0.1063	0.4424	0.6815
Ti 334.941	0.0862	0.1291	0.0277
Tl 190.794	-2.1655u	-2.0860u	2.9598
V 292.401	-0.1733u	-0.1850u	0.3365
Zn 206.200	0.3409	-0.9225u	-0.7056u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1591	ppb	0.1148	72.1	-16.2547
Al 308.215	0.8811	ppb	1.7725	201.2	-15.2194
As 188.980	3.6066	ppb	0.7302	20.2	-8.8237
B 249.678	5.8318	ppb	0.6127	10.5	237.586
Ba 389.178	-0.4486	ppb	0.1813	40.4	-40.4357
Be 313.042	0.0055	ppb	0.0019	35.1	-435.783
Ca 370.602	-1.446	ppb	1.118	77.3	7.268
Cd 226.502	-0.0603	ppb	0.0689	114.4	35.1509
Co 228.615	0.0756	ppb	0.2737	362.0	5.4892
Cr 267.716	0.1252	ppb	0.0212	17.0	12.3978
Cu 324.754	0.1214	ppb	0.1687	138.9	302.516
Fe 271.441	2.5247	ppb	4.7626	188.6	36.7200
K 766.491	2.5241	ppb	0.1411	5.6	385.090
Mg 279.078	0.5718	ppb	1.2650	221.2	37.3645
Mn 257.610	0.0287	ppb	0.1405	489.9	139.099
Mo 202.032	-0.0107	ppb	0.2905	2714.8	17.2032
Na 330.237	-55.9880	ppb	51.6913	92.3	70.9655
Ni 231.604	-1.3093	ppb	0.8241	62.9	-4.6592
Pb 220.353	0.8346	ppb	2.3963	287.1	32.0449
Sb 206.834	4.6368	ppb	2.5153	54.2	2.4171
Se 196.026	1.6184	ppb	1.2519	77.4	12.1632
Sn 189.925	0.1591	ppb	1.1070	695.7	-16.3900
Sr 216.596	0.4101	ppb	0.2890	70.5	24.5958
Ti 334.941	0.0810	ppb	0.0509	62.9	-17.9421
Tl 190.794	-0.4306	ppb	2.9364	682.0	-20.3727
V 292.401	-0.0073	ppb	0.2978	4079.3	-10.3160
Zn 206.200	-0.4290	ppb	0.6756	327.5	79.60183

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ics 680-276620/2-a (Samp) 5/16/2013, 4:59:47 PM Rack 1, Tube 16
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	50.3043	49.7283	49.0704
Al 308.215	4942.59	4990.82	4975.83
As 188.980	120.558	114.817	115.975
B 249.678	197.973	199.351	199.177
Ba 389.178	100.065	99.3303	99.7201
Be 313.042	50.8040	50.9292	50.7019
Ca 370.602	4898	4909	4889
Cd 226.502	50.8471	51.0900	50.8401
Co 228.615	50.9204	51.6357	51.0464
Cr 267.716	102.584	102.563	101.842
Cu 324.754	104.386	101.849	101.309
Fe 271.441	4932.86	4951.47	4925.92
K 766.491	5023.70	5013.16	5005.81
Mg 279.078	4983.49	4991.04	4969.05
Mn 257.610	518.424	513.509	511.868
Mo 202.032	104.056	104.850	104.900
Na 330.237	4903.02	4600.15	4888.06
Ni 231.604	97.9612	99.0670	100.314
Pb 220.353	49.7621	52.7209	51.0994
Sb 206.834	56.3079	51.5120	51.8981
Se 196.026	96.2208	103.452	98.1455
Sn 189.925	201.460	199.320	197.299
Sr 216.596	101.227	101.266	100.361
Ti 334.941	98.1260	98.3203	97.9145
Tl 190.794	42.9824	41.0045	41.5144
V 292.401	100.279	100.945	100.563
Zn 206.200	99.6201	101.430	100.657

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.7010	ppb	0.6174	1.2	4383.58
Al 308.215	4969.75	ppb	24.6832	0.5	11651.5
As 188.980	117.117	ppb	3.0363	2.6	71.9447
B 249.678	198.834	ppb	0.7508	0.4	3266.92
Ba 389.178	99.7051	ppb	0.3675	0.4	2618.63
Be 313.042	50.8117	ppb	0.1138	0.2	110311
Ca 370.602	4899	ppb	9.943	0.2	16806
Cd 226.502	50.9257	ppb	0.1424	0.3	2533.95
Co 228.615	51.2008	ppb	0.3819	0.7	800.934
Cr 267.716	102.330	ppb	0.4222	0.4	6064.92
Cu 324.754	102.515	ppb	1.6431	1.6	5634.57
Fe 271.441	4936.75	ppb	13.2097	0.3	10258.0
K 766.491	5014.22	ppb	8.9940	0.2	210449
Mg 279.078	4981.19	ppb	11.1729	0.2	13136.8
Mn 257.610	514.600	ppb	3.4114	0.7	36873.9
Mo 202.032	104.602	ppb	0.4737	0.5	920.004
Na 330.237	4797.07	ppb	170.706	3.6	338.826
Ni 231.604	99.1140	ppb	1.1769	1.2	354.900
Pb 220.353	51.1941	ppb	1.4817	2.9	146.662
Sb 206.834	53.2393	ppb	2.6645	5.0	61.4377
Se 196.026	99.2729	ppb	3.7452	3.8	75.0630
Sn 189.925	199.360	ppb	2.0805	1.0	209.972
Sr 216.596	100.951	ppb	0.5115	0.5	1486.04
Ti 334.941	98.1203	ppb	0.2030	0.2	32923.4
Tl 190.794	41.8338	ppb	1.0269	2.5	25.0073
V 292.401	100.596	ppb	0.3342	0.3	3194.31
Zn 206.200	100.569	ppb	0.9983	0.9	202.059

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680-90205-g-1-a (Samp) 5/16/2013, 5:05:11 PM Rack 1, Tube 17
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2616u	-0.4090u	0.2753
Al 308.215	15.1742	26.3681	26.0761
As 188.980	8.5652	-0.5885	6.9302
B 249.678	446.940	447.688	449.399
Ba 389.178	124.061	123.290	123.226
Be 313.042	0.0422	0.0424	0.0462
Ca 370.602	102987	102869	102353
Cd 226.502	-0.0893	-0.2520u	-0.1192
Co 228.615	1.8903	1.8259	1.5395
Cr 267.716	-0.0451	0.0326	0.1222
Cu 324.754	21.1990	21.1145	21.3540
Fe 271.441	2811.27	2821.72	2805.11
K 766.491	6340.68	6345.38	6344.48
Mg 279.078	23745.9	23685.7	23591.4
Mn 257.610	874.293	875.567	882.378
Mo 202.032	0.5391	0.4114	0.1684
Na 330.237	74070.2	73719.2	73742.0
Ni 231.604	4.5013	5.3938	5.3534
Pb 220.353	3.6642	2.1120	-0.4275u
Sb 206.834	3.0701	2.0576	-1.0532u
Se 196.026	4.8674	0.8499	2.8672
Sn 189.925	-0.0966u	1.9666	0.2660
Sr 216.596	492.563	491.810	490.611
Ti 334.941	0.5952	0.5903	0.5263
Tl 190.794	2.8586	1.3883u	2.3591
V 292.401	0.1305	0.3241	0.0976
Zn 206.200	47.5156	47.3936	47.2972

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1318	ppb	0.3602	273.3	-64.2476
Al 308.215	22.5395	ppb	6.3802	28.3	35.6405
As 188.980	4.9690	ppb	4.8818	98.2	-6.8416
B 249.678	448.009	ppb	1.2603	0.3	7191.22
Ba 389.178	123.526	ppb	0.4644	0.4	3296.87
Be 313.042	0.0436	ppb	0.0023	5.2	-322.933
Ca 370.602	102736	ppb	336.8	0.3	360446
Cd 226.502	-0.1535	ppb	0.0866	56.4	42.0271
Co 228.615	1.7519	ppb	0.1867	10.7	31.4916
Cr 267.716	0.0365	ppb	0.0837	229.1	14.2289
Cu 324.754	21.2225	ppb	0.1215	0.6	1401.50
Fe 271.441	2812.70	ppb	8.3980	0.3	5852.15
K 766.491	6343.51	ppb	2.4953	0.0	266166
Mg 279.078	23674.4	ppb	77.8701	0.3	62336.7
Mn 257.610	877.413	ppb	4.3472	0.5	62808.7
Mo 202.032	0.3730	ppb	0.1883	50.5	20.3488
Na 330.237	73843.8	ppb	196.406	0.3	4197.90
Ni 231.604	5.0828	ppb	0.5040	9.9	18.2974
Pb 220.353	1.7829	ppb	2.0656	115.9	34.4627
Sb 206.834	1.3581	ppb	2.1488	158.2	-1.4847
Se 196.026	2.8615	ppb	2.0088	70.2	13.2657
Sn 189.925	0.7120	ppb	1.1015	154.7	-15.6679
Sr 216.596	491.661	ppb	0.9848	0.2	7200.61
Ti 334.941	0.5706	ppb	0.0385	6.7	268.600
Tl 190.794	2.2020	ppb	0.7477	34.0	-19.0569
V 292.401	0.1841	ppb	0.1224	66.5	-4.6047
Zn 206.200	47.4021	ppb	0.1994	0.2	99.5816

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680-90201-a-15-a (Samp) 5/16/2013, 5:10:47 PM Rack 1, Tube 18
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0201u	0.1630	0.0935
Al 308.215	7.9638	12.3411	2.4408
As 188.980	0.6406	0.1480	-0.2092
B 249.678	11.3464	10.6312	11.5474
Ba 389.178	23.1158	22.5606	23.0556
Be 313.042	0.0182	0.0144	0.0162
Ca 370.602	17753	17709	17791
Cd 226.502	-0.2785u	-0.1656u	-0.0777u
Co 228.615	0.1516	0.3634	-0.1199u
Cr 267.716	0.9701	0.7217	0.7596
Cu 324.754	0.7114	0.9696	1.0406
Fe 271.441	3.1021	6.9302	5.4435
K 766.491	4450.88	4469.24	4467.81
Mg 279.078	6064.53	6034.52	6058.82
Mn 257.610	4.7401	4.5914	4.6628
Mo 202.032	2.5344	2.3472	3.0375
Na 330.237	10573.4	10622.4	10690.4
Ni 231.604	-0.0159u	-0.6055u	-1.4592u
Pb 220.353	0.6033	-0.3556u	-0.5814u
Sb 206.834	2.4351	-1.8269u	0.7440
Se 196.026	2.9395	-0.2440u	3.4647
Sn 189.925	0.7017	-0.2186u	-1.0663u
Sr 216.596	59.2988	58.2681	58.7900
Ti 334.941	0.0438	0.0188	0.0770
Tl 190.794	-2.9466u	2.2543	-0.9548u
V 292.401	5.7647	5.9895	5.7682
Zn 206.200	2.9190	3.7350	3.8191

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0922	ppb	0.0714	77.5	-25.3916
Al 308.215	7.5819	ppb	4.9612	65.4	0.6074
As 188.980	0.1931	ppb	0.4267	220.9	-11.0796
B 249.678	11.1750	ppb	0.4816	4.3	321.668
Ba 389.178	22.9107	ppb	0.3047	1.3	592.293
Be 313.042	0.0163	ppb	0.0019	11.8	-407.846
Ca 370.602	17751	ppb	41.00	0.2	62326
Cd 226.502	-0.1739	ppb	0.1007	57.9	29.6731
Co 228.615	0.1317	ppb	0.2423	184.0	6.2536
Cr 267.716	0.8171	ppb	0.1338	16.4	53.5402
Cu 324.754	0.9072	ppb	0.1732	19.1	343.425
Fe 271.441	5.1586	ppb	1.9299	37.4	42.2377
K 766.491	4462.64	ppb	10.2121	0.2	187330
Mg 279.078	6052.62	ppb	15.9401	0.3	15968.1
Mn 257.610	4.6648	ppb	0.0744	1.6	485.231
Mo 202.032	2.6397	ppb	0.3570	13.5	40.0760
Na 330.237	10628.7	ppb	58.7336	0.6	667.810
Ni 231.604	-0.6935	ppb	0.7257	104.6	-2.4553
Pb 220.353	-0.1112	ppb	0.6291	565.5	29.8887
Sb 206.834	0.4507	ppb	2.1461	476.1	-2.6872
Se 196.026	2.0534	ppb	2.0069	97.7	12.4441
Sn 189.925	-0.1944	ppb	0.8843	454.9	-16.7765
Sr 216.596	58.7856	ppb	0.5154	0.9	877.776
Ti 334.941	0.0466	ppb	0.0292	62.7	2.3465
Tl 190.794	-0.5490	ppb	2.6241	478.0	-20.5090
V 292.401	5.8408	ppb	0.1288	2.2	177.021
Zn 206.200	3.4910	ppb	0.4972	14.2	13.6537

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680-90201-a-17-a (Samp) 5/16/2013, 5:16:13 PM Rack 1, Tube 19
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1665u	-0.2675u	0.1243
Al 308.215	22.1178	25.0841	18.9585
As 188.980	4.9424	5.5799	-2.2425u
B 249.678	12.7305	12.2714	12.4062
Ba 389.178	23.2378	24.1347	24.4929
Be 313.042	0.0182	0.0178	0.0198
Ca 370.602	12160	12187	12171
Cd 226.502	-0.1745u	-0.0586u	-0.0273u
Co 228.615	4.7961	4.7507	4.4796
Cr 267.716	0.2251	0.3533	0.1698
Cu 324.754	0.8196	1.0711	1.1650
Fe 271.441	102.528	98.9743	100.966
K 766.491	4764.41	4768.73	4760.77
Mg 279.078	4238.78	4244.95	4237.28
Mn 257.610	377.910	377.815	376.339
Mo 202.032	11.5976	12.3849	12.2771
Na 330.237	22405.0	22347.2	22465.2
Ni 231.604	0.0900	-1.2866u	-0.7079u
Pb 220.353	0.8990	0.7759	0.1980
Sb 206.834	1.9563	2.8572	-0.8101u
Se 196.026	3.5508	1.3105	0.6369
Sn 189.925	0.1289	0.4172	-0.8590u
Sr 216.596	42.6356	41.9391	42.0377
Ti 334.941	0.0913	0.0935	0.0884
Tl 190.794	2.3617	3.5750	0.7466
V 292.401	1.7511	1.7668	1.9244
Zn 206.200	6.9419	5.6107	7.3386

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1032	ppb	0.2034	197.1	-39.8268
Al 308.215	22.0535	ppb	3.0633	13.9	35.1117
As 188.980	2.7599	ppb	4.3440	157.4	-9.3108
B 249.678	12.4694	ppb	0.2360	1.9	341.889
Ba 389.178	23.9551	ppb	0.6465	2.7	614.573
Be 313.042	0.0186	ppb	0.0010	5.4	-408.158
Ca 370.602	12173	ppb	13.88	0.1	42748
Cd 226.502	-0.0868	ppb	0.0775	89.3	34.1833
Co 228.615	4.6755	ppb	0.1711	3.7	76.6271
Cr 267.716	0.2494	ppb	0.0942	37.8	22.2628
Cu 324.754	1.0185	ppb	0.1786	17.5	349.562
Fe 271.441	100.823	ppb	1.7811	1.8	241.017
K 766.491	4764.64	ppb	3.9858	0.1	199988
Mg 279.078	4240.34	ppb	4.0637	0.1	11190.1
Mn 257.610	377.354	ppb	0.8809	0.2	27074.6
Mo 202.032	12.0865	ppb	0.4269	3.5	121.652
Na 330.237	22405.8	ppb	58.9973	0.3	1325.65
Ni 231.604	-0.6348	ppb	0.6912	108.9	-2.2426
Pb 220.353	0.6243	ppb	0.3743	60.0	31.6554
Sb 206.834	1.3344	ppb	1.9111	143.2	-1.7761
Se 196.026	1.8327	ppb	1.5255	83.2	12.4240
Sn 189.925	-0.1043	ppb	0.6693	641.6	-16.6719
Sr 216.596	42.2041	ppb	0.3769	0.9	634.896
Ti 334.941	0.0910	ppb	0.0025	2.8	6.3899
Tl 190.794	2.2278	ppb	1.4189	63.7	-18.0725
V 292.401	1.8141	ppb	0.0958	5.3	45.3170
Zn 206.200	6.6304	ppb	0.9951	13.7	19.7847

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680-90201-a-17-b ms (Samp) 5/16/2013, 5:21:38 PM Rack 1, Tube 20**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.4273	51.1240	51.0417
Al 308.215	5024.72	5018.64	5022.11
As 188.980	112.841	114.362	111.424
B 249.678	204.344	205.260	206.839
Ba 389.178	125.874	124.471	124.249
Be 313.042	50.9792	50.7169	50.7000
Ca 370.602	17494	17433	17423
Cd 226.502	51.1052	50.7977	50.9803
Co 228.615	56.1720	55.8078	55.9775
Cr 267.716	103.568	103.114	103.067
Cu 324.754	106.480	106.003	106.342
Fe 271.441	5068.14	5052.12	5057.73
K 766.491	10409.1	10349.3	10344.3
Mg 279.078	9398.84	9370.78	9383.92
Mn 257.610	918.064	910.524	907.001
Mo 202.032	116.896	116.601	116.711
Na 330.237	28312.8	28250.5	28436.3
Ni 231.604	103.034	101.247	100.590
Pb 220.353	54.9270	50.9855	51.4131
Sb 206.834	54.0433	51.2842	56.7383
Se 196.026	110.270	106.491	104.836
Sn 189.925	201.260	201.800	201.361
Sr 216.596	145.136	143.008	145.144
Ti 334.941	99.2440	98.5573	98.4452
Tl 190.794	40.9811	43.5626	41.9170
V 292.401	103.936	102.920	103.036
Zn 206.200	107.361	108.408	109.969

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.5310	ppb	0.7773	1.5	4545.89
Al 308.215	5021.82	ppb	3.0476	0.1	11774.4
As 188.980	112.876	ppb	1.4694	1.3	69.0476
B 249.678	205.481	ppb	1.2619	0.6	3371.34
Ba 389.178	124.865	ppb	0.8814	0.7	3294.09
Be 313.042	50.7987	ppb	0.1565	0.3	110282
Ca 370.602	17450	ppb	38.29	0.2	60868
Cd 226.502	50.9610	ppb	0.1547	0.3	2536.10
Co 228.615	55.9858	ppb	0.1822	0.3	874.961
Cr 267.716	103.249	ppb	0.2767	0.3	6121.97
Cu 324.754	106.275	ppb	0.2455	0.2	5830.64
Fe 271.441	5059.33	ppb	8.1315	0.2	10512.6
K 766.491	10367.6	ppb	36.0409	0.3	434832
Mg 279.078	9384.52	ppb	14.0401	0.1	24719.7
Mn 257.610	911.863	ppb	5.6516	0.6	65232.5
Mo 202.032	116.736	ppb	0.1493	0.1	1024.77
Na 330.237	28333.2	ppb	94.5705	0.3	1653.51
Ni 231.604	101.624	ppb	1.2644	1.2	363.887
Pb 220.353	52.4419	ppb	2.1628	4.1	149.596
Sb 206.834	54.0219	ppb	2.7271	5.0	62.1964
Se 196.026	107.199	ppb	2.7856	2.6	80.2800
Sn 189.925	201.474	ppb	0.2875	0.1	212.392
Sr 216.596	144.429	ppb	1.2310	0.9	2120.93
Ti 334.941	98.7488	ppb	0.4325	0.4	33156.2
Tl 190.794	42.1536	ppb	1.3069	3.1	24.7109
V 292.401	103.298	ppb	0.5561	0.5	3278.10
Zn 206.200	108.580	ppb	1.3122	1.2	218.678

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680-90201-a-17-c msd (Samp) **5/16/2013, 5:27:03 PM** **Rack 1, Tube 21**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.8524	51.5561	51.1322
Al 308.215	5044.87	5008.85	5004.83
As 188.980	115.051	119.180	118.647
B 249.678	205.817	206.578	207.689
Ba 389.178	123.913	123.984	123.181
Be 313.042	51.1935	51.0788	51.0970
Ca 370.602	16995	16942	16944
Cd 226.502	50.5773	50.7176	50.5199
Co 228.615	55.9591	54.9807	55.2926
Cr 267.716	102.929	102.690	102.991
Cu 324.754	105.674	107.074	105.092
Fe 271.441	5053.78	5032.26	5042.37
K 766.491	10115.4	10092.6	10116.8
Mg 279.078	9215.59	9168.16	9171.83
Mn 257.610	892.297	893.256	896.315
Mo 202.032	116.397	117.250	116.217
Na 330.237	27682.8	27479.7	27688.0
Ni 231.604	100.343	99.8491	101.689
Pb 220.353	49.7999	51.6662	53.9177
Sb 206.834	48.9389	57.4900	53.3354
Se 196.026	96.9028	101.758	95.5792
Sn 189.925	203.361	200.703	197.730
Sr 216.596	142.753	142.503	142.561
Ti 334.941	98.7179	98.3763	98.6540
Tl 190.794	42.6089	41.5051	41.3620
V 292.401	103.373	103.123	103.045
Zn 206.200	107.460	109.205	107.140

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.5136	ppb	0.3620	0.7	4544.36
Al 308.215	5019.52	ppb	22.0483	0.4	11769.0
As 188.980	117.626	ppb	2.2459	1.9	72.4216
B 249.678	206.694	ppb	0.9414	0.5	3390.46
Ba 389.178	123.692	ppb	0.4443	0.4	3262.62
Be 313.042	51.1231	ppb	0.0616	0.1	110989
Ca 370.602	16960	ppb	30.01	0.2	59149
Cd 226.502	50.6049	ppb	0.1017	0.2	2518.71
Co 228.615	55.4108	ppb	0.4998	0.9	866.003
Cr 267.716	102.870	ppb	0.1586	0.2	6099.42
Cu 324.754	105.947	ppb	1.0184	1.0	5813.53
Fe 271.441	5042.81	ppb	10.7643	0.2	10478.3
K 766.491	10108.3	ppb	13.5533	0.1	423964
Mg 279.078	9185.19	ppb	26.3852	0.3	24195.3
Mn 257.610	893.956	ppb	2.0981	0.2	63954.2
Mo 202.032	116.621	ppb	0.5519	0.5	1023.78
Na 330.237	27616.8	ppb	118.766	0.4	1613.50
Ni 231.604	100.627	ppb	0.9520	0.9	360.319
Pb 220.353	51.7946	ppb	2.0619	4.0	148.118
Sb 206.834	53.2548	ppb	4.2761	8.0	61.2678
Se 196.026	98.0799	ppb	3.2531	3.3	74.4197
Sn 189.925	200.598	ppb	2.8169	1.4	211.397
Sr 216.596	142.606	ppb	0.1310	0.1	2094.29
Ti 334.941	98.5827	ppb	0.1816	0.2	33099.4
Tl 190.794	41.8253	ppb	0.6823	1.6	24.3784
V 292.401	103.180	ppb	0.1712	0.2	3274.40
Zn 206.200	107.935	ppb	1.1142	1.0	217.421

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mb 680-276612/1-a (Samp) **5/16/2013, 5:32:29 PM** **Rack 1, Tube 22**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2077	-0.2905u	0.0743
Al 308.215	2.1765	6.3810	8.6642
As 188.980	1.2150	0.8185	3.3892
B 249.678	6.6081	6.8651	6.1208
Ba 389.178	-0.3718u	-0.3524u	-0.0926u
Be 313.042	0.0152	0.0163	0.0196
Ca 370.602	6.356	8.857	9.813
Cd 226.502	-0.2265u	-0.0246u	-0.1070u
Co 228.615	0.2748	0.0162	0.2024
Cr 267.716	0.1515	0.2296	0.1496
Cu 324.754	0.2159	0.1264	0.6830
Fe 271.441	4.6027	7.9156	3.4287
K 766.491	3.0315	2.1978	2.2493
Mg 279.078	6.7140	6.5676	4.0850
Mn 257.610	0.2204	0.2115	0.1929
Mo 202.032	-0.1183u	0.1057	-0.0925u
Na 330.237	5.9552	-7.7599u	-127.336u
Ni 231.604	-0.5260u	-0.5016u	-0.2330u
Pb 220.353	0.2376	0.3684	-0.5676u
Sb 206.834	3.1927	2.5830	2.1113
Se 196.026	0.3480	4.3502	0.6007
Sn 189.925	-0.9558u	-0.0401u	-1.3379u
Sr 216.596	0.0867	0.5483	0.5675
Ti 334.941	0.0786	0.0787	0.0538
Tl 190.794	3.4430	1.5307	1.5458
V 292.401	-0.0800u	-0.3503u	-0.2738u
Zn 206.200	6.1016	6.2594	5.2443

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0028	ppb	0.2579	9103.4	-30.6479
Al 308.215	5.7406	ppb	3.2909	57.3	-3.8004
As 188.980	1.8076	ppb	1.3840	76.6	-10.1032
B 249.678	6.5314	ppb	0.3780	5.8	248.589
Ba 389.178	-0.2723	ppb	0.1559	57.3	-35.7738
Be 313.042	0.0170	ppb	0.0023	13.7	-410.790
Ca 370.602	8.342	ppb	1.785	21.4	41.37
Cd 226.502	-0.1194	ppb	0.1015	85.0	32.2890
Co 228.615	0.1645	ppb	0.1334	81.1	6.8642
Cr 267.716	0.1769	ppb	0.0456	25.8	15.4600
Cu 324.754	0.3418	ppb	0.2989	87.5	313.993
Fe 271.441	5.3157	ppb	2.3269	43.8	42.5096
K 766.491	2.4928	ppb	0.4672	18.7	383.781
Mg 279.078	5.7888	ppb	1.4774	25.5	51.0946
Mn 257.610	0.2082	ppb	0.0140	6.7	151.928
Mo 202.032	-0.0350	ppb	0.1226	350.0	16.9936
Na 330.237	-43.0469	ppb	73.3179	170.3	71.6362
Ni 231.604	-0.4202	ppb	0.1626	38.7	-1.4772
Pb 220.353	0.0128	ppb	0.5069	3958.0	30.1740
Sb 206.834	2.6290	ppb	0.5421	20.6	-0.0173
Se 196.026	1.7663	ppb	2.2413	126.9	12.2583
Sn 189.925	-0.7779	ppb	0.6670	85.7	-17.4549
Sr 216.596	0.4008	ppb	0.2722	67.9	24.4342
Ti 334.941	0.0704	ppb	0.0144	20.4	-21.4746
Tl 190.794	2.1732	ppb	1.0998	50.6	-17.5110
V 292.401	-0.2347	ppb	0.1393	59.4	-17.6821
Zn 206.200	5.8684	ppb	0.5462	9.3	18.2876

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

ics 680-276612/2-a (Samp) 5/16/2013, 5:37:55 PM Rack 1, Tube 23
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	49.5065	49.8342	50.3878
Al 308.215	4884.35	4915.15	4940.10
As 188.980	113.845	106.980	114.476
B 249.678	194.470	195.792	197.586
Ba 389.178	98.2060	98.5814	98.9551
Be 313.042	50.5381	50.6351	50.7952
Ca 370.602	4870	4881	4894
Cd 226.502	50.4581	50.5870	50.9386
Co 228.615	51.2402	50.8101	50.9267
Cr 267.716	102.171	101.823	102.360
Cu 324.754	102.926	102.630	102.531
Fe 271.441	4899.26	4908.58	4930.15
K 766.491	4968.40	4982.61	4984.86
Mg 279.078	4933.09	4941.61	4952.81
Mn 257.610	519.954	514.933	515.638
Mo 202.032	104.027	105.087	103.294
Na 330.237	4906.08	4835.29	4981.00
Ni 231.604	98.7858	98.5626	99.9262
Pb 220.353	49.8936	53.1827	51.3285
Sb 206.834	48.0949	49.5146	49.8244
Se 196.026	101.307	94.1951	99.3993
Sn 189.925	194.070	195.695	199.940
Sr 216.596	99.7637	100.828	100.508
Ti 334.941	97.9170	97.9608	98.2021
Tl 190.794	40.0174	41.8514	39.3609
V 292.401	100.434	100.699	100.521
Zn 206.200	103.449	101.721	102.030

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.9095	ppb	0.4455	0.9	4402.11
Al 308.215	4913.20	ppb	27.9248	0.6	11518.8
As 188.980	111.767	ppb	4.1580	3.7	68.1395
B 249.678	195.949	ppb	1.5639	0.8	3221.58
Ba 389.178	98.5809	ppb	0.3746	0.4	2588.89
Be 313.042	50.6562	ppb	0.1298	0.3	109972
Ca 370.602	4882	ppb	11.95	0.2	16748
Cd 226.502	50.6613	ppb	0.2487	0.5	2520.98
Co 228.615	50.9923	ppb	0.2224	0.4	797.687
Cr 267.716	102.118	ppb	0.2725	0.3	6052.36
Cu 324.754	102.696	ppb	0.2058	0.2	5643.99
Fe 271.441	4912.66	ppb	15.8421	0.3	10208.1
K 766.491	4978.62	ppb	8.9269	0.2	208957
Mg 279.078	4942.50	ppb	9.8899	0.2	13034.9
Mn 257.610	516.842	ppb	2.7184	0.5	37033.7
Mo 202.032	104.136	ppb	0.9013	0.9	915.986
Na 330.237	4907.46	ppb	72.8686	1.5	344.986
Ni 231.604	99.0915	ppb	0.7314	0.7	354.819
Pb 220.353	51.4682	ppb	1.6490	3.2	147.285
Sb 206.834	49.1446	ppb	0.9222	1.9	56.4750
Se 196.026	98.3006	ppb	3.6813	3.7	74.4380
Sn 189.925	196.568	ppb	3.0308	1.5	206.800
Sr 216.596	100.367	ppb	0.5462	0.5	1477.51
Ti 334.941	98.0266	ppb	0.1536	0.2	32891.8
Tl 190.794	40.4099	ppb	1.2908	3.2	23.4463
V 292.401	100.551	ppb	0.1350	0.1	3192.90
Zn 206.200	102.400	ppb	0.9214	0.9	206.623

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680-90102-d-1-a (Samp) 5/16/2013, 5:43:21 PM Rack 1, Tube 24
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1750u	-0.0993u	-0.0923u
Al 308.215	9.4948	7.8285	6.3186
As 188.980	-0.2359	-0.1374	-0.3737
B 249.678	50.1990	48.9709	49.9714
Ba 389.178	39.5090	39.7650	39.9479
Be 313.042	-0.0071u	-0.0008	-0.0047
Ca 370.602	52173	52169	52103
Cd 226.502	-0.0575u	0.0328	0.1158
Co 228.615	0.4893	0.5048	0.0512
Cr 267.716	0.2589	0.0180	0.1656
Cu 324.754	2.1079	2.4259	2.4387
Fe 271.441	194.729	192.530	184.107
K 766.491	3214.27	3214.93	3212.07
Mg 279.078	7001.03	7004.91	7011.20
Mn 257.610	155.799	156.206	157.069
Mo 202.032	4.6259	4.1449	4.6834
Na 330.237	52580.6	52415.3	52291.4
Ni 231.604	27.3017	27.6133	29.6725
Pb 220.353	3.0165	1.8312	1.1821
Sb 206.834	-2.8608u	1.7995	-3.0368u
Se 196.026	0.1179	-1.5654u	6.7079
Sn 189.925	-2.6652u	0.6984	0.1548
Sr 216.596	465.607	467.119	467.591
Ti 334.941	0.1294	0.0455	0.0556
Tl 190.794	1.3588	0.3507	-0.9946u
V 292.401	-0.2832u	0.0476	0.0597
Zn 206.200	12.5338	13.5189	11.8872

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0055	ppb	0.1563	2832.5	-55.1362
Al 308.215	7.8806	ppb	1.5887	20.2	1.4489
As 188.980	-0.2490	ppb	0.1187	47.7	-11.0579
B 249.678	49.7138	ppb	0.6534	1.3	927.816
Ba 389.178	39.7406	ppb	0.2205	0.6	1038.31
Be 313.042	-0.0042	ppb	0.0032	76.2	-444.160
Ca 370.602	52149	ppb	39.18	0.1	183068
Cd 226.502	0.0304	ppb	0.0866	285.2	40.0784
Co 228.615	0.3484	ppb	0.2575	73.9	9.5384
Cr 267.716	0.1475	ppb	0.1215	82.3	15.7249
Cu 324.754	2.3242	ppb	0.1874	8.1	417.335
Fe 271.441	190.455	ppb	5.6070	2.9	425.665
K 766.491	3213.76	ppb	1.4967	0.0	134983
Mg 279.078	7005.71	ppb	5.1285	0.1	18473.8
Mn 257.610	156.358	ppb	0.6486	0.4	11312.2
Mo 202.032	4.4848	ppb	0.2957	6.6	56.0099
Na 330.237	52429.1	ppb	145.046	0.3	3002.76
Ni 231.604	28.1959	ppb	1.2883	4.6	100.946
Pb 220.353	2.0099	ppb	0.9302	46.3	34.7589
Sb 206.834	-1.3660	ppb	2.7428	200.8	-4.9202
Se 196.026	1.7535	ppb	4.3725	249.4	12.3021
Sn 189.925	-0.6040	ppb	1.8056	298.9	-17.2026
Sr 216.596	466.772	ppb	1.0368	0.2	6828.66
Ti 334.941	0.0768	ppb	0.0458	59.6	13.9596
Tl 190.794	0.2383	ppb	1.1808	495.5	-19.9045
V 292.401	-0.0586	ppb	0.1946	332.0	-13.3581
Zn 206.200	12.6466	ppb	0.8217	6.5	31.5181

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680-90102-d-1-a (Samp) 5/16/2013, 5:59:33 PM Rack 1, Tube 27
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2259	0.1869	0.1798
Al 308.215	3.6404	6.2139	-1.3787u
As 188.980	-3.4731u	2.9023	0.2295
B 249.678	11.1178	11.1136	10.9066
Ba 389.178	7.4124	7.0668	6.8291
Be 313.042	0.0046	0.0131	0.0027
Ca 370.602	10397	10377	10371
Cd 226.502	-0.0257u	0.0331	-0.1250u
Co 228.615	0.2047	0.5524	0.3938
Cr 267.716	0.1735	-0.0950u	-0.0042
Cu 324.754	0.0312	0.5485	0.3513
Fe 271.441	36.0412	37.2230	35.7939
K 766.491	599.959	599.040	597.728
Mg 279.078	1418.08	1421.08	1419.52
Mn 257.610	31.5358	31.6120	31.7689
Mo 202.032	0.9616	0.9358	1.3612
Na 330.237	10019.4	10070.5	10028.1
Ni 231.604	5.4598	4.9288	6.1750
Pb 220.353	-2.4588u	0.3170	-1.3302u
Sb 206.834	-2.8292u	-1.1647u	-0.2599u
Se 196.026	6.5680	3.2210	-2.0829u
Sn 189.925	3.2696	0.0526	4.1392
Sr 216.596	94.0929	94.2237	94.2832
Ti 334.941	0.0337	0.0639	0.0545
Tl 190.794	3.2209	2.2918	0.7828
V 292.401	-0.1632u	-0.0380u	-0.2358u
Zn 206.200	7.8703	7.0377	6.1315

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1976	ppb	0.0248	12.6	-17.7180
Al 308.215	2.8252	ppb	3.8614	136.7	-10.5929
As 188.980	-0.1138	ppb	3.2015	2813.9	-11.3687
B 249.678	11.0460	ppb	0.1207	1.1	319.579
Ba 389.178	7.1028	ppb	0.2933	4.1	162.566
Be 313.042	0.0068	ppb	0.0056	81.9	-430.495
Ca 370.602	10381	ppb	13.55	0.1	36454
Cd 226.502	-0.0392	ppb	0.0799	203.8	36.2768
Co 228.615	0.3836	ppb	0.1740	45.4	10.2324
Cr 267.716	0.0248	ppb	0.1366	551.8	6.8446
Cu 324.754	0.3103	ppb	0.2611	84.1	312.392
Fe 271.441	36.3527	ppb	0.7637	2.1	106.776
K 766.491	598.909	ppb	1.1214	0.2	25382.4
Mg 279.078	1419.56	ppb	1.4976	0.1	3771.93
Mn 257.610	31.6389	ppb	0.1189	0.4	2398.34
Mo 202.032	1.0862	ppb	0.2385	22.0	26.6729
Na 330.237	10039.3	ppb	27.3215	0.3	634.844
Ni 231.604	5.5212	ppb	0.6254	11.3	19.7883
Pb 220.353	-1.1573	ppb	1.3959	120.6	27.5180
Sb 206.834	-1.4179	ppb	1.3033	91.9	-4.9339
Se 196.026	2.5687	ppb	4.3622	169.8	12.7838
Sn 189.925	2.4871	ppb	2.1527	86.6	-13.7339
Sr 216.596	94.1999	ppb	0.0974	0.1	1392.92
Ti 334.941	0.0507	ppb	0.0154	30.4	-21.3089
Tl 190.794	2.0985	ppb	1.2305	58.6	-17.6460
V 292.401	-0.1457	ppb	0.1000	68.7	-15.0943
Zn 206.200	7.0131	ppb	0.8697	12.4	20.5228

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680-90102-d-1-a (Samp) **5/16/2013, 6:04:57 PM** **Rack 1, Tube 28**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.2754	49.9135	49.3876
Al 308.215	2006.05	2003.60	2004.28
As 188.980	2310.03	2292.37	2289.95
B 249.678	1019.92	1024.82	1027.87
Ba 389.178	2058.84	2057.93	2061.88
Be 313.042	50.3862	50.4672	50.5173
Ca 370.602	56147	56190	56154
Cd 226.502	50.0949	50.2127	50.5844
Co 228.615	505.014	508.444	505.474
Cr 267.716	205.120	205.375	205.351
Cu 324.754	263.113	263.914	264.544
Fe 271.441	1179.53	1190.07	1183.21
K 766.491	8834.64	8861.91	8846.51
Mg 279.078	11853.3	11839.7	11910.2
Mn 257.610	665.910	663.756	664.226
Mo 202.032	537.153	535.929	535.552
Na 330.237	56855.4	56772.6	56969.1
Ni 231.604	526.896	524.524	528.232
Pb 220.353	514.240	514.180	514.233
Sb 206.834	526.940	519.533	515.754
Se 196.026	2082.12	2090.99	2075.74
Sn 189.925	1013.24	1012.90	1011.57
Sr 216.596	956.148	955.477	954.998
Ti 334.941	980.853	981.699	982.614
Tl 190.794	2108.19	2112.44	2104.35
V 292.401	501.126	501.600	500.946
Zn 206.200	514.085	509.006	509.125

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.5255	ppb	0.3407	0.7	4326.13
Al 308.215	2004.64	ppb	1.2636	0.1	4712.84
As 188.980	2297.45	ppb	10.9598	0.5	1623.07
B 249.678	1024.20	ppb	4.0125	0.4	16260.6
Ba 389.178	2059.55	ppb	2.0711	0.1	54208.9
Be 313.042	50.4569	ppb	0.0662	0.1	109455
Ca 370.602	56164	ppb	22.91	0.0	197292
Cd 226.502	50.2973	ppb	0.2555	0.5	2487.91
Co 228.615	506.311	ppb	1.8620	0.4	7904.33
Cr 267.716	205.282	ppb	0.1407	0.1	12157.1
Cu 324.754	263.857	ppb	0.7169	0.3	14037.9
Fe 271.441	1184.27	ppb	5.3462	0.5	2582.57
K 766.491	8847.69	ppb	13.6755	0.2	371128
Mg 279.078	11867.7	ppb	37.4113	0.3	31261.2
Mn 257.610	664.631	ppb	1.1326	0.2	47594.0
Mo 202.032	536.211	ppb	0.8370	0.2	4646.23
Na 330.237	56865.7	ppb	98.6907	0.2	3237.97
Ni 231.604	526.551	ppb	1.8780	0.4	1884.60
Pb 220.353	514.217	ppb	0.0330	0.0	1198.94
Sb 206.834	520.742	ppb	5.6901	1.1	621.814
Se 196.026	2082.95	ppb	7.6625	0.4	1348.63
Sn 189.925	1012.57	ppb	0.8821	0.1	1134.10
Sr 216.596	955.541	ppb	0.5779	0.1	13916.6
Ti 334.941	981.722	ppb	0.8805	0.1	329599
Tl 190.794	2108.33	ppb	4.0449	0.2	2296.93
V 292.401	501.224	ppb	0.3379	0.1	15983.4
Zn 206.200	510.739	ppb	2.8985	0.6	1001.28

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680-90102-d-1-b ms (Samp) 5/16/2013, 6:10:33 PM Rack 1, Tube 29**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.9090	51.5339	51.0907
Al 308.215	5173.16	5188.26	5168.75
As 188.980	116.425	114.349	114.683
B 249.678	259.181	258.715	258.098
Ba 389.178	141.008	141.830	141.050
Be 313.042	52.0546	52.0823	52.1022
Ca 370.602	57232	57250	57226
Cd 226.502	51.1240	51.3935	51.1782
Co 228.615	52.0166	51.1244	51.4229
Cr 267.716	103.339	103.591	103.837
Cu 324.754	109.618	109.119	108.927
Fe 271.441	5176.69	5176.48	5171.12
K 766.491	8889.28	8899.04	8890.81
Mg 279.078	12104.8	12083.6	12095.2
Mn 257.610	680.288	676.720	678.872
Mo 202.032	110.886	111.445	110.729
Na 330.237	58000.8	58061.7	57794.7
Ni 231.604	130.732	129.713	128.200
Pb 220.353	53.9862	52.9582	56.9316
Sb 206.834	55.1803	53.2760	56.4721
Se 196.026	106.701	105.437	105.950
Sn 189.925	205.622	200.602	202.454
Sr 216.596	561.450	560.080	560.000
Ti 334.941	100.066	100.101	100.147
Tl 190.794	43.0734	42.4437	44.0461
V 292.401	102.493	102.505	102.962
Zn 206.200	114.228	112.333	114.729

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.1779	ppb	0.3214	0.6	4490.91
Al 308.215	5176.72	ppb	10.2321	0.2	12137.6
As 188.980	115.152	ppb	1.1149	1.0	71.0564
B 249.678	258.664	ppb	0.5428	0.2	4208.05
Ba 389.178	141.296	ppb	0.4630	0.3	3734.68
Be 313.042	52.0797	ppb	0.0239	0.0	113088
Ca 370.602	57236	ppb	12.54	0.0	200521
Cd 226.502	51.2319	ppb	0.1426	0.3	2549.55
Co 228.615	51.5213	ppb	0.4542	0.9	805.717
Cr 267.716	103.589	ppb	0.2492	0.2	6141.51
Cu 324.754	109.221	ppb	0.3564	0.3	5983.82
Fe 271.441	5174.76	ppb	3.1580	0.1	10750.6
K 766.491	8893.05	ppb	5.2499	0.1	373029
Mg 279.078	12094.5	ppb	10.6373	0.1	31857.9
Mn 257.610	678.626	ppb	1.7965	0.3	48596.5
Mo 202.032	111.020	ppb	0.3764	0.3	975.407
Na 330.237	57952.4	ppb	139.948	0.2	3308.03
Ni 231.604	129.549	ppb	1.2742	1.0	463.833
Pb 220.353	54.6253	ppb	2.0624	3.8	154.512
Sb 206.834	54.9761	ppb	1.6078	2.9	63.4726
Se 196.026	106.029	ppb	0.6360	0.6	79.4549
Sn 189.925	202.893	ppb	2.5385	1.3	214.042
Sr 216.596	560.510	ppb	0.8151	0.1	8190.88
Ti 334.941	100.105	ppb	0.0409	0.0	33623.5
Tl 190.794	43.1877	ppb	0.8073	1.9	26.2171
V 292.401	102.653	ppb	0.2675	0.3	3258.60
Zn 206.200	113.764	ppb	1.2636	1.1	228.791

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680-90102-d-1-c msd (Samp) 5/16/2013, 6:15:58 PM Rack 1, Tube 30**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.5914	53.4261	53.5445
Al 308.215	5052.85	5088.25	5102.26
As 188.980	113.141	111.544	119.206
B 249.678	248.812	250.203	250.285
Ba 389.178	139.853	139.502	138.794
Be 313.042	51.3129	51.3697	51.3341
Ca 370.602	56097	56297	56287
Cd 226.502	50.6786	50.8063	50.6468
Co 228.615	50.6543	50.9823	51.0787
Cr 267.716	102.431	103.202	102.309
Cu 324.754	108.119	107.558	107.298
Fe 271.441	5121.27	5127.37	5120.08
K 766.491	8842.63	8807.88	8821.66
Mg 279.078	11843.0	11936.6	11859.2
Mn 257.610	679.439	672.890	670.555
Mo 202.032	109.942	108.963	109.847
Na 330.237	56984.8	57067.7	56968.8
Ni 231.604	128.133	128.867	126.685
Pb 220.353	53.7439	53.5844	52.6098
Sb 206.834	48.2699	47.5188	49.3768
Se 196.026	98.1938	95.3734	106.952
Sn 189.925	196.092	200.904	201.658
Sr 216.596	552.987	552.372	552.521
Ti 334.941	99.0309	98.8284	98.8040
Tl 190.794	44.7561	41.4637	44.6514
V 292.401	101.673	102.018	101.203
Zn 206.200	111.617	110.422	111.488

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.5207	ppb	0.0852	0.2	4699.42
Al 308.215	5081.12	ppb	25.4652	0.5	11913.2
As 188.980	114.630	ppb	4.0419	3.5	70.6764
B 249.678	249.767	ppb	0.8278	0.3	4068.11
Ba 389.178	139.383	ppb	0.5394	0.4	3683.63
Be 313.042	51.3389	ppb	0.0287	0.1	111473
Ca 370.602	56227	ppb	112.6	0.2	196982
Cd 226.502	50.7106	ppb	0.0845	0.2	2524.02
Co 228.615	50.9051	ppb	0.2225	0.4	796.123
Cr 267.716	102.647	ppb	0.4844	0.5	6085.73
Cu 324.754	107.658	ppb	0.4197	0.4	5902.45
Fe 271.441	5122.90	ppb	3.9130	0.1	10643.1
K 766.491	8824.06	ppb	17.4967	0.2	370137
Mg 279.078	11879.6	ppb	50.0256	0.4	31292.3
Mn 257.610	674.295	ppb	4.6056	0.7	48286.9
Mo 202.032	109.584	ppb	0.5396	0.5	963.010
Na 330.237	57007.1	ppb	53.1082	0.1	3255.27
Ni 231.604	127.895	ppb	1.1103	0.9	457.914
Pb 220.353	53.3127	ppb	0.6140	1.2	151.524
Sb 206.834	48.3885	ppb	0.9347	1.9	55.4935
Se 196.026	100.173	ppb	6.0379	6.0	75.6925
Sn 189.925	199.551	ppb	3.0193	1.5	210.244
Sr 216.596	552.627	ppb	0.3209	0.1	8075.92
Ti 334.941	98.8878	ppb	0.1246	0.1	33213.8
Tl 190.794	43.6237	ppb	1.8714	4.3	26.7107
V 292.401	101.631	ppb	0.4095	0.4	3226.05
Zn 206.200	111.176	ppb	0.6559	0.6	222.747

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680-90111-a-5-a (Samp) 5/16/2013, 6:21:23 PM Rack 1, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2345u	-0.1540u	0.2319
Al 308.215	416.818	420.101	419.469
As 188.980	2.4721	4.7950	-2.5235u
B 249.678	11.0922	10.3539	10.6100
Ba 389.178	36.4249	36.8391	36.0403
Be 313.042	0.2075	0.2077	0.2044
Ca 370.602	4426	4441	4430
Cd 226.502	-0.2403u	-0.1956u	-0.0731u
Co 228.615	1.0963	1.3806	0.9589
Cr 267.716	0.2667	0.6330	0.4337
Cu 324.754	1.0610	1.5667	2.1628
Fe 271.441	507.291	516.759	512.423
K 766.491	1268.08	1275.75	1276.42
Mg 279.078	802.373	805.608	805.872
Mn 257.610	68.0942	68.8930	69.4467
Mo 202.032	0.1387	0.0525	-0.3255u
Na 330.237	3744.59	3858.32	3762.02
Ni 231.604	-0.4124u	-1.4242u	-1.4983u
Pb 220.353	0.7130	0.2267	2.0001
Sb 206.834	-2.0675u	2.0786	-2.0317u
Se 196.026	1.3418	1.6644	2.7478
Sn 189.925	-0.9558u	1.6834	-1.2627u
Sr 216.596	21.5452	21.4805	21.5851
Ti 334.941	10.6107	10.7266	10.7396
Tl 190.794	0.1058u	2.3432	2.6131
V 292.401	1.9365	2.1889	2.3828
Zn 206.200	82.3738	84.4007	82.5272

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0522	ppb	0.2493	477.6	-35.7832
Al 308.215	418.796	ppb	1.7416	0.4	965.600
As 188.980	1.5812	ppb	3.7397	236.5	-10.2191
B 249.678	10.6854	ppb	0.3749	3.5	313.166
Ba 389.178	36.4348	ppb	0.3995	1.1	933.348
Be 313.042	0.2066	ppb	0.0019	0.9	3.5837
Ca 370.602	4432	ppb	8.168	0.2	15530
Cd 226.502	-0.1697	ppb	0.0866	51.0	31.9182
Co 228.615	1.1453	ppb	0.2151	18.8	22.5123
Cr 267.716	0.4445	ppb	0.1834	41.3	31.8981
Cu 324.754	1.5968	ppb	0.5515	34.5	379.429
Fe 271.441	512.158	ppb	4.7397	0.9	1091.53
K 766.491	1273.42	ppb	4.6311	0.4	53654.2
Mg 279.078	804.618	ppb	1.9486	0.2	2152.42
Mn 257.610	68.8113	ppb	0.6800	1.0	5049.67
Mo 202.032	-0.0448	ppb	0.2469	551.6	16.8737
Na 330.237	3788.31	ppb	61.2552	1.6	284.785
Ni 231.604	-1.1116	ppb	0.6067	54.6	-3.9372
Pb 220.353	0.9799	ppb	0.9163	93.5	32.3981
Sb 206.834	-0.6735	ppb	2.3835	353.9	-3.9929
Se 196.026	1.9180	ppb	0.7365	38.4	12.3819
Sn 189.925	-0.1784	ppb	1.6196	907.9	-16.7692
Sr 216.596	21.5370	ppb	0.0528	0.2	333.434
Ti 334.941	10.6923	ppb	0.0709	0.7	3548.61
Tl 190.794	1.6874	ppb	1.3763	81.6	-18.1837
V 292.401	2.1694	ppb	0.2238	10.3	59.8202
Zn 206.200	83.1006	ppb	1.1285	1.4	168.822

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680-90111-a-7-a (Samp) 5/16/2013, 6:26:58 PM Rack 1, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0129	-0.3820u	0.3985
Al 308.215	80.5881	80.7505	78.2136
As 188.980	3.5530	-1.4520u	-2.0448u
B 249.678	5.3778	5.1914	5.4068
Ba 389.178	3.5678	3.5885	3.5254
Be 313.042	0.0176	0.0173	0.0132
Ca 370.602	3044	3012	3023
Cd 226.502	-0.0951u	-0.0855u	-0.0471u
Co 228.615	-0.1989u	-0.0223u	-0.0987u
Cr 267.716	0.3141	0.3614	0.1694
Cu 324.754	1.3062	1.1203	1.0057
Fe 271.441	64.7225	61.2052	65.6951
K 766.491	987.939	983.096	984.618
Mg 279.078	230.219	235.108	232.474
Mn 257.610	11.9302	11.8644	11.8968
Mo 202.032	0.1318	0.1257	0.3491
Na 330.237	7249.08	7225.61	7179.19
Ni 231.604	-0.2321u	-1.6718u	-0.2165u
Pb 220.353	0.1203	2.8193	1.6989
Sb 206.834	-2.6920u	-3.0907u	-3.4222u
Se 196.026	4.4875	-1.8896u	1.9830
Sn 189.925	-3.1213u	-1.2061u	-1.9172u
Sr 216.596	18.0209	17.6358	18.6492
Ti 334.941	1.6492	1.6069	1.6344
Tl 190.794	3.0574	-0.0482u	-0.8481u
V 292.401	4.1896	4.2892	4.0791
Zn 206.200	3.5701	4.1910	3.6102

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0098	ppb	0.3902	3977.8	-30.3898
Al 308.215	79.8507	ppb	1.4201	1.8	170.104
As 188.980	0.0187	ppb	3.0751	16435.5	-11.3460
B 249.678	5.3253	ppb	0.1169	2.2	229.518
Ba 389.178	3.5606	ppb	0.0321	0.9	65.8678
Be 313.042	0.0160	ppb	0.0024	15.1	-412.903
Ca 370.602	3026	ppb	16.19	0.5	10631
Cd 226.502	-0.0759	ppb	0.0254	33.4	34.6078
Co 228.615	-0.1066	ppb	0.0885	83.0	2.6934
Cr 267.716	0.2816	ppb	0.1000	35.5	21.8459
Cu 324.754	1.1441	ppb	0.1517	13.3	355.721
Fe 271.441	63.8743	ppb	2.3621	3.7	163.676
K 766.491	985.218	ppb	2.4768	0.3	41574.4
Mg 279.078	232.600	ppb	2.4467	1.1	647.882
Mn 257.610	11.8972	ppb	0.0329	0.3	986.633
Mo 202.032	0.2022	ppb	0.1273	62.9	19.0284
Na 330.237	7217.96	ppb	35.5656	0.5	477.239
Ni 231.604	-0.7068	ppb	0.8358	118.2	-2.5011
Pb 220.353	1.5462	ppb	1.3560	87.7	33.6685
Sb 206.834	-3.0683	ppb	0.3656	11.9	-6.9148
Se 196.026	1.5270	ppb	3.2129	210.4	12.1088
Sn 189.925	-2.0815	ppb	0.9681	46.5	-18.9310
Sr 216.596	18.1020	ppb	0.5115	2.8	282.907
Ti 334.941	1.6301	ppb	0.0214	1.3	502.759
Tl 190.794	0.7203	ppb	2.0631	286.4	-19.1281
V 292.401	4.1860	ppb	0.1051	2.5	124.383
Zn 206.200	3.7904	ppb	0.3475	9.2	14.2469

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680-90173-a-6-a (Samp) **5/16/2013, 6:32:24 PM** **Rack 1, Tube 33**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0164u	-0.0642u	-0.3936u
Al 308.215	118.597	122.230	118.416
As 188.980	2.3816	-2.3204u	0.1795
B 249.678	4.6437	4.5854	4.1640
Ba 389.178	11.1327	11.2580	11.0464
Be 313.042	0.0483	0.0553	0.0587
Ca 370.602	4996	4980	4998
Cd 226.502	-0.1063u	-0.1565u	-0.1093u
Co 228.615	0.2429	0.3917	0.2339
Cr 267.716	0.7799	0.7450	0.7789
Cu 324.754	0.5833	0.1935	-0.1383u
Fe 271.441	278.555	276.146	282.573
K 766.491	1042.95	1041.44	1040.74
Mg 279.078	448.710	444.305	446.631
Mn 257.610	72.8089	72.2755	72.0851
Mo 202.032	-0.4049u	0.5089	0.4345
Na 330.237	12541.8	12556.1	12374.6
Ni 231.604	0.2845	2.6145	0.1450
Pb 220.353	1.2634	0.1137	1.1476
Sb 206.834	0.7988	0.4867	-0.8622u
Se 196.026	2.2970	-5.7113u	-1.6824u
Sn 189.925	0.6210	0.4369	2.2999
Sr 216.596	36.2198	36.0427	35.9706
Ti 334.941	7.9705	7.9048	7.9928
Tl 190.794	-1.2039u	0.9311	1.0502
V 292.401	0.2814	0.3949	0.2996
Zn 206.200	0.8596	1.0127	2.7577

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1581	ppb	0.2054	129.9	-45.9523
Al 308.215	119.748	ppb	2.1518	1.8	263.772
As 188.980	0.0803	ppb	2.3526	2931.4	-11.2823
B 249.678	4.4644	ppb	0.2618	5.9	215.633
Ba 389.178	11.1457	ppb	0.1064	1.0	266.441
Be 313.042	0.0541	ppb	0.0053	9.8	-329.611
Ca 370.602	4991	ppb	9.960	0.2	17513
Cd 226.502	-0.1240	ppb	0.0282	22.7	33.1216
Co 228.615	0.2895	ppb	0.0887	30.6	9.0750
Cr 267.716	0.7679	ppb	0.0198	2.6	51.1975
Cu 324.754	0.2128	ppb	0.3612	169.7	307.365
Fe 271.441	279.092	ppb	3.2467	1.2	609.071
K 766.491	1041.71	ppb	1.1306	0.1	43942.3
Mg 279.078	446.549	ppb	2.2038	0.5	1209.85
Mn 257.610	72.3898	ppb	0.3752	0.5	5303.91
Mo 202.032	0.1795	ppb	0.5075	282.7	18.8280
Na 330.237	12490.8	ppb	100.915	0.8	771.692
Ni 231.604	1.0147	ppb	1.3873	136.7	3.6662
Pb 220.353	0.8416	ppb	0.6330	75.2	32.0789
Sb 206.834	0.1411	ppb	0.8828	625.7	-3.0160
Se 196.026	-1.6989	ppb	4.0041	235.7	10.0593
Sn 189.925	1.1192	ppb	1.0266	91.7	-15.2903
Sr 216.596	36.0777	ppb	0.1283	0.4	545.267
Ti 334.941	7.9560	ppb	0.0457	0.6	2627.21
Tl 190.794	0.2591	ppb	1.2684	489.5	-19.7489
V 292.401	0.3253	ppb	0.0610	18.8	0.2995
Zn 206.200	1.5433	ppb	1.0545	68.3	0.8960

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680-90173-a-13-a (Samp) 5/16/2013, 6:37:50 PM Rack 1, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0613	-0.5763u	0.0580
Al 308.215	535.148	537.947	535.392
As 188.980	1.8073	3.3211	1.0376
B 249.678	1.0483u	0.9370u	0.4955u
Ba 389.178	16.4666	16.4944	16.0330
Be 313.042	0.2071	0.2104	0.2129
Ca 370.602	10350	10336	10343
Cd 226.502	-0.4155	-0.2729	-0.1518
Co 228.615	0.5614	0.5563	0.6541
Cr 267.716	0.7831	0.7372	0.9884
Cu 324.754	2.1981	1.8783	2.0356
Fe 271.441	12050.6	12048.8	12044.3
K 766.491	1046.47	1043.44	1041.72
Mg 279.078	1629.47	1626.52	1622.99
Mn 257.610	54.2109	53.9245	53.9895
Mo 202.032	0.8500	0.9171	1.0100
Na 330.237	8644.75	8830.42	8788.79
Ni 231.604	-1.6746u	-0.6927u	-0.6334u
Pb 220.353	4.0283	3.3269	2.0238
Sb 206.834	-0.1896	-1.8556u	0.4960
Se 196.026	2.8940	2.4031	6.7980
Sn 189.925	1.4338	-1.3189u	1.3325
Sr 216.596	58.8896	59.3081	59.2593
Ti 334.941	15.9534	16.0111	16.0833
Tl 190.794	1.8535	0.0589u	0.3103u
V 292.401	17.3403	16.9316	16.9359
Zn 206.200	10.0237	10.8228	10.9774

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1523	ppb	0.3671	241.0	-46.7209
Al 308.215	536.162	ppb	1.5504	0.3	1241.00
As 188.980	2.0553	ppb	1.1618	56.5	-9.7821
B 249.678	0.8269	ppb	0.2924	35.4	140.019
Ba 389.178	16.3313	ppb	0.2587	1.6	425.328
Be 313.042	0.2101	ppb	0.0029	1.4	12.0691
Ca 370.602	10343	ppb	6.845	0.1	35252
Cd 226.502	-0.2801	ppb	0.1320	47.1	73.9188
Co 228.615	0.5906	ppb	0.0551	9.3	13.4861
Cr 267.716	0.8362	ppb	0.1338	16.0	58.2906
Cu 324.754	2.0373	ppb	0.1599	7.8	405.763
Fe 271.441	12047.9	ppb	3.2894	0.0	24962.6
K 766.491	1043.88	ppb	2.4052	0.2	44033.0
Mg 279.078	1626.33	ppb	3.2440	0.2	4318.26
Mn 257.610	54.0416	ppb	0.1501	0.3	4007.55
Mo 202.032	0.9257	ppb	0.0804	8.7	24.5347
Na 330.237	8754.65	ppb	97.4242	1.1	559.019
Ni 231.604	-1.0002	ppb	0.5847	58.5	-3.2140
Pb 220.353	3.1263	ppb	1.0172	32.5	37.2768
Sb 206.834	-0.5164	ppb	1.2094	234.2	-3.4963
Se 196.026	4.0317	ppb	2.4082	59.7	13.8214
Sn 189.925	0.4825	ppb	1.5608	323.5	-16.0129
Sr 216.596	59.1523	ppb	0.2289	0.4	888.845
Ti 334.941	16.0159	ppb	0.0651	0.4	5341.46
Tl 190.794	0.7409	ppb	0.9717	131.1	-19.8401
V 292.401	17.0693	ppb	0.2347	1.4	538.636
Zn 206.200	10.6080	ppb	0.5119	4.8	291.325

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680-90126-a-1-b (Samp) **5/16/2013, 6:43:16 PM** **Rack 1, Tube 35****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5967u	0.1608u	1.0049u
Al 308.215	47.0026	51.3480	49.4293
As 188.980	3.1972	1.1269	4.2427
B 249.678	1444.22	1449.65	1455.76
Ba 389.178	20.9283	22.6537	21.1799
Be 313.042	-0.0195	-0.0243	-0.0248
Ca 370.602	546749	552582	549190
Cd 226.502	0.0962	-0.0338u	-0.1326u
Co 228.615	0.4402	0.4829	0.4605
Cr 267.716	13.3065	13.5130	13.6914
Cu 324.754	24.1712	24.4925	24.0072
Fe 271.441	261.533	255.997	255.563
K 766.491	22338.3	22415.3	22418.3
Mg 279.078	143714	143550	143682
Mn 257.610	80.4944	80.7859	80.6214
Mo 202.032	2.9325	2.8885	2.5988
Na 330.237	1024700x	1033267x	1025675x
Ni 231.604	43.6067	45.5393	46.0932
Pb 220.353	8.4569	0.4689	1.4763
Sb 206.834	4.7576	-0.7345u	-0.2909u
Se 196.026	67.7444	64.1821	63.9826
Sn 189.925	-1.4136u	-5.0569u	-3.4063u
Sr 216.596	9206.95x	9199.23x	9195.33x
Ti 334.941	-0.6768	-0.7885	-0.8158
Tl 190.794	-3.5032u	-3.7557u	-4.4610u
V 292.401	29.8527	29.4281	30.1840
Zn 206.200	40.1827	39.8957	38.3695

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5875b	ppb	0.4221	71.9	-473.371
Al 308.215	49.2599b	ppb	2.1776	4.4	98.2706
As 188.980	2.8556b	ppb	1.5858	55.5	-4.0352
B 249.678	1449.87b	ppb	5.7729	0.4	22960.4
Ba 389.178	21.5873b	ppb	0.9320	4.3	967.782
Be 313.042	-0.0229b	ppb	0.0029	12.9	-420.960
Ca 370.602	549507b	ppb	2929	0.5	1929043
Cd 226.502	-0.0234b	ppb	0.1148	490.8	33.1238
Co 228.615	0.4612b	ppb	0.0214	4.6	11.4767
Cr 267.716	13.5036b	ppb	0.1926	1.4	826.380
Cu 324.754	24.2236b	ppb	0.2469	1.0	1556.67
Fe 271.441	257.697b	ppb	3.3286	1.3	565.120
K 766.491	22390.7b	ppb	45.3324	0.2	938777
Mg 279.078	143649b	ppb	86.9058	0.1	378160
Mn 257.610	80.6339b	ppb	0.1462	0.2	6254.14
Mo 202.032	2.8066b	ppb	0.1813	6.5	41.4479
Na 330.237	1027881xb	ppb	4689.70	0.5	57493.9
Ni 231.604	45.0797b	ppb	1.3054	2.9	161.376
Pb 220.353	3.4674b	ppb	4.3503	125.5	38.0575
Sb 206.834	1.2441b	ppb	3.0509	245.2	-1.5729
Se 196.026	65.3030b	ppb	2.1166	3.2	53.0788
Sn 189.925	-3.2922b	ppb	1.8243	55.4	-19.5134
Sr 216.596	9200.50xb	ppb	5.9126	0.1	134198
Ti 334.941	-0.7604b	ppb	0.0737	9.7	386.212
Tl 190.794	-3.9066b	ppb	0.4964	12.7	-24.3305
V 292.401	29.8216b	ppb	0.3789	1.3	939.730
Zn 206.200	39.4826b	ppb	0.9746	2.5	837590

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680-90150-c-1-a (Samp) **5/16/2013, 6:48:42 PM** **Rack 1, Tube 36**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2602	0.0238	0.1191
Al 308.215	228.465	231.641	229.762
As 188.980	-2.5193u	-1.8809u	3.3543
B 249.678	40.6642	39.4355	38.0707
Ba 389.178	176.983	176.261	176.035
Be 313.042	0.1863	0.1894	0.1892
Ca 370.602	3653	3648	3656
Cd 226.502	0.0697	-0.0113u	0.0471
Co 228.615	2.0949	2.3974	2.2997
Cr 267.716	0.3188	0.1784	0.2249
Cu 324.754	0.4288	1.6798	0.1829
Fe 271.441	41.7804	41.1407	43.9061
K 766.491	2233.09	2238.92	2241.46
Mg 279.078	2602.13	2598.92	2603.27
Mn 257.610	29.5112	29.5014	29.6097
Mo 202.032	0.0367	-0.0538u	0.4144
Na 330.237	12308.8	12483.3	12606.4
Ni 231.604	8.5201	8.2836	8.4453
Pb 220.353	2.5422	2.0363	-0.2539u
Sb 206.834	0.8599	2.0719	-0.4092u
Se 196.026	3.9406	5.6085	2.4651
Sn 189.925	0.1666	-1.0510u	1.4332
Sr 216.596	35.1264	35.3050	35.1807
Ti 334.941	-0.0004	0.0208	-0.0575u
Tl 190.794	3.3666	1.3540	0.3728
V 292.401	-0.2374u	0.0942	-0.2863u
Zn 206.200	5.2629	3.5760	5.0687

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1343	ppb	0.1189	88.5	-20.2179
Al 308.215	229.956	ppb	1.5967	0.7	522.430
As 188.980	-0.3486	ppb	3.2227	924.4	-11.6012
B 249.678	39.3902	ppb	1.2973	3.3	765.590
Ba 389.178	176.427	ppb	0.4951	0.3	4621.76
Be 313.042	0.1883	ppb	0.0017	0.9	-37.7726
Ca 370.602	3652	ppb	4.071	0.1	12831
Cd 226.502	0.0352	ppb	0.0418	118.7	39.9226
Co 228.615	2.2640	ppb	0.1544	6.8	39.5787
Cr 267.716	0.2407	ppb	0.0715	29.7	19.6719
Cu 324.754	0.7638	ppb	0.8027	105.1	335.970
Fe 271.441	42.2757	ppb	1.4478	3.4	119.385
K 766.491	2237.82	ppb	4.2932	0.2	94077.0
Mg 279.078	2601.44	ppb	2.2570	0.1	6882.95
Mn 257.610	29.5408	ppb	0.0599	0.2	2251.58
Mo 202.032	0.1324	ppb	0.2483	187.6	18.4366
Na 330.237	12466.1	ppb	149.555	1.2	770.431
Ni 231.604	8.4164	ppb	0.1209	1.4	30.1504
Pb 220.353	1.4416	ppb	1.4899	103.4	33.4394
Sb 206.834	0.8409	ppb	1.2407	147.5	-2.1792
Se 196.026	4.0047	ppb	1.5727	39.3	13.7052
Sn 189.925	0.1830	ppb	1.2422	679.0	-16.3550
Sr 216.596	35.2040	ppb	0.0915	0.3	532.036
Ti 334.941	-0.0124	ppb	0.0405	327.0	-36.2836
Tl 190.794	1.6978	ppb	1.5262	89.9	-18.0825
V 292.401	-0.1432	ppb	0.2070	144.6	-14.8279
Zn 206.200	4.6358	ppb	0.9230	19.9	15.8913

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680-90150-c-2-a (Samp) **5/16/2013, 7:04:55 PM** **Rack 1, Tube 39**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1840	0.0272	0.1175
Al 308.215	238.174	234.429	236.713
As 188.980	3.7003	5.6292	-2.0333u
B 249.678	25.9148	26.3592	26.2319
Ba 389.178	175.855	177.734	177.586
Be 313.042	0.1797	0.1779	0.1786
Ca 370.602	3607	3623	3626
Cd 226.502	-0.0452u	0.1148	-0.0650u
Co 228.615	2.7858	2.7189	2.7603
Cr 267.716	-0.0719u	-0.0139u	0.0209
Cu 324.754	0.9531	0.5453	0.3291
Fe 271.441	8.7696	5.4683	8.1384
K 766.491	2250.91	2258.98	2264.91
Mg 279.078	2598.87	2611.01	2616.54
Mn 257.610	29.4178	29.7899	29.8120
Mo 202.032	-0.0034u	-0.1096u	0.3984
Na 330.237	12823.9	12580.7	12545.1
Ni 231.604	1.8327	2.1385	1.7306
Pb 220.353	0.6902	2.2431	0.9322
Sb 206.834	4.1737	2.8954	3.3562
Se 196.026	-2.2287u	-1.4713u	2.4992
Sn 189.925	-0.9398u	2.4117	2.0665
Sr 216.596	34.8727	35.3225	35.0884
Ti 334.941	0.0169	0.0252	0.0392
Tl 190.794	-0.0830u	2.0684	0.8001
V 292.401	-0.2074u	-0.2507u	-0.0898u
Zn 206.200	8.3280	7.8811	7.6304

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1096	ppb	0.0787	71.8	-22.4136
Al 308.215	236.439	ppb	1.8873	0.8	537.631
As 188.980	2.4321	ppb	3.9856	163.9	-9.6238
B 249.678	26.1686	ppb	0.2288	0.9	557.593
Ba 389.178	177.058	ppb	1.0448	0.6	4638.34
Be 313.042	0.1787	ppb	0.0009	0.5	-58.7116
Ca 370.602	3619	ppb	9.893	0.3	12716
Cd 226.502	0.0016	ppb	0.0986	6296.0	38.1478
Co 228.615	2.7550	ppb	0.0338	1.2	47.2427
Cr 267.716	-0.0216	ppb	0.0469	216.8	4.1369
Cu 324.754	0.6092	ppb	0.3169	52.0	327.904
Fe 271.441	7.4588	ppb	1.7524	23.5	47.4280
K 766.491	2258.27	ppb	7.0296	0.3	94933.9
Mg 279.078	2608.81	ppb	9.0404	0.3	6902.33
Mn 257.610	29.6732	ppb	0.2215	0.7	2261.02
Mo 202.032	0.0951	ppb	0.2680	281.7	18.1167
Na 330.237	12649.9	ppb	151.722	1.2	780.680
Ni 231.604	1.9006	ppb	0.2123	11.2	6.8293
Pb 220.353	1.2885	ppb	0.8355	64.8	33.0914
Sb 206.834	3.4751	ppb	0.6474	18.6	1.0110
Se 196.026	-0.4003	ppb	2.5394	634.4	10.8768
Sn 189.925	1.1795	ppb	1.8435	156.3	-15.2226
Sr 216.596	35.0945	ppb	0.2250	0.6	530.581
Ti 334.941	0.0271	ppb	0.0113	41.6	-23.0005
Tl 190.794	0.9285	ppb	1.0814	116.5	-18.9257
V 292.401	-0.1826	ppb	0.0833	45.6	-16.0203
Zn 206.200	7.9465	ppb	0.3534	4.4	22.3377

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680-90084-e-1-b (Samp) **5/16/2013, 7:10:19 PM** **Rack 1, Tube 40**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0177u	0.2954u	-0.1117u
Al 308.215	81.2412	83.3051	81.2001
As 188.980	8.5805	7.4206	8.2849
B 249.678	504.153	507.322	509.896
Ba 389.178	910.242	908.607	912.568
Be 313.042	0.0684	0.0626	0.0597
Ca 370.602	151264	150399	151771
Cd 226.502	-0.1395	-0.0574	-0.1694
Co 228.615	-0.1392u	0.2217	0.1859
Cr 267.716	3.9158	4.0202	3.8472
Cu 324.754	1.6298	2.1584	1.8644
Fe 271.441	5975.23	5980.79	6013.68
K 766.491	6759.53	6795.97	6812.22
Mg 279.078	54077.7	53965.5	54300.5
Mn 257.610	2488.93	2462.18	2458.44
Mo 202.032	0.3439	0.6638	0.0270u
Na 330.237	785879x	779217x	786521x
Ni 231.604	6.4458	5.3262	5.3687
Pb 220.353	-0.6171u	3.0287	2.8729
Sb 206.834	1.8219	0.5896	4.4400
Se 196.026	3.7542	3.8659	5.0659
Sn 189.925	-1.9833u	-1.5365u	-0.3405
Sr 216.596	3543.15	3527.15	3548.14
Ti 334.941	1.2730	1.2760	1.2782
Tl 190.794	-1.9038u	-1.0696u	-0.7425u
V 292.401	1.2762	1.4503	1.5451
Zn 206.200	103.361	104.871	104.287

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0553b	ppb	0.2131	385.2	-203.069
Al 308.215	81.9154b	ppb	1.2036	1.5	174.988
As 188.980	8.0953b	ppb	0.6027	7.4	-4.1414
B 249.678	507.124b	ppb	2.8768	0.6	8116.46
Ba 389.178	910.472b	ppb	1.9905	0.2	24100.7
Be 313.042	0.0636b	ppb	0.0044	7.0	-354.767
Ca 370.602	151145b	ppb	693.7	0.5	530147
Cd 226.502	-0.1221b	ppb	0.0580	47.5	52.1214
Co 228.615	0.0895b	ppb	0.1989	222.3	5.4961
Cr 267.716	3.9277b	ppb	0.0871	2.2	268.873
Cu 324.754	1.8842b	ppb	0.2648	14.1	396.095
Fe 271.441	5989.90b	ppb	20.7820	0.3	12426.5
K 766.491	6789.24b	ppb	26.9837	0.4	284848
Mg 279.078	54114.6b	ppb	170.498	0.3	142434
Mn 257.610	2469.85b	ppb	16.6238	0.7	176518
Mo 202.032	0.3449b	ppb	0.3184	92.3	19.9149
Na 330.237	783872xb	ppb	4044.39	0.5	43860.6
Ni 231.604	5.7136b	ppb	0.6345	11.1	20.6446
Pb 220.353	1.7615b	ppb	2.0614	117.0	34.8750
Sb 206.834	2.2838b	ppb	1.9663	86.1	-0.2272
Se 196.026	4.2286b	ppb	0.7272	17.2	14.6659
Sn 189.925	-1.2868b	ppb	0.8494	66.0	-17.5773
Sr 216.596	3539.48b	ppb	10.9657	0.3	51633.6
Ti 334.941	1.2757b	ppb	0.0026	0.2	606.587
Tl 190.794	-1.2386b	ppb	0.5988	48.3	-25.5213
V 292.401	1.4239b	ppb	0.1363	9.6	28.9975
Zn 206.200	104.173b	ppb	0.7615	0.7	210.596

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680-90084-e-2-b (Samp) 5/16/2013, 7:15:44 PM Rack 1, Tube 41
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0672u	-0.3293u	0.1438u
Al 308.215	26.2770	23.1106	28.0873
As 188.980	-6.8007u	-0.6794	2.7678
B 249.678	837.553	835.091	837.252
Ba 389.178	532.009	531.404	528.990
Be 313.042	0.0289	0.0244	0.0178
Ca 370.602	259849	260242	258438
Cd 226.502	0.1413	-0.1669u	-0.0368u
Co 228.615	-0.3296u	-0.2717u	0.4368
Cr 267.716	-0.1801	-0.3954	-0.2978
Cu 324.754	0.5306	0.3364	1.0503
Fe 271.441	418.233	425.400	418.164
K 766.491	8867.84	8855.66	8787.23
Mg 279.078	94432.1	93841.4	93712.2
Mn 257.610	5388.71	5365.47	5396.13
Mo 202.032	1.4515	1.5660	0.9559
Na 330.237	949064x	946305x	948329x
Ni 231.604	11.9224	13.4774	11.3328
Pb 220.353	5.0770	1.3205	2.3507
Sb 206.834	-0.3327u	-0.8041u	-1.0819u
Se 196.026	0.6814	6.4486	-1.6127
Sn 189.925	-1.3952u	2.3269	-1.1330u
Sr 216.596	5541.99x	5500.98x	5512.33x
Ti 334.941	-0.1704	-0.1614	-0.1704
Tl 190.794	7.3448u	7.5447u	9.9929
V 292.401	3.6737	3.8255	3.6947
Zn 206.200	141.401	140.994	143.482

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0395b	ppb	0.2539	643.5	-302.341
Al 308.215	25.8250b	ppb	2.5189	9.8	43.3625
As 188.980	-1.5708b	ppb	4.8461	308.5	-9.9868
B 249.678	836.632b	ppb	1.3428	0.2	13310.2
Ba 389.178	530.801b	ppb	1.5972	0.3	14219.7
Be 313.042	0.0237b	ppb	0.0056	23.6	-422.577
Ca 370.602	259510b	ppb	948.7	0.4	911150
Cd 226.502	-0.0208b	ppb	0.1548	744.9	33.6524
Co 228.615	-0.0549b	ppb	0.4267	777.9	3.4274
Cr 267.716	-0.2911b	ppb	0.1078	37.0	36.3683
Cu 324.754	0.6391b	ppb	0.3691	57.8	329.584
Fe 271.441	420.599b	ppb	4.1580	1.0	901.853
K 766.491	8836.91b	ppb	43.4543	0.5	370676
Mg 279.078	93995.2b	ppb	383.856	0.4	247353
Mn 257.610	5383.43b	ppb	15.9957	0.3	384518
Mo 202.032	1.3244b	ppb	0.3243	24.5	28.6988
Na 330.237	947899xb	ppb	1428.77	0.2	53025.1
Ni 231.604	12.2442b	ppb	1.1079	9.0	43.8613
Pb 220.353	2.9160b	ppb	1.9410	66.6	38.3534
Sb 206.834	-0.7395b	ppb	0.3787	51.2	-4.0984
Se 196.026	1.8391b	ppb	4.1535	225.8	14.0142
Sn 189.925	-0.0671b	ppb	2.0774	3094.9	-16.0514
Sr 216.596	5518.43xb	ppb	21.1743	0.4	80490.1
Ti 334.941	-0.1674b	ppb	0.0052	3.1	322.807
Tl 190.794	8.2941b	ppb	1.4746	17.8	-19.3696
V 292.401	3.7313b	ppb	0.0823	2.2	102.374
Zn 206.200	141.959b	ppb	1.3346	0.9	283.481

680-90084-e-3-b (Samp) **5/16/2013, 7:21:19 PM** **Rack 1, Tube 42**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0380u	0.1905u	-0.1507u
Al 308.215	26.5211	25.4498	21.3234
As 188.980	9.0761	0.0224	6.2292
B 249.678	1749.54	1754.21	1755.31
Ba 389.178	41.6708	42.6471	42.0426
Be 313.042	0.0136	0.0194	0.0198
Ca 370.602	318550	318336	317709
Cd 226.502	-0.0159u	0.2059	0.0471u
Co 228.615	0.6793	0.4552	0.8735
Cr 267.716	-0.1941	-0.0335	-0.3525
Cu 324.754	2.7106	2.7511	2.6363
Fe 271.441	144.444	146.763	143.740
K 766.491	19679.6	19722.0	19751.0
Mg 279.078	90039.1	89946.4	89833.4
Mn 257.610	216.593	216.380	215.536
Mo 202.032	3.1772	3.3189	3.7523
Na 330.237	1059279x	1062528x	1065127x
Ni 231.604	2.2882	3.9067	3.0087
Pb 220.353	3.8668	4.1135	1.4836
Sb 206.834	-2.6111u	0.8342	-0.3385u
Se 196.026	14.8062	12.3468	7.9758
Sn 189.925	-1.4561u	-2.0337u	-0.3708
Sr 216.596	6346.82x	6347.42x	6328.71x
Ti 334.941	-0.4993	-0.4965	-0.4771
Tl 190.794	-0.3937u	-4.9006u	-5.0896u
V 292.401	20.5215	20.3159	20.7945
Zn 206.200	142.370	138.815	140.010

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0006b	ppb	0.1738	29232.0	-369.869
Al 308.215	24.4314b	ppb	2.7444	11.2	40.0972
As 188.980	5.1092b	ppb	4.6296	90.6	-4.6769
B 249.678	1753.02b	ppb	3.0660	0.2	27730.7
Ba 389.178	42.1202b	ppb	0.4927	1.2	1347.81
Be 313.042	0.0176b	ppb	0.0035	19.8	-427.159
Ca 370.602	318198b	ppb	437.2	0.1	1117045
Cd 226.502	0.0790b	ppb	0.1143	144.6	36.5053
Co 228.615	0.6693b	ppb	0.2093	31.3	14.6142
Cr 267.716	-0.1934b	ppb	0.1595	82.5	17.1614
Cu 324.754	2.6993b	ppb	0.0582	2.2	436.608
Fe 271.441	144.982b	ppb	1.5815	1.1	331.802
K 766.491	19717.5b	ppb	35.8942	0.2	826735
Mg 279.078	89939.6b	ppb	103.035	0.1	236779
Mn 257.610	216.169b	ppb	0.5590	0.3	15788.8
Mo 202.032	3.4161b	ppb	0.2997	8.8	46.7389
Na 330.237	1062311xb	ppb	2929.77	0.3	59416.6
Ni 231.604	3.0679b	ppb	0.8109	26.4	11.0111
Pb 220.353	3.1547b	ppb	1.4524	46.0	37.3846
Sb 206.834	-0.7051b	ppb	1.7517	248.4	-4.1076
Se 196.026	11.7096b	ppb	3.4595	29.5	18.7137
Sn 189.925	-1.2869b	ppb	0.8443	65.6	-17.3506
Sr 216.596	6340.98xb	ppb	10.6314	0.2	92487.4
Ti 334.941	-0.4910b	ppb	0.0121	2.5	181.704
Tl 190.794	-3.4613b	ppb	2.6583	76.8	-24.0577
V 292.401	20.5440b	ppb	0.2401	1.2	641.245
Zn 206.200	140.399b	ppb	1.8991	1.3	280.405

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680-90084-e-4-b (Samp) **5/16/2013, 7:26:45 PM** **Rack 1, Tube 43**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0754u	-0.0691u	0.1355u
Al 308.215	1138.13	1139.84	1132.83
As 188.980	2.3696	4.9396	7.1178
B 249.678	532.399	531.794	530.849
Ba 389.178	109.259	109.137	108.384
Be 313.042	0.1448	0.1526	0.1504
Ca 370.602	254128	253660	252395
Cd 226.502	-0.0213	-0.0640	0.1411
Co 228.615	3.7418	3.9943	3.9141
Cr 267.716	83.6061	83.1563	83.2655
Cu 324.754	35.8960	36.0692	36.1028
Fe 271.441	1757.98	1758.86	1752.08
K 766.491	10193.5	10171.4	10154.9
Mg 279.078	42590.7	42509.0	42358.4
Mn 257.610	801.118	796.682	797.051
Mo 202.032	2.1313	2.0064	1.9862
Na 330.237	272640x	270523x	268575x
Ni 231.604	49.7441	48.6211	51.5717
Pb 220.353	9.1811	5.5866	9.6794
Sb 206.834	5.4523	-1.4077u	2.5545
Se 196.026	1.3357	5.6046	12.2031
Sn 189.925	-1.0869u	-0.5954u	1.1810
Sr 216.596	3719.83	3705.90	3699.64
Ti 334.941	11.8566	11.7737	11.7938
Tl 190.794	-2.6349u	-0.6503u	2.7852
V 292.401	43.9155	43.9763	43.8435
Zn 206.200	169.650	171.594	168.100

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0030b	ppb	0.1200	3987.4	-224.737
Al 308.215	1136.93b	ppb	3.6566	0.3	2650.86
As 188.980	4.8090b	ppb	2.3768	49.4	-5.5072
B 249.678	531.681b	ppb	0.7813	0.1	8509.50
Ba 389.178	108.927b	ppb	0.4737	0.4	2967.11
Be 313.042	0.1493b	ppb	0.0040	2.7	-61.0695
Ca 370.602	253394b	ppb	896.5	0.4	889426
Cd 226.502	0.0186b	ppb	0.1082	581.2	45.0079
Co 228.615	3.8834b	ppb	0.1290	3.3	65.4626
Cr 267.716	83.3426b	ppb	0.2346	0.3	4948.33
Cu 324.754	36.0227b	ppb	0.1110	0.3	2170.98
Fe 271.441	1756.30b	ppb	3.6849	0.2	3667.14
K 766.491	10173.3b	ppb	19.3349	0.2	426688
Mg 279.078	42486.0b	ppb	117.854	0.3	111855
Mn 257.610	798.284b	ppb	2.4615	0.3	57209.1
Mo 202.032	2.0413b	ppb	0.0786	3.9	34.7187
Na 330.237	270579xb	ppb	2032.68	0.8	15187.4
Ni 231.604	49.9790b	ppb	1.4892	3.0	178.953
Pb 220.353	8.1490b	ppb	2.2331	27.4	48.9462
Sb 206.834	2.1997b	ppb	3.4437	156.6	0.4722
Se 196.026	6.3811b	ppb	5.4752	85.8	15.4940
Sn 189.925	-0.1671b	ppb	1.1931	714.0	-16.4884
Sr 216.596	3708.46b	ppb	10.3374	0.3	54107.1
Ti 334.941	11.8080b	ppb	0.0432	0.4	4125.29
Tl 190.794	-0.1667b	ppb	2.7422	1645.3	-21.4600
V 292.401	43.9117b	ppb	0.0665	0.2	1393.49
Zn 206.200	169.781b	ppb	1.7508	351.0	337.548

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680-90084-e-5-b (Samp) **5/16/2013, 7:32:21 PM** **Rack 1, Tube 44**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.1463u	0.9630u	0.4477u
Al 308.215	27.5062	25.8690	26.1285
As 188.980	4.4098	1.2166	4.4277
B 249.678	1210.20	1198.99	1213.06
Ba 389.178	23.9244	23.5679	23.2433
Be 313.042	-0.0499u	-0.0539u	-0.0464u
Ca 370.602	512856	506631	514686
Cd 226.502	0.0293u	-0.1136u	-0.0188u
Co 228.615	0.6757	-0.0091u	-0.0212u
Cr 267.716	2.1965	2.3046	2.0133
Cu 324.754	2.6084	2.4997	2.4361
Fe 271.441	224.303	217.473	221.444
K 766.491	18878.7	18674.7	18688.3
Mg 279.078	117199	115811	116942
Mn 257.610	479.043	469.629	474.239
Mo 202.032	1.9454	2.5210	1.7676
Na 330.237	810745x	796484x	798982x
Ni 231.604	4.0120	3.4685	2.6988
Pb 220.353	2.3297	6.7445	1.9156
Sb 206.834	-2.2271u	-1.5052u	1.5011
Se 196.026	20.7779	21.0618	23.3365
Sn 189.925	0.3471	-6.1708u	-3.1230u
Sr 216.596	10901.1x	10747.1x	10888.0x
Ti 334.941	-0.7916	-0.7923	-0.7597
Tl 190.794	-1.8891u	-0.9848u	-4.7920u
V 292.401	21.1750	20.9219	20.6863
Zn 206.200	234.103	228.997	230.111

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8523b	ppb	0.3622	42.5	-535.821
Al 308.215	26.5013b	ppb	0.8800	3.3	44.8714
As 188.980	3.3514b	ppb	1.8488	55.2	-4.0459
B 249.678	1207.42b	ppb	7.4381	0.6	19145.1
Ba 389.178	23.5785b	ppb	0.3407	1.4	939.773
Be 313.042	-0.0501b	ppb	0.0038	7.5	-464.090
Ca 370.602	511391b	ppb	4223	0.8	1795251
Cd 226.502	-0.0344b	ppb	0.0727	211.4	33.6028
Co 228.615	0.2151b	ppb	0.3989	185.4	7.6176
Cr 267.716	2.1715b	ppb	0.1472	6.8	152.954
Cu 324.754	2.5147b	ppb	0.0871	3.5	426.980
Fe 271.441	221.073b	ppb	3.4304	1.6	489.181
K 766.491	18747.2b	ppb	114.085	0.6	786064
Mg 279.078	116651b	ppb	738.370	0.6	307086
Mn 257.610	474.304b	ppb	4.7070	1.0	34277.2
Mo 202.032	2.0780b	ppb	0.3938	19.0	35.1782
Na 330.237	802070xb	ppb	7615.55	0.9	44878.0
Ni 231.604	3.3931b	ppb	0.6598	19.4	12.1774
Pb 220.353	3.6633b	ppb	2.6764	73.1	38.6203
Sb 206.834	-0.7437b	ppb	1.9773	265.9	-4.1008
Se 196.026	21.7254b	ppb	1.4025	6.5	25.2264
Sn 189.925	-2.9823b	ppb	3.2612	109.4	-19.2891
Sr 216.596	10845.4xb	ppb	85.3713	0.8	158170
Ti 334.941	-0.7812b	ppb	0.0186	2.4	253.317
Tl 190.794	-2.5553b	ppb	1.9891	77.8	-23.4762
V 292.401	20.9277b	ppb	0.2444	1.2	656.490
Zn 206.200	231.070b	ppb	2.6849	1.2	457.058

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680-90084-e-6-b (Samp) **5/16/2013, 7:37:47 PM** **Rack 1, Tube 45**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.6242u	0.6498u	1.3866u
Al 308.215	26.5149	118.665	22.9031
As 188.980	-0.4122	17.9329	2.9281
B 249.678	781.568	806.492	778.193
Ba 389.178	43.5033	54.0361	44.3796
Be 313.042	-0.0689u	-0.1408u	-0.0697u
Ca 370.602	494377	677214	515074
Cd 226.502	-0.1700u	0.2433	-0.2188u
Co 228.615	0.4776	-0.0677u	0.8229
Cr 267.716	2.3666	3.2273	2.5943
Cu 324.754	0.9244	-2.2839u	0.4376
Fe 271.441	240.828	350.615	243.016
K 766.491	17014.5	27098.1	16639.9
Mg 279.078	122726	200175	127801
Mn 257.610	33.7946	47.3667	35.2321
Mo 202.032	0.3834	3.3087	0.9027
Na 330.237	556691x	755144x	553321x
Ni 231.604	3.9709	9.5805	3.8449
Pb 220.353	3.4599	8.6838	-0.1721u
Sb 206.834	-1.8127u	0.9191	6.0089
Se 196.026	27.6348	47.4320	32.5057
Sn 189.925	-1.6276u	-1.0001u	-0.2034
Sr 216.596	8092.97x	12654.5x	8570.80x
Ti 334.941	-1.3782	-0.7333	-1.3317
Tl 190.794	-0.9965u	-14.3821u	-5.2078u
V 292.401	17.2432	20.6982	17.7171
Zn 206.200	291.555	634.938	323.984

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.2202b	ppb	0.5081	41.6	-448.359
Al 308.215	56.0277b	ppb	54.2755	96.9	114.159
As 188.980	6.8162b	ppb	9.7711	143.4	-1.2566
B 249.678	788.751b	ppb	15.4568	2.0	12557.0
Ba 389.178	47.3063b	ppb	5.8446	12.4	1663.18
Be 313.042	-0.0931b	ppb	0.0413	44.3	-522.435
Ca 370.602	562222b	ppb	100122	17.8	1973673
Cd 226.502	-0.0485b	ppb	0.2539	523.7	34.9542
Co 228.615	0.4109b	ppb	0.4490	109.3	10.6993
Cr 267.716	2.7294b	ppb	0.4460	16.3	179.894
Cu 324.754	-0.3073b	ppb	1.7290	562.7	280.146
Fe 271.441	278.153b	ppb	62.7634	22.6	607.317
K 766.491	20250.8b	ppb	5932.89	29.3	849087
Mg 279.078	150234b	ppb	43324.8	28.8	395495
Mn 257.610	38.7978b	ppb	7.4556	19.2	3285.29
Mo 202.032	1.5316b	ppb	1.5607	101.9	30.4623
Na 330.237	621719xb	ppb	115562	18.6	34801.6
Ni 231.604	5.7988b	ppb	3.2757	56.5	20.7892
Pb 220.353	3.9905b	ppb	4.4517	111.6	39.2381
Sb 206.834	1.7051b	ppb	3.9696	232.8	-1.1198
Se 196.026	35.8575b	ppb	10.3154	28.8	34.1608
Sn 189.925	-0.9437b	ppb	0.7138	75.6	-17.0379
Sr 216.596	9772.77xb	ppb	2507.10	25.7	142540
Ti 334.941	-1.1477b	ppb	0.3597	31.3	326.836
Tl 190.794	-6.8622b	ppb	6.8444	99.7	-27.5170
V 292.401	18.5528b	ppb	1.8730	10.1	582.316
Zn 206.200	416.826b	ppb	189.585	45.5	818.961

680-90084-e-7-b (Samp) **5/16/2013, 7:43:13 PM** **Rack 1, Tube 46**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0387u	-0.3454u	-0.3066u
Al 308.215	89.3928	86.6350	93.0635
As 188.980	32.7951	35.5304	24.2651
B 249.678	1587.51	1591.59	1600.50
Ba 389.178	115.310	114.949	115.938
Be 313.042	0.0668	0.0689	0.0682
Ca 370.602	98125	98368	98882
Cd 226.502	-0.0314u	0.0325u	-0.0406u
Co 228.615	1.4428	1.3618	0.7774
Cr 267.716	1.9512	2.0480	1.9160
Cu 324.754	0.9587	0.8507	1.0916
Fe 271.441	721.312	730.853	726.833
K 766.491	8562.87	8539.74	8572.09
Mg 279.078	30840.5	30918.2	31030.3
Mn 257.610	1821.25	1825.18	1823.39
Mo 202.032	14.8517	15.3877	16.2720
Na 330.237	1117223x	1118145x	1116239x
Ni 231.604	5.2532	4.3216	4.2102
Pb 220.353	2.3997	0.8030	2.9776
Sb 206.834	-0.5145u	2.8809	2.0367
Se 196.026	9.2187	3.8322	14.2332
Sn 189.925	-0.9893u	-1.8974u	-1.9457u
Sr 216.596	2267.35	2269.06	2300.39
Ti 334.941	1.1143	1.0973	1.1541
Tl 190.794	3.4664	0.0740u	-1.1462u
V 292.401	2.2214	2.0880	1.9461
Zn 206.200	218.532	217.990	220.323

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2044b	ppb	0.2115	103.4	-161.168
Al 308.215	89.6971b	ppb	3.2250	3.6	194.052
As 188.980	30.8635b	ppb	5.8758	19.0	11.5121
B 249.678	1593.20b	ppb	6.6434	0.4	25215.0
Ba 389.178	115.399b	ppb	0.5004	0.4	3101.34
Be 313.042	0.0680b	ppb	0.0011	1.6	-410.982
Ca 370.602	98459b	ppb	386.5	0.4	345644
Cd 226.502	-0.0132b	ppb	0.0398	302.4	33.0391
Co 228.615	1.1940b	ppb	0.3631	30.4	22.2488
Cr 267.716	1.9717b	ppb	0.0684	3.5	155.414
Cu 324.754	0.9670b	ppb	0.1207	12.5	347.166
Fe 271.441	726.333b	ppb	4.7902	0.7	1534.74
K 766.491	8558.23b	ppb	16.6661	0.2	358995
Mg 279.078	30929.7b	ppb	95.4534	0.3	81415.5
Mn 257.610	1823.27b	ppb	1.9629	0.1	130317
Mo 202.032	15.5038b	ppb	0.7173	4.6	151.122
Na 330.237	1117202xb	ppb	953.044	0.1	62482.1
Ni 231.604	4.5950b	ppb	0.5727	12.5	16.4932
Pb 220.353	2.0601b	ppb	1.1264	54.7	35.3471
Sb 206.834	1.4677b	ppb	1.7678	120.4	-1.6275
Se 196.026	9.0947b	ppb	5.2016	57.2	17.5543
Sn 189.925	-1.6108b	ppb	0.5388	33.5	-17.8186
Sr 216.596	2278.94b	ppb	18.6030	0.8	33249.1
Ti 334.941	1.1219b	ppb	0.0291	2.6	398.075
Tl 190.794	0.7981b	ppb	2.3900	299.5	-22.0089
V 292.401	2.0852b	ppb	0.1377	6.6	43.6401
Zn 206.200	218.949b	ppb	1.2211	0.6	432.508

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680-90084-e-8-b (Samp) 5/16/2013, 7:48:39 PM Rack 1, Tube 47
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1731u	-0.0130u	0.1457u
Al 308.215	105.801	103.391	107.628
As 188.980	9.8968	8.0017	15.0901
B 249.678	534.887	535.225	533.265
Ba 389.178	1385.23	1389.07	1383.77
Be 313.042	0.0716	0.0677	0.0670
Ca 370.602	160229	161663	160272
Cd 226.502	0.1203	0.0477	0.0149
Co 228.615	0.0152	-0.3203u	-0.3648u
Cr 267.716	2.4077	2.4787	2.2953
Cu 324.754	1.0253	1.2240	1.0420
Fe 271.441	6927.90	6950.92	6926.16
K 766.491	6810.73	6821.89	6783.14
Mg 279.078	57004.6	57114.7	56923.1
Mn 257.610	2619.57	2617.83	2604.16
Mo 202.032	0.2578	0.7899	0.4573
Na 330.237	778394x	772642x	765933x
Ni 231.604	5.5515	5.9056	6.8599
Pb 220.353	2.9777	2.6602	1.1732
Sb 206.834	-1.2952u	-2.1508u	-4.2267u
Se 196.026	13.2087	6.0447	6.3886
Sn 189.925	1.1456	-1.8781u	0.5243
Sr 216.596	3741.00	3754.75	3736.67
Ti 334.941	1.7135	1.6458	1.6144
Tl 190.794	1.1975u	-0.0865u	3.0201u
V 292.401	1.7172	1.9042	1.4957
Zn 206.200	284.706	286.592	282.674

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1019b	ppb	0.1005	98.6	-208.697
Al 308.215	105.607b	ppb	2.1254	2.0	230.583
As 188.980	10.9962b	ppb	3.6698	33.4	-1.9898
B 249.678	534.459b	ppb	1.0479	0.2	8545.12
Ba 389.178	1386.02b	ppb	2.7377	0.2	36624.6
Be 313.042	0.0688b	ppb	0.0025	3.7	-338.894
Ca 370.602	160721b	ppb	815.8	0.5	563686
Cd 226.502	0.0609b	ppb	0.0539	88.5	65.0449
Co 228.615	-0.2233b	ppb	0.2077	93.0	0.5904
Cr 267.716	2.3939b	ppb	0.0925	3.9	178.897
Cu 324.754	1.0971b	ppb	0.1102	10.0	355.420
Fe 271.441	6934.99b	ppb	13.8172	0.2	14382.1
K 766.491	6805.25b	ppb	19.9482	0.3	285520
Mg 279.078	57014.1b	ppb	96.1401	0.2	150064
Mn 257.610	2613.85b	ppb	8.4401	0.3	186802
Mo 202.032	0.5017b	ppb	0.2688	53.6	21.2117
Na 330.237	772323xb	ppb	6236.36	0.8	43213.6
Ni 231.604	6.1056b	ppb	0.6768	11.1	22.0747
Pb 220.353	2.2703b	ppb	0.9634	42.4	36.0775
Sb 206.834	-2.5576b	ppb	1.5075	58.9	-6.0800
Se 196.026	8.5474b	ppb	4.0405	47.3	17.4932
Sn 189.925	-0.0694b	ppb	1.5969	2301.1	-16.1943
Sr 216.596	3744.14b	ppb	9.4386	0.3	54618.3
Ti 334.941	1.6579b	ppb	0.0506	3.1	751.701
Tl 190.794	1.3770b	ppb	1.5610	113.4	-22.9375
V 292.401	1.7057b	ppb	0.2045	12.0	38.3396
Zn 206.200	284.657b	ppb	1.9598	0.7	562.357

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660-54244-h-1-a (Samp) 5/16/2013, 7:54:05 PM Rack 1, Tube 48
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1060u	0.2598	-0.2721u
Al 308.215	76.1687	74.2622	64.6181
As 188.980	1283.21	1285.49	1283.47
B 249.678	184.044	183.567	184.042
Ba 389.178	-2.1383u	-2.5605u	-1.8871u
Be 313.042	0.0074	0.0091	0.0022
Ca 370.602	45785	45659	45690
Cd 226.502	-0.1672	0.1399	-0.2023
Co 228.615	0.2647	0.1540	0.1358
Cr 267.716	0.2248	0.3156	0.3445
Cu 324.754	2.8506	2.3981	2.0258
Fe 271.441	16088.7	16053.1	16059.4
K 766.491	11936.2	11911.7	11904.1
Mg 279.078	7820.71	7825.32	7831.11
Mn 257.610	115.858	117.115	116.643
Mo 202.032	0.1028u	-0.1439u	0.2078
Na 330.237	12553.6	12661.2	12369.8
Ni 231.604	2.7991	2.0419	2.4856
Pb 220.353	-0.1900u	1.4990	2.0321
Sb 206.834	-1.7469u	-3.3263u	-1.1740u
Se 196.026	-2.6858u	1.2855	0.3656
Sn 189.925	-0.8791u	0.8793	-1.5872u
Sr 216.596	1.9698	2.3487	2.5619
Ti 334.941	0.3076	0.3652	0.3387
Tl 190.794	-2.6526u	0.7486u	1.2066
V 292.401	0.3382	-0.0266u	0.2471
Zn 206.200	5.7513	5.8444	6.2998

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0394	ppb	0.2721	690.5	-33.6825
Al 308.215	71.6830	ppb	6.1922	8.6	150.954
As 188.980	1284.06	ppb	1.2494	0.1	902.405
B 249.678	183.884	ppb	0.2749	0.1	3014.29
Ba 389.178	-2.1953	ppb	0.3403	15.5	-37.2904
Be 313.042	0.0063	ppb	0.0036	57.6	-419.182
Ca 370.602	45711	ppb	65.69	0.1	159049
Cd 226.502	-0.0765	ppb	0.1882	245.9	100.483
Co 228.615	0.1848	ppb	0.0698	37.7	6.4748
Cr 267.716	0.2950	ppb	0.0624	21.2	27.9897
Cu 324.754	2.4248	ppb	0.4131	17.0	427.323
Fe 271.441	16067.0	ppb	19.0281	0.1	33279.2
K 766.491	11917.4	ppb	16.7673	0.1	499792
Mg 279.078	7825.72	ppb	5.2090	0.1	20636.7
Mn 257.610	116.539	ppb	0.6350	0.5	8486.31
Mo 202.032	0.0556	ppb	0.1805	324.8	16.8195
Na 330.237	12528.2	ppb	147.364	1.2	768.677
Ni 231.604	2.4422	ppb	0.3805	15.6	9.2200
Pb 220.353	1.1137	ppb	1.1601	104.2	32.7160
Sb 206.834	-2.0824	ppb	1.1147	53.5	-5.2774
Se 196.026	-0.3449	ppb	2.0788	602.7	11.0620
Sn 189.925	-0.5290	ppb	1.2700	240.1	-17.1404
Sr 216.596	2.2935	ppb	0.2999	13.1	67.1383
Ti 334.941	0.3372	ppb	0.0288	8.5	111.635
Tl 190.794	-0.2324	ppb	2.1084	907.1	-21.2462
V 292.401	0.1862	ppb	0.1899	101.9	-4.1250
Zn 206.200	5.9651	ppb	0.2935	4.9	20.6305

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660-54244-h-2-a (Samp) 5/16/2013, 8:10:18 PM Rack 1, Tube 51
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6822u	-0.8704u	0.0831
Al 308.215	278.593	274.820	276.245
As 188.980	5.9649	5.1391	2.0668
B 249.678	16.4986	16.4868	17.0110
Ba 389.178	1.4569	1.8208	2.2612
Be 313.042	0.0514	0.0552	0.0590
Ca 370.602	42919	43086	43131
Cd 226.502	3.2709	3.2912	3.1907
Co 228.615	0.0735	0.3424	0.2582
Cr 267.716	2.8526	3.0967	3.1085
Cu 324.754	-0.2501u	-0.5202u	-0.4140u
Fe 271.441	1097.75	1098.21	1101.38
K 766.491	886.443	883.824	885.374
Mg 279.078	16437.9	16433.5	16483.4
Mn 257.610	27.1524	26.9161	26.9055
Mo 202.032	0.1652	0.5974	0.2965
Na 330.237	4147.91	3992.92	4216.16
Ni 231.604	1.1962	1.5050	2.0901
Pb 220.353	3.9562	0.8343	1.3861
Sb 206.834	-2.3237u	1.0569	-0.6202u
Se 196.026	0.0943	2.0093	-2.6460u
Sn 189.925	-0.0972u	-0.1453u	0.2600
Sr 216.596	42.1683	42.4936	42.0027
Ti 334.941	4.8200	4.6387	4.5663
Tl 190.794	-2.3124u	2.6968	3.9917
V 292.401	12.9920	13.3284	13.1514
Zn 206.200	2.3264	4.0167	1.9722

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4898	ppb	0.5050	103.1	-76.3143
Al 308.215	276.553	ppb	1.9055	0.7	631.702
As 188.980	4.3903	ppb	2.0541	46.8	-7.8417
B 249.678	16.6655	ppb	0.2993	1.8	406.341
Ba 389.178	1.8463	ppb	0.4028	21.8	70.7986
Be 313.042	0.0552	ppb	0.0038	6.9	-312.055
Ca 370.602	43045	ppb	111.9	0.3	151027
Cd 226.502	3.2509	ppb	0.0531	1.6	200.883
Co 228.615	0.2247	ppb	0.1376	61.2	7.9280
Cr 267.716	3.0192	ppb	0.1445	4.8	184.071
Cu 324.754	-0.3948	ppb	0.1361	34.5	275.866
Fe 271.441	1099.11	ppb	1.9752	0.2	2306.05
K 766.491	885.214	ppb	1.3167	0.1	37382.8
Mg 279.078	16451.6	ppb	27.6423	0.2	43341.0
Mn 257.610	26.9913	ppb	0.1396	0.5	2105.72
Mo 202.032	0.3530	ppb	0.2216	62.8	20.2487
Na 330.237	4119.00	ppb	114.394	2.8	303.767
Ni 231.604	1.5971	ppb	0.4540	28.4	5.7738
Pb 220.353	2.0589	ppb	1.6661	80.9	34.8418
Sb 206.834	-0.6290	ppb	1.6903	268.7	-3.9006
Se 196.026	-0.1808	ppb	2.3398	1294.1	11.0252
Sn 189.925	0.0058	ppb	0.2214	3795.6	-16.5375
Sr 216.596	42.2215	ppb	0.2497	0.6	640.525
Ti 334.941	4.6750	ppb	0.1307	2.8	1613.54
Tl 190.794	1.4587	ppb	3.3294	228.2	-18.3945
V 292.401	13.1573	ppb	0.1683	1.3	412.875
Zn 206.200	2.7718	ppb	1.0926	39.4	12.3910

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660-54244-h-3-a (Samp) 5/16/2013, 8:15:42 PM Rack 1, Tube 52
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1448u	-0.2566u	-0.3067u
Al 308.215	151.862	148.779	148.968
As 188.980	10.9261	18.2968	20.9152
B 249.678	225.109	226.170	226.730
Ba 389.178	8.5797	8.7914	8.9759
Be 313.042	-0.0070	-0.0010	-0.0083
Ca 370.602	76568	76749	76296
Cd 226.502	7.8065	7.6953	7.9339
Co 228.615	8.3400	8.8041	8.4987
Cr 267.716	0.3270	0.2527	0.4212
Cu 324.754	0.3796	0.6398	0.7653
Fe 271.441	46.0176	41.8224	38.2920
K 766.491	5980.04	5990.28	5987.16
Mg 279.078	16227.0	16264.0	16194.3
Mn 257.610	284.811	284.845	286.497
Mo 202.032	0.0819	0.0937	0.1291
Na 330.237	29181.5	29024.7	28822.1
Ni 231.604	22.9890	24.1237	23.1826
Pb 220.353	1.0275	-1.1601u	1.5429
Sb 206.834	1.7108	0.9708	-2.7703u
Se 196.026	-0.4825u	-3.8686u	-5.3562u
Sn 189.925	-1.2170u	-2.0636u	-0.2730u
Sr 216.596	49.3454	49.1987	49.0450
Ti 334.941	0.4703	0.5516	0.5478
Tl 190.794	0.5719	1.9327	1.2605
V 292.401	5.3138	5.3466	5.0951
Zn 206.200	42.0411	42.4999	42.3596

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2360	ppb	0.0829	35.1	-52.8974
Al 308.215	149.870	ppb	1.7281	1.2	334.431
As 188.980	16.7127	ppb	5.1796	31.0	1.2451
B 249.678	226.003	ppb	0.8232	0.4	3702.10
Ba 389.178	8.7823	ppb	0.1983	2.3	250.921
Be 313.042	-0.0054	ppb	0.0039	72.4	-434.035
Ca 370.602	76538	ppb	227.7	0.3	268704
Cd 226.502	7.8119	ppb	0.1194	1.5	418.055
Co 228.615	8.5476	ppb	0.2359	2.8	137.526
Cr 267.716	0.3336	ppb	0.0844	25.3	26.7198
Cu 324.754	0.5949	ppb	0.1967	33.1	327.122
Fe 271.441	42.0440	ppb	3.8675	9.2	120.129
K 766.491	5985.83	ppb	5.2513	0.1	251174
Mg 279.078	16228.5	ppb	34.8743	0.2	42748.2
Mn 257.610	285.384	ppb	0.9639	0.3	20542.4
Mo 202.032	0.1016	ppb	0.0246	24.2	18.1583
Na 330.237	29009.4	ppb	180.191	0.6	1694.27
Ni 231.604	23.4318	ppb	0.6070	2.6	83.8911
Pb 220.353	0.4701	ppb	1.4351	305.3	31.2978
Sb 206.834	-0.0295	ppb	2.4022	8133.3	-3.2344
Se 196.026	-3.2358	ppb	2.4977	77.2	9.1383
Sn 189.925	-1.1845	ppb	0.8957	75.6	-17.8591
Sr 216.596	49.1964	ppb	0.1502	0.3	745.730
Ti 334.941	0.5233	ppb	0.0459	8.8	216.080
Tl 190.794	1.2550	ppb	0.6804	54.2	-18.9720
V 292.401	5.2518	ppb	0.1367	2.6	158.647
Zn 206.200	42.3002	ppb	0.2351	0.6	89.2699

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660-54244-h-4-a (Samp) 5/16/2013, 8:21:06 PM Rack 1, Tube 53
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8920	0.1689	0.3449
Al 308.215	271.428	272.478	267.460
As 188.980	3.9726	0.4956	5.7409
B 249.678	31.4250	31.6073	31.3255
Ba 389.178	8.9298	8.8747	8.6260
Be 313.042	0.0176	0.0184	0.0125
Ca 370.602	60952	61050	60839
Cd 226.502	0.2877	0.1262	0.2835
Co 228.615	0.4694	0.2490	-0.2049u
Cr 267.716	1.7470	1.7654	1.6420
Cu 324.754	0.1476	-0.3207u	-0.0028u
Fe 271.441	181.589	177.326	171.602
K 766.491	1598.95	1598.33	1596.74
Mg 279.078	28040.2	28074.8	28026.2
Mn 257.610	70.4175	70.0529	70.0154
Mo 202.032	3.7599	3.4378	3.5050
Na 330.237	8534.29	8383.04	8404.80
Ni 231.604	0.6099	-0.1715u	1.2110
Pb 220.353	-1.4552u	1.6847	1.4212
Sb 206.834	1.2471	-4.6338u	-3.9882u
Se 196.026	5.8749	6.3621	2.5142
Sn 189.925	-2.8321u	0.5477	-2.1500u
Sr 216.596	68.9546	68.9798	69.4269
Ti 334.941	2.7043	3.1694	2.8706
Tl 190.794	-0.1706u	2.6748	-1.9454u
V 292.401	17.4506	17.4297	17.8415
Zn 206.200	1.2391	-0.0108u	1.2735

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4686	ppb	0.3771	80.5	7.4128
Al 308.215	270.455	ppb	2.6467	1.0	617.541
As 188.980	3.4030	ppb	2.6686	78.4	-8.3749
B 249.678	31.4526	ppb	0.1429	0.5	640.477
Ba 389.178	8.8101	ppb	0.1619	1.8	287.135
Be 313.042	0.0162	ppb	0.0032	20.0	-391.891
Ca 370.602	60947	ppb	105.6	0.2	213955
Cd 226.502	0.2325	ppb	0.0920	39.6	50.5066
Co 228.615	0.1712	ppb	0.3438	200.8	6.9263
Cr 267.716	1.7181	ppb	0.0666	3.9	107.093
Cu 324.754	-0.0587	ppb	0.2391	407.6	293.123
Fe 271.441	176.839	ppb	5.0110	2.8	397.612
K 766.491	1598.01	ppb	1.1357	0.1	67259.3
Mg 279.078	28047.1	ppb	25.0274	0.1	73862.6
Mn 257.610	70.1619	ppb	0.2221	0.3	5214.79
Mo 202.032	3.5676	ppb	0.1699	4.8	48.0512
Na 330.237	8440.71	ppb	81.7692	1.0	545.519
Ni 231.604	0.5498	ppb	0.6932	126.1	1.9995
Pb 220.353	0.5502	ppb	1.7417	316.5	31.4158
Sb 206.834	-2.4583	ppb	3.2251	131.2	-6.2127
Se 196.026	4.9171	ppb	2.0952	42.6	14.3052
Sn 189.925	-1.4782	ppb	1.7873	120.9	-18.2115
Sr 216.596	69.1204	ppb	0.2657	0.4	1034.40
Ti 334.941	2.9148	ppb	0.2357	8.1	1085.03
Tl 190.794	0.1863	ppb	2.3307	1251.1	-19.8111
V 292.401	17.5740	ppb	0.2320	1.3	554.281
Zn 206.200	0.8339	ppb	0.7318	87.7	84.4965

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mb 680-276285/1-a (Samp) **5/16/2013, 8:26:42 PM** **Rack 1, Tube 54**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0524	0.1433	0.2298
Al 308.215	-2.6146u	1.4357	3.5618
As 188.980	-0.7320u	1.1800	-4.8235u
B 249.678	1.1464	1.8337	1.0364
Ba 389.178	-0.1804u	-0.1729u	0.0986
Be 313.042	0.0144	0.0091	0.0169
Ca 370.602	1.226	1.101	0.5270
Cd 226.502	-0.0902u	-0.2163u	-0.1007u
Co 228.615	0.0194	0.2853	0.0313
Cr 267.716	-0.2371u	0.1466	-0.0955u
Cu 324.754	-0.2656u	-0.3749u	-0.6779u
Fe 271.441	0.2257	-0.0727u	-1.3068u
K 766.491	-0.0760u	-0.2668u	-0.7468u
Mg 279.078	-0.1600u	-0.6232u	0.6609
Mn 257.610	-0.1006u	-0.1031u	-0.0210u
Mo 202.032	0.1514	0.1181	-0.1809u
Na 330.237	-63.9771u	-180.669u	-60.2931u
Ni 231.604	-0.2932u	-1.4556u	-1.7558u
Pb 220.353	1.9277	0.0856	1.1131
Sb 206.834	0.1577	-0.4873u	3.5103
Se 196.026	-0.0236u	-2.5755u	-2.6068u
Sn 189.925	-0.2383u	-0.3639u	0.3186
Sr 216.596	-0.4166u	0.1376	0.2500
Ti 334.941	-0.0767u	-0.0879u	-0.0332u
Tl 190.794	3.5343	1.0168	2.8729
V 292.401	-0.2161u	-0.1916u	0.1234
Zn 206.200	-0.5804u	-1.3305u	0.3375

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1418	ppb	0.0887	62.5	-17.7686
Al 308.215	0.7943	ppb	3.1377	395.0	-15.4227
As 188.980	-1.4585	ppb	3.0670	210.3	-12.4263
B 249.678	1.3389	ppb	0.4321	32.3	166.888
Ba 389.178	-0.0849	ppb	0.1590	187.2	-30.8690
Be 313.042	0.0134	ppb	0.0040	29.6	-418.553
Ca 370.602	0.9514	ppb	0.3728	39.2	15.82
Cd 226.502	-0.1357	ppb	0.0700	51.6	31.4763
Co 228.615	0.1120	ppb	0.1502	134.1	6.0510
Cr 267.716	-0.0620	ppb	0.1940	312.9	1.3125
Cu 324.754	-0.4395	ppb	0.2136	48.6	273.328
Fe 271.441	-0.3846	ppb	0.8125	211.2	30.7055
K 766.491	-0.3632	ppb	0.3456	95.2	264.070
Mg 279.078	-0.0408	ppb	0.6503	1594.8	35.7553
Mn 257.610	-0.0749	ppb	0.0467	62.4	131.706
Mo 202.032	0.0295	ppb	0.1830	620.4	17.5506
Na 330.237	-101.646	ppb	68.4602	67.4	68.4172
Ni 231.604	-1.1682	ppb	0.7725	66.1	-4.1543
Pb 220.353	1.0421	ppb	0.9231	88.6	32.5173
Sb 206.834	1.0602	ppb	2.1462	202.4	-1.9156
Se 196.026	-1.7353	ppb	1.4825	85.4	10.0101
Sn 189.925	-0.0945	ppb	0.3633	384.2	-16.6783
Sr 216.596	-0.0096	ppb	0.3569	3701.1	18.4728
Ti 334.941	-0.0660	ppb	0.0289	43.8	-67.2671
Tl 190.794	2.4746	ppb	1.3051	52.7	-17.1788
V 292.401	-0.0948	ppb	0.1893	199.8	-13.1156
Zn 206.200	-0.5245	ppb	0.8355	159.3	5.8329

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ics 680-276285/2-a (Samp) 5/16/2013, 8:32:07 PM Rack 1, Tube 55
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	48.1974	47.8460	47.8480
Al 308.215	4655.82	4661.59	4726.57
As 188.980	103.456	107.544	107.233
B 249.678	185.577	186.846	187.772
Ba 389.178	95.5291	96.3555	96.5059
Be 313.042	48.7691	48.7539	49.0732
Ca 370.602	4708	4710	4755
Cd 226.502	49.0642	49.0209	49.5242
Co 228.615	49.1231	49.3542	49.4431
Cr 267.716	98.8941	98.6272	99.4278
Cu 324.754	99.0420	96.7729	96.6425
Fe 271.441	4722.01	4732.99	4765.38
K 766.491	4870.73	4871.29	4874.27
Mg 279.078	4774.05	4776.38	4814.87
Mn 257.610	509.800	508.180	505.873
Mo 202.032	99.4571	99.0792	100.666
Na 330.237	4535.03	4601.46	4724.21
Ni 231.604	95.7355	95.1969	96.0217
Pb 220.353	49.6428	49.5940	49.3341
Sb 206.834	45.7435	48.5888	48.5032
Se 196.026	99.0935	93.1102	96.9668
Sn 189.925	191.376	194.785	194.080
Sr 216.596	98.2157	97.6494	98.8411
Ti 334.941	94.2291	94.0599	94.5693
Tl 190.794	40.4310	42.1253	40.7264
V 292.401	96.2548	96.4988	97.1030
Zn 206.200	98.0119	99.9913	98.7552

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.9638	ppb	0.2023	0.4	4229.21
Al 308.215	4681.33	ppb	39.2903	0.8	10974.4
As 188.980	106.078	ppb	2.2756	2.1	64.0923
B 249.678	186.732	ppb	1.1020	0.6	3076.77
Ba 389.178	96.1302	ppb	0.5259	0.5	2523.70
Be 313.042	48.8654	ppb	0.1801	0.4	106069
Ca 370.602	4724	ppb	26.40	0.6	16208
Cd 226.502	49.2031	ppb	0.2789	0.6	2449.47
Co 228.615	49.3068	ppb	0.1652	0.3	771.471
Cr 267.716	98.9830	ppb	0.4077	0.4	5866.72
Cu 324.754	97.4858	ppb	1.3493	1.4	5372.74
Fe 271.441	4740.13	ppb	22.5481	0.5	9850.70
K 766.491	4872.10	ppb	1.9041	0.0	204492
Mg 279.078	4788.43	ppb	22.9231	0.5	12629.8
Mn 257.610	507.951	ppb	1.9734	0.4	36398.9
Mo 202.032	99.7341	ppb	0.8289	0.8	877.991
Na 330.237	4620.23	ppb	95.9795	2.1	329.048
Ni 231.604	95.6514	ppb	0.4188	0.4	342.502
Pb 220.353	49.5236	ppb	0.1659	0.3	142.860
Sb 206.834	47.6118	ppb	1.6186	3.4	54.6275
Se 196.026	96.3901	ppb	3.0331	3.1	73.2049
Sn 189.925	193.414	ppb	1.7993	0.9	203.215
Sr 216.596	98.2354	ppb	0.5961	0.6	1446.62
Ti 334.941	94.2861	ppb	0.2595	0.3	31635.2
Tl 190.794	41.0942	ppb	0.9051	2.2	24.2332
V 292.401	96.6189	ppb	0.4367	0.5	3067.56
Zn 206.200	98.9194	ppb	0.9999	1.0	199.833

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680-90039-b-9-a (Samp) 5/16/2013, 8:37:32 PM Rack 1, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1977u	0.1246u	0.3084u
Al 308.215	5.4024	7.9779	8.0856
As 188.980	-0.4718	-3.7838u	-5.7060u
B 249.678	35.4368	35.2597	34.9463
Ba 389.178	27.9453	27.2721	27.7795
Be 313.042	-0.0050	-0.0033	-0.0040
Ca 370.602	67549	67544	67508
Cd 226.502	-0.1301u	0.0200	-0.0755u
Co 228.615	0.1067	-0.0381u	0.0545
Cr 267.716	0.2046	0.2481	0.1437
Cu 324.754	0.2558	0.7501	0.9213
Fe 271.441	48.6444	54.7293	49.2811
K 766.491	2391.55	2400.43	2395.38
Mg 279.078	36907.4	36894.3	36815.2
Mn 257.610	0.9250	1.0703	1.0848
Mo 202.032	0.1528	0.0847	-0.0246u
Na 330.237	23835.5	23917.5	23864.7
Ni 231.604	-0.0786u	-0.2619u	0.3440
Pb 220.353	1.5045	2.2098	-0.5334u
Sb 206.834	-0.9630u	1.3105	0.3298
Se 196.026	1.7411	-0.3795u	-0.2090u
Sn 189.925	-0.5404u	-1.6188u	1.1435
Sr 216.596	662.404	660.415	661.899
Ti 334.941	-0.4005	-0.3984	-0.4513
Tl 190.794	1.4737	-0.9281u	2.1490
V 292.401	-0.0028	-0.5947u	-0.3759u
Zn 206.200	1.2347	1.9682	1.7468

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2102	ppb	0.0925	44.0	-48.0231
Al 308.215	7.1553	ppb	1.5190	21.2	-0.4837
As 188.980	-3.3205	ppb	2.6477	79.7	-13.0896
B 249.678	35.2143	ppb	0.2484	0.7	699.864
Ba 389.178	27.6657	ppb	0.3508	1.3	809.437
Be 313.042	-0.0041	ppb	0.0008	20.2	-434.381
Ca 370.602	67534	ppb	21.89	0.0	237085
Cd 226.502	-0.0619	ppb	0.0760	122.8	35.7312
Co 228.615	0.0410	ppb	0.0734	178.8	4.9472
Cr 267.716	0.1988	ppb	0.0524	26.4	17.2874
Cu 324.754	0.6424	ppb	0.3456	53.8	329.654
Fe 271.441	50.8849	ppb	3.3445	6.6	136.785
K 766.491	2395.78	ppb	4.4557	0.2	100698
Mg 279.078	36872.3	ppb	49.8638	0.1	97094.6
Mn 257.610	1.0267	ppb	0.0884	8.6	303.790
Mo 202.032	0.0710	ppb	0.0895	126.1	17.9057
Na 330.237	23872.6	ppb	41.5633	0.2	1407.65
Ni 231.604	0.0012	ppb	0.3107	26949.7	0.0323
Pb 220.353	1.0603	ppb	1.4245	134.4	32.5590
Sb 206.834	0.2258	ppb	1.1403	505.1	-2.9244
Se 196.026	0.3842	ppb	1.1782	306.7	11.3720
Sn 189.925	-0.3386	ppb	1.3922	411.2	-16.9054
Sr 216.596	661.573	ppb	1.0341	0.2	9670.99
Ti 334.941	-0.4167	ppb	0.0299	7.2	13.2580
Tl 190.794	0.8982	ppb	1.6173	180.1	-18.9187
V 292.401	-0.3245	ppb	0.2993	92.2	-20.2413
Zn 206.200	1.6499	ppb	0.3762	22.8	10.0754

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680-90039-b-9-b ms (Samp) **5/16/2013, 8:42:58 PM** **Rack 1, Tube 57**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.8646	52.4877	51.2926
Al 308.215	5158.74	5141.29	5154.26
As 188.980	122.039	115.857	117.004
B 249.678	230.159	231.567	231.727
Ba 389.178	130.696	129.799	129.904
Be 313.042	53.3437	53.2650	53.2802
Ca 370.602	71731	71639	71771
Cd 226.502	51.0774	51.1821	51.0949
Co 228.615	50.7537	51.0842	51.4135
Cr 267.716	105.210	104.841	105.127
Cu 324.754	107.162	107.158	107.898
Fe 271.441	5079.15	5066.53	5066.09
K 766.491	7927.55	7939.43	7943.76
Mg 279.078	41649.1	41530.5	41505.3
Mn 257.610	534.776	534.793	532.380
Mo 202.032	106.752	105.991	105.937
Na 330.237	29011.3	28895.8	28864.9
Ni 231.604	99.8152	102.697	99.9795
Pb 220.353	53.6779	52.9730	52.1895
Sb 206.834	49.6566	54.0219	49.8695
Se 196.026	99.4046	103.285	106.565
Sn 189.925	204.653	198.040	201.729
Sr 216.596	756.887	757.000	752.746
Ti 334.941	99.9147	100.013	99.9759
Tl 190.794	44.8499	42.2908	40.6397
V 292.401	102.436	103.071	103.402
Zn 206.200	100.924	105.508	101.823

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.5483	ppb	0.8412	1.6	4511.87
Al 308.215	5151.43	ppb	9.0658	0.2	12078.0
As 188.980	118.300	ppb	3.2887	2.8	73.4391
B 249.678	231.151	ppb	0.8627	0.4	3775.24
Ba 389.178	130.133	ppb	0.4904	0.4	3528.69
Be 313.042	53.2963	ppb	0.0417	0.1	115750
Ca 370.602	71714	ppb	67.97	0.1	251348
Cd 226.502	51.1181	ppb	0.0561	0.1	2544.34
Co 228.615	51.0838	ppb	0.3299	0.6	799.115
Cr 267.716	105.059	ppb	0.1934	0.2	6227.08
Cu 324.754	107.406	ppb	0.4260	0.4	5889.20
Fe 271.441	5070.59	ppb	7.4141	0.1	10534.9
K 766.491	7936.91	ppb	8.3899	0.1	332953
Mg 279.078	41561.7	ppb	76.7915	0.2	109427
Mn 257.610	533.983	ppb	1.3880	0.3	38349.8
Mo 202.032	106.227	ppb	0.4559	0.4	934.020
Na 330.237	28924.0	ppb	77.1826	0.3	1686.54
Ni 231.604	100.831	ppb	1.6187	1.6	361.049
Pb 220.353	52.9468	ppb	0.7445	1.4	150.655
Sb 206.834	51.1827	ppb	2.4612	4.8	58.9778
Se 196.026	103.085	ppb	3.5846	3.5	77.5155
Sn 189.925	201.474	ppb	3.3139	1.6	212.424
Sr 216.596	755.545	ppb	2.4242	0.3	11036.5
Ti 334.941	99.9677	ppb	0.0494	0.0	33740.3
Tl 190.794	42.5935	ppb	2.1214	5.0	25.8150
V 292.401	102.969	ppb	0.4907	0.5	3270.31
Zn 206.200	102.751	ppb	2.4291	2.4	207.319

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680-90039-b-9-c msd (Samp) 5/16/2013, 8:48:24 PM Rack 1, Tube 58**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.2795	50.6681	50.9656
Al 308.215	4854.63	4892.29	4877.87
As 188.980	111.091	115.848	109.029
B 249.678	227.656	228.242	229.081
Ba 389.178	124.903	125.024	125.820
Be 313.042	50.8418	50.9544	50.9015
Ca 370.602	70013	70092	70043
Cd 226.502	49.9033	49.7280	49.9691
Co 228.615	49.3540	49.3321	49.9371
Cr 267.716	100.538	100.351	100.550
Cu 324.754	102.331	102.240	103.208
Fe 271.441	4858.46	4853.24	4851.35
K 766.491	7774.44	7783.39	7785.45
Mg 279.078	40554.8	40496.8	40506.1
Mn 257.610	517.109	511.458	513.010
Mo 202.032	101.592	101.958	103.438
Na 330.237	28391.0	28403.3	28371.4
Ni 231.604	97.7706	97.8834	96.4037
Pb 220.353	52.0742	51.1640	54.0008
Sb 206.834	47.8257	48.5075	51.7844
Se 196.026	100.223	105.517	97.7571
Sn 189.925	195.586	197.492	193.457
Sr 216.596	738.154	736.958	735.853
Ti 334.941	95.6171	95.5169	95.6418
Tl 190.794	36.7985	38.5155	37.0703
V 292.401	98.7237	98.5809	99.0051
Zn 206.200	99.4168	101.396	104.503

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.9710	ppb	0.3057	0.6	4461.43
Al 308.215	4874.93	ppb	19.0015	0.4	11428.9
As 188.980	111.989	ppb	3.4968	3.1	68.9350
B 249.678	228.327	ppb	0.7163	0.3	3731.13
Ba 389.178	125.249	ppb	0.4980	0.4	3396.70
Be 313.042	50.8992	ppb	0.0564	0.1	110524
Ca 370.602	70049	ppb	40.26	0.1	245523
Cd 226.502	49.8668	ppb	0.1246	0.2	2482.63
Co 228.615	49.5411	ppb	0.3431	0.7	775.090
Cr 267.716	100.480	ppb	0.1114	0.1	5955.90
Cu 324.754	102.593	ppb	0.5345	0.5	5638.60
Fe 271.441	4854.35	ppb	3.6840	0.1	10087.1
K 766.491	7781.10	ppb	5.8543	0.1	326422
Mg 279.078	40519.2	ppb	31.1442	0.1	106683
Mn 257.610	513.859	ppb	2.9194	0.6	36911.0
Mo 202.032	102.329	ppb	0.9773	1.0	900.387
Na 330.237	28388.5	ppb	16.0928	0.1	1656.74
Ni 231.604	97.3526	ppb	0.8237	0.8	348.594
Pb 220.353	52.4130	ppb	1.4484	2.8	149.439
Sb 206.834	49.3725	ppb	2.1164	4.3	56.7645
Se 196.026	101.166	ppb	3.9648	3.9	76.2748
Sn 189.925	195.512	ppb	2.0183	1.0	205.648
Sr 216.596	736.988	ppb	1.1505	0.2	10766.0
Ti 334.941	95.5919	ppb	0.0661	0.1	32265.7
Tl 190.794	37.4614	ppb	0.9229	2.5	20.2176
V 292.401	98.7699	ppb	0.2159	0.2	3136.43
Zn 206.200	101.772	ppb	2.5636	2.5	205.400

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680-90039-b-10-a (Samp) **5/16/2013, 8:53:50 PM** **Rack 1, Tube 59****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3020u	-0.2991u	0.6257
Al 308.215	11.9812	13.9605	8.0876
As 188.980	-3.2932u	-2.7271u	-0.7377
B 249.678	36.0835	35.9910	36.1928
Ba 389.178	28.7062	29.0821	28.3820
Be 313.042	-0.0002	-0.0050	0.0046
Ca 370.602	66937	66994	67095
Cd 226.502	-0.0639u	-0.0417u	0.1181
Co 228.615	0.4713	0.0810	0.0960
Cr 267.716	0.2006	0.3212	0.0841
Cu 324.754	0.2572	0.2325	-0.4349u
Fe 271.441	67.4560	66.8897	67.1804
K 766.491	2337.32	2339.28	2335.95
Mg 279.078	36038.2	36130.9	36154.7
Mn 257.610	-0.3437	-0.3370	-0.4254
Mo 202.032	0.1085	-0.2644u	-0.2936u
Na 330.237	23487.6	23731.3	23663.1
Ni 231.604	-0.4444u	0.8029	0.0327
Pb 220.353	3.0211	2.4239	0.6194
Sb 206.834	1.4346	1.4468	-2.8850u
Se 196.026	-1.7658u	-3.9156u	-0.4636u
Sn 189.925	-2.5468u	-0.8819u	-2.5152u
Sr 216.596	653.259	657.228	656.563
Ti 334.941	-0.3626	-0.3819	-0.3113
Tl 190.794	0.4382	-0.2126u	-3.8805u
V 292.401	-0.4356u	-0.4200u	-0.2744u
Zn 206.200	1.0412	1.4193	1.3780

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2095	ppb	0.4692	224.0	-47.9676
Al 308.215	11.3431	ppb	2.9880	26.3	9.3337
As 188.980	-2.2527	ppb	1.3422	59.6	-12.3324
B 249.678	36.0891	ppb	0.1010	0.3	713.615
Ba 389.178	28.7235	ppb	0.3504	1.2	835.112
Be 313.042	-0.0002	ppb	0.0048	2115.5	-425.948
Ca 370.602	67009	ppb	79.85	0.1	235241
Cd 226.502	0.0042	ppb	0.0993	2378.2	38.9723
Co 228.615	0.2161	ppb	0.2211	102.3	7.6876
Cr 267.716	0.2020	ppb	0.1185	58.7	17.4674
Cu 324.754	0.0183	ppb	0.3927	2148.5	297.170
Fe 271.441	67.1754	ppb	0.2831	0.4	170.526
K 766.491	2337.52	ppb	1.6778	0.1	98255.6
Mg 279.078	36107.9	ppb	61.5410	0.2	95082.6
Mn 257.610	-0.3687	ppb	0.0492	13.4	202.381
Mo 202.032	-0.1498	ppb	0.2242	149.7	15.9989
Na 330.237	23627.3	ppb	125.748	0.5	1393.95
Ni 231.604	0.1304	ppb	0.6294	482.7	0.4951
Pb 220.353	2.0214	ppb	1.2504	61.9	34.7468
Sb 206.834	-0.0012	ppb	2.4974	208512.4	-3.1956
Se 196.026	-2.0483	ppb	1.7433	85.1	9.8099
Sn 189.925	-1.9813	ppb	0.9523	48.1	-18.7723
Sr 216.596	655.683	ppb	2.1259	0.3	9585.13
Ti 334.941	-0.3520	ppb	0.0365	10.4	31.0580
Tl 190.794	-1.2183	ppb	2.3284	191.1	-21.2435
V 292.401	-0.3767	ppb	0.0889	23.6	-21.8773
Zn 206.200	1.2795	ppb	0.2074	16.2	9.3552

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680-90076-a-1-a (Samp) **5/16/2013, 8:59:16 PM** **Rack 1, Tube 60**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1968u	0.0528	-0.3516u
Al 308.215	257.493	250.246	259.043
As 188.980	-2.9565u	-0.1655	-2.0522u
B 249.678	9.1365	8.8666	8.2805
Ba 389.178	31.5125	32.8943	32.7590
Be 313.042	0.0175	0.0184	0.0231
Ca 370.602	85676	85610	85700
Cd 226.502	-0.0264	-0.0322	-0.1339u
Co 228.615	0.9764	1.9432	1.5051
Cr 267.716	1.0324	0.9844	1.0828
Cu 324.754	3.3147	3.4465	2.6464
Fe 271.441	533.522	530.637	533.268
K 766.491	993.260	993.524	990.941
Mg 279.078	12907.7	12894.2	12924.1
Mn 257.610	756.661	757.243	759.358
Mo 202.032	0.5624	0.6128	-0.0514u
Na 330.237	2985.22	2765.32	2675.63
Ni 231.604	0.8890	0.7476	1.6496
Pb 220.353	2.7818	3.8225	2.5367
Sb 206.834	-1.6941u	1.1879	1.5703
Se 196.026	-4.3705u	-7.3135u	4.3350
Sn 189.925	1.3013	1.4074	2.9599
Sr 216.596	125.670	125.261	125.384
Ti 334.941	2.4233	2.4913	2.4055
Tl 190.794	-2.2721u	2.9511	0.2881u
V 292.401	0.6280	0.3580	0.5476
Zn 206.200	22.0289	22.8948	22.3278

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1652	ppb	0.2040	123.5	-48.1704
Al 308.215	255.594	ppb	4.6960	1.8	582.603
As 188.980	-1.7248	ppb	1.4240	82.6	-11.7739
B 249.678	8.7612	ppb	0.4376	5.0	282.852
Ba 389.178	32.3886	ppb	0.7618	2.4	863.022
Be 313.042	0.0197	ppb	0.0030	15.2	-371.615
Ca 370.602	85662	ppb	46.55	0.1	300705
Cd 226.502	-0.0642	ppb	0.0605	94.2	37.3437
Co 228.615	1.4749	ppb	0.4841	32.8	27.3476
Cr 267.716	1.0332	ppb	0.0492	4.8	70.3538
Cu 324.754	3.1358	ppb	0.4290	13.7	459.557
Fe 271.441	532.476	ppb	1.5976	0.3	1133.62
K 766.491	992.575	ppb	1.4213	0.1	41882.8
Mg 279.078	12908.7	ppb	14.9970	0.1	34000.3
Mn 257.610	757.754	ppb	1.4192	0.2	54241.3
Mo 202.032	0.3746	ppb	0.3698	98.7	20.4974
Na 330.237	2808.72	ppb	159.294	5.7	230.616
Ni 231.604	1.0954	ppb	0.4851	44.3	3.9622
Pb 220.353	3.0470	ppb	0.6827	22.4	37.3058
Sb 206.834	0.3547	ppb	1.7846	503.2	-2.7470
Se 196.026	-2.4497	ppb	6.0571	247.3	9.7962
Sn 189.925	1.8896	ppb	0.9285	49.1	-14.3728
Sr 216.596	125.438	ppb	0.2102	0.2	1859.12
Ti 334.941	2.4400	ppb	0.0453	1.9	844.055
Tl 190.794	0.3224	ppb	2.6118	810.2	-20.7824
V 292.401	0.5112	ppb	0.1386	27.1	6.4025
Zn 206.200	22.4172	ppb	0.4398	2.0	50.5961

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680-90076-a-3-a (Samp) 5/16/2013, 9:15:31 PM Rack 2, Tube 3
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0416u	0.5004	0.5917
Al 308.215	11.0341	15.0144	8.4114
As 188.980	2.0850	2.3209	-1.5837u
B 249.678	13.0413	13.0838	13.0312
Ba 389.178	57.0219	56.5955	56.3944
Be 313.042	-0.0021	-0.0183u	-0.0096
Ca 370.602	95680	95565	95662
Cd 226.502	-0.0260u	-0.0827u	0.0037
Co 228.615	-0.2119u	-0.1867u	-0.0690u
Cr 267.716	0.1243	0.3191	0.3297
Cu 324.754	-0.3716u	0.0896	-0.2651u
Fe 271.441	14.5855	16.8969	13.5556
K 766.491	1264.66	1264.02	1258.21
Mg 279.078	18472.2	18493.6	18498.9
Mn 257.610	2.4691	2.4706	2.2823
Mo 202.032	-0.0506u	0.7234	-0.2113u
Na 330.237	3553.07	3594.65	3566.93
Ni 231.604	-0.1249u	0.9496	0.4285
Pb 220.353	-0.8173u	2.4034	-0.3527u
Sb 206.834	-3.4261u	-0.9100u	0.4932
Se 196.026	-0.1430u	5.2172	0.6418
Sn 189.925	-0.4790u	-1.9027u	-0.9854u
Sr 216.596	185.538	186.264	185.239
Ti 334.941	-0.0123	-0.0286	-0.0168
Tl 190.794	4.1837	0.6470	-0.7361u
V 292.401	-0.2132u	-0.3584u	0.0607
Zn 206.200	3.2080	2.7092	2.8389

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3779	ppb	0.2948	78.0	-7.3625
Al 308.215	11.4866	ppb	3.3247	28.9	9.6856
As 188.980	0.9407	ppb	2.1894	232.7	-9.7804
B 249.678	13.0521	ppb	0.0279	0.2	351.188
Ba 389.178	56.6706	ppb	0.3204	0.6	1517.84
Be 313.042	-0.0100	ppb	0.0081	81.1	-432.298
Ca 370.602	95635	ppb	61.93	0.1	335741
Cd 226.502	-0.0350	ppb	0.0439	125.4	36.7027
Co 228.615	-0.1559	ppb	0.0763	48.9	1.8806
Cr 267.716	0.2577	ppb	0.1156	44.9	20.3363
Cu 324.754	-0.1824	ppb	0.2415	132.4	286.719
Fe 271.441	15.0126	ppb	1.7111	11.4	62.5149
K 766.491	1262.30	ppb	3.5516	0.3	53188.2
Mg 279.078	18488.2	ppb	14.1756	0.1	48702.3
Mn 257.610	2.4073	ppb	0.1083	4.5	355.998
Mo 202.032	0.1538	ppb	0.4998	324.9	18.6236
Na 330.237	3571.55	ppb	21.1707	0.6	273.578
Ni 231.604	0.4177	ppb	0.5373	128.6	1.5220
Pb 220.353	0.4111	ppb	1.7409	423.4	31.0815
Sb 206.834	-1.2810	ppb	1.9858	155.0	-4.7512
Se 196.026	1.9053	ppb	2.8949	151.9	12.3485
Sn 189.925	-1.1224	ppb	0.7217	64.3	-17.7891
Sr 216.596	185.680	ppb	0.5274	0.3	2738.35
Ti 334.941	-0.0193	ppb	0.0084	43.8	48.6784
Tl 190.794	1.3649	ppb	2.5372	185.9	-18.4048
V 292.401	-0.1703	ppb	0.2128	125.0	-15.3862
Zn 206.200	2.9187	ppb	0.2588	8.9	12.5415

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680-90076-a-4-a (Samp) **5/16/2013, 9:20:56 PM** **Rack 2, Tube 4**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0721u	-0.2826u	0.5293
Al 308.215	160.024	157.586	160.296
As 188.980	5.2200	-2.5799u	-0.8827
B 249.678	6.0896	6.2819	5.9174
Ba 389.178	29.8024	30.8618	30.5593
Be 313.042	0.0073	0.0003	0.0020
Ca 370.602	103983	103971	104118
Cd 226.502	1.2813	1.3391	1.3689
Co 228.615	1.0822	0.6096	0.8661
Cr 267.716	0.9067	0.7825	0.9473
Cu 324.754	3.3326	3.3764	3.8953
Fe 271.441	4248.11	4242.96	4258.74
K 766.491	831.482	832.993	831.989
Mg 279.078	15799.5	15824.6	15820.5
Mn 257.610	68.5492	68.9695	69.0165
Mo 202.032	0.6876	0.9107	-0.0100u
Na 330.237	7907.13	8151.47	8138.92
Ni 231.604	6.2010	7.1737	5.6765
Pb 220.353	4.2459	7.2520	5.6841
Sb 206.834	0.5400	0.3825	5.1433
Se 196.026	-0.6058u	1.5407	1.4967
Sn 189.925	-1.0087u	2.5478	-2.2931u
Sr 216.596	162.166	161.120	161.323
Ti 334.941	2.4883	2.5593	2.4923
Tl 190.794	0.1482u	0.2454u	1.6474
V 292.401	0.7209	1.1193	0.8011
Zn 206.200	32.6128	30.7412	32.1983

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1063	ppb	0.4070	383.0	-29.7643
Al 308.215	159.302	ppb	1.4926	0.9	356.618
As 188.980	0.5858	ppb	4.1021	700.3	-9.9391
B 249.678	6.0963	ppb	0.1823	3.0	235.099
Ba 389.178	30.4078	ppb	0.5457	1.8	825.535
Be 313.042	0.0032	ppb	0.0037	113.4	-400.862
Ca 370.602	104024	ppb	81.72	0.1	364813
Cd 226.502	1.3298	ppb	0.0445	3.3	120.419
Co 228.615	0.8526	ppb	0.2366	27.7	17.4732
Cr 267.716	0.8788	ppb	0.0858	9.8	58.7590
Cu 324.754	3.5347	ppb	0.3130	8.9	481.462
Fe 271.441	4249.94	ppb	8.0501	0.2	8826.08
K 766.491	832.154	ppb	0.7691	0.1	35158.8
Mg 279.078	15814.8	ppb	13.4431	0.1	41664.7
Mn 257.610	68.8451	ppb	0.2573	0.4	5093.57
Mo 202.032	0.5294	ppb	0.4803	90.7	21.6123
Na 330.237	8065.84	ppb	137.593	1.7	523.007
Ni 231.604	6.3504	ppb	0.7597	12.0	22.8748
Pb 220.353	5.7273	ppb	1.5035	26.3	43.2028
Sb 206.834	2.0219	ppb	2.7043	133.7	-0.6332
Se 196.026	0.8105	ppb	1.2268	151.4	11.6991
Sn 189.925	-0.2513	ppb	2.5077	997.8	-16.7927
Sr 216.596	161.536	ppb	0.5546	0.3	2389.73
Ti 334.941	2.5133	ppb	0.0399	1.6	884.472
Tl 190.794	0.6803	ppb	0.8389	123.3	-19.5017
V 292.401	0.8804	ppb	0.2108	23.9	18.2264
Zn 206.200	31.8508	ppb	0.9830	3.1	694.750

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680-90076-a-5-a (Samp) **5/16/2013, 9:26:20 PM** **Rack 2, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0465u	-0.3140u	-0.3112u
Al 308.215	191.317	188.704	184.529
As 188.980	0.0997	-2.0157u	5.0252
B 249.678	21.4981	21.7504	20.8799
Ba 389.178	33.1927	33.0886	33.5966
Be 313.042	0.0235	0.0308	0.0275
Ca 370.602	81998	82033	81861
Cd 226.502	0.9056	1.0903	0.8042
Co 228.615	4.9552	5.1789	4.6439
Cr 267.716	0.9317	0.9747	0.7803
Cu 324.754	5.3805	5.2090	4.7812
Fe 271.441	2990.52	2992.60	2986.79
K 766.491	837.607	836.058	838.550
Mg 279.078	15997.5	15977.4	15944.9
Mn 257.610	228.192	228.341	228.991
Mo 202.032	1.1136	0.6959	0.8782
Na 330.237	34307.9	34208.3	34145.2
Ni 231.604	3.1811	2.1972	2.3031
Pb 220.353	5.5549	2.0607	5.5701
Sb 206.834	-0.1982u	-2.8415u	-3.2700u
Se 196.026	6.8640	2.7959	4.0473
Sn 189.925	0.0912	-1.5611u	0.2439
Sr 216.596	303.302	303.683	303.077
Ti 334.941	1.4022	1.4021	1.3946
Tl 190.794	0.9168	1.3212	2.1922
V 292.401	0.7195	0.5375	0.5401
Zn 206.200	42.4752	43.3282	42.8969

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2239	ppb	0.1536	68.6	-65.8018
Al 308.215	188.183	ppb	3.4241	1.8	424.428
As 188.980	1.0364	ppb	3.6127	348.6	-9.8394
B 249.678	21.3761	ppb	0.4479	2.1	477.510
Ba 389.178	33.2926	ppb	0.2683	0.8	899.904
Be 313.042	0.0273	ppb	0.0037	13.5	-360.853
Ca 370.602	81964	ppb	90.72	0.1	287487
Cd 226.502	0.9334	ppb	0.1451	15.5	95.7827
Co 228.615	4.9260	ppb	0.2687	5.5	80.9470
Cr 267.716	0.8955	ppb	0.1021	11.4	60.7940
Cu 324.754	5.1236	ppb	0.3087	6.0	563.775
Fe 271.441	2989.97	ppb	2.9442	0.1	6219.58
K 766.491	837.405	ppb	1.2586	0.2	35378.9
Mg 279.078	15973.3	ppb	26.5347	0.2	42078.3
Mn 257.610	228.508	ppb	0.4249	0.2	16485.8
Mo 202.032	0.8959	ppb	0.2094	23.4	24.8523
Na 330.237	34220.5	ppb	82.0638	0.2	1984.41
Ni 231.604	2.5605	ppb	0.5401	21.1	9.2753
Pb 220.353	4.3952	ppb	2.0218	46.0	40.2166
Sb 206.834	-2.1032	ppb	1.6636	79.1	-5.6708
Se 196.026	4.5691	ppb	2.0837	45.6	14.1538
Sn 189.925	-0.4087	ppb	1.0010	244.9	-16.9719
Sr 216.596	303.354	ppb	0.3060	0.1	4453.13
Ti 334.941	1.3996	ppb	0.0043	0.3	508.921
Tl 190.794	1.4767	ppb	0.6518	44.1	-18.8105
V 292.401	0.5990	ppb	0.1043	17.4	8.8172
Zn 206.200	42.9001	ppb	0.4265	1.0	90.8326

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680-90122-a-1-a (Samp) **5/16/2013, 9:31:45 PM** **Rack 2, Tube 6**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4571u	0.2692	-0.0100u
Al 308.215	10.1176	14.1781	10.5481
As 188.980	-3.5291u	-0.5132	-6.1196u
B 249.678	7.5571	7.5301	7.8812
Ba 389.178	67.1115	66.4388	67.4730
Be 313.042	-0.0007	-0.0033	-0.0077
Ca 370.602	88246	88400	88464
Cd 226.502	0.1242	-0.0451u	0.0497
Co 228.615	0.0158	0.4436	0.1008
Cr 267.716	0.6140	0.6750	0.4310
Cu 324.754	0.5422	0.6729	0.2514
Fe 271.441	37.3895	36.0191	35.3192
K 766.491	551.612	548.489	550.426
Mg 279.078	23672.7	23716.2	23724.9
Mn 257.610	1.6250	1.8225	1.7904
Mo 202.032	0.5302	0.5598	0.9522
Na 330.237	5369.54	5604.60	5567.14
Ni 231.604	0.5391	0.3873	0.1712
Pb 220.353	1.0509	1.5404	0.6061
Sb 206.834	-1.5916u	-0.1833u	-1.0605u
Se 196.026	1.4127	3.2191	-2.3289u
Sn 189.925	0.6287	-0.1377u	-0.4215u
Sr 216.596	135.607	137.299	135.578
Ti 334.941	-0.0824	-0.1206	-0.1093
Tl 190.794	1.9309	2.1292	0.0666
V 292.401	0.2688	-0.3704u	0.0990
Zn 206.200	1.9944	1.2210	1.2273

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0660	ppb	0.3664	555.5	-44.2024
Al 308.215	11.6146	ppb	2.2305	19.2	10.0125
As 188.980	-3.3873	ppb	2.8059	82.8	-12.9312
B 249.678	7.6562	ppb	0.1954	2.6	266.240
Ba 389.178	67.0078	ppb	0.5249	0.8	1805.46
Be 313.042	-0.0039	ppb	0.0035	90.9	-422.505
Ca 370.602	88370	ppb	112.3	0.1	310233
Cd 226.502	0.0430	ppb	0.0849	197.6	40.6644
Co 228.615	0.1867	ppb	0.2265	121.3	7.1949
Cr 267.716	0.5734	ppb	0.1270	22.1	39.0629
Cu 324.754	0.4889	ppb	0.2158	44.1	321.670
Fe 271.441	36.2426	ppb	1.0531	2.9	106.516
K 766.491	550.176	ppb	1.5766	0.3	23339.7
Mg 279.078	23704.6	ppb	27.9298	0.1	62433.3
Mn 257.610	1.7460	ppb	0.1060	6.1	321.981
Mo 202.032	0.6807	ppb	0.2356	34.6	23.1715
Na 330.237	5513.76	ppb	126.292	2.3	382.079
Ni 231.604	0.3659	ppb	0.1849	50.5	1.3371
Pb 220.353	1.0658	ppb	0.4673	43.8	32.5706
Sb 206.834	-0.9451	ppb	0.7112	75.2	-4.3484
Se 196.026	0.7676	ppb	2.8297	368.6	11.6181
Sn 189.925	0.0232	ppb	0.5432	2346.2	-16.4908
Sr 216.596	136.161	ppb	0.9854	0.7	2015.54
Ti 334.941	-0.1041	ppb	0.0196	18.8	48.3777
Tl 190.794	1.3756	ppb	1.1379	82.7	-18.3935
V 292.401	-0.0009	ppb	0.3311	38290.5	-10.0240
Zn 206.200	1.4809	ppb	0.4447	30.0	9.7423

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680-90122-a-2-a (Samp) **5/16/2013, 9:37:10 PM** **Rack 2, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0855u	0.5536	0.1212
Al 308.215	215.528	214.123	211.488
As 188.980	-3.6741u	-4.2300u	-2.0127u
B 249.678	8.1501	8.2208	8.9621
Ba 389.178	59.4499	59.1512	59.1028
Be 313.042	0.0156	0.0158	0.0165
Ca 370.602	93158	93018	92975
Cd 226.502	0.0187	0.0273	-0.0011
Co 228.615	1.0787	0.4766	0.8373
Cr 267.716	0.7506	0.6795	0.4550
Cu 324.754	1.5121	2.1220	1.1789
Fe 271.441	434.093	431.798	441.083
K 766.491	806.763	808.374	803.328
Mg 279.078	21301.9	21298.1	21305.4
Mn 257.610	89.6820	90.4503	90.6949
Mo 202.032	0.0055	0.2058	-0.1551u
Na 330.237	22101.9	22310.1	22177.2
Ni 231.604	0.0902	1.1742	1.6250
Pb 220.353	1.6725	2.5340	2.6354
Sb 206.834	3.8966	-2.1452u	-1.6569u
Se 196.026	0.7634	9.6867	0.4045
Sn 189.925	-1.4531u	-0.9532u	-1.3568u
Sr 216.596	144.473	145.163	146.033
Ti 334.941	1.0492	1.0105	0.9694
Tl 190.794	2.3108	-0.5545u	0.3741
V 292.401	0.1391	0.2914	0.1979
Zn 206.200	5.4183	4.4512	5.0177

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1964	ppb	0.3261	166.0	-20.8389
Al 308.215	213.713	ppb	2.0509	1.0	484.304
As 188.980	-3.3056	ppb	1.1537	34.9	-12.8257
B 249.678	8.4443	ppb	0.4498	5.3	278.014
Ba 389.178	59.2346	ppb	0.1880	0.3	1594.39
Be 313.042	0.0160	ppb	0.0004	2.8	-379.350
Ca 370.602	93050	ppb	95.72	0.1	326631
Cd 226.502	0.0150	ppb	0.0146	97.2	40.7994
Co 228.615	0.7975	ppb	0.3030	38.0	16.7564
Cr 267.716	0.6283	ppb	0.1543	24.6	43.2576
Cu 324.754	1.6043	ppb	0.4782	29.8	379.827
Fe 271.441	435.658	ppb	4.8363	1.1	933.145
K 766.491	806.155	ppb	2.5776	0.3	34069.0
Mg 279.078	21301.8	ppb	3.6712	0.0	56106.7
Mn 257.610	90.2757	ppb	0.5286	0.6	6633.43
Mo 202.032	0.0187	ppb	0.1808	965.2	17.4308
Na 330.237	22196.4	ppb	105.442	0.5	1313.85
Ni 231.604	0.9631	ppb	0.7889	81.9	3.4861
Pb 220.353	2.2806	ppb	0.5291	23.2	35.3664
Sb 206.834	0.0315	ppb	3.3561	10656.1	-3.1455
Se 196.026	3.6182	ppb	5.2585	145.3	13.4794
Sn 189.925	-1.2544	ppb	0.2652	21.1	-17.9319
Sr 216.596	145.223	ppb	0.7815	0.5	2148.49
Ti 334.941	1.0097	ppb	0.0399	4.0	407.825
Tl 190.794	0.7101	ppb	1.4619	205.9	-19.2879
V 292.401	0.2095	ppb	0.0768	36.7	-3.3156
Zn 206.200	4.9624	ppb	0.4859	9.8	16.5788

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680-90122-a-4-a (Samp) 5/16/2013, 9:42:35 PM Rack 2, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4382	0.3280	-0.3283u
Al 308.215	8.9586	8.9976	10.9114
As 188.980	4.2908	-4.4709u	-1.3722
B 249.678	16.1576	16.0709	16.2629
Ba 389.178	76.9693	76.1472	75.8571
Be 313.042	-0.0332	-0.0293	-0.0333
Ca 370.602	217409	219712	218884
Cd 226.502	-0.1981	-0.2045	-0.1769
Co 228.615	0.2168	0.5114	-0.0880u
Cr 267.716	0.3741	0.3131	0.0259
Cu 324.754	-0.1756u	-0.5115u	-0.2074u
Fe 271.441	10558.6	10607.2	10613.8
K 766.491	3088.50	3091.92	3102.16
Mg 279.078	36712.1	36849.2	36771.0
Mn 257.610	2935.37	2956.22	2947.07
Mo 202.032	-0.1590u	0.0724u	0.3090
Na 330.237	10127.7	10335.6	10365.4
Ni 231.604	0.4637	-0.2215u	-0.5569u
Pb 220.353	2.1909	2.6152	1.6930
Sb 206.834	2.2614	-2.6490u	-1.6749u
Se 196.026	0.3142	-1.2902	1.5482
Sn 189.925	-1.2016u	-1.5119u	0.4187
Sr 216.596	365.794	366.165	365.819
Ti 334.941	-0.1149	-0.0603	-0.1714
Tl 190.794	3.4291u	5.2413	3.3825u
V 292.401	0.4206	0.1241	0.4944
Zn 206.200	4.0056	3.7436	2.5528

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1460	ppb	0.4144	283.9	-22.5673
Al 308.215	9.6225	ppb	1.1164	11.6	5.2949
As 188.980	-0.5174	ppb	4.4430	858.7	-9.5807
B 249.678	16.1638	ppb	0.0961	0.6	383.584
Ba 389.178	76.3245	ppb	0.5769	0.8	2106.52
Be 313.042	-0.0319	ppb	0.0023	7.1	-433.615
Ca 370.602	218668	ppb	1167	0.5	766790
Cd 226.502	-0.1932	ppb	0.0145	7.5	72.8685
Co 228.615	0.2134	ppb	0.2997	140.5	7.1657
Cr 267.716	0.2377	ppb	0.1859	78.2	37.8393
Cu 324.754	-0.2982	ppb	0.1855	62.2	283.937
Fe 271.441	10593.2	ppb	30.1324	0.3	21952.1
K 766.491	3094.19	ppb	7.1122	0.2	129972
Mg 279.078	36777.5	ppb	68.7797	0.2	96789.2
Mn 257.610	2946.22	ppb	10.4514	0.4	210472
Mo 202.032	0.0741	ppb	0.2340	315.7	17.3037
Na 330.237	10276.3	ppb	129.475	1.3	644.672
Ni 231.604	-0.1049	ppb	0.5202	496.0	-0.0497
Pb 220.353	2.1664	ppb	0.4616	21.3	35.9367
Sb 206.834	-0.6875	ppb	2.5999	378.1	-3.7352
Se 196.026	0.1907	ppb	1.4232	746.2	12.2606
Sn 189.925	-0.7649	ppb	1.0367	135.5	-17.3094
Sr 216.596	365.926	ppb	0.2075	0.1	5388.46
Ti 334.941	-0.1155	ppb	0.0556	48.1	116.503
Tl 190.794	4.0176	ppb	1.0600	26.4	-20.7658
V 292.401	0.3464	ppb	0.1960	56.6	1.4544
Zn 206.200	3.4340	ppb	0.743	22.5	14.9666

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680-90122-a-6-a (Samp) **5/16/2013, 9:48:01 PM** **Rack 2, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6618u	-0.0371u	-0.0845u
Al 308.215	77.2084	73.3063	78.0071
As 188.980	-1.4760u	-4.6870u	-3.9526u
B 249.678	4.3566	4.2677	4.3312
Ba 389.178	26.1315	26.4964	24.9976
Be 313.042	0.0130	0.0053	0.0113
Ca 370.602	80357	80532	80497
Cd 226.502	0.3337	0.2287	0.2811
Co 228.615	-0.3004u	0.1472	0.4967
Cr 267.716	0.5526	0.7867	0.9321
Cu 324.754	1.5269	2.4103	2.0644
Fe 271.441	199.525	199.692	204.936
K 766.491	329.842	330.858	330.943
Mg 279.078	15400.7	15401.8	15410.1
Mn 257.610	18.4076	18.3820	18.4929
Mo 202.032	-0.1132u	0.0094	-0.0261u
Na 330.237	4870.04	4836.63	4660.50
Ni 231.604	0.3617	0.3045	-0.0479u
Pb 220.353	1.0468	0.5555	1.5036
Sb 206.834	4.1660	-2.9299u	-1.2798u
Se 196.026	1.4414	-0.8648u	-1.4509u
Sn 189.925	-0.6518u	-1.3128u	-0.5374u
Sr 216.596	115.099	114.122	114.812
Ti 334.941	0.6224	0.5504	0.6729
Tl 190.794	4.2987	-2.9342u	-0.9039u
V 292.401	-0.0434u	0.3103	-0.1774u
Zn 206.200	20.0495	21.3418	19.9758

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2611	ppb	0.3478	133.2	-60.1058
Al 308.215	76.1739	ppb	2.5153	3.3	161.495
As 188.980	-3.3719	ppb	1.6825	49.9	-13.0003
B 249.678	4.3185	ppb	0.0458	1.1	213.469
Ba 389.178	25.8752	ppb	0.7816	3.0	698.536
Be 313.042	0.0098	ppb	0.0041	41.2	-395.305
Ca 370.602	80462	ppb	92.59	0.1	282458
Cd 226.502	0.2812	ppb	0.0525	18.7	52.7667
Co 228.615	0.1145	ppb	0.3996	349.0	6.1141
Cr 267.716	0.7571	ppb	0.1915	25.3	50.0577
Cu 324.754	2.0005	ppb	0.4452	22.3	400.368
Fe 271.441	201.384	ppb	3.0773	1.5	448.231
K 766.491	330.548	ppb	0.6127	0.2	14134.1
Mg 279.078	15404.2	ppb	5.1214	0.0	40583.9
Mn 257.610	18.4275	ppb	0.0581	0.3	1491.41
Mo 202.032	-0.0433	ppb	0.0631	145.8	16.9102
Na 330.237	4789.06	ppb	112.577	2.4	341.384
Ni 231.604	0.2061	ppb	0.2218	107.6	0.7699
Pb 220.353	1.0353	ppb	0.4741	45.8	32.5084
Sb 206.834	-0.0145	ppb	3.7133	25526.3	-3.2037
Se 196.026	-0.2915	ppb	1.5290	524.6	10.9446
Sn 189.925	-0.8340	ppb	0.4186	50.2	-17.4699
Sr 216.596	114.678	ppb	0.5020	0.4	1701.36
Ti 334.941	0.6152	ppb	0.0616	10.0	244.786
Tl 190.794	0.1535	ppb	3.7306	2429.6	-19.7718
V 292.401	0.0298	ppb	0.2520	844.9	-8.9970
Zn 206.200	20.4557	ppb	0.7683	3.8	46.7306

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680-90143-c-1-a (Samp) 5/16/2013, 9:53:26 PM Rack 2, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2266u	1.0669u	1.6202u
Al 308.215	62.2711	42.5595	26.9863
As 188.980	14.9938	16.9501	9.1181
B 249.678	534.773	541.240	529.934
Ba 389.178	25.9561	22.5764	21.0105
Be 313.042	-0.0452u	0.0003	0.0050
Ca 370.602	198225	195804	172769
Cd 226.502	0.1749	-0.1724u	-0.1700u
Co 228.615	-0.8925	-0.8101	-0.4551
Cr 267.716	5163.42	5058.93	4613.16
Cu 324.754	2.4242	0.7296	1.5929
Fe 271.441	71.8237	60.0516	54.8628
K 766.491	8983.82	7658.99	7058.95
Mg 279.078	88987.2	81083.7	69067.4
Mn 257.610	-0.7724	-0.9586	-1.0780
Mo 202.032	7.0060	5.0325	4.3912
Na 330.237	310869x	279665x	243248x
Ni 231.604	7.1096	4.4502	3.4178
Pb 220.353	6.6263	0.2815	1.4484
Sb 206.834	51.8235	47.6313	33.8442
Se 196.026	17.1810	8.2229	-0.2594u
Sn 189.925	-2.0152u	-3.6529u	-0.2861u
Sr 216.596	7566.93x	7226.47x	6187.02x
Ti 334.941	0.0856	-0.0456	-0.1555
Tl 190.794	0.4156	-2.9333u	0.8133
V 292.401	118.465	115.968	112.938
Zn 206.200	5.0805u	5.6781u	3.9308u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9712b	ppb	0.7017	72.2	-322.636
Al 308.215	43.9389b	ppb	17.6828	40.2	85.3839
As 188.980	13.6873b	ppb	4.0762	29.8	0.1503
B 249.678	535.316b	ppb	5.6725	1.1	8569.33
Ba 389.178	23.1810b	ppb	2.5276	10.9	819.409
Be 313.042	-0.0133b	ppb	0.0277	208.7	-447.711
Ca 370.602	188933b	ppb	14050	7.4	663258
Cd 226.502	-0.0558b	ppb	0.1998	357.8	34.9976
Co 228.615	-0.7193b	ppb	0.2324	32.3	14.4631
Cr 267.716	4945.17b	ppb	292.236	5.9	292726
Cu 324.754	1.5822b	ppb	0.8474	53.6	377.629
Fe 271.441	62.2460b	ppb	8.6907	14.0	173.213
K 766.491	7900.59b	ppb	984.915	12.5	331430
Mg 279.078	79712.8b	ppb	10030.4	12.6	209863
Mn 257.610	-0.9363b	ppb	0.1540	16.5	271.972
Mo 202.032	5.4766b	ppb	1.3628	24.9	64.3448
Na 330.237	277927xb	ppb	33844.2	12.2	15599.9
Ni 231.604	4.9926b	ppb	1.9047	38.2	17.9021
Pb 220.353	2.7854b	ppb	3.3771	121.2	36.4749
Sb 206.834	44.4330b	ppb	9.4067	21.2	109.202
Se 196.026	8.3815b	ppb	8.7213	104.1	16.5063
Sn 189.925	-1.9848b	ppb	1.6836	84.8	-18.5889
Sr 216.596	6993.47xb	ppb	718.859	10.3	101980
Ti 334.941	-0.0385b	ppb	0.1207	313.5	349.906
Tl 190.794	-0.5682b	ppb	2.0579	362.2	-20.4749
V 292.401	115.790b	ppb	2.7677	2.4	3353.51
Zn 206.200	4.8965b	ppb	0.8881	18.1	244796

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680-90143-c-1-a (Samp) **5/16/2013, 9:59:03 PM** **Rack 2, Tube 11**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0137u	0.0651u	0.2854u
Al 308.215	7.5790	10.2996	4.8245
As 188.980	3.3189	0.0162	2.1058
B 249.678	108.845	109.352	109.768
Ba 389.178	2.3593	2.6511	2.5179
Be 313.042	0.0092	0.0051	0.0069
Ca 370.602	34492	34498	34529
Cd 226.502	-0.1601u	0.0765	-0.3141u
Co 228.615	-0.5134u	0.0906	-0.3011u
Cr 267.716	932.019	933.109	936.183
Cu 324.754	0.0967	-0.2651u	0.5606
Fe 271.441	14.0052	5.9789	14.2176
K 766.491	1142.92	1139.74	1141.20
Mg 279.078	13607.6	13588.3	13651.1
Mn 257.610	-0.0254	-0.0834	-0.0153
Mo 202.032	0.9614	0.9517	0.4331
Na 330.237	42655.3	42587.5	42781.1
Ni 231.604	-0.1297u	0.0883	0.4268
Pb 220.353	1.4792	-2.0201u	1.6728
Sb 206.834	7.9102	5.3673	10.5348
Se 196.026	0.2768	-3.3915u	-4.2984u
Sn 189.925	0.7288	2.0779	-1.0684u
Sr 216.596	1253.92	1255.60	1260.17
Ti 334.941	0.0233	-0.0141	0.0263
Tl 190.794	1.6796	0.2557	-2.0233u
V 292.401	22.1953	22.5229	22.5464
Zn 206.200	1.9275	0.2193u	-0.4144u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1214	ppb	0.1444	118.9	-87.4176
Al 308.215	7.5677	ppb	2.7376	36.2	0.3717
As 188.980	1.8136	ppb	1.6706	92.1	-9.7613
B 249.678	109.322	ppb	0.4620	0.4	1866.06
Ba 389.178	2.5094	ppb	0.1461	5.8	78.1525
Be 313.042	0.0071	ppb	0.0020	28.7	-425.683
Ca 370.602	34506	ppb	19.84	0.1	121145
Cd 226.502	-0.1326	ppb	0.1968	148.4	31.6186
Co 228.615	-0.2413	ppb	0.3064	127.0	4.5906
Cr 267.716	933.771	ppb	2.1594	0.2	55277.7
Cu 324.754	0.1307	ppb	0.4139	316.6	302.818
Fe 271.441	11.4005	ppb	4.6965	41.2	57.4986
K 766.491	1141.28	ppb	1.5919	0.1	48115.8
Mg 279.078	13615.7	ppb	32.1300	0.2	35876.3
Mn 257.610	-0.0413	ppb	0.0367	88.9	168.650
Mo 202.032	0.7821	ppb	0.3023	38.6	24.0018
Na 330.237	42674.6	ppb	98.2656	0.2	2458.02
Ni 231.604	0.1285	ppb	0.2805	218.3	0.4877
Pb 220.353	0.3773	ppb	2.0785	550.8	31.0026
Sb 206.834	7.9375	ppb	2.5839	32.6	17.4814
Se 196.026	-2.4710	ppb	2.4225	98.0	9.5380
Sn 189.925	0.5794	ppb	1.5785	272.4	-15.8725
Sr 216.596	1256.56	ppb	3.2320	0.3	18338.8
Ti 334.941	0.0118	ppb	0.0225	190.6	29.1132
Tl 190.794	-0.0293	ppb	1.8678	6371.5	-19.9221
V 292.401	22.4215	ppb	0.1963	0.9	643.096
Zn 206.200	0.5774	ppb	1.2113	209.8	744160

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680-90143-c-1-a (Samp) 5/16/2013, 10:04:30 PM Rack 2, Tube 12**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.4910	49.6753	49.6091
Al 308.215	1973.16	1979.64	1971.33
As 188.980	2394.15	2332.25	2334.62
B 249.678	1449.54	1446.81	1457.58
Ba 389.178	2011.09	1983.07	1991.88
Be 313.042	50.9271	50.2537	50.3605
Ca 370.602	178830	172693	172507
Cd 226.502	50.9742	49.1306	49.2932
Co 228.615	510.379	486.279	489.920
Cr 267.716	4756.59	4662.75	4689.69
Cu 324.754	248.278	252.473	252.512
Fe 271.441	1041.48	1013.13	1009.34
K 766.491	12740.1	13240.9	13267.5
Mg 279.078	73658.3	71673.9	71906.7
Mn 257.610	522.808	511.922	516.284
Mo 202.032	500.358	491.571	492.008
Na 330.237	240480x	240532x	240664x
Ni 231.604	511.510	488.100	487.199
Pb 220.353	514.536	499.628	505.325
Sb 206.834	541.651	544.670	537.358
Se 196.026	2175.11	2118.07	2125.65
Sn 189.925	977.139	940.717	948.146
Sr 216.596	6672.85x	6449.24x	6462.25x
Ti 334.941	895.183	893.131	897.952
Tl 190.794	2056.93	2016.73	2027.69
V 292.401	596.868	592.683	593.786
Zn 206.200	527.678	502.896	506.024

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.5918b	ppb	0.0934	0.2	4029.89
Al 308.215	1974.71b	ppb	4.3668	0.2	4640.00
As 188.980	2353.67b	ppb	35.0710	1.5	1664.22
B 249.678	1451.31b	ppb	5.5965	0.4	22981.7
Ba 389.178	1995.35b	ppb	14.3304	0.7	52700.0
Be 313.042	50.5138b	ppb	0.3619	0.7	109603
Ca 370.602	174676b	ppb	3599	2.1	613325
Cd 226.502	49.7993b	ppb	1.0207	2.0	2462.79
Co 228.615	495.526b	ppb	12.9913	2.6	7754.67
Cr 267.716	4703.01b	ppb	48.3193	1.0	278390
Cu 324.754	251.088b	ppb	2.4332	1.0	13371.5
Fe 271.441	1021.32b	ppb	17.5635	1.7	2255.08
K 766.491	13082.9b	ppb	297.103	2.3	548644
Mg 279.078	72413.0b	ppb	1084.76	1.5	190638
Mn 257.610	517.005b	ppb	5.4784	1.1	37213.2
Mo 202.032	494.645b	ppb	4.9517	1.0	4287.13
Na 330.237	240558xb	ppb	94.9212	0.0	13500.4
Ni 231.604	495.603b	ppb	13.7830	2.8	1773.84
Pb 220.353	506.496b	ppb	7.5227	1.5	1181.45
Sb 206.834	541.226b	ppb	3.6744	0.7	700.587
Se 196.026	2139.61b	ppb	30.9767	1.4	1384.95
Sn 189.925	955.334b	ppb	19.2453	2.0	1069.21
Sr 216.596	6528.12xb	ppb	125.510	1.9	95160.4
Ti 334.941	895.422b	ppb	2.4193	0.3	300939
Tl 190.794	2033.79b	ppb	20.7811	1.0	2215.32
V 292.401	594.445b	ppb	2.1693	0.4	18662.3
Zn 206.200	512.199b	ppb	13.4958	2.6	986.930

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680-90143-c-2-a (Samp) 5/16/2013, 10:20:45 PM Rack 2, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6713u	0.6371u	0.1910u
Al 308.215	363.424	366.687	500.032
As 188.980	107.783	114.852	165.562
B 249.678	454.707	457.404	482.627
Ba 389.178	95.4457	96.8178	113.501
Be 313.042	0.6478	0.6445	0.6836
Ca 370.602	150040	151188	194148
Cd 226.502	-0.3290	-0.1847	0.5787
Co 228.615	5.2238	5.2548	6.4744
Cr 267.716	577.073	580.211	709.234
Cu 324.754	9.1069	8.7080	7.0080
Fe 271.441	13691.3	13764.9	17323.9
K 766.491	6232.28	6220.93	10321.8
Mg 279.078	55440.8	55841.7	82803.5
Mn 257.610	3428.24	3473.53	4267.21
Mo 202.032	5.2694	5.1044	8.9109
Na 330.237	205260x	207706x	285323x
Ni 231.604	24.7871	25.2097	37.6218
Pb 220.353	6.1130	7.8852	15.2340
Sb 206.834	0.4999	2.9598	12.8631
Se 196.026	10.6663	8.1919	9.9224
Sn 189.925	0.1015	-1.4028u	-3.3035u
Sr 216.596	4255.57	4286.02	6029.48x
Ti 334.941	3.3124	3.4570	3.8206
Tl 190.794	7.8802	12.0768	11.3579
V 292.401	397.570	398.144	445.591
Zn 206.200	9.5571	8.4175	19.9843

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4998b	ppb	0.2680	53.6	-228.345
Al 308.215	410.048b	ppb	77.9457	19.0	942.411
As 188.980	129.399b	ppb	31.5170	24.4	82.2823
B 249.678	464.913b	ppb	15.4006	3.3	7438.09
Ba 389.178	101.921b	ppb	10.0514	9.9	2871.49
Be 313.042	0.6586b	ppb	0.0216	3.3	1000.13
Ca 370.602	165125b	ppb	25141	15.2	578457
Cd 226.502	0.0217b	ppb	0.4878	2252.4	100.375
Co 228.615	5.6510b	ppb	0.7132	12.6	94.2809
Cr 267.716	622.173b	ppb	75.4139	12.1	36856.0
Cu 324.754	8.2743b	ppb	1.1146	13.5	727.282
Fe 271.441	14926.7b	ppb	2076.35	13.9	30925.6
K 766.491	7591.66b	ppb	2364.34	31.1	318481
Mg 279.078	64695.4b	ppb	15683.4	24.2	170266
Mn 257.610	3722.99b	ppb	471.847	12.7	265974
Mo 202.032	6.4282b	ppb	2.1517	33.5	70.9789
Na 330.237	232763xb	ppb	45534.9	19.6	13071.9
Ni 231.604	29.2062b	ppb	7.2912	25.0	104.981
Pb 220.353	9.7441b	ppb	4.8363	49.6	53.3613
Sb 206.834	5.4409b	ppb	6.5444	120.3	11.1016
Se 196.026	9.5935b	ppb	1.2696	13.2	18.5299
Sn 189.925	-1.5349b	ppb	1.7063	111.2	-18.1125
Sr 216.596	4857.02xb	ppb	1015.49	20.9	70843.7
Ti 334.941	3.5300b	ppb	0.2619	7.4	1472.56
Tl 190.794	10.4383b	ppb	2.2443	21.5	-14.7277
V 292.401	413.768b	ppb	27.5603	6.7	13244.1
Zn 206.200	12.6530b	ppb	6.3747	50.4	31.1424

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680-90143-c-3-a (Samp) **5/16/2013, 10:26:10 PM** **Rack 2, Tube 16**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5060u	0.5183u	0.3730u
Al 308.215	28.9644	9.4399	81.7031
As 188.980	15.0542	15.3000	25.7947
B 249.678	619.377	606.462	644.261
Ba 389.178	30.6231	28.3518	34.3475
Be 313.042	0.0244	0.0266	-0.0426u
Ca 370.602	207421	181196	227926
Cd 226.502	-0.0812u	-0.1409u	0.3625
Co 228.615	2.0227	0.8784	0.0164u
Cr 267.716	4.0354	3.4351	5.2919
Cu 324.754	-0.8269u	0.3342	-0.3791u
Fe 271.441	560.056	502.682	646.938
K 766.491	7923.87	7614.47	11562.8
Mg 279.078	83281.0	69871.2	102325
Mn 257.610	2210.53	2004.54	2501.52
Mo 202.032	28.3100	25.9271	33.6960
Na 330.237	374179x	322787x	441623x
Ni 231.604	9.1732	7.5944	12.1984
Pb 220.353	2.3895	1.4628	4.0337
Sb 206.834	-0.4889u	-0.5708u	8.9666
Se 196.026	6.4164	6.9064	5.4427
Sn 189.925	0.2368	-2.8925u	-5.6434u
Sr 216.596	5055.36x	4373.76	6104.55x
Ti 334.941	-0.4549	-0.5759	-0.2296
Tl 190.794	4.2947	1.9254u	4.0499
V 292.401	19.2952	18.2719	20.3654
Zn 206.200	4.0906	3.0144	10.2244

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4658b	ppb	0.0806	17.3	-258.281
Al 308.215	40.0358b	ppb	37.3822	93.4	78.1273
As 188.980	18.7163b	ppb	6.1313	32.8	3.8540
B 249.678	623.367b	ppb	19.2127	3.1	9954.11
Ba 389.178	31.1074b	ppb	3.0271	9.7	1044.76
Be 313.042	0.0028b	ppb	0.0394	1399.3	-422.083
Ca 370.602	205514b	ppb	23423	11.4	721488
Cd 226.502	0.0468b	ppb	0.2750	587.2	41.4258
Co 228.615	0.9725b	ppb	1.0065	103.5	18.1670
Cr 267.716	4.2541b	ppb	0.9475	22.3	276.206
Cu 324.754	-0.2906b	ppb	0.5856	201.5	281.893
Fe 271.441	569.892b	ppb	72.6292	12.7	1211.15
K 766.491	9033.70b	ppb	2195.69	24.3	378924
Mg 279.078	85158.9b	ppb	16308.0	19.2	224157
Mn 257.610	2238.86b	ppb	249.694	11.2	160110
Mo 202.032	29.3110b	ppb	3.9800	13.6	270.316
Na 330.237	379530xb	ppb	59598.0	15.7	21275.4
Ni 231.604	9.6554b	ppb	2.3396	24.2	34.5996
Pb 220.353	2.6287b	ppb	1.3020	49.5	36.7069
Sb 206.834	2.6356b	ppb	5.4830	208.0	-0.4233
Se 196.026	6.2552b	ppb	0.7450	11.9	15.8303
Sn 189.925	-2.7664b	ppb	2.9421	106.4	-19.4212
Sr 216.596	5177.89xb	ppb	871.879	16.8	75517.0
Ti 334.941	-0.4202b	ppb	0.1758	41.8	241.846
Tl 190.794	3.4233b	ppb	1.3030	38.1	-19.6146
V 292.401	19.3108b	ppb	1.0468	5.4	601.449
Zn 206.200	5.7765b	ppb	3.8894	67.3	181.678

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680-90143-c-4-a (Samp) **5/16/2013, 10:31:34 PM** **Rack 2, Tube 17**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2427u	0.6393u	0.0094u
Al 308.215	51.7505	15.8491	52.3013
As 188.980	13.3245	5.9194	9.0361
B 249.678	548.522	524.122	542.780
Ba 389.178	38.2763	32.6827	38.2624
Be 313.042	-0.0930u	-0.0246u	-0.0866u
Ca 370.602	228178	195842	227889
Cd 226.502	0.2398	0.0914	0.1847
Co 228.615	0.7079	1.8002	2.4698
Cr 267.716	375.445	318.175	368.372
Cu 324.754	-1.6838u	0.1668	0.4632
Fe 271.441	64.1896	38.3600	67.1564
K 766.491	11557.2	8133.14	11166.7
Mg 279.078	67028.1	48604.9	66123.3
Mn 257.610	52.9310	43.2213	51.5919
Mo 202.032	4.6943	2.5537	3.9055
Na 330.237	292934x	220387x	306251x
Ni 231.604	4.9125	3.3150	3.8877
Pb 220.353	3.8639	1.3234	3.1836
Sb 206.834	17.0811	2.2931	17.7405
Se 196.026	25.2406	11.6389	8.8649
Sn 189.925	-3.5416u	0.2074	-6.4353u
Sr 216.596	5368.84	4078.64	5256.60
Ti 334.941	-0.1802	-0.4714	-0.1862
Tl 190.794	-2.6806u	2.3778	-1.7871u
V 292.401	20.0845	16.9966	19.6807
Zn 206.200	47.8605	24.8357	42.6983

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1353b	ppb	0.4543	335.7	-283.634
Al 308.215	39.9669b	ppb	20.8885	52.3	76.5820
As 188.980	9.4266b	ppb	3.7180	39.4	-2.6464
B 249.678	538.475b	ppb	12.7571	2.4	8619.08
Ba 389.178	36.4071b	ppb	3.2254	8.9	1109.90
Be 313.042	-0.0681b	ppb	0.0378	55.5	-552.294
Ca 370.602	217303b	ppb	18586	8.6	762853
Cd 226.502	0.1719b	ppb	0.0750	43.6	45.7072
Co 228.615	1.6593b	ppb	0.8894	53.6	31.5797
Cr 267.716	353.998b	ppb	31.2241	8.8	20964.8
Cu 324.754	-0.3513b	ppb	1.1635	331.2	277.849
Fe 271.441	56.5687b	ppb	15.8388	28.0	149.889
K 766.491	10285.7b	ppb	1874.35	18.2	431400
Mg 279.078	60585.4b	ppb	10385.3	17.1	159514
Mn 257.610	49.2481b	ppb	5.2621	10.7	3804.51
Mo 202.032	3.7179b	ppb	1.0826	29.1	49.3552
Na 330.237	273191xb	ppb	46211.5	16.9	15335.0
Ni 231.604	4.0384b	ppb	0.8093	20.0	14.4820
Pb 220.353	2.7903b	ppb	1.3152	47.1	36.5035
Sb 206.834	12.3715b	ppb	8.7344	70.6	15.9335
Se 196.026	15.2482b	ppb	8.7642	57.5	20.9296
Sn 189.925	-3.2565b	ppb	3.3305	102.3	-20.0221
Sr 216.596	4901.36b	ppb	714.705	14.6	71488.8
Ti 334.941	-0.2792b	ppb	0.1665	59.6	165.045
Tl 190.794	-0.6966b	ppb	2.6998	387.6	-20.7365
V 292.401	18.9206b	ppb	1.6784	8.9	570.173
Zn 206.200	38.4648b	ppb	12.0821	31.4	80.4448

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680-90143-c-5-a (Samp) **5/16/2013, 10:36:59 PM** **Rack 2, Tube 18**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4473u	0.8595u	0.9244u
Al 308.215	136.132	86.3517	150.802
As 188.980	18.3850	11.1885	22.5350
B 249.678	585.153	562.632	584.000
Ba 389.178	30.1602	28.1540	30.9088
Be 313.042	0.0104	0.0563	0.0179
Ca 370.602	215310	191809	208415
Cd 226.502	0.3077	-0.0750	0.0674
Co 228.615	-1.4473u	0.2099	-2.8550u
Cr 267.716	932.457	828.210	909.905
Cu 324.754	2.4141	1.8507	0.9532
Fe 271.441	1024.56	842.516	960.992
K 766.491	8708.60	5776.54	7852.98
Mg 279.078	103310	81065.8	97891.2
Mn 257.610	168.200	145.617	160.989
Mo 202.032	11.0985	8.3736	10.6309
Na 330.237	257802x	181729x	224759x
Ni 231.604	15.8693	12.9715	13.6906
Pb 220.353	0.4838	2.0364	5.8654
Sb 206.834	19.1464	7.7069	12.1981
Se 196.026	4.0120	0.5314	11.9707
Sn 189.925	-4.8072u	0.1974	-3.2809u
Sr 216.596	7649.29x	6551.76x	7420.82x
Ti 334.941	0.4643	0.3253	0.5707
Tl 190.794	-2.5786u	0.4810	0.7404
V 292.401	123.182	109.573	114.927
Zn 206.200	52.5636	35.0077	52.8679

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7437b	ppb	0.2588	34.8	-354.558
Al 308.215	124.428b	ppb	33.7814	27.1	274.449
As 188.980	17.3695b	ppb	5.7410	33.1	2.8939
B 249.678	577.261b	ppb	12.6823	2.2	9228.00
Ba 389.178	29.7410b	ppb	1.4244	4.8	1036.19
Be 313.042	0.0282b	ppb	0.0246	87.3	-346.694
Ca 370.602	205178b	ppb	12080	5.9	720213
Cd 226.502	0.1001b	ppb	0.1934	193.3	46.8511
Co 228.615	-1.3642b	ppb	1.5341	112.5	-13.4724
Cr 267.716	890.190b	ppb	54.8484	6.2	52701.9
Cu 324.754	1.7393b	ppb	0.7368	42.4	386.099
Fe 271.441	942.690b	ppb	92.3931	9.8	1985.15
K 766.491	7446.04b	ppb	1507.80	20.2	312378
Mg 279.078	94089.0b	ppb	11599.3	12.3	247703
Mn 257.610	158.269b	ppb	11.5349	7.3	11669.4
Mo 202.032	10.0343b	ppb	1.4571	14.5	103.628
Na 330.237	221430xb	ppb	38145.6	17.2	12443.1
Ni 231.604	14.1772b	ppb	1.5089	10.6	50.7951
Pb 220.353	2.7952b	ppb	2.7699	99.1	36.5360
Sb 206.834	13.0171b	ppb	5.7636	44.3	23.0176
Se 196.026	5.5047b	ppb	5.8639	106.5	14.7143
Sn 189.925	-2.6302b	ppb	2.5649	97.5	-19.3415
Sr 216.596	7207.29xb	ppb	579.087	8.0	105098
Ti 334.941	0.4534b	ppb	0.1230	27.1	598.066
Tl 190.794	-0.4524b	ppb	1.8459	408.1	-20.6379
V 292.401	115.894b	ppb	6.8558	5.9	3648.44
Zn 206.200	46.8131b	ppb	10.2249	21.8	94.7782

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680-90143-c-6-a (Samp) **5/16/2013, 10:42:24 PM** **Rack 2, Tube 19****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3487u	0.8109u	0.8616u
Al 308.215	94.7343	73.9467	56.1302
As 188.980	18.6228	14.8724	26.5611
B 249.678	584.568	572.831	579.235
Ba 389.178	20.5940	19.5343	20.1717
Be 313.042	-0.0348u	-0.0393u	-0.0317u
Ca 370.602	125567	177068	170863
Cd 226.502	0.2841	0.1345	0.1955
Co 228.615	0.7115	-0.2503u	-1.0484u
Cr 267.716	331.587	330.275	320.825
Cu 324.754	-1.5291u	-0.6895u	0.0547
Fe 271.441	371.628	396.104	369.391
K 766.491	8075.02	8729.19	8491.05
Mg 279.078	78463.4	80483.6	75909.6
Mn 257.610	238.886	239.391	235.615
Mo 202.032	16.9426	18.4256	17.2262
Na 330.237	335131x	351484x	337112x
Ni 231.604	3.3538	3.1590	4.3595
Pb 220.353	5.5636	2.7881	2.4824
Sb 206.834	7.3947	9.2252	-0.7321
Se 196.026	11.0569	19.3773	18.3254
Sn 189.925	-1.8269u	-5.7986u	-6.1165u
Sr 216.596	5057.57	5130.43	4856.55
Ti 334.941	-0.3796	-0.2788	-0.4039
Tl 190.794	-8.9718u	-7.8371u	-6.4530u
V 292.401	93.3932	102.664	99.2607
Zn 206.200	6.9114	5.4776	2.5381

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6737b	ppb	0.2826	41.9	-242.539
Al 308.215	74.9371b	ppb	19.3211	25.8	158.814
As 188.980	20.0188b	ppb	5.9680	29.8	4.3087
B 249.678	578.878b	ppb	5.8769	1.0	9254.34
Ba 389.178	20.1000b	ppb	0.5335	2.7	734.481
Be 313.042	-0.0353b	ppb	0.0038	10.8	-519.909
Ca 370.602	157833b	ppb	28115	17.8	554060
Cd 226.502	0.2047b	ppb	0.0752	36.8	48.4651
Co 228.615	-0.1958b	ppb	0.8812	450.1	1.9295
Cr 267.716	327.562b	ppb	5.8716	1.8	19401.6
Cu 324.754	-0.7213b	ppb	0.7924	109.9	258.253
Fe 271.441	379.041b	ppb	14.8192	3.9	817.483
K 766.491	8431.75b	ppb	331.090	3.9	353694
Mg 279.078	78285.6b	ppb	2292.18	2.9	206102
Mn 257.610	237.964b	ppb	2.0496	0.9	17315.4
Mo 202.032	17.5315b	ppb	0.7872	4.5	168.435
Na 330.237	341242xb	ppb	8924.49	2.6	19136.7
Ni 231.604	3.6241b	ppb	0.6443	17.8	13.0086
Pb 220.353	3.6114b	ppb	1.6976	47.0	38.4008
Sb 206.834	5.2959b	ppb	5.3000	100.1	6.8336
Se 196.026	16.2532b	ppb	4.5307	27.9	21.6335
Sn 189.925	-4.5807b	ppb	2.3901	52.2	-21.5289
Sr 216.596	5014.85b	ppb	141.853	2.8	73134.4
Ti 334.941	-0.3541b	ppb	0.0663	18.7	230.220
Tl 190.794	-7.7540b	ppb	1.2615	16.3	-28.7589
V 292.401	98.4394b	ppb	4.6898	4.8	3124.91
Zn 206.200	4.9757b	ppb	2.2294	44.8	15.3452

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680-90143-c-7-a (Samp) 5/16/2013, 10:47:49 PM Rack 2, Tube 20
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.9103u	0.7578u	0.2451u
Al 308.215	95.1528	156.102	173.229
As 188.980	46.8845	43.5489	45.6890
B 249.678	631.042	659.867	675.543
Ba 389.178	58.0436	59.0193	63.2597
Be 313.042	0.1540	0.1326	0.1217
Ca 370.602	153721	204714	205087
Cd 226.502	-0.0845	0.2294	0.4690
Co 228.615	2.5580	0.9442	1.3584
Cr 267.716	230.484	243.829	251.856
Cu 324.754	1.2306	1.7055	3.0691
Fe 271.441	13789.1	14820.7	15356.7
K 766.491	8224.26	10153.5	9985.65
Mg 279.078	84246.2	94347.9	98217.2
Mn 257.610	2042.05	2462.23	2500.51
Mo 202.032	19.6598	22.3678	26.1762
Na 330.237	328362x	364195x	369034x
Ni 231.604	15.5514	18.1557	20.2018
Pb 220.353	0.5623	6.6936	4.7459
Sb 206.834	9.2715	0.9848	4.8973
Se 196.026	4.4666	-7.3577u	-9.7319u
Sn 189.925	-1.0415u	-8.8155u	-4.0069u
Sr 216.596	6392.91x	6791.63x	6807.27x
Ti 334.941	5.3105	5.5013	5.7180
Tl 190.794	0.6780u	0.5936u	-8.5280u
V 292.401	72.5659	75.3518	84.3519
Zn 206.200	9.4134	12.1953	12.6924

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6377b	ppb	0.3485	54.6	-325.482
Al 308.215	141.494b	ppb	41.0366	29.0	315.481
As 188.980	45.3741b	ppb	1.6900	3.7	22.6722
B 249.678	655.484b	ppb	22.5721	3.4	10437.3
Ba 389.178	60.1075b	ppb	2.7731	4.6	1851.80
Be 313.042	0.1361b	ppb	0.0164	12.0	-138.187
Ca 370.602	187841b	ppb	29549	15.7	658176
Cd 226.502	0.2047b	ppb	0.2775	135.6	107.841
Co 228.615	1.6202b	ppb	0.8381	51.7	29.1508
Cr 267.716	242.056b	ppb	10.7957	4.5	14355.2
Cu 324.754	2.0017b	ppb	0.9544	47.7	404.767
Fe 271.441	14655.5b	ppb	796.741	5.4	30359.9
K 766.491	9454.48b	ppb	1068.70	11.3	396561
Mg 279.078	92270.4b	ppb	7213.45	7.8	242879
Mn 257.610	2334.93b	ppb	254.363	10.9	166995
Mo 202.032	22.7346b	ppb	3.2736	14.4	212.554
Na 330.237	353864xb	ppb	22217.7	6.3	19836.9
Ni 231.604	17.9696b	ppb	2.3308	13.0	64.7573
Pb 220.353	4.0006b	ppb	3.1328	78.3	39.8390
Sb 206.834	5.0512b	ppb	4.1455	82.1	5.8230
Se 196.026	-4.2077b	ppb	7.6054	180.7	9.2215
Sn 189.925	-4.6213b	ppb	3.9233	84.9	-21.5531
Sr 216.596	6663.93xb	ppb	234.846	3.5	97182.5
Ti 334.941	5.5099b	ppb	0.2039	3.7	2275.22
Tl 190.794	-2.4188b	ppb	5.2909	218.7	-26.8045
V 292.401	77.4232b	ppb	6.1600	8.0	2454.37
Zn 206.200	11.4337b	ppb	1.7672	15.5	201868

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680-90143-c-8-a (Samp) **5/16/2013, 10:53:14 PM** **Rack 2, Tube 21**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.3636u	0.4205u	0.8217u
Al 308.215	122.656	166.416	162.467
As 188.980	10.0195	15.5622	8.9157
B 249.678	471.605	470.380	466.647
Ba 389.178	24.1106	23.2387	25.7659
Be 313.042	-0.0485u	-0.0576u	-0.0666u
Ca 370.602	122966	192594	189673
Cd 226.502	0.2222	0.0693	0.3605
Co 228.615	-0.9675u	-1.5615u	-0.9052u
Cr 267.716	847.633	857.194	852.543
Cu 324.754	2.7001	1.4964	1.3601
Fe 271.441	145.807	148.218	163.987
K 766.491	8144.81	9462.94	8938.84
Mg 279.078	79304.4	85165.6	84309.1
Mn 257.610	2.3098	2.6128	2.8942
Mo 202.032	6.6001	6.2806	7.1345
Na 330.237	204251x	216221x	209730x
Ni 231.604	6.6371	7.7585	3.2162
Pb 220.353	3.6333	8.3271	12.2406
Sb 206.834	12.6305	29.3474	17.1922
Se 196.026	6.7682	0.2906	6.7641
Sn 189.925	-0.3991u	-1.7711u	-2.1160u
Sr 216.596	5774.27x	5979.33x	5952.92x
Ti 334.941	0.2618	0.3748	0.3741
Tl 190.794	-4.2532u	-4.5833u	-10.6377u
V 292.401	75.0462	75.6020	83.0620
Zn 206.200	24.8421	27.3473	29.6281

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8686b	ppb	0.4733	54.5	-292.633
Al 308.215	150.513b	ppb	24.2057	16.1	335.750
As 188.980	11.4991b	ppb	3.5617	31.0	-1.5899
B 249.678	469.544b	ppb	2.5824	0.5	7534.22
Ba 389.178	24.3717b	ppb	1.2837	5.3	864.628
Be 313.042	-0.0576b	ppb	0.0090	15.7	-542.140
Ca 370.602	168411b	ppb	39384	23.4	591208
Cd 226.502	0.2173b	ppb	0.1456	67.0	49.2389
Co 228.615	-1.1447b	ppb	0.3623	31.6	-10.0360
Cr 267.716	852.457b	ppb	4.7812	0.6	50467.5
Cu 324.754	1.8522b	ppb	0.7374	39.8	392.025
Fe 271.441	152.671b	ppb	9.8738	6.5	349.958
K 766.491	8848.86b	ppb	663.652	7.5	371177
Mg 279.078	82926.3b	ppb	3165.85	3.8	218322
Mn 257.610	2.6056b	ppb	0.2922	11.2	536.523
Mo 202.032	6.6717b	ppb	0.4314	6.5	74.7239
Na 330.237	210067xb	ppb	5992.25	2.9	11808.7
Ni 231.604	5.8706b	ppb	2.3661	40.3	21.0433
Pb 220.353	8.0670b	ppb	4.3095	53.4	48.4986
Sb 206.834	19.7234b	ppb	8.6411	43.8	30.7025
Se 196.026	4.6076b	ppb	3.7386	81.1	14.0849
Sn 189.925	-1.4287b	ppb	0.9082	63.6	-18.0002
Sr 216.596	5902.17xb	ppb	111.554	1.9	86070.5
Ti 334.941	0.3369b	ppb	0.0651	19.3	507.320
Tl 190.794	-6.4914b	ppb	3.5946	55.4	-27.0127
V 292.401	77.9034b	ppb	4.4761	5.7	2430.82
Zn 206.200	27.2725b	ppb	2.3939	8.8	56.7555

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680-90122-i-3-a (Samp) **5/16/2013, 10:58:40 PM** **Rack 2, Tube 22****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1769	0.9498	0.9976
Al 308.215	5042.45	4981.16	4481.91
As 188.980	167.797	153.728	128.448
B 249.678	229.298	225.962	221.456
Ba 389.178	185.174	188.824	175.895
Be 313.042	53.7017	52.2297	50.9024
Ca 370.602	241678	228781	227357
Cd 226.502	71.0563	66.6673	56.2211
Co 228.615	50.2665	56.4078	57.8123
Cr 267.716	115.031	109.500	105.293
Cu 324.754	75.7539	102.978	90.1791
Fe 271.441	12745.1	12229.8	11403.0
K 766.491	12444.0	10587.6	8700.59
Mg 279.078	61967.1	57630.0	51279.9
Mn 257.610	5289.46	5060.66	4730.43
Mo 202.032	126.544	122.220	113.129
Na 330.237	23740.8	22334.3	19839.7
Ni 231.604	137.463	120.371	105.932
Pb 220.353	80.1216	81.1258	58.2086
Sb 206.834	58.2008	71.6665	49.8574
Se 196.026	162.019	148.144	114.299
Sn 189.925	274.045	247.886	224.284
Sr 216.596	593.590	550.820	512.711
Ti 334.941	95.2208	94.1654	93.4311
Tl 190.794	58.1407	58.4997	55.8936
V 292.401	105.192	110.148	100.065
Zn 206.200	189.587	170.259	133.285

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7081	ppb	0.4607	65.1	22.6214
Al 308.215	4835.18	ppb	307.466	6.4	11336.8
As 188.980	149.991	ppb	19.9388	13.3	97.5736
B 249.678	225.572	ppb	3.9355	1.7	3676.05
Ba 389.178	183.298	ppb	6.6656	3.6	4987.91
Be 313.042	52.2780	ppb	1.4003	2.7	113590
Ca 370.602	232605	ppb	7889	3.4	815617
Cd 226.502	64.6482	ppb	7.6209	11.8	3232.37
Co 228.615	54.8289	ppb	4.0131	7.3	856.112
Cr 267.716	109.941	ppb	4.8835	4.4	6537.01
Cu 324.754	89.6371	ppb	13.6204	15.2	4967.26
Fe 271.441	12126.0	ppb	677.044	5.6	25135.4
K 766.491	10577.4	ppb	1871.71	17.7	443628
Mg 279.078	56959.0	ppb	5375.13	9.4	149887
Mn 257.610	5026.85	ppb	281.045	5.6	358994
Mo 202.032	120.631	ppb	6.8473	5.7	1057.96
Na 330.237	21971.6	ppb	1975.69	9.0	1295.32
Ni 231.604	121.255	ppb	15.7841	13.0	434.353
Pb 220.353	73.1520	ppb	12.9511	17.7	197.680
Sb 206.834	59.9082	ppb	11.0043	18.4	69.5153
Se 196.026	141.487	ppb	24.5462	17.3	103.381
Sn 189.925	248.738	ppb	24.8915	10.0	266.221
Sr 216.596	552.374	ppb	40.4622	7.3	8100.06
Ti 334.941	94.2725	ppb	0.8996	1.0	31918.2
Tl 190.794	57.5113	ppb	1.4125	2.5	35.9959
V 292.401	105.135	ppb	5.0416	4.8	3335.45
Zn 206.200	164.377	ppb	28.6079	17.4	328.340

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680-90122-a-3-a ms (Samp) 5/16/2013, 11:04:06 PM Rack 2, Tube 23**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.5704	53.0622	51.6970
Al 308.215	5020.94	4518.76	4796.04
As 188.980	165.006	136.961	138.290
B 249.678	219.413	213.852	227.852
Ba 389.178	177.387	169.313	176.204
Be 313.042	54.0627	51.0523	54.2397
Ca 370.602	230243	215866	160706
Cd 226.502	72.0073	58.8922	67.5840
Co 228.615	59.3834	54.6571	57.7946
Cr 267.716	115.185	106.467	115.498
Cu 324.754	91.2785	97.2013	95.9850
Fe 271.441	17927.0	16391.3	17836.1
K 766.491	11440.8	9506.58	11136.4
Mg 279.078	51016.3	43424.4	49010.9
Mn 257.610	4464.12	4128.76	4056.15
Mo 202.032	116.415	104.967	114.615
Na 330.237	19218.7	15936.5	17828.4
Ni 231.604	124.234	109.220	115.690
Pb 220.353	83.9203	60.1535	74.0910
Sb 206.834	57.6738	56.4265	57.8005
Se 196.026	162.631	129.706	136.025
Sn 189.925	270.912	231.795	257.134
Sr 216.596	565.478	489.985	549.161
Ti 334.941	95.4142	93.9102	98.1873
Tl 190.794	61.9466	55.3930	52.2632
V 292.401	109.428	102.721	107.021
Zn 206.200	174.011	132.188	154.439

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.4432	ppb	0.6915	1.3	4615.68
Al 308.215	4778.58	ppb	251.549	5.3	11203.6
As 188.980	146.752	ppb	15.8222	10.8	95.0132
B 249.678	220.372	ppb	7.0492	3.2	3585.68
Ba 389.178	174.301	ppb	4.3605	2.5	4733.05
Be 313.042	53.1182	ppb	1.7913	3.4	115413
Ca 370.602	202272	ppb	36708	18.1	708618
Cd 226.502	66.1611	ppb	6.6723	10.1	3328.28
Co 228.615	57.2784	ppb	2.4050	4.2	894.444
Cr 267.716	112.383	ppb	5.1264	4.6	6678.76
Cu 324.754	94.8216	ppb	3.1281	3.3	5238.51
Fe 271.441	17384.8	ppb	861.610	5.0	36018.0
K 766.491	10694.6	ppb	1040.06	9.7	448541
Mg 279.078	47817.2	ppb	3934.18	8.2	125840
Mn 257.610	4216.34	ppb	217.632	5.2	301140
Mo 202.032	111.999	ppb	6.1557	5.5	983.097
Na 330.237	17661.2	ppb	1647.48	9.3	1052.82
Ni 231.604	116.381	ppb	7.5306	6.5	417.065
Pb 220.353	72.7216	ppb	11.9425	16.4	196.477
Sb 206.834	57.3003	ppb	0.7593	1.3	66.6705
Se 196.026	142.788	ppb	17.4732	12.2	104.000
Sn 189.925	253.280	ppb	19.8410	7.8	271.364
Sr 216.596	534.875	ppb	39.7224	7.4	7844.52
Ti 334.941	95.8373	ppb	2.1697	2.3	32395.7
Tl 190.794	56.5343	ppb	4.9415	8.7	35.9103
V 292.401	106.390	ppb	3.3979	3.2	3377.25
Zn 206.200	153.546	ppb	20.9262	13.6	207.963

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680-90122-i-3-b msd (Samp) 5/16/2013, 11:09:32 PM Rack 2, Tube 24**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.2126	50.0874	50.1524
Al 308.215	5067.22	4654.71	5050.99
As 188.980	168.595	134.599	156.216
B 249.678	221.909	220.085	228.192
Ba 389.178	196.271	186.384	191.736
Be 313.042	53.1228	52.4343	54.5586
Ca 370.602	245293	247485	241766
Cd 226.502	68.3754	59.8806	69.8862
Co 228.615	58.9071	55.2522	49.2705
Cr 267.716	111.789	109.103	115.298
Cu 324.754	97.5684	88.1390	91.2115
Fe 271.441	14648.3	14022.4	15084.0
K 766.491	11238.1	9580.56	12492.7
Mg 279.078	58689.3	53789.5	60735.2
Mn 257.610	4998.02	4844.34	5089.56
Mo 202.032	122.765	114.573	127.525
Na 330.237	21604.0	19566.0	22322.6
Ni 231.604	125.659	115.582	131.802
Pb 220.353	76.4030	65.2989	77.6069
Sb 206.834	64.8273	55.3702	61.3402
Se 196.026	136.131	120.428	154.769
Sn 189.925	268.476	229.345	270.657
Sr 216.596	578.120	553.415	603.852
Ti 334.941	94.8965	95.9277	96.6367
Tl 190.794	51.2500	46.4178	62.3308
V 292.401	113.881	103.674	105.995
Zn 206.200	171.239	138.842	179.269

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.8175	ppb	2.9404	5.7	4562.03
Al 308.215	4924.31	ppb	233.618	4.7	11546.0
As 188.980	153.137	ppb	17.2060	11.2	99.9453
B 249.678	223.395	ppb	4.2531	1.9	3637.88
Ba 389.178	191.464	ppb	4.9488	2.6	5209.06
Be 313.042	53.3719	ppb	1.0838	2.0	115980
Ca 370.602	244848	ppb	2885	1.2	858372
Cd 226.502	66.0474	ppb	5.3938	8.2	3310.72
Co 228.615	54.4766	ppb	4.8649	8.9	850.544
Cr 267.716	112.063	ppb	3.1070	2.8	6663.19
Cu 324.754	92.3063	ppb	4.8091	5.2	5106.92
Fe 271.441	14584.9	ppb	533.634	3.7	30223.7
K 766.491	11103.8	ppb	1460.69	13.2	465691
Mg 279.078	57738.0	ppb	3569.25	6.2	151938
Mn 257.610	4977.31	ppb	123.920	2.5	355463
Mo 202.032	121.621	ppb	6.5517	5.4	1066.35
Na 330.237	21164.2	ppb	1429.96	6.8	1249.40
Ni 231.604	124.348	ppb	8.1890	6.6	445.494
Pb 220.353	73.1030	ppb	6.7852	9.3	197.563
Sb 206.834	60.5125	ppb	4.7826	7.9	70.3455
Se 196.026	137.109	ppb	17.1911	12.5	100.583
Sn 189.925	256.159	ppb	23.2476	9.1	274.661
Sr 216.596	578.462	ppb	25.2205	4.4	8483.41
Ti 334.941	95.8203	ppb	0.8750	0.9	32442.3
Tl 190.794	53.3329	ppb	8.1584	15.3	31.2947
V 292.401	107.850	ppb	5.3500	5.0	3422.51
Zn 206.200	163.117	ppb	21.4022	13.1	326.213

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mb 680-276661/1-a (Samp) **5/16/2013, 11:25:49 PM** **Rack 2, Tube 27**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3357u	-0.2425u	-0.8131u
Al 308.215	53.6888	23.6139	79.1169
As 188.980	6.4759	3.9680	6.1857
B 249.678	7.8132	4.1147	6.0139
Ba 389.178	3.0693	0.5233	2.2232
Be 313.042	-0.0844u	-0.0107u	-0.0596u
Ca 370.602	-15.74u	-10.86u	-20.32u
Cd 226.502	0.4391	0.1700	0.4076
Co 228.615	-0.3059u	0.3007	-3.4281u
Cr 267.716	-0.4395u	0.1694	-0.0028u
Cu 324.754	1.8414	-1.0645u	-1.0999u
Fe 271.441	13.2576	6.8532	7.2481
K 766.491	9.0741	3.4168	11.8454
Mg 279.078	25.3638	9.0255	28.3160
Mn 257.610	0.9369	0.1570	0.7130
Mo 202.032	2.9614	0.4674	2.0295
Na 330.237	455.624	-216.713u	-101.662u
Ni 231.604	0.1323	1.8212	-0.1793u
Pb 220.353	7.8357	4.5662	5.1439
Sb 206.834	3.0536	9.6374	-2.6384u
Se 196.026	8.5059	-3.1740u	-2.4165u
Sn 189.925	-4.3928u	-0.2887u	-1.0900u
Sr 216.596	1.4177	0.4177	2.2783
Ti 334.941	-0.1781u	0.0505	0.0194
Tl 190.794	-6.0705u	-4.4137u	-4.4991u
V 292.401	-0.1823u	0.0286	-0.0213u
Zn 206.200	1.7341	0.4977	1.4214

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4637	ppb	0.3061	66.0	-71.6591
Al 308.215	52.1399	ppb	27.7839	53.3	105.159
As 188.980	5.5432	ppb	1.3719	24.7	-7.4468
B 249.678	5.9806	ppb	1.8495	30.9	239.913
Ba 389.178	1.9386	ppb	1.2967	66.9	22.4645
Be 313.042	-0.0516	ppb	0.0375	72.7	-560.601
Ca 370.602	-15.64	ppb	4.729	30.2	-43.34
Cd 226.502	0.3389	ppb	0.1471	43.4	54.5889
Co 228.615	-1.1444	ppb	2.0009	174.8	-13.5882
Cr 267.716	-0.0910	ppb	0.3139	345.1	-0.3987
Cu 324.754	-0.1077	ppb	1.6881	1567.9	290.638
Fe 271.441	9.1196	ppb	3.5890	39.4	50.1409
K 766.491	8.1121	ppb	4.2959	53.0	619.312
Mg 279.078	20.9018	ppb	10.3905	49.7	90.8772
Mn 257.610	0.6023	ppb	0.4016	66.7	180.089
Mo 202.032	1.8195	ppb	1.2602	69.3	33.0061
Na 330.237	45.7500	ppb	359.593	786.0	76.6344
Ni 231.604	0.5914	ppb	1.0764	182.0	2.1435
Pb 220.353	5.8486	ppb	1.7449	29.8	43.4563
Sb 206.834	3.3509	ppb	6.1433	183.3	0.8355
Se 196.026	0.9718	ppb	6.5357	672.5	11.7482
Sn 189.925	-1.9238	ppb	2.1754	113.1	-18.7569
Sr 216.596	1.3713	ppb	0.9312	67.9	38.4752
Ti 334.941	-0.0361	ppb	0.1240	343.6	-57.1382
Tl 190.794	-4.9944	ppb	0.9329	18.7	-25.3917
V 292.401	-0.0583	ppb	0.1102	188.9	-12.2583
Zn 206.200	1.2177	ppb	0.6429	52.8	9.2286

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ics 680-276661/2-a (Samp) 5/16/2013, 11:31:14 PM Rack 2, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	54.9023	42.0484	52.6129
Al 308.215	4372.47	4581.84	4658.13
As 188.980	148.394	166.786	170.787
B 249.678	193.091	197.264	205.829
Ba 389.178	108.744	110.348	115.072
Be 313.042	50.8215	51.7753	53.3317
Ca 370.602	5419	5568	5491
Cd 226.502	74.8337	78.6466	80.4976
Co 228.615	60.9345	46.9952	56.8221
Cr 267.716	114.088	118.170	118.712
Cu 324.754	94.6043	71.3144	93.5217
Fe 271.441	5450.28	5635.28	5751.09
K 766.491	8189.29	9394.16	9529.43
Mg 279.078	6440.85	6781.98	6821.05
Mn 257.610	792.532	820.435	833.544
Mo 202.032	110.253	115.125	118.647
Na 330.237	5758.55	6147.34	6593.21
Ni 231.604	126.602	142.944	133.709
Pb 220.353	74.6874	78.9485	84.1107
Sb 206.834	56.3285	62.4923	57.0640
Se 196.026	148.614	158.124	162.488
Sn 189.925	282.932	302.710	307.848
Sr 216.596	130.578	134.620	136.578
Ti 334.941	91.2681	92.8035	94.3907
Tl 190.794	49.2141	52.2410	50.7311
V 292.401	108.328	108.144	115.010
Zn 206.200	181.265	192.234	199.017

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.8545	ppb	6.8565	13.8	4394.61
Al 308.215	4537.48	ppb	147.904	3.3	10638.1
As 188.980	161.989	ppb	11.9426	7.4	103.865
B 249.678	198.728	ppb	6.4944	3.3	3263.77
Ba 389.178	111.388	ppb	3.2897	3.0	2933.72
Be 313.042	51.9762	ppb	1.2671	2.4	112846
Ca 370.602	5492	ppb	74.42	1.4	18805
Cd 226.502	77.9926	ppb	2.8880	3.7	3853.68
Co 228.615	54.9173	ppb	7.1622	13.0	857.680
Cr 267.716	116.990	ppb	2.5279	2.2	6932.76
Cu 324.754	86.4802	ppb	13.1451	15.2	4800.95
Fe 271.441	5612.22	ppb	151.727	2.7	11656.5
K 766.491	9037.63	ppb	737.787	8.2	379089
Mg 279.078	6681.29	ppb	209.143	3.1	17611.2
Mn 257.610	815.504	ppb	20.9463	2.6	58351.2
Mo 202.032	114.675	ppb	4.2150	3.7	1006.90
Na 330.237	6166.37	ppb	417.659	6.8	414.296
Ni 231.604	134.418	ppb	8.1944	6.1	481.284
Pb 220.353	79.2489	ppb	4.7188	6.0	210.508
Sb 206.834	58.6283	ppb	3.3665	5.7	67.8844
Se 196.026	156.409	ppb	7.0946	4.5	111.763
Sn 189.925	297.830	ppb	13.1557	4.4	321.867
Sr 216.596	133.925	ppb	3.0598	2.3	1965.37
Ti 334.941	92.8208	ppb	1.5614	1.7	31155.2
Tl 190.794	50.7287	ppb	1.5134	3.0	34.6763
V 292.401	110.494	ppb	3.9122	3.5	3506.37
Zn 206.200	190.839	ppb	8.9581	4.7	378.999

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680-90160-a-6-a (Samp) **5/16/2013, 11:36:39 PM** **Rack 2, Tube 29**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7898u	-1.0973u	-1.0223u
Al 308.215	107.422	72.2648	71.0353
As 188.980	-10.8963u	7.0220	0.5579
B 249.678	5.9464	5.0232	4.5993
Ba 389.178	0.2046	1.5702	2.0212
Be 313.042	-0.0770u	-0.0398u	-0.0178u
Ca 370.602	-11.59u	-0.2070u	9.567
Cd 226.502	0.7742	0.8800	0.4652
Co 228.615	-2.2242u	-1.0148u	-0.1872u
Cr 267.716	0.3907	0.4101	0.2830
Cu 324.754	0.0635	-0.5974u	-1.2165u
Fe 271.441	29.2840	-6.9910u	8.5837
K 766.491	23.1674	18.2506	16.4998
Mg 279.078	48.4170	31.5093	27.8778
Mn 257.610	1.9534	1.6230	1.2772
Mo 202.032	3.9907	3.5300	2.6068
Na 330.237	76.6680	213.649	167.077
Ni 231.604	1.2817	4.3701	1.3510
Pb 220.353	12.0526	12.1873	5.4118
Sb 206.834	1.9082	8.4205	10.2719
Se 196.026	20.2893	5.6378	6.0536
Sn 189.925	-7.1722u	-2.1203u	1.4262
Sr 216.596	2.0107	3.8958	3.2210
Ti 334.941	0.0618	0.0322	0.1709
Tl 190.794	-13.7647u	-20.6142u	-8.3638u
V 292.401	0.5110	-0.1853u	-0.4815u
Zn 206.200	11.5922	11.7857	7.5083

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9698	ppb	0.1604	16.5	-116.710
Al 308.215	83.5742	ppb	20.6623	24.7	179.028
As 188.980	-1.1055	ppb	9.0742	820.9	-12.1760
B 249.678	5.1896	ppb	0.6888	13.3	227.449
Ba 389.178	1.2653	ppb	0.9459	74.8	4.8240
Be 313.042	-0.0449	ppb	0.0299	66.6	-546.280
Ca 370.602	-0.7442	ppb	10.59	1423.0	8.011
Cd 226.502	0.7064	ppb	0.2155	30.5	72.4992
Co 228.615	-1.1421	ppb	1.0244	89.7	-13.6214
Cr 267.716	0.3613	ppb	0.0685	19.0	26.3759
Cu 324.754	-0.5835	ppb	0.6401	109.7	265.929
Fe 271.441	10.2922	ppb	18.1977	176.8	52.5693
K 766.491	19.3059	ppb	3.4568	17.9	1088.50
Mg 279.078	35.9347	ppb	10.9614	30.5	130.438
Mn 257.610	1.6179	ppb	0.3381	20.9	252.606
Mo 202.032	3.3759	ppb	0.7047	20.9	46.4449
Na 330.237	152.465	ppb	69.6499	45.7	82.5173
Ni 231.604	2.3343	ppb	1.7634	75.5	8.3817
Pb 220.353	9.8839	ppb	3.8736	39.2	52.6388
Sb 206.834	6.8669	ppb	4.3930	64.0	5.0700
Se 196.026	10.6603	ppb	8.3416	78.2	17.9685
Sn 189.925	-2.6221	ppb	4.3211	164.8	-19.5503
Sr 216.596	3.0425	ppb	0.9552	31.4	62.7028
Ti 334.941	0.0883	ppb	0.0730	82.7	-15.2962
Tl 190.794	-14.2476	ppb	6.1395	43.1	-35.5657
V 292.401	-0.0519	ppb	0.5095	980.9	-12.4808
Zn 206.200	10.2954	ppb	2.4156	23.5	26.9139

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680-90160-a-6-a (Samp) **5/16/2013, 11:42:04 PM** **Rack 2, Tube 30****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1799u	-1.8243u	-0.3092u
Al 308.215	79.5343	64.6140	56.8366
As 188.980	-2.9925u	-1.5252u	-1.1817u
B 249.678	2.5012	3.2396	2.7733
Ba 389.178	3.8304	2.3231	3.3599
Be 313.042	-0.0636u	-0.0439u	-0.0318u
Ca 370.602	-6.613u	-14.12u	-9.745u
Cd 226.502	0.3825	0.5003	0.4596
Co 228.615	0.6021	-0.8473u	0.0803
Cr 267.716	0.2939	0.1330	0.6991
Cu 324.754	-0.9935u	-0.8099u	-2.0181u
Fe 271.441	18.5016	6.5472	-1.7877u
K 766.491	16.6066	15.8708	13.1907
Mg 279.078	36.2982	31.5558	28.4528
Mn 257.610	1.6654	1.5236	1.3231
Mo 202.032	2.5722	0.9798	0.8217
Na 330.237	-28.6364u	-99.4770u	39.5674
Ni 231.604	3.7799	1.8964	3.2757
Pb 220.353	9.7262	6.5467	2.5321
Sb 206.834	-5.6840u	-6.4714u	-1.4903u
Se 196.026	2.3390	-3.8875u	3.5900
Sn 189.925	2.1913	0.7869	1.0455
Sr 216.596	2.9018	2.0976	2.2883
Ti 334.941	-0.0121u	0.1485	0.1012
Tl 190.794	-11.8161u	-1.4324u	-8.4886u
V 292.401	0.2185	0.2349	1.2688
Zn 206.200	3.4941	0.4339	2.0575

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7711	ppb	0.9144	118.6	-99.0192
Al 308.215	66.9950	ppb	11.5347	17.2	140.026
As 188.980	-1.8998	ppb	0.9618	50.6	-12.7406
B 249.678	2.8380	ppb	0.3734	13.2	190.457
Ba 389.178	3.1711	ppb	0.7712	24.3	54.9399
Be 313.042	-0.0464	ppb	0.0160	34.5	-549.420
Ca 370.602	-10.16	ppb	3.772	37.1	-24.39
Cd 226.502	0.4475	ppb	0.0599	13.4	59.8830
Co 228.615	-0.0550	ppb	0.7341	1335.2	3.3870
Cr 267.716	0.3753	ppb	0.2917	77.7	27.1944
Cu 324.754	-1.2738	ppb	0.6510	51.1	229.950
Fe 271.441	7.7537	ppb	10.1983	131.5	47.5337
K 766.491	15.2227	ppb	1.7978	11.8	917.350
Mg 279.078	32.1023	ppb	3.9511	12.3	120.353
Mn 257.610	1.5040	ppb	0.1719	11.4	244.465
Mo 202.032	1.4579	ppb	0.9683	66.4	29.8823
Na 330.237	-29.5153	ppb	69.5264	235.6	72.4208
Ni 231.604	2.9840	ppb	0.9750	32.7	10.7068
Pb 220.353	6.2684	ppb	3.6051	57.5	44.4111
Sb 206.834	-4.5486	ppb	2.6777	58.9	-8.7260
Se 196.026	0.6805	ppb	4.0052	588.6	11.5614
Sn 189.925	1.3412	ppb	0.7475	55.7	-15.0468
Sr 216.596	2.4292	ppb	0.4202	17.3	53.8395
Ti 334.941	0.0792	ppb	0.0825	104.2	-18.3655
Tl 190.794	-7.2457	ppb	5.3023	73.2	-27.8664
V 292.401	0.5741	ppb	0.6017	104.8	8.0125
Zn 206.200	1.9952	ppb	1.5311	76.7	10.7420

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90160-a-6-a (Samp) **5/16/2013, 11:47:29 PM** **Rack 2, Tube 31****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.3301	55.2289	55.6667
Al 308.215	1882.53	1881.21	1907.00
As 188.980	3071.89	3074.58	3069.96
B 249.678	989.922	999.440	1008.78
Ba 389.178	2177.54	2192.41	2183.98
Be 313.042	52.4352	52.8363	52.3190
Ca 370.602	5818	5773	5811
Cd 226.502	76.5417	76.5571	76.7537
Co 228.615	531.600	687.379	687.777
Cr 267.716	235.987	236.477	237.097
Cu 324.754	230.444	243.316	250.399
Fe 271.441	1201.91	1274.23	1181.75
K 766.491	7712.77	7888.70	8314.48
Mg 279.078	6818.45	6828.60	6835.42
Mn 257.610	794.277	785.799	787.336
Mo 202.032	599.862	600.388	603.497
Na 330.237	6469.58	6576.82	6386.47
Ni 231.604	638.318	600.606	626.403
Pb 220.353	780.172	777.967	772.204
Sb 206.834	565.360	580.911	568.438
Se 196.026	3071.11	3079.56	3066.58
Sn 189.925	1540.03	1524.24	1534.21
Sr 216.596	673.555	675.605	672.561
Ti 334.941	964.326	967.622	963.618
Tl 190.794	3072.18	3066.78	3065.15
V 292.401	535.878	537.211	536.504
Zn 206.200	927.415	924.597	925.130

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.4086	ppb	1.8133	3.3	4770.27
Al 308.215	1890.25	ppb	14.5240	0.8	4450.46
As 188.980	3072.14	ppb	2.3203	0.1	2173.55
B 249.678	999.381	ppb	9.4299	0.9	15869.8
Ba 389.178	2184.65	ppb	7.4531	0.3	57487.4
Be 313.042	52.5301	ppb	0.2714	0.5	113939
Ca 370.602	5801	ppb	24.43	0.4	20483
Cd 226.502	76.6175	ppb	0.1182	0.2	3768.04
Co 228.615	635.585	ppb	90.0543	14.2	9913.43
Cr 267.716	236.521	ppb	0.5561	0.2	14003.8
Cu 324.754	241.386	ppb	10.1162	4.2	12871.6
Fe 271.441	1219.30	ppb	48.6268	4.0	2679.37
K 766.491	7971.98	ppb	309.378	3.9	334423
Mg 279.078	6827.49	ppb	8.5378	0.1	17996.1
Mn 257.610	789.138	ppb	4.5171	0.6	56466.3
Mo 202.032	601.249	ppb	1.9645	0.3	5207.74
Na 330.237	6477.62	ppb	95.4269	1.5	419.675
Ni 231.604	621.776	ppb	19.2771	3.1	2225.42
Pb 220.353	776.781	ppb	4.1143	0.5	1796.29
Sb 206.834	571.570	ppb	8.2350	1.4	681.991
Se 196.026	3072.42	ppb	6.5849	0.2	1983.84
Sn 189.925	1532.83	ppb	7.9848	0.5	1725.23
Sr 216.596	673.907	ppb	1.5522	0.2	9796.62
Ti 334.941	965.189	ppb	2.1368	0.2	324027
Tl 190.794	3068.04	ppb	3.6795	0.1	3352.14
V 292.401	536.531	ppb	0.6670	0.1	17089.7
Zn 206.200	925.714	ppb	1.4971	0.2	1809.65

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90160-a-6-b ms (Samp) 5/16/2013, 11:52:54 PM Rack 2, Tube 32**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.0972	55.0936	54.8580
Al 308.215	4072.95	4061.84	4009.09
As 188.980	151.456	142.400	143.824
B 249.678	205.258	204.155	203.538
Ba 389.178	109.235	109.603	107.709
Be 313.042	49.7512	49.2666	48.5403
Ca 370.602	5280	5244	5181
Cd 226.502	73.5180	73.7169	72.8392
Co 228.615	60.8113	60.2267	60.0582
Cr 267.716	113.201	112.878	112.209
Cu 324.754	87.1526	91.8115	92.3289
Fe 271.441	5356.47	5339.09	5292.82
K 766.491	7536.09	7642.52	8078.83
Mg 279.078	6298.24	6287.54	6226.11
Mn 257.610	832.147	828.905	819.601
Mo 202.032	108.595	107.443	106.856
Na 330.237	6495.34	6312.16	5647.33
Ni 231.604	124.798	127.496	119.879
Pb 220.353	78.5641	77.8847	78.8063
Sb 206.834	56.0405	62.7121	58.9997
Se 196.026	146.204	153.141	131.370
Sn 189.925	288.049	286.589	279.932
Sr 216.596	128.549	128.254	126.934
Ti 334.941	89.6196	89.6999	88.7871
Tl 190.794	54.2982	48.6374	53.5093
V 292.401	115.643	113.729	109.447
Zn 206.200	187.601	183.578	185.728

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.3496	ppb	1.0910	2.0	4794.09
Al 308.215	4047.96	ppb	34.1164	0.8	9488.98
As 188.980	145.894	ppb	4.8698	3.3	92.4167
B 249.678	204.317	ppb	0.8715	0.4	3352.07
Ba 389.178	108.849	ppb	1.0044	0.9	2865.27
Be 313.042	49.1860	ppb	0.6094	1.2	106763
Ca 370.602	5235	ppb	49.85	1.0	17919
Cd 226.502	73.3581	ppb	0.4602	0.6	3627.45
Co 228.615	60.3654	ppb	0.3952	0.7	942.648
Cr 267.716	112.763	ppb	0.5060	0.4	6682.33
Cu 324.754	90.4310	ppb	2.8510	3.2	5006.33
Fe 271.441	5329.46	ppb	32.9014	0.6	11072.4
K 766.491	7752.48	ppb	287.594	3.7	325222
Mg 279.078	6270.63	ppb	38.9216	0.6	16530.8
Mn 257.610	826.884	ppb	6.5123	0.8	59162.1
Mo 202.032	107.631	ppb	0.8844	0.8	946.090
Na 330.237	6151.61	ppb	446.216	7.3	413.618
Ni 231.604	124.058	ppb	3.8623	3.1	444.196
Pb 220.353	78.4183	ppb	0.4777	0.6	208.611
Sb 206.834	59.2508	ppb	3.3429	5.6	68.6343
Se 196.026	143.572	ppb	11.1217	7.7	103.511
Sn 189.925	284.857	ppb	4.3267	1.5	307.125
Sr 216.596	127.912	ppb	0.8596	0.7	1878.02
Ti 334.941	89.3689	ppb	0.5054	0.6	29994.0
Tl 190.794	52.1483	ppb	3.0660	5.9	36.2970
V 292.401	112.940	ppb	3.1725	2.8	3586.17
Zn 206.200	185.636	ppb	2.0134	1.1	268.848

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680-90160-a-6-c msd (Samp) 5/16/2013, 11:58:20 PM Rack 2, Tube 33**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.2630	55.2877	55.9535
Al 308.215	3852.61	3788.20	3800.98
As 188.980	130.007	141.915	135.321
B 249.678	203.048	201.707	202.723
Ba 389.178	112.701	110.479	112.117
Be 313.042	49.8486	48.9262	48.9097
Ca 370.602	5262	5259	5197
Cd 226.502	76.0277	74.6064	74.5243
Co 228.615	63.2634	62.5920	62.8421
Cr 267.716	116.339	115.815	115.040
Cu 324.754	82.5101	89.3346	92.1960
Fe 271.441	5483.55	5431.75	5427.13
K 766.491	7577.55	7684.52	8140.35
Mg 279.078	6466.04	6379.73	6362.46
Mn 257.610	956.184	944.780	939.545
Mo 202.032	108.421	107.357	106.109
Na 330.237	6542.46	6664.84	5676.03
Ni 231.604	129.102	128.260	129.847
Pb 220.353	80.1454	79.6043	81.5634
Sb 206.834	60.1617	53.0318	53.3854
Se 196.026	136.819	157.012	153.212
Sn 189.925	289.924	290.732	284.792
Sr 216.596	133.236	131.293	129.302
Ti 334.941	94.6275	93.7711	93.7163
Tl 190.794	57.4725	56.0338	61.9237
V 292.401	116.424	119.836	107.914
Zn 206.200	192.823	186.886	183.962

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.5014	ppb	1.9669	3.6	4807.32
Al 308.215	3813.93	ppb	34.0984	0.9	8939.86
As 188.980	135.748	ppb	5.9653	4.4	85.2023
B 249.678	202.493	ppb	0.6994	0.3	3323.03
Ba 389.178	111.766	ppb	1.1518	1.0	2942.81
Be 313.042	49.2282	ppb	0.5374	1.1	106855
Ca 370.602	5239	ppb	36.97	0.7	17917
Cd 226.502	75.0528	ppb	0.8453	1.1	3710.72
Co 228.615	62.8992	ppb	0.3393	0.5	982.163
Cr 267.716	115.731	ppb	0.6536	0.6	6858.19
Cu 324.754	88.0136	ppb	4.9763	5.7	4880.65
Fe 271.441	5447.48	ppb	31.3225	0.6	11317.2
K 766.491	7800.81	ppb	298.876	3.8	327248
Mg 279.078	6402.75	ppb	55.4923	0.9	16878.2
Mn 257.610	946.836	ppb	8.5080	0.9	67722.0
Mo 202.032	107.296	ppb	1.1573	1.1	943.172
Na 330.237	6294.44	ppb	539.049	8.6	421.454
Ni 231.604	129.069	ppb	0.7941	0.6	462.139
Pb 220.353	80.4377	ppb	1.0118	1.3	213.207
Sb 206.834	55.5263	ppb	4.0183	7.2	64.1326
Se 196.026	149.014	ppb	10.7312	7.2	107.013
Sn 189.925	288.483	ppb	3.2220	1.1	311.246
Sr 216.596	131.277	ppb	1.9669	1.5	1926.91
Ti 334.941	94.0383	ppb	0.5110	0.5	31562.4
Tl 190.794	58.4767	ppb	3.0706	5.3	43.2129
V 292.401	114.725	ppb	6.1402	5.4	3642.77
Zn 206.200	187.890	ppb	4.5150	2.4	374.258

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680-90212-b-1-a (Samp) 5/17/2013, 12:03:46 AM Rack 2, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.3881u	1.6190u	0.7512u
Al 308.215	214.552	260.547	220.778
As 188.980	3.2029	4.6999	-7.8159u
B 249.678	250.978	254.852	257.409
Ba 389.178	503.732	519.269	516.684
Be 313.042	0.0457u	0.0488u	0.0283u
Ca 370.602	225782	230906	180835
Cd 226.502	0.7681	0.8055	0.7963
Co 228.615	3.2399	0.1332	0.5120
Cr 267.716	3.8060	3.2592	3.9974
Cu 324.754	-0.1442u	-0.4107u	0.6648
Fe 271.441	37.1019	38.2540	46.6949
K 766.491	52574.1x	56993.5x	57522.8x
Mg 279.078	165899	177032	176363
Mn 257.610	-1.1791	-0.8311	-0.7203
Mo 202.032	6.8700	9.2832	8.4319
Na 330.237	1564436x	1660822x	1677900x
Ni 231.604	3.7255	3.6903	6.1401
Pb 220.353	5.7161	13.2597	10.5521
Sb 206.834	7.2384	7.3600	2.2025
Se 196.026	24.1446	6.1618	21.5736
Sn 189.925	1.4226	-5.4697u	-0.5206
Sr 216.596	5814.77	6071.25	6034.44
Ti 334.941	-1.7339	-1.7086	-1.8784
Tl 190.794	-8.4062u	-12.9419u	-11.9096u
V 292.401	23.1879	21.8915	21.8331
Zn 206.200	21.5492	20.1109	20.2915

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.2528b	ppb	0.4494	35.9	-313.454
Al 308.215	231.959b	ppb	24.9527	10.8	527.452
As 188.980	0.0290b	ppb	6.8350	23605.7	-9.0665
B 249.678	254.413b	ppb	3.2380	1.3	4149.27
Ba 389.178	513.228b	ppb	8.3251	1.6	14017.9
Be 313.042	0.0409b	ppb	0.0111	27.1	-482.629
Ca 370.602	212508b	ppb	27549	13.0	746018
Cd 226.502	0.7900b	ppb	0.0195	2.5	68.5242
Co 228.615	1.2951b	ppb	1.6949	130.9	24.1679
Cr 267.716	3.6875b	ppb	0.3831	10.4	256.666
Cu 324.754	0.0366b	ppb	0.5601	1528.8	298.152
Fe 271.441	40.6836b	ppb	5.2377	12.9	116.124
K 766.491	55696.8xb	ppb	2717.27	4.9	2334796
Mg 279.078	173098b	ppb	6243.69	3.6	455680
Mn 257.610	-0.9102b	ppb	0.2394	26.3	528.951
Mo 202.032	8.1950b	ppb	1.2239	14.9	88.0055
Na 330.237	1634386xb	ppb	61177.2	3.7	91375.2
Ni 231.604	4.5186b	ppb	1.4043	31.1	16.2006
Pb 220.353	9.8426b	ppb	3.8215	38.8	52.5361
Sb 206.834	5.6003b	ppb	2.9432	52.6	3.4860
Se 196.026	17.2934b	ppb	9.7255	56.2	22.2279
Sn 189.925	-1.5226b	ppb	3.5537	233.4	-17.4208
Sr 216.596	5973.49b	ppb	138.680	2.3	87119.4
Ti 334.941	-1.7736b	ppb	0.0916	5.2	202.218
Tl 190.794	-11.0859b	ppb	2.3774	21.4	-32.0843
V 292.401	22.3042b	ppb	0.7659	3.4	692.899
Zn 206.200	20.6505b	ppb	0.7835	3.8	47.0780

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90212-b-2-a (Samp) 5/17/2013, 12:09:23 AM Rack 2, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0089u	-0.1933u	-0.2922u
Al 308.215	178.402	165.541	195.047
As 188.980	6.1169	1.5958	6.2549
B 249.678	222.012	220.534	217.796
Ba 389.178	213.573	209.071	211.685
Be 313.042	-0.0289u	0.0029u	0.0285u
Ca 370.602	73564	73852	72056
Cd 226.502	0.5125	0.6972	0.5118
Co 228.615	0.4707	-0.4930u	0.6856
Cr 267.716	4.3970	4.1998	4.3058
Cu 324.754	3.6204	2.6667	1.3931
Fe 271.441	126.949	133.654	145.403
K 766.491	25462.9	23538.3	23182.5
Mg 279.078	52579.9	50815.7	47696.3
Mn 257.610	17.1792	17.4315	17.8498
Mo 202.032	10.4889	9.2611	9.9845
Na 330.237	903172x	824690x	808011x
Ni 231.604	6.8218	5.6670	3.4123
Pb 220.353	9.1865	4.6746	7.3138
Sb 206.834	0.6318	10.1236	-0.9670u
Se 196.026	1.2954	0.8267	1.7794
Sn 189.925	-5.9271u	-2.5909u	-1.9679u
Sr 216.596	1943.66	1883.28	1852.53
Ti 334.941	-0.2306	-0.0621	-0.3273
Tl 190.794	-18.3141u	-4.3892u	-10.6349u
V 292.401	21.1622	20.5962	20.2745
Zn 206.200	29.4159	29.4574	26.9211

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1648b	ppb	0.1438	87.2	-166.490
Al 308.215	179.664b	ppb	14.7933	8.2	404.832
As 188.980	4.6559b	ppb	2.6510	56.9	-7.2995
B 249.678	220.114b	ppb	2.1389	1.0	3609.31
Ba 389.178	211.443b	ppb	2.2607	1.1	5692.54
Be 313.042	0.0008b	ppb	0.0287	3425.1	-527.142
Ca 370.602	73157b	ppb	964.6	1.3	256819
Cd 226.502	0.5738b	ppb	0.1068	18.6	61.6442
Co 228.615	0.2211b	ppb	0.6277	283.9	7.3028
Cr 267.716	4.3009b	ppb	0.0987	2.3	276.910
Cu 324.754	2.5601b	ppb	1.1175	43.7	429.574
Fe 271.441	135.335b	ppb	9.3410	6.9	311.783
K 766.491	24061.2b	ppb	1226.84	5.1	1008799
Mg 279.078	50363.9b	ppb	2472.97	4.9	132608
Mn 257.610	17.4868b	ppb	0.3387	1.9	1516.85
Mo 202.032	9.9115b	ppb	0.6171	6.2	102.825
Na 330.237	845291xb	ppb	50815.7	6.0	47294.1
Ni 231.604	5.3004b	ppb	1.7341	32.7	19.0012
Pb 220.353	7.0583b	ppb	2.2668	32.1	46.1970
Sb 206.834	3.2628b	ppb	5.9952	183.7	0.6289
Se 196.026	1.3005b	ppb	0.4764	36.6	11.9637
Sn 189.925	-3.4953b	ppb	2.1289	60.9	-20.1096
Sr 216.596	1893.16b	ppb	46.3602	2.4	27623.4
Ti 334.941	-0.2067b	ppb	0.1342	64.9	96.8662
Tl 190.794	-11.1127b	ppb	6.9747	62.8	-32.1348
V 292.401	20.6776b	ppb	0.4494	2.2	645.128
Zn 206.200	28.5982b	ppb	1.4525	5.1	62.5732

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680-90212-b-3-a (Samp) 5/17/2013, 12:14:50 AM Rack 2, Tube 36
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1477u	-0.9672u	-1.1364u
Al 308.215	131.980	159.445	205.591
As 188.980	13.3720	6.3312	9.4135
B 249.678	199.115	199.324	207.601
Ba 389.178	111.515	107.597	108.856
Be 313.042	-0.0091u	-0.0008u	-0.0028u
Ca 370.602	38202	37398	33618
Cd 226.502	0.2404	0.4101	0.0913
Co 228.615	-0.3335u	0.2941	-1.6648u
Cr 267.716	3.3983	2.9380	3.2301
Cu 324.754	2.8091	3.1693	2.2378
Fe 271.441	283.830	276.854	281.562
K 766.491	13627.5	13861.7	16465.1
Mg 279.078	23557.6	23302.9	25241.4
Mn 257.610	23.8537	24.0177	23.4405
Mo 202.032	7.1933	7.9750	7.8562
Na 330.237	425859x	422993x	463848x
Ni 231.604	5.6614	3.4767	7.2543
Pb 220.353	6.8797	6.6755	12.6099
Sb 206.834	-3.8468u	7.7301	-1.1463u
Se 196.026	0.8550	9.0813	-2.4603u
Sn 189.925	-5.3593u	-3.8147u	-6.0253u
Sr 216.596	963.785	956.783	1018.65
Ti 334.941	0.0935	0.1615	0.0047
Tl 190.794	-12.7853u	-3.3052u	-10.7618u
V 292.401	9.6793	9.8643	9.2450
Zn 206.200	38.2571	38.8184	43.5013

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7504b	ppb	0.5288	70.5	-159.646
Al 308.215	165.672b	ppb	37.1985	22.5	371.907
As 188.980	9.7055b	ppb	3.5295	36.4	-4.1015
B 249.678	202.013b	ppb	4.8399	2.4	3324.21
Ba 389.178	109.323b	ppb	2.0000	1.8	2923.58
Be 313.042	-0.0042b	ppb	0.0044	103.6	-500.213
Ca 370.602	36406b	ppb	2448	6.7	127789
Cd 226.502	0.2473b	ppb	0.1595	64.5	48.7680
Co 228.615	-0.5681b	ppb	1.0003	176.1	-4.8781
Cr 267.716	3.1888b	ppb	0.2329	7.3	202.843
Cu 324.754	2.7387b	ppb	0.4697	17.2	438.948
Fe 271.441	280.749b	ppb	3.5584	1.3	612.430
K 766.491	14651.4b	ppb	1575.06	10.8	614390
Mg 279.078	24034.0b	ppb	1053.36	4.4	63300.1
Mn 257.610	23.7706b	ppb	0.2974	1.3	1896.43
Mo 202.032	7.6748b	ppb	0.4213	5.5	83.5270
Na 330.237	437567xb	ppb	22805.2	5.2	24517.3
Ni 231.604	5.4641b	ppb	1.8965	34.7	19.5918
Pb 220.353	8.7217b	ppb	3.3689	38.6	49.9899
Sb 206.834	0.9123b	ppb	6.0567	663.9	-2.1772
Se 196.026	2.4920b	ppb	5.9424	238.5	12.7309
Sn 189.925	-5.0664b	ppb	1.1340	22.4	-22.1049
Sr 216.596	979.738b	ppb	33.8775	3.5	14304.2
Ti 334.941	0.0866b	ppb	0.0786	90.8	81.9124
Tl 190.794	-8.9508b	ppb	4.9928	55.8	-29.7776
V 292.401	9.5962b	ppb	0.3179	3.3	292.865
Zn 206.200	40.1923b	ppb	2.8794	7.2	851.875

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90194-f-1-a (Samp) **5/17/2013, 12:31:07 AM** **Rack 2, Tube 39**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8936u	-1.0144u	-0.9114u
Al 308.215	2448.20	2607.87	2675.49
As 188.980	2.4170	9.8054	-4.5895u
B 249.678	625.544	641.560	676.414
Ba 389.178	5.6172	6.8163	5.8057
Be 313.042	-0.0079u	-0.0391u	-0.0565u
Ca 370.602	8039	8440	8352
Cd 226.502	1.0154	0.7264	1.0252
Co 228.615	-1.0739u	-0.3776u	2.5092
Cr 267.716	31.0413	30.1581	31.6369
Cu 324.754	-0.0700u	0.3437	1.3217
Fe 271.441	37.0968	45.9859	51.0426
K 766.491	5853.28	6579.66	6900.71
Mg 279.078	1904.67	1917.86	2052.29
Mn 257.610	126.867	130.636	135.124
Mo 202.032	3.6595	2.6990	4.4089
Na 330.237	530706x	576976x	601866x
Ni 231.604	4.1750	3.7590	2.8125
Pb 220.353	1.4942	6.0856	11.6481
Sb 206.834	7.1181	3.7633	9.8263
Se 196.026	22.5573	15.8446	6.3641
Sn 189.925	-6.6324u	-2.1630u	-4.0921u
Sr 216.596	961.497	1012.47	1016.36
Ti 334.941	0.2022	0.0153u	0.0627u
Tl 190.794	-1.0027u	-8.0917u	-6.1241u
V 292.401	-0.0634u	0.4664	0.7335
Zn 206.200	34.1562	36.7909	41.5765

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9398b	ppb	0.0652	6.9	-173.779
Al 308.215	2577.19b	ppb	116.711	4.5	6031.51
As 188.980	2.5443b	ppb	7.1983	282.9	-9.4974
B 249.678	647.840b	ppb	26.0100	4.0	10340.0
Ba 389.178	6.0797b	ppb	0.6448	10.6	137.517
Be 313.042	-0.0345b	ppb	0.0246	71.4	-593.421
Ca 370.602	8277b	ppb	210.7	2.5	29068
Cd 226.502	0.9223b	ppb	0.1697	18.4	79.1679
Co 228.615	0.3526b	ppb	1.8999	538.8	9.7854
Cr 267.716	30.9454b	ppb	0.7440	2.4	1849.19
Cu 324.754	0.5318b	ppb	0.7147	134.4	323.988
Fe 271.441	44.7084b	ppb	7.0601	15.8	124.170
K 766.491	6444.55b	ppb	536.629	8.3	270401
Mg 279.078	1958.27b	ppb	81.6888	4.2	5187.76
Mn 257.610	130.876b	ppb	4.1340	3.2	9480.21
Mo 202.032	3.5891b	ppb	0.8571	23.9	48.2844
Na 330.237	569849xb	ppb	36111.0	6.3	31907.1
Ni 231.604	3.5822b	ppb	0.6983	19.5	12.8501
Pb 220.353	6.4093b	ppb	5.0847	79.3	44.8263
Sb 206.834	6.9026b	ppb	3.0372	44.0	5.4708
Se 196.026	14.9220b	ppb	8.1359	54.5	20.7335
Sn 189.925	-4.2959b	ppb	2.2417	52.2	-21.1829
Sr 216.596	996.775b	ppb	30.6133	3.1	14548.4
Ti 334.941	0.0934b	ppb	0.0972	104.0	-53.4301
Tl 190.794	-5.0729b	ppb	3.6596	72.1	-25.6244
V 292.401	0.3788b	ppb	0.4056	107.1	-6.0042
Zn 206.200	37.5079b	ppb	3.7618	10.0	79.8164

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680-90194-f-2-a (Samp) **5/17/2013, 12:36:32 AM** **Rack 2, Tube 40**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7866u	-1.2103u	0.1899u
Al 308.215	126.410	136.189	97.2628
As 188.980	8.0952	5.1808	16.8321
B 249.678	78.7181	85.7810	78.3347
Ba 389.178	15.6633	16.2240	14.1192
Be 313.042	-0.0080	-0.0214u	-0.0206u
Ca 370.602	137645	86587	126836
Cd 226.502	0.3039	0.7522	0.2869
Co 228.615	-1.6923u	-1.9727u	-0.1806u
Cr 267.716	1.2594	1.3812	1.3151
Cu 324.754	-2.6157u	0.1268	-2.9556u
Fe 271.441	320.304	354.158	372.496
K 766.491	6276.71	6645.95	6239.41
Mg 279.078	9889.24	10461.4	10033.7
Mn 257.610	54.4840	57.6499	54.2010
Mo 202.032	3.0927	3.3909	3.6576
Na 330.237	31788.7	33523.6	29788.9
Ni 231.604	1.8796	2.0921	2.1347
Pb 220.353	4.3314	18.9261	9.1723
Sb 206.834	-3.8241u	-3.5133u	7.7940
Se 196.026	15.6519	-7.6905u	12.7984
Sn 189.925	-4.5013u	-8.4391u	-1.0312u
Sr 216.596	992.194	1037.35	1005.17
Ti 334.941	0.6556	0.8471	0.8736
Tl 190.794	0.7180	-17.7957u	-6.6140u
V 292.401	1.9626	2.5960	2.7727
Zn 206.200	6.7886	6.9047	8.4349

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6023	ppb	0.7180	119.2	-147.587
Al 308.215	119.954	ppb	20.2505	16.9	264.376
As 188.980	10.0360	ppb	6.0633	60.4	-3.0508
B 249.678	80.9446	ppb	4.1929	5.2	1418.98
Ba 389.178	15.3355	ppb	1.0900	7.1	407.062
Be 313.042	-0.0167	ppb	0.0075	45.0	-440.226
Ca 370.602	117023	ppb	26906	23.0	410790
Cd 226.502	0.4477	ppb	0.2638	58.9	61.3266
Co 228.615	-1.2819	ppb	0.9640	75.2	-15.7612
Cr 267.716	1.3186	ppb	0.0610	4.6	83.9515
Cu 324.754	-1.8148	ppb	1.6901	93.1	201.921
Fe 271.441	348.986	ppb	26.4776	7.6	753.420
K 766.491	6387.36	ppb	224.725	3.5	268003
Mg 279.078	10128.1	ppb	297.530	2.9	26695.4
Mn 257.610	55.4450	ppb	1.9148	3.5	4120.90
Mo 202.032	3.3804	ppb	0.2826	8.4	46.4575
Na 330.237	31700.4	ppb	1868.92	5.9	1844.77
Ni 231.604	2.0355	ppb	0.1366	6.7	7.3222
Pb 220.353	10.8099	ppb	7.4339	68.8	54.7572
Sb 206.834	0.1522	ppb	6.6199	4349.4	-3.0342
Se 196.026	6.9199	ppb	12.7332	184.0	15.5808
Sn 189.925	-4.6572	ppb	3.7064	79.6	-21.7776
Sr 216.596	1011.57	ppb	23.2470	2.3	14780.1
Ti 334.941	0.7921	ppb	0.1189	15.0	275.503
Tl 190.794	-7.8973	ppb	9.3233	118.1	-28.6582
V 292.401	2.4438	ppb	0.4259	17.4	67.6376
Zn 206.200	7.3761	ppb	0.9188	12.5	21.2698

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680-90201-b-3-a (Samp) 5/17/2013, 12:41:58 AM Rack 2, Tube 41
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4695u	-0.9517u	-1.9869u
Al 308.215	1520.56	1526.44	1605.43
As 188.980	13.7442	9.4733	8.5659
B 249.678	11.9476	10.7161	11.1512
Ba 389.178	263.757	264.160	264.051
Be 313.042	0.1336	0.1365	0.1205
Ca 370.602	18026	17327	17021
Cd 226.502	0.4591	0.8378	1.0508
Co 228.615	47.6597	49.2562	36.0580
Cr 267.716	2.0712	1.7654	2.0833
Cu 324.754	0.9687	0.2956	-1.5844u
Fe 271.441	34215.8	34847.0	35828.0
K 766.491	5064.74	5115.12	5791.16
Mg 279.078	11558.4	11667.4	12118.6
Mn 257.610	12085.1	12148.3	12609.3
Mo 202.032	1.5429	2.1576	1.7909
Na 330.237	30535.8	32540.7	32210.7
Ni 231.604	18.6216	19.9538	21.6248
Pb 220.353	9.6103	13.0155	13.0502
Sb 206.834	-5.2021u	3.2748	3.8281
Se 196.026	15.6090	-7.3935u	-4.7735u
Sn 189.925	2.3586	1.9258	-7.6763u
Sr 216.596	136.272	139.366	142.283
Ti 334.941	25.8064	25.7048	25.2802
Tl 190.794	10.6696u	14.4466	13.8591
V 292.401	4.2492	4.2833	3.5301
Zn 206.200	29.3643	33.4186	34.7315

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1360	ppb	0.7754	68.2	-96.1546
Al 308.215	1550.81	ppb	47.3936	3.1	3622.47
As 188.980	10.5945	ppb	2.7652	26.1	-3.5397
B 249.678	11.2716	ppb	0.6245	5.5	265.623
Ba 389.178	263.989	ppb	0.2089	0.1	7013.72
Be 313.042	0.1302	ppb	0.0086	6.6	-165.338
Ca 370.602	17458	ppb	515.0	3.0	58263
Cd 226.502	0.7826	ppb	0.2997	38.3	227.553
Co 228.615	44.3246	ppb	7.2035	16.3	694.218
Cr 267.716	1.9733	ppb	0.1801	9.1	176.522
Cu 324.754	-0.1067	ppb	1.3232	1240.0	301.949
Fe 271.441	34963.6	ppb	812.403	2.3	72390.2
K 766.491	5323.68	ppb	405.637	7.6	223420
Mg 279.078	11781.5	ppb	296.978	2.5	30892.9
Mn 257.610	12280.9	ppb	286.168	2.3	876525
Mo 202.032	1.8305	ppb	0.3093	16.9	30.9027
Na 330.237	31762.4	ppb	1074.99	3.4	1835.97
Ni 231.604	20.0667	ppb	1.5048	7.5	72.8844
Pb 220.353	11.8920	ppb	1.9761	16.6	59.6265
Sb 206.834	0.6336	ppb	5.0614	798.8	-1.4055
Se 196.026	1.1473	ppb	12.5925	1097.6	14.7529
Sn 189.925	-1.1306	ppb	5.6728	501.7	-17.8316
Sr 216.596	139.307	ppb	3.0060	2.2	2071.42
Ti 334.941	25.5971	ppb	0.2791	1.1	8617.17
Tl 190.794	12.9917	ppb	2.0324	15.6	-20.7793
V 292.401	4.0209	ppb	0.4254	10.6	119.054
Zn 206.200	32.5048	ppb	2.7979	8.6	751.115

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680-90201-b-4-a (Samp) 5/17/2013, 12:47:23 AM Rack 2, Tube 42
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6075u	-0.6642u	-0.7073u
Al 308.215	1411.70	1381.71	1332.89
As 188.980	1.5839	-2.3231u	-7.1261u
B 249.678	8.4218	7.0015	5.3137
Ba 389.178	112.926	120.334	115.913
Be 313.042	0.4462	0.4821	0.4861
Ca 370.602	8327	8288	8073
Cd 226.502	0.5645	0.6776	0.5434
Co 228.615	2.9455	0.9043	1.6409
Cr 267.716	7.5944	7.2542	7.2367
Cu 324.754	1.5724	3.1914	0.7186
Fe 271.441	1583.47	1588.59	1591.34
K 766.491	3171.53	3017.05	2917.17
Mg 279.078	5385.44	5270.45	5117.46
Mn 257.610	399.618	397.908	394.713
Mo 202.032	3.0348	1.3313	2.2892
Na 330.237	5883.25	6102.34	6715.18
Ni 231.604	3.6019	2.4924	3.4612
Pb 220.353	8.6196	4.9421	8.0202
Sb 206.834	-1.9469u	5.4145	1.3421
Se 196.026	16.1915	-3.0307u	17.1508
Sn 189.925	3.8972	-6.0636u	-3.6603u
Sr 216.596	66.7479	67.1608	65.5506
Ti 334.941	72.6120	72.3599	71.3380
Tl 190.794	-5.4220u	-9.0779u	-5.0268u
V 292.401	6.2466	6.0211	6.1380
Zn 206.200	28.6163	29.4868	27.1836

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9930	ppb	0.5326	53.6	-121.305
Al 308.215	1375.44	ppb	39.7755	2.9	3210.93
As 188.980	-2.6217	ppb	4.3626	166.4	-13.1646
B 249.678	6.9123	ppb	1.5560	22.5	251.985
Ba 389.178	116.391	ppb	3.7270	3.2	3053.19
Be 313.042	0.4715	ppb	0.0220	4.7	581.607
Ca 370.602	8229	ppb	137.0	1.7	28775
Cd 226.502	0.5952	ppb	0.0721	12.1	73.9261
Co 228.615	1.8303	ppb	1.0337	56.5	35.2706
Cr 267.716	7.3617	ppb	0.2016	2.7	442.896
Cu 324.754	1.8275	ppb	1.2560	68.7	391.823
Fe 271.441	1587.80	ppb	3.9964	0.3	3317.58
K 766.491	3035.25	ppb	128.152	4.2	127501
Mg 279.078	5257.78	ppb	134.442	2.6	13870.3
Mn 257.610	397.413	ppb	2.4897	0.6	28510.4
Mo 202.032	2.2184	ppb	0.8539	38.5	36.3382
Na 330.237	6233.59	ppb	431.219	6.9	420.919
Ni 231.604	3.1852	ppb	0.6040	19.0	11.4744
Pb 220.353	7.1940	ppb	1.9731	27.4	46.5783
Sb 206.834	1.6033	ppb	3.6876	230.0	-1.1596
Se 196.026	10.1039	ppb	11.3850	112.7	17.7095
Sn 189.925	-1.9422	ppb	5.1979	267.6	-18.7701
Sr 216.596	66.4864	ppb	0.8363	1.3	989.565
Ti 334.941	72.1033	ppb	0.6746	0.9	24191.0
Tl 190.794	-6.5089	ppb	2.2336	34.3	-27.5762
V 292.401	6.1353	ppb	0.1128	1.8	187.420
Zn 206.200	28.4289	ppb	1.1630	4.1	624369

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680-90201-b-5-a (Samp) 5/17/2013, 12:52:49 AM Rack 2, Tube 43
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2145u	-1.6282u	-1.6430u
Al 308.215	290.921	299.783	288.396
As 188.980	9.0640	8.3166	3.8137
B 249.678	26.0560	26.9855	27.3427
Ba 389.178	14.0758	15.7564	16.3135
Be 313.042	0.0701	0.0434	0.0417
Ca 370.602	23616	22672	25129
Cd 226.502	-0.1096	0.2411	0.4081
Co 228.615	-0.2098u	0.0619u	-0.2582u
Cr 267.716	0.8358	0.8704	0.5507
Cu 324.754	-1.3074u	-1.5089u	-0.2533u
Fe 271.441	1552.26	1585.53	1797.29
K 766.491	8768.02	9257.42	9635.36
Mg 279.078	6497.01	6557.46	6796.71
Mn 257.610	87.2400	88.1442	90.9372
Mo 202.032	55.4741	58.6481	59.9375
Na 330.237	64463.2	66387.5	75593.5
Ni 231.604	2.9046	3.6683	5.4672
Pb 220.353	8.7437	8.5824	4.8527
Sb 206.834	9.3941	-3.6421u	-2.3618u
Se 196.026	-6.7013u	16.7751	3.6497
Sn 189.925	5.5804	-0.3660u	-4.5736u
Sr 216.596	54.5717	55.3725	56.6059
Ti 334.941	5.0632	5.0391	5.3649
Tl 190.794	-7.4280u	-5.8493u	-12.2440u
V 292.401	1.4868	1.6022	1.3358
Zn 206.200	198.980	207.226	216.906

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4953	ppb	0.2432	16.3	-166.616
Al 308.215	293.033	ppb	5.9801	2.0	674.039
As 188.980	7.0648	ppb	2.8402	40.2	-6.1265
B 249.678	26.7947	ppb	0.6642	2.5	564.712
Ba 389.178	15.3819	ppb	1.1649	7.6	399.962
Be 313.042	0.0517	ppb	0.0160	30.8	-346.131
Ca 370.602	23806	ppb	1239	5.2	83428
Cd 226.502	0.1799	ppb	0.2643	146.9	53.7394
Co 228.615	-0.1354	ppb	0.1725	127.5	-0.6823
Cr 267.716	0.7523	ppb	0.1755	23.3	51.7320
Cu 324.754	-1.0232	ppb	0.6743	65.9	245.382
Fe 271.441	1645.02	ppb	132.909	8.1	3435.60
K 766.491	9220.27	ppb	434.860	4.7	386744
Mg 279.078	6617.06	ppb	158.493	2.4	17453.2
Mn 257.610	88.7738	ppb	1.9273	2.2	6490.60
Mo 202.032	58.0199	ppb	2.2971	4.0	518.184
Na 330.237	68814.7	ppb	5948.95	8.6	3915.96
Ni 231.604	4.0134	ppb	1.3157	32.8	14.4408
Pb 220.353	7.3929	ppb	2.2013	29.8	46.8707
Sb 206.834	1.1301	ppb	7.1854	635.8	-2.8626
Se 196.026	4.5745	ppb	11.7655	257.2	14.0913
Sn 189.925	0.2136	ppb	5.1017	2388.3	-16.2818
Sr 216.596	55.5167	ppb	1.0247	1.8	828.968
Ti 334.941	5.1557	ppb	0.1816	3.5	1717.49
Tl 190.794	-8.5071	ppb	3.3311	39.2	-29.4665
V 292.401	1.4749	ppb	0.1336	9.1	21.6561
Zn 206.200	207.704	ppb	8.9724	4.3	411.748

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680-90201-b-6-a (Samp) **5/17/2013, 12:58:14 AM** **Rack 2, Tube 44**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.8230u	-0.7135u	-0.6411u
Al 308.215	414.566	413.855	398.043
As 188.980	12.1105	1.3897	-2.4376u
B 249.678	12.2988	10.9424	9.6092
Ba 389.178	45.4323	48.8593	48.0100
Be 313.042	0.2820	0.2815	0.3015
Ca 370.602	2624	2598	2590
Cd 226.502	0.3863	0.6123	0.5945
Co 228.615	39.5753	31.6801	31.0327
Cr 267.716	0.7699	0.7045	0.5461
Cu 324.754	2.6331	0.7012	2.6008
Fe 271.441	1972.92	1959.41	1964.29
K 766.491	2459.55	2335.18	2317.31
Mg 279.078	1018.09	987.680	976.140
Mn 257.610	2349.12	2325.13	2280.96
Mo 202.032	3.1400	2.4235	2.9295
Na 330.237	5055.43	5341.86	5651.42
Ni 231.604	6.4298	6.4977	5.6588
Pb 220.353	8.6472	4.6829	0.5007
Sb 206.834	0.0520	0.3594	1.0711
Se 196.026	3.2732	-9.4617u	-2.0333u
Sn 189.925	1.0310	-2.9219u	-1.5462u
Sr 216.596	20.1884	17.6777	19.1096
Ti 334.941	6.3092	6.2648	6.3128
Tl 190.794	-2.4193u	-2.9113u	-6.4016u
V 292.401	1.3643	0.9398	0.6604
Zn 206.200	20.5710	19.5873	21.0682

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0592	ppb	0.6624	62.5	-117.777
Al 308.215	408.822	ppb	9.3411	2.3	942.331
As 188.980	3.6875	ppb	7.5413	204.5	-8.7316
B 249.678	10.9501	ppb	1.3448	12.3	314.848
Ba 389.178	47.4339	ppb	1.7847	3.8	1226.01
Be 313.042	0.2883	ppb	0.0114	4.0	180.047
Ca 370.602	2604	ppb	18.06	0.7	9012
Cd 226.502	0.5310	ppb	0.1256	23.7	72.5139
Co 228.615	34.0960	ppb	4.7562	13.9	535.660
Cr 267.716	0.6735	ppb	0.1151	17.1	53.3193
Cu 324.754	1.9784	ppb	1.1062	55.9	399.855
Fe 271.441	1965.54	ppb	6.8417	0.3	4105.15
K 766.491	2370.68	ppb	77.4830	3.3	99645.6
Mg 279.078	993.971	ppb	21.6725	2.2	2623.51
Mn 257.610	2318.40	ppb	34.5747	1.5	165575
Mo 202.032	2.8310	ppb	0.3683	13.0	41.6137
Na 330.237	5349.57	ppb	298.072	5.6	372.030
Ni 231.604	6.1954	ppb	0.4660	7.5	22.2598
Pb 220.353	4.6103	ppb	4.0737	88.4	41.0557
Sb 206.834	0.4942	ppb	0.5227	105.8	-2.5671
Se 196.026	-2.7406	ppb	6.3968	233.4	9.8473
Sn 189.925	-1.1457	ppb	2.0067	175.1	-17.8686
Sr 216.596	18.9919	ppb	1.2595	6.6	296.655
Ti 334.941	6.2956	ppb	0.0268	0.4	2073.83
Tl 190.794	-3.9108	ppb	2.1711	55.5	-26.6403
V 292.401	0.9882	ppb	0.3544	35.9	21.1708
Zn 206.200	20.4088	ppb	0.7536	3.7	46.8948

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680-90201-b-13-a (Samp) 5/17/2013, 1:03:40 AM Rack 2, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6386u	-0.6264u	-1.3169u
Al 308.215	614.180	586.759	625.213
As 188.980	-0.3456u	-0.3135u	5.7105
B 249.678	5.9969	5.4117	4.3923
Ba 389.178	117.493	117.338	119.916
Be 313.042	0.3240	0.3354	0.3269
Ca 370.602	11709	11518	11997
Cd 226.502	0.5664	0.4426	0.4071
Co 228.615	5.3665	6.0590	2.7494
Cr 267.716	16.9051	15.4958	15.2679
Cu 324.754	1.5549	3.1631	-0.8329u
Fe 271.441	1973.88	1740.13	1756.54
K 766.491	2695.72	2668.58	2867.30
Mg 279.078	5875.47	5734.62	6069.32
Mn 257.610	1126.98	1116.79	1179.40
Mo 202.032	2.3865	2.1007	3.0350
Na 330.237	5664.58	5687.22	5409.41
Ni 231.604	4.2640	6.9311	5.2412
Pb 220.353	11.0454	9.3807	12.5362
Sb 206.834	8.1630	6.7870	-2.1124u
Se 196.026	2.7134	7.1829	-17.9316u
Sn 189.925	-1.3038u	-1.2505u	0.1439
Sr 216.596	85.9433	83.5666	87.1358
Ti 334.941	13.1026	12.7641	12.9318
Tl 190.794	-0.5722u	-6.3301u	-5.8893u
V 292.401	20.2624	18.2270	17.1046
Zn 206.200	17.6620	18.5294	21.3014

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8606	ppb	0.3952	45.9	-108.679
Al 308.215	608.717	ppb	19.8004	3.3	1411.34
As 188.980	1.6838	ppb	3.4872	207.1	-10.0579
B 249.678	5.2670	ppb	0.8120	15.4	225.631
Ba 389.178	118.249	ppb	1.4453	1.2	3104.60
Be 313.042	0.3288	ppb	0.0059	1.8	271.592
Ca 370.602	11742	ppb	241.2	2.1	41079
Cd 226.502	0.4721	ppb	0.0836	17.7	69.1756
Co 228.615	4.7249	ppb	1.7456	36.9	78.2883
Cr 267.716	15.8896	ppb	0.8868	5.6	949.574
Cu 324.754	1.2950	ppb	2.0106	155.3	364.062
Fe 271.441	1823.52	ppb	130.477	7.2	3805.99
K 766.491	2743.87	ppb	107.755	3.9	115288
Mg 279.078	5893.14	ppb	168.048	2.9	15535.2
Mn 257.610	1141.05	ppb	33.5935	2.9	81576.1
Mo 202.032	2.5074	ppb	0.4787	19.1	38.7877
Na 330.237	5587.07	ppb	154.274	2.8	385.290
Ni 231.604	5.4788	ppb	1.3493	24.6	19.6911
Pb 220.353	10.9875	ppb	1.5785	14.4	55.3539
Sb 206.834	4.2792	ppb	5.5779	130.3	2.1966
Se 196.026	-2.6785	ppb	13.3973	500.2	9.6333
Sn 189.925	-0.8035	ppb	0.8209	102.2	-17.4738
Sr 216.596	85.5485	ppb	1.8170	2.1	1268.16
Ti 334.941	12.9329	ppb	0.1693	1.3	4329.96
Tl 190.794	-4.2639	ppb	3.2047	75.2	-25.7584
V 292.401	18.5313	ppb	1.6007	8.6	584.277
Zn 206.200	19.1643	ppb	1.9010	9.9	44.3942

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680-90201-b-14-a (Samp) 5/17/2013, 1:09:06 AM Rack 2, Tube 46**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.1555u	-1.1532u	-0.0127u
Al 308.215	847.307	857.172	851.878
As 188.980	-2.4394u	-4.1052u	0.0100
B 249.678	4.6493	4.9649	4.8229
Ba 389.178	102.150	108.025	101.978
Be 313.042	0.1805	0.1774	0.1780
Ca 370.602	14417	14152	14218
Cd 226.502	0.5185	0.4708	0.1845
Co 228.615	-1.7397u	2.3106	4.2554
Cr 267.716	3.6183	3.4921	4.3668
Cu 324.754	-0.2343u	2.2309	3.4652
Fe 271.441	837.678	848.559	929.560
K 766.491	4309.20	4272.69	4283.46
Mg 279.078	8459.36	8416.60	8369.20
Mn 257.610	422.958	426.201	423.571
Mo 202.032	2.9317	3.8267	3.4863
Na 330.237	8903.07	9249.46	9622.87
Ni 231.604	13.5874	15.7031	11.5509
Pb 220.353	11.3058	15.0157	8.3689
Sb 206.834	-7.2935u	6.0496	-7.0904u
Se 196.026	1.6029	-3.5855u	2.0961
Sn 189.925	-0.6622u	-2.8554u	-3.4463u
Sr 216.596	104.476	104.870	104.916
Ti 334.941	26.7040	26.8332	26.6344
Tl 190.794	-9.7363u	-6.5618u	-5.1281u
V 292.401	10.5025	10.8155	11.7516
Zn 206.200	12.5520	12.1916	9.3332

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7738	ppb	0.6592	85.2	-104.761
Al 308.215	852.119	ppb	4.9365	0.6	1982.71
As 188.980	-2.1782	ppb	2.0700	95.0	-12.7794
B 249.678	4.8123	ppb	0.1581	3.3	220.068
Ba 389.178	104.051	ppb	3.4424	3.3	2737.21
Be 313.042	0.1786	ppb	0.0016	0.9	-54.8360
Ca 370.602	14262	ppb	137.7	1.0	50008
Cd 226.502	0.3913	ppb	0.1806	46.2	61.0942
Co 228.615	1.6088	ppb	3.0586	190.1	30.1792
Cr 267.716	3.8257	ppb	0.4728	12.4	233.077
Cu 324.754	1.8206	ppb	1.8836	103.5	391.212
Fe 271.441	871.932	ppb	50.2028	5.8	1836.20
K 766.491	4288.45	ppb	18.7643	0.4	180028
Mg 279.078	8415.05	ppb	45.1004	0.5	22181.9
Mn 257.610	424.243	ppb	1.7225	0.4	30432.7
Mo 202.032	3.4149	ppb	0.4518	13.2	46.7014
Na 330.237	9258.47	ppb	359.985	3.9	590.658
Ni 231.604	13.6138	ppb	2.0762	15.3	48.7782
Pb 220.353	11.5635	ppb	3.3309	28.8	56.5353
Sb 206.834	-2.7781	ppb	7.6457	275.2	-6.5396
Se 196.026	0.0378	ppb	3.1476	8320.0	11.2299
Sn 189.925	-2.3213	ppb	1.4669	63.2	-19.1952
Sr 216.596	104.754	ppb	0.2415	0.2	1547.72
Ti 334.941	26.7239	ppb	0.1009	0.4	8973.81
Tl 190.794	-7.1421	ppb	2.3583	33.0	-28.1712
V 292.401	11.0232	ppb	0.6499	5.9	343.824
Zn 206.200	11.3589	ppb	1.7636	15.5	29.0976

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680-90201-b-15-a (Samp) **5/17/2013, 1:14:32 AM** **Rack 2, Tube 47**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3713u	-0.4554u	-1.0022u
Al 308.215	330.855	298.804	299.272
As 188.980	-7.5221u	1.1612	7.8148
B 249.678	6.0164	2.6214	3.9082
Ba 389.178	39.9282	34.9129	36.0981
Be 313.042	0.0138	0.0308	0.0282
Ca 370.602	16188	17573	17008
Cd 226.502	0.0510	0.3685	-0.0562u
Co 228.615	-0.6125u	0.6336	0.5028
Cr 267.716	2.6225	2.3561	2.5995
Cu 324.754	3.3625	0.1547	1.7605
Fe 271.441	566.765	541.651	534.144
K 766.491	8036.05	7147.73	6868.22
Mg 279.078	8157.77	7821.59	7609.69
Mn 257.610	46.6264	44.1340	43.3173
Mo 202.032	4.4363	2.3135	2.9557
Na 330.237	15036.8	14617.7	14678.4
Ni 231.604	7.0450	6.2838	3.7316
Pb 220.353	10.5168	4.6004	5.8274
Sb 206.834	8.8328	6.0128	-1.4783u
Se 196.026	10.7753	-6.8454u	3.2285
Sn 189.925	-4.9505u	-1.9650u	5.6438
Sr 216.596	80.9713	76.1249	75.6592
Ti 334.941	6.4475	5.9702	5.9858
Tl 190.794	-6.9577u	-2.6329u	-14.6477u
V 292.401	8.1061	7.5776	7.8745
Zn 206.200	34.0867	29.2091	28.8933

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6096	ppb	0.3426	56.2	-89.4631
Al 308.215	309.644	ppb	18.3709	5.9	709.579
As 188.980	0.4846	ppb	7.6908	1586.9	-10.8610
B 249.678	4.1820	ppb	1.7140	41.0	210.714
Ba 389.178	36.9797	ppb	2.6213	7.1	969.958
Be 313.042	0.0243	ppb	0.0092	37.8	-391.070
Ca 370.602	16923	ppb	696.8	4.1	59370
Cd 226.502	0.1211	ppb	0.2209	182.4	46.4475
Co 228.615	0.1746	ppb	0.6848	392.1	7.0815
Cr 267.716	2.5261	ppb	0.1476	5.8	155.043
Cu 324.754	1.7592	ppb	1.6039	91.2	387.954
Fe 271.441	547.520	ppb	17.0839	3.1	1164.58
K 766.491	7350.67	ppb	609.789	8.3	308380
Mg 279.078	7863.02	ppb	276.380	3.5	20733.1
Mn 257.610	44.6926	ppb	1.7238	3.9	3347.47
Mo 202.032	3.2352	ppb	1.0886	33.7	45.1775
Na 330.237	14777.6	ppb	226.480	1.5	899.111
Ni 231.604	5.6868	ppb	1.7355	30.5	20.3970
Pb 220.353	6.9815	ppb	3.1225	44.7	46.0414
Sb 206.834	4.4558	ppb	5.3289	119.6	2.1880
Se 196.026	2.3861	ppb	8.8405	370.5	12.6689
Sn 189.925	-0.4239	ppb	5.4627	1288.8	-17.0350
Sr 216.596	77.5851	ppb	2.9418	3.8	1152.06
Ti 334.941	6.1345	ppb	0.2712	4.4	2057.79
Tl 190.794	-8.0794	ppb	6.0854	75.3	-28.8530
V 292.401	7.8527	ppb	0.2649	3.4	241.459
Zn 206.200	30.7297	ppb	2.9115	9.5	66.7938

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680-90201-b-17-a (Samp) **5/17/2013, 1:19:58 AM** **Rack 2, Tube 48**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2896u	0.3831	-0.1443u
Al 308.215	171.059	165.632	169.936
As 188.980	-3.8358u	3.7284	3.6591
B 249.678	10.8285	10.0326	11.2648
Ba 389.178	31.4239	32.2963	33.5209
Be 313.042	0.0025	0.0203	-0.0018u
Ca 370.602	13409	13360	13370
Cd 226.502	-0.0477	0.2947	0.4813
Co 228.615	5.7374	5.8947	6.2228
Cr 267.716	1.0321	0.9069	0.4681
Cu 324.754	5.7736	2.4835	4.6290
Fe 271.441	689.579	627.631	691.133
K 766.491	8010.47	7165.88	7773.24
Mg 279.078	5693.29	5639.31	5675.77
Mn 257.610	659.685	644.658	649.116
Mo 202.032	12.9140	12.6367	13.6654
Na 330.237	31039.0	30133.2	28331.9
Ni 231.604	3.6297	1.3327	3.2104
Pb 220.353	3.0514	4.8627	5.1945
Sb 206.834	8.9137	-5.3767u	0.5122
Se 196.026	5.8654	16.6140	-3.3325u
Sn 189.925	-1.3022u	1.6062	-1.5498u
Sr 216.596	57.6040	57.1894	57.0750
Ti 334.941	6.5614	6.7179	6.7637
Tl 190.794	-0.7896u	-8.6452u	-8.9355u
V 292.401	2.2796	2.5141	2.7511
Zn 206.200	21.4839	22.4083	20.6166

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3502	ppb	0.8552	244.2	-62.9780
Al 308.215	168.876	ppb	2.8645	1.7	379.823
As 188.980	1.1839	ppb	4.3473	367.2	-10.4080
B 249.678	10.7086	ppb	0.6248	5.8	313.228
Ba 389.178	32.4137	ppb	1.0534	3.2	843.193
Be 313.042	0.0070	ppb	0.0117	167.0	-434.063
Ca 370.602	13380	ppb	25.68	0.2	46932
Cd 226.502	0.2428	ppb	0.2683	110.5	52.7151
Co 228.615	5.9516	ppb	0.2477	4.2	96.6234
Cr 267.716	0.8024	ppb	0.2962	36.9	55.4564
Cu 324.754	4.2954	ppb	1.6702	38.9	520.338
Fe 271.441	669.448	ppb	36.2230	5.4	1417.93
K 766.491	7649.86	ppb	435.600	5.7	320921
Mg 279.078	5669.46	ppb	27.5418	0.5	14951.5
Mn 257.610	651.153	ppb	7.7178	1.2	46616.7
Mo 202.032	13.0720	ppb	0.5323	4.1	130.123
Na 330.237	29834.7	ppb	1378.00	4.6	1740.27
Ni 231.604	2.7243	ppb	1.2232	44.9	9.7971
Pb 220.353	4.3695	ppb	1.1535	26.4	40.1808
Sb 206.834	1.3497	ppb	7.1819	532.1	-1.7695
Se 196.026	6.3823	ppb	9.9833	156.4	15.3576
Sn 189.925	-0.4153	ppb	1.7550	422.6	-17.0207
Sr 216.596	57.2895	ppb	0.2783	0.5	855.223
Ti 334.941	6.6810	ppb	0.1061	1.6	2227.44
Tl 190.794	-6.1234	ppb	4.6215	75.5	-27.3282
V 292.401	2.5149	ppb	0.2357	9.4	67.3548
Zn 206.200	21.5029	ppb	0.8960	4.2	48.8404

680-90203-a-2-a (Samp) **5/17/2013, 1:36:15 AM** **Rack 2, Tube 51**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3927u	-0.6551u	-0.9778u
Al 308.215	91.3322	113.392	127.128
As 188.980	-4.2506u	16.4632	-1.6557u
B 249.678	20.8049	19.6095	19.0791
Ba 389.178	18.8361	19.4872	18.3327
Be 313.042	0.0272	0.0397	0.0304
Ca 370.602	4897	4811	4900
Cd 226.502	0.6574	0.0734	0.3541
Co 228.615	-0.7942u	-0.6330u	-0.3347u
Cr 267.716	0.5905	0.0763	0.6026
Cu 324.754	6.6483	6.6110	7.8946
Fe 271.441	89.9836	73.6007	105.786
K 766.491	10078.0	10194.2	10861.0
Mg 279.078	2462.55	2492.05	2469.63
Mn 257.610	12.0454	10.1816	11.2769
Mo 202.032	3.2367	3.1637	3.4553
Na 330.237	23780.3	25399.1	25004.2
Ni 231.604	4.6881	2.0426	5.0084
Pb 220.353	10.2782	11.3187	9.5568
Sb 206.834	-1.3608u	1.8144	2.8494
Se 196.026	-5.1906u	5.0152	-9.9268u
Sn 189.925	5.3924	-0.0708u	2.0478
Sr 216.596	44.2112	44.6592	44.6252
Ti 334.941	0.3261	0.3219	0.2284
Tl 190.794	-10.6687u	-5.2219u	-1.8905u
V 292.401	0.4356	0.1444	0.4625
Zn 206.200	34.5950	30.0452	31.1686

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0085	ppb	0.3698	36.7	-122.944
Al 308.215	110.617	ppb	18.0583	16.3	242.484
As 188.980	3.5190	ppb	11.2848	320.7	-8.8314
B 249.678	19.8311	ppb	0.8840	4.5	457.733
Ba 389.178	18.8853	ppb	0.5788	3.1	476.317
Be 313.042	0.0324	ppb	0.0065	20.1	-379.251
Ca 370.602	4869	ppb	50.59	1.0	17097
Cd 226.502	0.3616	ppb	0.2921	80.8	55.9820
Co 228.615	-0.5873	ppb	0.2331	39.7	-4.9585
Cr 267.716	0.4232	ppb	0.3004	71.0	30.5897
Cu 324.754	7.0513	ppb	0.7305	10.4	663.265
Fe 271.441	89.7902	ppb	16.0937	17.9	217.184
K 766.491	10377.7	ppb	422.542	4.1	435258
Mg 279.078	2474.74	ppb	15.4042	0.6	6550.02
Mn 257.610	11.1679	ppb	0.9367	8.4	940.644
Mo 202.032	3.2852	ppb	0.1517	4.6	45.6560
Na 330.237	24727.8	ppb	844.074	3.4	1455.15
Ni 231.604	3.9130	ppb	1.6277	41.6	14.0346
Pb 220.353	10.3846	ppb	0.8857	8.5	53.7800
Sb 206.834	1.1010	ppb	2.1939	199.3	-1.8999
Se 196.026	-3.3674	ppb	7.6360	226.8	8.9648
Sn 189.925	2.4564	ppb	2.7544	112.1	-13.7651
Sr 216.596	44.4985	ppb	0.2494	0.6	667.765
Ti 334.941	0.2921	ppb	0.0553	18.9	65.0151
Tl 190.794	-5.9271	ppb	4.4314	74.8	-26.4312
V 292.401	0.3475	ppb	0.1764	50.8	0.2305
Zn 206.200	31.9362	ppb	2.3701	7.4	69.0873

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680-90203-a-2-b ms (Samp) 5/17/2013, 1:41:40 AM Rack 2, Tube 52**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.8542	49.8111	47.6832
Al 308.215	3259.90	3258.22	3232.42
As 188.980	135.594	142.540	136.776
B 249.678	206.996	206.445	206.448
Ba 389.178	125.341	123.549	122.680
Be 313.042	45.9216	45.7867	45.7069
Ca 370.602	9594	9543	9412
Cd 226.502	73.9557	74.2120	73.4883
Co 228.615	63.4463	62.8725	61.8492
Cr 267.716	111.399	110.793	110.277
Cu 324.754	83.9905	79.7662	77.7506
Fe 271.441	5202.20	5218.46	5147.39
K 766.491	19071.1	19145.1	17971.4
Mg 279.078	8518.25	8477.59	8394.03
Mn 257.610	1086.44	1080.14	1080.43
Mo 202.032	99.9969	98.9613	98.1892
Na 330.237	29332.2	30534.4	31119.0
Ni 231.604	131.305	128.686	126.981
Pb 220.353	83.3373	81.0460	79.9158
Sb 206.834	54.0644	50.4126	49.1498
Se 196.026	153.445	143.033	162.540
Sn 189.925	286.117	284.828	284.567
Sr 216.596	165.158	164.625	163.137
Ti 334.941	84.7996	84.7074	84.3434
Tl 190.794	59.2744	53.9118	58.3176
V 292.401	117.196	120.337	107.984
Zn 206.200	219.891	220.707	217.316

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.7828	ppb	2.0857	4.2	4384.96
Al 308.215	3250.18	ppb	15.4076	0.5	7616.56
As 188.980	138.304	ppb	3.7163	2.7	87.0734
B 249.678	206.629	ppb	0.3175	0.2	3388.37
Ba 389.178	123.857	ppb	1.3568	1.1	3267.70
Be 313.042	45.8051	ppb	0.1085	0.2	99390.5
Ca 370.602	9516	ppb	94.04	1.0	32941
Cd 226.502	73.8853	ppb	0.3669	0.5	3653.26
Co 228.615	62.7227	ppb	0.8090	1.3	979.281
Cr 267.716	110.823	ppb	0.5614	0.5	6567.88
Cu 324.754	80.5024	ppb	3.1845	4.0	4489.62
Fe 271.441	5189.35	ppb	37.2364	0.7	10782.9
K 766.491	18729.2	ppb	657.325	3.5	785309
Mg 279.078	8463.29	ppb	63.3343	0.7	22302.9
Mn 257.610	1082.34	ppb	3.5598	0.3	77396.6
Mo 202.032	99.0491	ppb	0.9070	0.9	871.973
Na 330.237	30328.5	ppb	911.000	3.0	1763.91
Ni 231.604	128.991	ppb	2.1782	1.7	461.853
Pb 220.353	81.4331	ppb	1.7433	2.1	215.472
Sb 206.834	51.2090	ppb	2.5523	5.0	58.8870
Se 196.026	153.006	ppb	9.7608	6.4	109.562
Sn 189.925	285.171	ppb	0.8302	0.3	307.496
Sr 216.596	164.307	ppb	1.0472	0.6	2409.16
Ti 334.941	84.6168	ppb	0.2412	0.3	28410.0
Tl 190.794	57.1680	ppb	2.8602	5.0	41.8466
V 292.401	115.172	ppb	6.4204	5.6	3658.02
Zn 206.200	219.305	ppb	1.7700	0.8	434.462

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680-90203-a-2-c msd (Samp) 5/17/2013, 1:47:06 AM Rack 2, Tube 53**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.3573	47.8685	50.5294
Al 308.215	3343.84	3295.77	3295.86
As 188.980	150.547	138.279	137.020
B 249.678	210.942	212.046	213.840
Ba 389.178	126.984	126.950	124.745
Be 313.042	46.8547	46.7574	46.8175
Ca 370.602	9760	9728	9611
Cd 226.502	75.9999	74.9811	75.1793
Co 228.615	75.1935	64.4458	63.3694
Cr 267.716	113.984	113.064	113.433
Cu 324.754	83.9490	79.9886	82.3608
Fe 271.441	5324.64	5288.14	5243.61
K 766.491	19269.7	19225.7	18847.8
Mg 279.078	8680.63	8611.52	8535.81
Mn 257.610	1130.50	1109.72	1090.43
Mo 202.032	100.462	101.012	99.5456
Na 330.237	31882.7	30936.0	28997.4
Ni 231.604	127.117	130.810	129.603
Pb 220.353	81.4775	74.7156	79.1708
Sb 206.834	44.7725	54.2274	50.2832
Se 196.026	147.096	146.640	143.062
Sn 189.925	297.574	285.704	287.516
Sr 216.596	168.222	167.422	165.615
Ti 334.941	86.3806	86.2790	86.3645
Tl 190.794	59.2674	61.3026	58.9081
V 292.401	113.729	118.090	122.666
Zn 206.200	230.690	223.580	225.369

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.5851	ppb	1.4891	3.0	4367.18
Al 308.215	3311.82	ppb	27.7300	0.8	7761.33
As 188.980	141.948	ppb	7.4731	5.3	89.6676
B 249.678	212.276	ppb	1.4627	0.7	3477.04
Ba 389.178	126.226	ppb	1.2830	1.0	3330.77
Be 313.042	46.8099	ppb	0.0491	0.1	101581
Ca 370.602	9699	ppb	78.35	0.8	33574
Cd 226.502	75.3868	ppb	0.5401	0.7	3726.72
Co 228.615	67.6695	ppb	6.5381	9.7	1056.33
Cr 267.716	113.494	ppb	0.4629	0.4	6726.01
Cu 324.754	82.0995	ppb	1.9931	2.4	4572.80
Fe 271.441	5285.46	ppb	40.5829	0.8	10982.8
K 766.491	19114.4	ppb	231.882	1.2	801453
Mg 279.078	8609.32	ppb	72.4338	0.8	22687.1
Mn 257.610	1110.22	ppb	20.0404	1.8	79386.8
Mo 202.032	100.340	ppb	0.7406	0.7	883.104
Na 330.237	30605.4	ppb	1470.84	4.8	1779.26
Ni 231.604	129.177	ppb	1.8830	1.5	462.522
Pb 220.353	78.4547	ppb	3.4374	4.4	208.690
Sb 206.834	49.7610	ppb	4.7490	9.5	57.1439
Se 196.026	145.599	ppb	2.2093	1.5	104.811
Sn 189.925	290.265	ppb	6.3947	2.2	313.285
Sr 216.596	167.086	ppb	1.3359	0.8	2449.62
Ti 334.941	86.3414	ppb	0.0546	0.1	28989.9
Tl 190.794	59.8260	ppb	1.2913	2.2	44.7525
V 292.401	118.162	ppb	4.4686	3.8	3753.44
Zn 206.200	226.546	ppb	3.6980	1.6	448.576

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mb 680-276923/1-a (Samp) **5/17/2013, 1:52:31 AM** **Rack 2, Tube 54**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6966u	-1.6287u	-0.8323u
Al 308.215	70.6530	76.4269	71.3990
As 188.980	4.4642	9.7757	-0.7412u
B 249.678	8.0911	7.5015	7.7483
Ba 389.178	3.9699	4.0237	5.4696
Be 313.042	0.0213	0.0209	0.0346
Ca 370.602	-12.73u	-18.23u	-21.73u
Cd 226.502	0.5076	0.3301	0.4302
Co 228.615	0.9594	-0.0772u	0.1298
Cr 267.716	-0.0269u	0.2868	-0.1144u
Cu 324.754	-1.4501u	-0.1773u	-3.5210u
Fe 271.441	0.5858	16.1684	8.2209
K 766.491	15.7836	14.4712	13.9144
Mg 279.078	34.3430	32.9698	32.0025
Mn 257.610	1.1715	0.5935	1.1159
Mo 202.032	2.1766	2.3611	4.0446
Na 330.237	-158.558u	119.199	262.746
Ni 231.604	3.7149	2.3118	2.3645
Pb 220.353	3.2017	4.9418	4.8859
Sb 206.834	-4.2571u	-1.4679u	4.0161
Se 196.026	20.3042	11.0740	-13.6505u
Sn 189.925	-0.6769u	-2.4487u	-2.8579u
Sr 216.596	2.6737	2.5019	3.6166
Ti 334.941	-0.0586u	-0.0006u	0.0920
Tl 190.794	-7.2606u	-10.2719u	-6.4386u
V 292.401	-0.1356u	0.3325	-0.0783u
Zn 206.200	3.6781	2.3964	1.2409

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0525	ppb	0.5036	47.8	-124.047
Al 308.215	72.8263	ppb	3.1404	4.3	153.770
As 188.980	4.4996	ppb	5.2585	116.9	-8.1893
B 249.678	7.7803	ppb	0.2961	3.8	268.226
Ba 389.178	4.4877	ppb	0.8508	19.0	89.5940
Be 313.042	0.0256	ppb	0.0078	30.4	-392.471
Ca 370.602	-17.56	ppb	4.537	25.8	-50.47
Cd 226.502	0.4226	ppb	0.0890	21.1	58.6773
Co 228.615	0.3373	ppb	0.5486	162.6	9.4540
Cr 267.716	0.0485	ppb	0.2110	434.8	7.8602
Cu 324.754	-1.7162	ppb	1.6877	98.3	206.964
Fe 271.441	8.3250	ppb	7.7918	93.6	48.7732
K 766.491	14.7231	ppb	0.9597	6.5	896.408
Mg 279.078	33.1051	ppb	1.1761	3.6	123.004
Mn 257.610	0.9603	ppb	0.3189	33.2	205.672
Mo 202.032	2.8607	ppb	1.0294	36.0	41.9971
Na 330.237	74.4623	ppb	214.185	287.6	78.2232
Ni 231.604	2.7970	ppb	0.7953	28.4	10.0377
Pb 220.353	4.3431	ppb	0.9889	22.8	40.0264
Sb 206.834	-0.5696	ppb	4.2091	739.0	-3.9252
Se 196.026	5.9093	ppb	17.5567	297.1	14.9182
Sn 189.925	-1.9945	ppb	1.1593	58.1	-18.8372
Sr 216.596	2.9307	ppb	0.6001	20.5	61.0882
Ti 334.941	0.0109	ppb	0.0760	696.2	-41.3072
Tl 190.794	-7.9904	ppb	2.0181	25.3	-28.6852
V 292.401	0.0395	ppb	0.2553	646.1	-9.3833
Zn 206.200	2.4385	ppb	1.2491	50.8	71.46070

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ics 680-276923/2-a (Samp) 5/17/2013, 1:57:57 AM Rack 2, Tube 55
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	21.7705	23.6623	21.0729
Al 308.215	1785.33	1695.68	1622.45
As 188.980	77.0572	60.5795	69.2170
B 249.678	91.0028	85.3499	84.5637
Ba 389.178	47.8139	46.9005	45.7421
Be 313.042	21.7959	20.5547	20.1827
Ca 370.602	2215	2171	2123
Cd 226.502	34.2924	32.3791	31.1414
Co 228.615	28.1411	30.3547	25.4542
Cr 267.716	51.9994	50.3941	48.7200
Cu 324.754	36.1035	29.8207	31.1914
Fe 271.441	2413.83	2308.68	2273.02
K 766.491	3996.72	3864.44	3585.51
Mg 279.078	2844.69	2727.78	2660.75
Mn 257.610	416.056	400.582	386.995
Mo 202.032	48.6234	44.7924	44.9202
Na 330.237	2946.87	2520.06	2596.49
Ni 231.604	53.4960	52.1596	55.7616
Pb 220.353	39.2092	40.3399	41.2137
Sb 206.834	26.4194	32.9640	19.3567
Se 196.026	61.8859	69.9758	63.2992
Sn 189.925	120.829	119.739	117.040
Sr 216.596	57.8809	56.9698	55.2806
Ti 334.941	38.8091	36.9605	36.3435
Tl 190.794	18.1671	23.6408	19.2233
V 292.401	52.2648	51.2876	48.7975
Zn 206.200	92.4637	87.0087	87.0040

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.1686	ppb	1.3398	6.0	1937.23
Al 308.215	1701.15	ppb	81.5771	4.8	3977.82
As 188.980	68.9512	ppb	8.2421	12.0	37.6693
B 249.678	86.9721	ppb	3.5127	4.0	1510.44
Ba 389.178	46.8188	ppb	1.0383	2.2	1216.42
Be 313.042	20.8445	ppb	0.8447	4.1	44986.4
Ca 370.602	2170	ppb	45.78	2.1	7418
Cd 226.502	32.6043	ppb	1.5875	4.9	1633.44
Co 228.615	27.9833	ppb	2.4541	8.8	439.282
Cr 267.716	50.3712	ppb	1.6399	3.3	2987.72
Cu 324.754	32.3718	ppb	3.3035	10.2	1982.63
Fe 271.441	2331.84	ppb	73.2049	3.1	4862.64
K 766.491	3815.56	ppb	209.921	5.5	160207
Mg 279.078	2744.41	ppb	93.0889	3.4	7255.07
Mn 257.610	401.211	ppb	14.5405	3.6	28775.5
Mo 202.032	46.1120	ppb	2.1759	4.7	415.203
Na 330.237	2687.81	ppb	227.588	8.5	222.365
Ni 231.604	53.8058	ppb	1.8209	3.4	192.672
Pb 220.353	40.2543	ppb	1.0050	2.5	121.759
Sb 206.834	26.2467	ppb	6.8053	25.9	28.6294
Se 196.026	65.0537	ppb	4.3209	6.6	52.9825
Sn 189.925	119.203	ppb	1.9504	1.6	118.885
Sr 216.596	56.7104	ppb	1.3194	2.3	842.970
Ti 334.941	37.3710	ppb	1.2830	3.4	12516.9
Tl 190.794	20.3437	ppb	2.9037	14.3	1.9697
V 292.401	50.7833	ppb	1.7878	3.5	1607.23
Zn 206.200	88.8255	ppb	3.1508	3.5	180.056

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Iics 680-276923/24-a (Samp) 5/17/2013, 2:03:22 AM Rack 2, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.7348	10.9376	11.9498
Al 308.215	304.771	290.748	290.505
As 188.980	43.4216	37.3524	29.1826
B 249.678	115.999	128.749	123.866
Ba 389.178	14.6606	17.3796	15.9108
Be 313.042	4.5227	4.9311	4.7511
Ca 370.602	585.5	624.7	604.0
Cd 226.502	9.2238	10.2279	9.7883
Co 228.615	6.7850	10.3108	17.9539
Cr 267.716	13.5092	14.3240	16.0865
Cu 324.754	15.1314	23.4719	21.6031
Fe 271.441	79.0976	79.5350	71.9553
K 766.491	2081.14	2206.96	2156.99
Mg 279.078	786.960	848.478	828.534
Mn 257.610	22.5668	24.3727	24.8701
Mo 202.032	14.2978	17.1880	17.5309
Na 330.237	985.423	1308.29	1979.43
Ni 231.604	67.2126	67.2780	60.9320
Pb 220.353	26.3093	26.2045	30.4701
Sb 206.834	25.4136	32.7559	20.7071
Se 196.026	16.5237	41.0410	30.8934
Sn 189.925	83.3801	81.7524	86.2484
Sr 216.596	18.3365	18.9404	18.7763
Ti 334.941	10.1287	11.2007	10.8281
Tl 190.794	36.9512	36.7030	32.0710
V 292.401	12.4639	14.0169	14.8991
Zn 206.200	46.3346	51.0203	50.9283

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.8741	ppb	1.1089	10.2	934.789
Al 308.215	295.341	ppb	8.1674	2.8	676.754
As 188.980	36.6522	ppb	7.1453	19.5	14.6813
B 249.678	122.871	ppb	6.4331	5.2	2079.16
Ba 389.178	15.9836	ppb	1.3610	8.5	394.800
Be 313.042	4.7350	ppb	0.2047	4.3	9871.48
Ca 370.602	604.7	ppb	19.62	3.2	2130
Cd 226.502	9.7467	ppb	0.5033	5.2	512.245
Co 228.615	11.6832	ppb	5.7095	48.9	185.915
Cr 267.716	14.6399	ppb	1.3174	9.0	871.437
Cu 324.754	20.0688	ppb	4.3768	21.8	1340.99
Fe 271.441	76.8626	ppb	4.2555	5.5	192.904
K 766.491	2148.36	ppb	63.3475	2.9	90327.3
Mg 279.078	821.324	ppb	31.3866	3.8	2197.46
Mn 257.610	23.9365	ppb	1.2120	5.1	1847.32
Mo 202.032	16.3389	ppb	1.7759	10.9	158.344
Na 330.237	1424.38	ppb	507.071	35.6	153.136
Ni 231.604	65.1408	ppb	3.6451	5.6	233.171
Pb 220.353	27.6613	ppb	2.4331	8.8	93.0734
Sb 206.834	26.2922	ppb	6.0723	23.1	28.5919
Se 196.026	29.4860	ppb	12.3191	41.8	30.0597
Sn 189.925	83.7936	ppb	2.2764	2.7	78.6472
Sr 216.596	18.6844	ppb	0.3122	1.7	288.623
Ti 334.941	10.7191	ppb	0.5442	5.1	3558.03
Tl 190.794	35.2417	ppb	2.7487	7.8	18.8201
V 292.401	13.7933	ppb	1.2329	8.9	428.328
Zn 206.200	49.4277	ppb	2.6791	5.4	102.108

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680-90063-g-3-j (Samp) **5/17/2013, 2:08:48 AM** **Rack 2, Tube 57**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7851u	0.1833	-1.1852u
Al 308.215	94.7235	66.9809	113.312
As 188.980	2.7335	6.7792	6.7500
B 249.678	16.9228	14.4875	15.9222
Ba 389.178	3.1847	3.1991	6.1038
Be 313.042	-0.0115u	0.0097	-0.0107u
Ca 370.602	175.3	173.2	180.6
Cd 226.502	0.3273	-0.0268u	0.5029
Co 228.615	0.0059	-0.5277u	-2.2833u
Cr 267.716	0.5835	0.1825	0.3269
Cu 324.754	1.1863	-1.1439u	-0.8324u
Fe 271.441	-16.8751u	1.6334	12.1767
K 766.491	5791.49	5258.84	6304.44
Mg 279.078	3852.51	3465.16	4156.69
Mn 257.610	0.1039	0.1201	1.0516
Mo 202.032	1.9945	2.6320	2.9919
Na 330.237	4561.02	3965.93	4463.40
Ni 231.604	2.3552	1.1115	3.7165
Pb 220.353	5.4152	2.7993	11.4439
Sb 206.834	0.2757	-2.3576u	-4.2566u
Se 196.026	-1.7009u	-3.0535u	14.4217
Sn 189.925	-2.9719u	6.5216	-4.2428u
Sr 216.596	2.8918	2.1073	3.1143
Ti 334.941	-0.0266	-0.0639u	-0.0732u
Tl 190.794	-14.7563u	-3.1219u	-7.6953u
V 292.401	-0.4627u	-0.2594u	0.3546
Zn 206.200	4.5206	2.4847	4.4003

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5957	ppb	0.7037	118.1	-83.5189
Al 308.215	91.6723	ppb	23.3160	25.4	197.992
As 188.980	5.4209	ppb	2.3274	42.9	-7.5318
B 249.678	15.7775	ppb	1.2241	7.8	394.089
Ba 389.178	4.1625	ppb	1.6812	40.4	92.8363
Be 313.042	-0.0042	ppb	0.0120	287.1	-458.362
Ca 370.602	176.4	ppb	3.844	2.2	630.6
Cd 226.502	0.2678	ppb	0.2698	100.7	51.1742
Co 228.615	-0.9350	ppb	1.1977	128.1	-10.3595
Cr 267.716	0.3643	ppb	0.2031	55.7	26.6413
Cu 324.754	-0.2633	ppb	1.2651	480.4	282.566
Fe 271.441	-1.0217	ppb	14.7068	1439.5	29.1996
K 766.491	5784.92	ppb	522.828	9.0	242753
Mg 279.078	3824.79	ppb	346.598	9.1	10103.8
Mn 257.610	0.4252	ppb	0.5426	127.6	177.484
Mo 202.032	2.5395	ppb	0.5051	19.9	39.2237
Na 330.237	4330.12	ppb	319.148	7.4	315.947
Ni 231.604	2.3944	ppb	1.3029	54.4	8.5966
Pb 220.353	6.5528	ppb	4.4331	67.7	45.0573
Sb 206.834	-2.1128	ppb	2.2761	107.7	-5.7875
Se 196.026	3.2224	ppb	9.7224	301.7	13.1932
Sn 189.925	-0.2310	ppb	5.8824	2546.4	-16.8312
Sr 216.596	2.7045	ppb	0.5290	19.6	57.8567
Ti 334.941	-0.0546	ppb	0.0247	45.2	-42.1318
Tl 190.794	-8.5245	ppb	5.8613	68.8	-29.2728
V 292.401	-0.1225	ppb	0.4255	347.3	-14.5485
Zn 206.200	3.8019	ppb	1.1423	30.0	14.2616

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680-90063-g-3-k ms (Samp) **5/17/2013, 2:14:14 AM** **Rack 2, Tube 58****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	19.5120	19.1049	22.0928
Al 308.215	1564.80	1555.99	1586.34
As 188.980	58.4037	52.4545	66.6093
B 249.678	92.5045	93.2078	97.5952
Ba 389.178	50.1380	49.7787	51.0241
Be 313.042	20.1107	20.0893	20.4829
Ca 370.602	2316	2283	2334
Cd 226.502	31.9310	31.3927	32.9606
Co 228.615	25.4510	24.9463	26.3226
Cr 267.716	50.8169	49.7639	55.4589
Cu 324.754	30.0255	31.8701	35.6564
Fe 271.441	2315.79	2289.09	2300.67
K 766.491	8159.50	7934.54	8153.11
Mg 279.078	6255.56	6167.22	6285.02
Mn 257.610	418.493	415.340	424.306
Mo 202.032	44.4427	44.0435	45.1028
Na 330.237	6873.85	6846.05	7684.50
Ni 231.604	54.8012	52.9251	56.8621
Pb 220.353	38.2009	37.3320	38.1719
Sb 206.834	22.8736	22.2693	18.0051
Se 196.026	76.7837	57.9233	61.9652
Sn 189.925	116.161	119.047	117.197
Sr 216.596	57.2469	56.0947	56.4151
Ti 334.941	36.3208	36.1970	37.1989
Tl 190.794	16.9856	21.5219	24.0224
V 292.401	50.5426	46.4537	50.5750
Zn 206.200	85.0474	81.6408	85.4033

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.2366	ppb	1.6204	8.0	1765.46
Al 308.215	1569.04	ppb	15.6150	1.0	3667.69
As 188.980	59.1558	ppb	7.1073	12.0	30.7047
B 249.678	94.4358	ppb	2.7586	2.9	1627.94
Ba 389.178	50.3136	ppb	0.6410	1.3	1319.24
Be 313.042	20.2276	ppb	0.2213	1.1	43641.0
Ca 370.602	2311	ppb	25.89	1.1	7915
Cd 226.502	32.0947	ppb	0.7967	2.5	1608.59
Co 228.615	25.5733	ppb	0.6963	2.7	401.784
Cr 267.716	52.0132	ppb	3.0301	5.8	3085.00
Cu 324.754	32.5173	ppb	2.8707	8.8	1990.16
Fe 271.441	2301.85	ppb	13.3902	0.6	4800.10
K 766.491	8082.38	ppb	128.075	1.6	339050
Mg 279.078	6235.93	ppb	61.3037	1.0	16445.9
Mn 257.610	419.380	ppb	4.5480	1.1	30081.2
Mo 202.032	44.5297	ppb	0.5350	1.2	401.544
Na 330.237	7134.80	ppb	476.255	6.7	470.837
Ni 231.604	54.8628	ppb	1.9692	3.6	196.454
Pb 220.353	37.9016	ppb	0.4935	1.3	116.406
Sb 206.834	21.0493	ppb	2.6537	12.6	22.3755
Se 196.026	65.5574	ppb	9.9301	15.1	53.3046
Sn 189.925	117.469	ppb	1.4622	1.2	116.917
Sr 216.596	56.5856	ppb	0.5947	1.1	841.217
Ti 334.941	36.5722	ppb	0.5462	1.5	12268.2
Tl 190.794	20.8433	ppb	3.5671	17.1	2.5247
V 292.401	49.1904	ppb	2.3701	4.8	1556.27
Zn 206.200	84.0305	ppb	2.0772	2.5	174.705

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680-90063-g-3-1 msd (Samp) 5/17/2013, 2:19:40 AM Rack 2, Tube 59
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	21.1692	24.4053	21.3052
Al 308.215	1767.32	1745.82	1702.71
As 188.980	65.7515	59.6686	67.5299
B 249.678	101.687	96.4915	96.6936
Ba 389.178	48.8283	50.3638	51.3534
Be 313.042	21.7740	21.1001	20.7463
Ca 370.602	2416	2430	2373
Cd 226.502	33.9232	32.7266	32.5932
Co 228.615	25.2068	31.8883	32.4784
Cr 267.716	52.3231	50.9369	50.9484
Cu 324.754	38.2376	33.0165	32.5543
Fe 271.441	2439.68	2359.73	2273.13
K 766.491	9698.34	9687.53	8443.86
Mg 279.078	6776.28	6685.79	6527.48
Mn 257.610	407.015	395.341	380.308
Mo 202.032	49.2762	46.8923	46.3679
Na 330.237	7603.58	7622.50	6914.89
Ni 231.604	56.9008	51.8388	53.9193
Pb 220.353	39.1578	38.1364	37.1770
Sb 206.834	38.0229	30.6111	14.7551
Se 196.026	85.7111	61.5353	52.7499
Sn 189.925	125.573	123.543	120.403
Sr 216.596	57.9137	57.2067	55.8607
Ti 334.941	38.2330	37.7154	36.9183
Tl 190.794	10.9226	15.6136	25.9052
V 292.401	51.0581	51.9181	51.0932
Zn 206.200	91.3235	88.3597	81.1919

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.2932	ppb	1.8304	8.2	1948.25
Al 308.215	1738.62	ppb	32.8994	1.9	4065.79
As 188.980	64.3167	ppb	4.1224	6.4	34.3751
B 249.678	98.2907	ppb	2.9431	3.0	1688.56
Ba 389.178	50.1818	ppb	1.2723	2.5	1317.13
Be 313.042	21.2068	ppb	0.5221	2.5	45775.3
Ca 370.602	2406	ppb	29.90	1.2	8248
Cd 226.502	33.0810	ppb	0.7324	2.2	1656.67
Co 228.615	29.8578	ppb	4.0387	13.5	468.470
Cr 267.716	51.4028	ppb	0.7970	1.6	3048.88
Cu 324.754	34.6028	ppb	3.1563	9.1	2098.75
Fe 271.441	2357.51	ppb	83.2992	3.5	4916.11
K 766.491	9276.58	ppb	721.174	7.8	389104
Mg 279.078	6663.18	ppb	125.931	1.9	17570.4
Mn 257.610	394.221	ppb	13.3885	3.4	28287.1
Mo 202.032	47.5121	ppb	1.5500	3.3	427.291
Na 330.237	7380.32	ppb	403.189	5.5	484.514
Ni 231.604	54.2196	ppb	2.5443	4.7	194.153
Pb 220.353	38.1571	ppb	0.9906	2.6	116.984
Sb 206.834	27.7964	ppb	11.8865	42.8	30.5072
Se 196.026	66.6654	ppb	17.0689	25.6	54.0182
Sn 189.925	123.173	ppb	2.6049	2.1	123.399
Sr 216.596	56.9937	ppb	1.0429	1.8	847.098
Ti 334.941	37.6222	ppb	0.6623	1.8	12623.1
Tl 190.794	17.4805	ppb	7.6638	43.8	-1.1812
V 292.401	51.3565	ppb	0.4867	0.9	1625.40
Zn 206.200	86.9584	ppb	5.2991	6.0	176.415

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680-90063-p-4-d (Samp) **5/17/2013, 2:25:06 AM** **Rack 2, Tube 60**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8511u	-1.9126u	-1.1838u
Al 308.215	69.8651	117.367	112.346
As 188.980	11.5228	16.7572	4.2878
B 249.678	18.8508	15.8382	16.9407
Ba 389.178	21.1320	20.1670	23.0600
Be 313.042	0.0020	-0.0128u	-0.0146u
Ca 370.602	5541	5655	5676
Cd 226.502	0.3185	0.9139	1.1330
Co 228.615	0.2897	-1.7387u	-2.6171u
Cr 267.716	0.7908	0.5985	0.3927
Cu 324.754	-0.4213u	-1.3687u	-1.0809u
Fe 271.441	-5.1588u	6.7517	-2.4279u
K 766.491	1146.24	1204.69	1234.16
Mg 279.078	4826.85	4988.14	5098.98
Mn 257.610	0.5764	1.1332	1.1301
Mo 202.032	3.2539	2.8833	3.1093
Na 330.237	7615.32	7334.69	7637.90
Ni 231.604	3.5423	1.7124	1.1802
Pb 220.353	8.5933	5.0905	10.1794
Sb 206.834	2.1322	0.1532	11.5090
Se 196.026	6.9928	17.1500	-20.9475u
Sn 189.925	-1.5819u	-0.1818u	-0.8212u
Sr 216.596	12.4557	13.1963	13.1681
Ti 334.941	-0.1251u	-0.0785	-0.1398u
Tl 190.794	-4.9207u	-16.9554u	-10.8332u
V 292.401	0.5080	0.1896	0.3938
Zn 206.200	61.7898	63.9272	65.9959

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3159	ppb	0.5429	41.3	-148.216
Al 308.215	99.8595	ppb	26.0970	26.1	217.227
As 188.980	10.8559	ppb	6.2614	57.7	-3.6078
B 249.678	17.2099	ppb	1.5242	8.9	416.631
Ba 389.178	21.4530	ppb	1.4730	6.9	551.399
Be 313.042	-0.0085	ppb	0.0091	108.0	-465.569
Ca 370.602	5624	ppb	72.60	1.3	19754
Cd 226.502	0.7885	ppb	0.4215	53.5	76.4451
Co 228.615	-1.3554	ppb	1.4908	110.0	-16.9341
Cr 267.716	0.5940	ppb	0.1991	33.5	40.2845
Cu 324.754	-0.9570	ppb	0.4857	50.8	246.470
Fe 271.441	-0.2783	ppb	6.2394	2242.0	30.6742
K 766.491	1195.03	ppb	44.7491	3.7	50368.5
Mg 279.078	4971.32	ppb	136.841	2.8	13121.8
Mn 257.610	0.9466	ppb	0.3206	33.9	217.737
Mo 202.032	3.0821	ppb	0.1868	6.1	43.9087
Na 330.237	7529.30	ppb	168.916	2.2	494.176
Ni 231.604	2.1450	ppb	1.2390	57.8	7.7037
Pb 220.353	7.9544	ppb	2.6039	32.7	48.2471
Sb 206.834	4.5981	ppb	6.0663	131.9	2.3341
Se 196.026	1.0651	ppb	19.7284	1852.2	11.8081
Sn 189.925	-0.8616	ppb	0.7009	81.3	-17.5429
Sr 216.596	12.9400	ppb	0.4197	3.2	207.853
Ti 334.941	-0.1145	ppb	0.0320	28.0	-55.9918
Tl 190.794	-10.9031	ppb	6.0177	55.2	-31.8874
V 292.401	0.3638	ppb	0.1613	44.3	0.9549
Zn 206.200	63.9043	ppb	2.1931	3.3	131.354

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680-90063-n-1-d (Samp) **5/17/2013, 2:41:25 AM** **Rack 3, Tube 3****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1619u	0.1783u	-0.7300u
Al 308.215	99.9527	86.8574	93.6138
As 188.980	10.7038	0.2636	7.3782
B 249.678	370.368	365.472	406.615
Ba 389.178	103.901	101.669	103.677
Be 313.042	-0.0133	-0.0214u	-0.0265u
Ca 370.602	129192	172729	171795
Cd 226.502	0.2807	0.3447	0.6535
Co 228.615	-1.2696u	-0.2786u	-1.3282u
Cr 267.716	0.0770	0.4060	0.4804
Cu 324.754	5.6575	4.6264	6.0397
Fe 271.441	17.8248	8.1174	7.0586
K 766.491	4093.03	4085.16	4054.55
Mg 279.078	32027.8	31069.2	31496.5
Mn 257.610	0.5447	0.7779	0.3948
Mo 202.032	2.8707	2.2488	2.4728
Na 330.237	184343x	210711x	186291x
Ni 231.604	4.9217	5.3644	4.0082
Pb 220.353	14.6085	13.6520	7.1014
Sb 206.834	5.4671	10.6092	5.3776
Se 196.026	22.1708	5.6133	2.8719
Sn 189.925	-0.4724u	0.0442	0.9185
Sr 216.596	1228.91	1225.34	1234.08
Ti 334.941	-0.1436	-0.0190	0.0041
Tl 190.794	-2.1459u	-2.8678u	-7.9833u
V 292.401	4.7441	4.9384	6.0909
Zn 206.200	22.0370	21.3940	18.7817

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2378b	ppb	0.4589	192.9	-130.860
Al 308.215	93.4746b	ppb	6.5488	7.0	202.200
As 188.980	6.1152b	ppb	5.3334	87.2	-5.3427
B 249.678	380.819b	ppb	22.4740	5.9	6138.27
Ba 389.178	103.082b	ppb	1.2289	1.2	2782.10
Be 313.042	-0.0204b	ppb	0.0067	32.7	-449.005
Ca 370.602	157905b	ppb	24871	15.8	554339
Cd 226.502	0.4263b	ppb	0.1994	46.8	58.1124
Co 228.615	-0.9588b	ppb	0.5898	61.5	-10.7327
Cr 267.716	0.3211b	ppb	0.2147	66.8	27.9306
Cu 324.754	5.4412b	ppb	0.7311	13.4	579.386
Fe 271.441	11.0002b	ppb	5.9339	53.9	54.1207
K 766.491	4077.58b	ppb	20.3270	0.5	171190
Mg 279.078	31531.2b	ppb	480.230	1.5	83035.2
Mn 257.610	0.5725b	ppb	0.1931	33.7	261.464
Mo 202.032	2.5308b	ppb	0.3150	12.4	39.1351
Na 330.237	193782xb	ppb	14693.5	7.6	10899.1
Ni 231.604	4.7648b	ppb	0.6916	14.5	17.0806
Pb 220.353	11.7873b	ppb	4.0862	34.7	56.9715
Sb 206.834	7.1513b	ppb	2.9950	41.9	5.4261
Se 196.026	10.2187b	ppb	10.4412	102.2	17.6851
Sn 189.925	0.1634b	ppb	0.7031	430.2	-16.1966
Sr 216.596	1229.44b	ppb	4.3941	0.4	17962.6
Ti 334.941	-0.0528b	ppb	0.0794	150.3	98.9488
Tl 190.794	-4.3323b	ppb	3.1824	73.5	-24.6633
V 292.401	5.2578b	ppb	0.7280	13.8	157.104
Zn 206.200	20.7375b	ppb	1.7241	8.3	17.2581

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680-90034-f-1-e (Samp) **5/17/2013, 2:46:51 AM** **Rack 3, Tube 4**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.9446u	1.5317u	1.8924u
Al 308.215	50.4211	67.6452	100.709
As 188.980	5.7961	-2.6271u	-0.6924u
B 249.678	63.9100	73.5998	74.5840
Ba 389.178	126.352	124.688	123.567
Be 313.042	0.0269	0.0151	0.0077
Ca 370.602	42943	38046	37768
Cd 226.502	0.5045	0.5316	0.4249
Co 228.615	0.2034	0.3747	-0.2998u
Cr 267.716	0.0596	0.2732	0.4269
Cu 324.754	0.7804	-0.2744u	-0.6036u
Fe 271.441	49.7460	76.8819	67.9055
K 766.491	8609.44	8706.50	9096.21
Mg 279.078	28900.5	28847.7	29265.8
Mn 257.610	3.8999	3.9568	3.8239
Mo 202.032	26.9070	27.5691	27.5560
Na 330.237	121040x	121988x	111162x
Ni 231.604	4.3633	2.6093	1.4551
Pb 220.353	8.0190	15.7149	7.3679
Sb 206.834	3.5076	-6.6802u	1.7081
Se 196.026	12.5650	12.8787	4.0493
Sn 189.925	2.2183	-0.9891u	-3.6579u
Sr 216.596	9630.26x	9573.23x	9721.26x
Ti 334.941	-0.2141	-0.1682	-0.3809
Tl 190.794	-11.0059u	-12.6469u	-7.1684u
V 292.401	-0.0494u	-0.2392u	0.2914
Zn 206.200	8.4488	9.1416	7.7976

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.7896b	ppb	0.2249	12.6	-494.335
Al 308.215	72.9250b	ppb	25.5561	35.0	155.598
As 188.980	0.8255b	ppb	4.4120	534.4	-10.3765
B 249.678	70.6980b	ppb	5.8991	8.3	1258.21
Ba 389.178	124.869b	ppb	1.4014	1.1	3347.91
Be 313.042	0.0166b	ppb	0.0097	58.3	-416.185
Ca 370.602	39586b	ppb	2911	7.4	138972
Cd 226.502	0.4870b	ppb	0.0555	11.4	61.7560
Co 228.615	0.0928b	ppb	0.3506	377.9	4.3224
Cr 267.716	0.2532b	ppb	0.1845	72.8	22.4288
Cu 324.754	-0.0326b	ppb	0.7230	2221.1	295.445
Fe 271.441	64.8445b	ppb	13.8245	21.3	165.720
K 766.491	8804.05b	ppb	257.632	2.9	369299
Mg 279.078	29004.7b	ppb	227.692	0.8	76384.7
Mn 257.610	3.8935b	ppb	0.0667	1.7	491.531
Mo 202.032	27.3440b	ppb	0.3786	1.4	253.404
Na 330.237	118063xb	ppb	5995.60	5.1	6669.32
Ni 231.604	2.8092b	ppb	1.4644	52.1	10.0832
Pb 220.353	10.3672b	ppb	4.6426	44.8	53.6858
Sb 206.834	-0.4882b	ppb	5.4374	1113.8	-4.3079
Se 196.026	9.8310b	ppb	5.0095	51.0	17.4372
Sn 189.925	-0.8096b	ppb	2.9422	363.4	-17.4115
Sr 216.596	9641.58xb	ppb	74.6614	0.8	140558
Ti 334.941	-0.2544b	ppb	0.1119	44.0	23.9022
Tl 190.794	-10.2737b	ppb	2.8116	27.4	-31.2168
V 292.401	0.0010b	ppb	0.2689	27570.1	-17.9892
Zn 206.200	8.4627b	ppb	0.6721	7.9	23.3509

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680-90034-f-3-e (Samp) **5/17/2013, 2:52:17 AM** **Rack 3, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	3.7794u	3.8447u	3.9535u
Al 308.215	123.574	121.341	110.289
As 188.980	12.0846	6.7121	7.8010
B 249.678	67.2963	65.9820	67.3573
Ba 389.178	119.118	119.665	118.544
Be 313.042	-0.0225u	-0.0353u	-0.0274u
Ca 370.602	50063	49827	49559
Cd 226.502	0.0365	0.1829	0.6611
Co 228.615	-2.4381u	-0.3464u	-2.0774u
Cr 267.716	0.0104	-0.0398	0.0687
Cu 324.754	-1.2702u	-0.2810u	-0.2888u
Fe 271.441	135.163	140.267	127.903
K 766.491	10807.1	10638.2	10686.0
Mg 279.078	35879.5	35769.0	35453.8
Mn 257.610	34.3134	33.7525	33.4061
Mo 202.032	63.7420	64.0213	65.2857
Na 330.237	157933x	151232x	148246x
Ni 231.604	2.9628	1.8721	2.0686
Pb 220.353	8.3162	6.5112	2.4025
Sb 206.834	-1.4926u	6.6113	1.6795
Se 196.026	5.4885	24.0035	6.3027
Sn 189.925	-4.5156u	-0.3962u	-1.9098u
Sr 216.596	13947.0x	14022.6x	14287.5x
Ti 334.941	-0.3010	-0.4360	-0.4614
Tl 190.794	-17.0010u	-10.3366u	-11.2654u
V 292.401	0.3594u	0.3582u	-0.2421u
Zn 206.200	3.3648	2.1450	4.6077

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.8592b	ppb	0.0880	2.3	-579.145
Al 308.215	118.401b	ppb	7.1138	6.0	264.621
As 188.980	8.8659b	ppb	2.8401	32.0	-4.5724
B 249.678	66.8785b	ppb	0.7770	1.2	1198.00
Ba 389.178	119.109b	ppb	0.5606	0.5	3217.38
Be 313.042	-0.0284b	ppb	0.0065	22.7	-522.611
Ca 370.602	49816b	ppb	252.3	0.5	174879
Cd 226.502	0.2935b	ppb	0.3267	111.3	52.5298
Co 228.615	-1.6206b	ppb	1.1181	69.0	-24.2950
Cr 267.716	0.0131b	ppb	0.0543	414.0	9.0682
Cu 324.754	-0.6133b	ppb	0.5689	92.7	266.458
Fe 271.441	134.444b	ppb	6.2132	4.6	309.475
K 766.491	10710.4b	ppb	87.0229	0.8	449205
Mg 279.078	35700.8b	ppb	220.897	0.6	94010.4
Mn 257.610	33.8240b	ppb	0.4578	1.4	2644.84
Mo 202.032	64.3497b	ppb	0.8225	1.3	572.940
Na 330.237	152470xb	ppb	4960.78	3.3	8591.42
Ni 231.604	2.3012b	ppb	0.5813	25.3	8.2669
Pb 220.353	5.7433b	ppb	3.0307	52.8	43.0899
Sb 206.834	2.2661b	ppb	4.0837	180.2	-1.6730
Se 196.026	11.9315b	ppb	10.4625	87.7	18.7920
Sn 189.925	-2.2739b	ppb	2.0837	91.6	-19.0535
Sr 216.596	14085.7xb	ppb	178.816	1.3	205334
Ti 334.941	-0.3995b	ppb	0.0862	21.6	9.7721
Tl 190.794	-12.8677b	ppb	3.6096	28.1	-34.1223
V 292.401	0.1585b	ppb	0.3469	218.9	-22.8350
Zn 206.200	3.3725b	ppb	1.2313	36.5	134450

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680-90133-c-2-d (Samp) **5/17/2013, 2:57:44 AM** **Rack 3, Tube 6**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	4.9863u	5.8250u	5.9958u
Al 308.215	60.7729	75.4479	88.2510
As 188.980	7.8991	-0.0444	7.1992
B 249.678	73.5881	72.8836	72.6659
Ba 389.178	34.3501	35.0876	33.1425
Be 313.042	-0.0124u	0.0035	0.0045
Ca 370.602	48829	48636	48409
Cd 226.502	0.3489	0.4772	0.5708
Co 228.615	1.3416	-0.3262u	-0.5143u
Cr 267.716	0.0005	0.1829	0.1448
Cu 324.754	-2.3992u	0.0741	-1.3823u
Fe 271.441	7.9834	5.2236	-0.4021u
K 766.491	8195.51	7903.96	7891.00
Mg 279.078	45050.9	43913.9	43287.3
Mn 257.610	-0.9402	-0.7790	-0.6646
Mo 202.032	6.8654	6.3624	5.5814
Na 330.237	122874x	115687x	116914x
Ni 231.604	3.9289	2.8901	3.1854
Pb 220.353	11.0777	5.5081	4.3523
Sb 206.834	6.1627	-2.6279u	-3.2228u
Se 196.026	0.5171	11.5905	0.9671
Sn 189.925	-0.2089u	1.7220	5.7686
Sr 216.596	19708.1x	19606.9x	19404.1x
Ti 334.941	-0.5169	-0.4973	-0.5460
Tl 190.794	-10.8493u	-8.2690u	-10.0802u
V 292.401	0.0284u	-0.0438u	-0.4071u
Zn 206.200	5.8217	6.3698	5.3785

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.6024b	ppb	0.5403	9.6	-800.907
Al 308.215	74.8239b	ppb	13.7497	18.4	158.691
As 188.980	5.0180b	ppb	4.3981	87.6	-7.2864
B 249.678	73.0459b	ppb	0.4820	0.7	1295.25
Ba 389.178	34.1934b	ppb	0.9820	2.9	1008.77
Be 313.042	-0.0015b	ppb	0.0095	645.9	-447.511
Ca 370.602	48625b	ppb	210.1	0.4	170709
Cd 226.502	0.4656b	ppb	0.1114	23.9	60.7283
Co 228.615	0.1670b	ppb	1.0216	611.5	6.6186
Cr 267.716	0.1094b	ppb	0.0962	88.0	13.8947
Cu 324.754	-1.2358b	ppb	1.2431	100.6	232.088
Fe 271.441	4.2683b	ppb	4.2736	100.1	40.3531
K 766.491	7996.82b	ppb	172.188	2.2	335464
Mg 279.078	44084.0b	ppb	894.032	2.0	116078
Mn 257.610	-0.7946b	ppb	0.1385	17.4	196.968
Mo 202.032	6.2697b	ppb	0.6470	10.3	71.4337
Na 330.237	118492xb	ppb	3844.63	3.2	6693.32
Ni 231.604	3.3348b	ppb	0.5353	16.1	11.9625
Pb 220.353	6.9794b	ppb	3.5960	51.5	46.0194
Sb 206.834	0.1040b	ppb	5.2554	5053.4	-3.1781
Se 196.026	4.3582b	ppb	6.2674	143.8	13.9224
Sn 189.925	2.4273b	ppb	3.0505	125.7	-13.7272
Sr 216.596	19573.0xb	ppb	154.793	0.8	285320
Ti 334.941	-0.5201b	ppb	0.0245	4.7	20.6240
Tl 190.794	-9.7328b	ppb	1.3248	13.6	-30.6031
V 292.401	-0.1408b	ppb	0.2334	165.7	-16.5342
Zn 206.200	5.8567b	ppb	0.4966	8.5	182.663

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680-90133-d-3-d (Samp) **5/17/2013, 3:03:21 AM** **Rack 3, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.6140u	2.4602u	2.2033u
Al 308.215	80.0632	80.3303	81.7093
As 188.980	16.0292	8.6190	13.0174
B 249.678	59.9290	60.4373	58.8965
Ba 389.178	121.748	121.372	118.010
Be 313.042	-0.0061u	-0.0158u	0.0013u
Ca 370.602	36565	42762	43097
Cd 226.502	0.4600	0.5456	0.2425
Co 228.615	0.7925	-1.2463u	0.1099
Cr 267.716	0.0137	0.0523	-0.0348
Cu 324.754	-0.5147u	-0.2085u	0.0845
Fe 271.441	65.6825	75.8361	64.8745
K 766.491	9577.48	9739.38	9383.27
Mg 279.078	29695.5	29859.3	29008.2
Mn 257.610	3.5439	3.8375	3.5006
Mo 202.032	28.8526	29.9765	27.9910
Na 330.237	119303x	125130x	128030x
Ni 231.604	1.4930	3.7085	1.7048
Pb 220.353	8.3447	8.3784	8.0935
Sb 206.834	3.6236	-0.5459u	4.3834
Se 196.026	4.0545	11.3464	-8.2978u
Sn 189.925	-1.1974u	-0.7070u	2.0627
Sr 216.596	9671.85x	10206.5x	10074.7x
Ti 334.941	-0.3329	-0.2442	-0.3694
Tl 190.794	-9.3371u	-11.4918u	-8.0010u
V 292.401	-0.1179u	-0.3266u	-0.0891u
Zn 206.200	4.4427	3.2251	4.7748

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.4258b	ppb	0.2075	8.6	-456.260
Al 308.215	80.7009b	ppb	0.8834	1.1	173.930
As 188.980	12.5552b	ppb	3.7267	29.7	-2.0239
B 249.678	59.7543b	ppb	0.7851	1.3	1086.00
Ba 389.178	120.377b	ppb	2.0581	1.7	3231.27
Be 313.042	-0.0069b	ppb	0.0086	124.6	-468.053
Ca 370.602	40808b	ppb	3678	9.0	143263
Cd 226.502	0.4160b	ppb	0.1562	37.6	58.2820
Co 228.615	-0.1146b	ppb	1.0378	905.4	1.0206
Cr 267.716	0.0104b	ppb	0.0437	419.2	8.1937
Cu 324.754	-0.2129b	ppb	0.2997	140.8	286.106
Fe 271.441	68.7977b	ppb	6.1088	8.9	173.862
K 766.491	9566.71b	ppb	178.303	1.9	401265
Mg 279.078	29521.0b	ppb	451.607	1.5	77743.8
Mn 257.610	3.6273b	ppb	0.1833	5.1	473.847
Mo 202.032	28.9400b	ppb	0.9956	3.4	267.186
Na 330.237	124155xb	ppb	4444.44	3.6	7009.65
Ni 231.604	2.3021b	ppb	1.2226	53.1	8.2683
Pb 220.353	8.2722b	ppb	0.1557	1.9	48.9144
Sb 206.834	2.4870b	ppb	2.6539	106.7	-0.7325
Se 196.026	2.3677b	ppb	9.9301	419.4	12.6456
Sn 189.925	0.0527b	ppb	1.7578	3332.8	-16.4281
Sr 216.596	9984.36xb	ppb	278.542	2.8	145554
Ti 334.941	-0.3155b	ppb	0.0644	20.4	5.6351
Tl 190.794	-9.6099b	ppb	1.7613	18.3	-30.4878
V 292.401	-0.1779b	ppb	0.1296	72.8	-24.1122
Zn 206.200	4.1475b	ppb	0.8159	19.7	14.9453

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680-90189-c-1-d (Samp) **5/17/2013, 3:08:48 AM** **Rack 3, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	4.7638u	6.0331u	4.6619u
Al 308.215	95.5235	85.9783	79.9623
As 188.980	5.7862	-0.0320	11.5431
B 249.678	92.0394	92.5461	91.2879
Ba 389.178	30.0164	32.9607	30.3484
Be 313.042	0.0176	0.0120	-0.0147u
Ca 370.602	47394	47427	47541
Cd 226.502	0.3983	0.4897	0.5959
Co 228.615	-0.6575u	-1.2777u	0.0527
Cr 267.716	-0.2562u	0.0222	0.0787
Cu 324.754	-0.0676u	0.5403	0.0323
Fe 271.441	-6.7200u	6.3921	-0.9773u
K 766.491	12543.3	12639.4	12458.8
Mg 279.078	47624.6	48086.6	47378.9
Mn 257.610	-0.6663	-0.5475	-0.3741
Mo 202.032	6.8703	7.9894	6.4148
Na 330.237	191920x	189108x	208681x
Ni 231.604	4.1270	1.1265	3.1990
Pb 220.353	7.6635	5.9631	8.3879
Sb 206.834	4.8347	-2.7296u	-0.4031u
Se 196.026	3.3594	4.2076	9.5972
Sn 189.925	4.6899	-6.8413u	1.1880
Sr 216.596	17061.0x	16989.7x	16922.3x
Ti 334.941	-0.6067	-0.5611	-0.4640
Tl 190.794	-7.3045u	-8.9583u	-5.2477u
V 292.401	0.0304u	-0.6400u	-0.1082u
Zn 206.200	4.6859	3.7725	1.6689

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.1529b	ppb	0.7639	14.8	-698.018
Al 308.215	87.1547b	ppb	7.8470	9.0	187.701
As 188.980	5.7658b	ppb	5.7876	100.4	-6.7608
B 249.678	91.9578b	ppb	0.6330	0.7	1592.86
Ba 389.178	31.1085b	ppb	1.6126	5.2	940.141
Be 313.042	0.0050b	ppb	0.0173	346.8	-444.131
Ca 370.602	47454b	ppb	77.34	0.2	166599
Cd 226.502	0.4946b	ppb	0.0989	20.0	61.6598
Co 228.615	-0.6275b	ppb	0.6657	106.1	-5.8145
Cr 267.716	-0.0518b	ppb	0.1793	346.4	5.9611
Cu 324.754	0.1683b	ppb	0.3260	193.7	305.195
Fe 271.441	-0.4351b	ppb	6.5728	1510.8	30.4799
K 766.491	12547.2b	ppb	90.3764	0.7	526190
Mg 279.078	47696.7b	ppb	359.311	0.8	125588
Mn 257.610	-0.5293b	ppb	0.1469	27.8	226.405
Mo 202.032	7.0915b	ppb	0.8102	11.4	78.5299
Na 330.237	196570xb	ppb	10582.7	5.4	11055.0
Ni 231.604	2.8175b	ppb	1.5362	54.5	10.1109
Pb 220.353	7.3382b	ppb	1.2447	17.0	46.8340
Sb 206.834	0.5673b	ppb	3.8744	682.9	-2.6399
Se 196.026	5.7214b	ppb	3.3832	59.1	14.7976
Sn 189.925	-0.3211b	ppb	5.9119	1841.0	-16.8152
Sr 216.596	16991.0xb	ppb	69.3935	0.4	247684
Ti 334.941	-0.5439b	ppb	0.0729	13.4	28.6626
Tl 190.794	-7.1702b	ppb	1.8589	25.9	-27.7868
V 292.401	-0.2392b	ppb	0.3539	147.9	-20.6008
Zn 206.200	3.3758b	ppb	1.5472	45.8	1344329

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680-90189-e-2-d (Samp) **5/17/2013, 3:14:14 AM** **Rack 3, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.9673u	2.6230u	2.6362u
Al 308.215	85.2645	87.1883	88.9323
As 188.980	11.1103	6.1528	-1.0086u
B 249.678	67.8615	66.3733	70.4248
Ba 389.178	47.3329	50.6943	51.8687
Be 313.042	0.0285	0.0341	0.0206
Ca 370.602	26613	27992	30459
Cd 226.502	0.5037	0.4709	0.2033
Co 228.615	0.2538	1.0670	-1.6385u
Cr 267.716	0.4080	0.0712	0.3957
Cu 324.754	-0.1267u	-0.8605u	-0.2005u
Fe 271.441	104.110	113.212	120.262
K 766.491	9670.80	9802.06	10173.2
Mg 279.078	29111.7	29602.0	30393.8
Mn 257.610	44.6339	45.2718	46.6038
Mo 202.032	20.1215	20.0738	21.9406
Na 330.237	121641x	127138x	138103x
Ni 231.604	4.2014	1.1776	3.1474
Pb 220.353	8.1269	5.0973	15.0257
Sb 206.834	-0.5072u	7.1159	6.9239
Se 196.026	6.1864	-6.1767u	-9.4526u
Sn 189.925	-1.7706u	2.3835	-0.0529
Sr 216.596	9977.68x	10305.1x	11319.1x
Ti 334.941	-0.3259	-0.3299	-0.3454
Tl 190.794	-6.8058u	-9.4300u	-6.9702u
V 292.401	0.5511	-0.3567u	-0.4488u
Zn 206.200	7.9985	4.4307	4.8477

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.7422b	ppb	0.1951	7.1	-503.084
Al 308.215	87.1284b	ppb	1.8347	2.1	188.553
As 188.980	5.4182b	ppb	6.0928	112.5	-7.2198
B 249.678	68.2199b	ppb	2.0494	3.0	1219.13
Ba 389.178	49.9653b	ppb	2.3541	4.7	1380.92
Be 313.042	0.0277b	ppb	0.0068	24.4	-396.627
Ca 370.602	28355b	ppb	1948	6.9	99541
Cd 226.502	0.3926b	ppb	0.1648	42.0	57.3472
Co 228.615	-0.1059b	ppb	1.3882	1310.8	1.5387
Cr 267.716	0.2916b	ppb	0.1910	65.5	25.0352
Cu 324.754	-0.3959b	ppb	0.4040	102.1	276.353
Fe 271.441	112.528b	ppb	8.0980	7.2	264.348
K 766.491	9882.03b	ppb	260.587	2.6	414482
Mg 279.078	29702.5b	ppb	646.935	2.2	78221.3
Mn 257.610	45.5032b	ppb	1.0051	2.2	3464.04
Mo 202.032	20.7120b	ppb	1.0643	5.1	196.134
Na 330.237	128961xb	ppb	8380.92	6.5	7278.10
Ni 231.604	2.8421b	ppb	1.5348	54.0	10.2024
Pb 220.353	9.4166b	ppb	5.0883	54.0	51.5405
Sb 206.834	4.5108b	ppb	4.3468	96.4	1.8656
Se 196.026	-3.1476b	ppb	8.2478	262.0	9.1115
Sn 189.925	0.1867b	ppb	2.0874	1118.2	-16.2814
Sr 216.596	10534.0xb	ppb	699.393	6.6	153563
Ti 334.941	-0.3337b	ppb	0.0103	3.1	3.6629
Tl 190.794	-7.7354b	ppb	1.4699	19.0	-28.4578
V 292.401	-0.0848b	ppb	0.5527	651.7	-19.2119
Zn 206.200	5.7589b	ppb	1.9507	33.8	18.0906

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680-90208-c-1-d (Samp) 5/17/2013, 3:19:40 AM Rack 3, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4116u	-0.5352u	-0.3941u
Al 308.215	107.887	73.9677	71.8600
As 188.980	5.4268	1.6372	7.6558
B 249.678	11.7215	8.6775	9.9472
Ba 389.178	6.5227	5.4309	5.0078
Be 313.042	0.0490	0.0723	0.0442
Ca 370.602	18167	13604	16184
Cd 226.502	0.4735	-0.0666u	0.4365
Co 228.615	0.3887	0.4539	-0.9932u
Cr 267.716	0.2660	0.6489	0.2009
Cu 324.754	1.2875	-1.9609u	-0.6122u
Fe 271.441	7.2478	7.9296	1.6642
K 766.491	3313.74	2830.85	3147.64
Mg 279.078	2485.35	2081.67	2661.48
Mn 257.610	156.805	128.592	149.116
Mo 202.032	3.0488	0.9919	2.4844
Na 330.237	26696.9	22096.5	29142.7
Ni 231.604	3.3933	5.7137	5.9313
Pb 220.353	14.3334	2.7564	0.6384
Sb 206.834	6.5651	2.8667	2.6703
Se 196.026	-13.2572u	-8.1923u	-14.1171u
Sn 189.925	5.0592	5.2866	2.3300
Sr 216.596	98.7692	81.4802	96.5178
Ti 334.941	0.0768	0.0045	0.0061
Tl 190.794	-12.6001u	-3.0873u	-10.2362u
V 292.401	-0.2039u	-0.0059u	-0.7967u
Zn 206.200	26.6023	22.4580	23.0632

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4470	ppb	0.0769	17.2	-76.1724
Al 308.215	84.5715	ppb	20.2191	23.9	181.322
As 188.980	4.9066	ppb	3.0428	62.0	-7.7157
B 249.678	10.1154	ppb	1.5290	15.1	304.982
Ba 389.178	5.6538	ppb	0.7817	13.8	127.869
Be 313.042	0.0552	ppb	0.0151	27.3	-323.872
Ca 370.602	15985	ppb	2288	14.3	56129
Cd 226.502	0.2811	ppb	0.3017	107.3	51.6578
Co 228.615	-0.0502	ppb	0.8173	1629.1	3.4304
Cr 267.716	0.3719	ppb	0.2421	65.1	27.8905
Cu 324.754	-0.4285	ppb	1.6320	380.8	273.966
Fe 271.441	5.6139	ppb	3.4374	61.2	43.0983
K 766.491	3097.41	ppb	245.337	7.9	130106
Mg 279.078	2409.50	ppb	297.254	12.3	6377.04
Mn 257.610	144.838	ppb	14.5850	10.1	10478.7
Mo 202.032	2.1750	ppb	1.0628	48.9	36.0767
Na 330.237	25978.7	ppb	3577.57	13.8	1525.13
Ni 231.604	5.0127	ppb	1.4067	28.1	17.9678
Pb 220.353	5.9094	ppb	7.3719	124.7	43.6118
Sb 206.834	4.0341	ppb	2.1941	54.4	1.6624
Se 196.026	-11.8555	ppb	3.2014	27.0	3.5343
Sn 189.925	4.2253	ppb	1.6453	38.9	-11.7469
Sr 216.596	92.2558	ppb	9.3995	10.2	1365.68
Ti 334.941	0.0291	ppb	0.0413	141.8	-23.5935
Tl 190.794	-8.6412	ppb	4.9529	57.3	-29.5078
V 292.401	-0.3355	ppb	0.4115	122.7	-21.5765
Zn 206.200	24.0412	ppb	2.2386	9.3	53.6928

480-38002-b-10-d (Samp) 5/17/2013, 3:25:07 AM Rack 3, Tube 11
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0254u	-0.4604u	-2.0052u
Al 308.215	108.581	116.618	105.778
As 188.980	2.2511	-0.2335	4.4014
B 249.678	25.7612	25.9011	24.9049
Ba 389.178	505.270	514.501	512.155
Be 313.042	0.0272	0.0089	0.0314
Ca 370.602	34420	34191	32975
Cd 226.502	0.2929	0.3241	-0.0348u
Co 228.615	-1.6843u	1.8744	-0.7989u
Cr 267.716	0.5910	0.1950	0.1985
Cu 324.754	40.4390	43.3037	31.6867
Fe 271.441	257.144	265.140	251.771
K 766.491	1280.10	1303.89	1284.92
Mg 279.078	12976.9	13203.7	13042.6
Mn 257.610	66.9206	67.6491	66.6843
Mo 202.032	4.3709	2.8006	3.9050
Na 330.237	7763.15	7339.39	7556.48
Ni 231.604	3.1057	0.2422	3.4422
Pb 220.353	11.5970	13.7407	15.1934
Sb 206.834	7.8527	0.3083	-4.9088u
Se 196.026	13.0397	5.2405	0.9844
Sn 189.925	0.5351	-2.8574u	-2.8388u
Sr 216.596	505.513	514.609	511.673
Ti 334.941	-0.0126	0.0031	-0.1171
Tl 190.794	-7.4155u	0.6221	-1.5948u
V 292.401	0.2201	-0.8254u	0.6581
Zn 206.200	30.7883	27.5488	30.7464

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1636	ppb	0.7816	67.2	-167.705
Al 308.215	110.326	ppb	5.6264	5.1	241.843
As 188.980	2.1397	ppb	2.3195	108.4	-9.4922
B 249.678	25.5224	ppb	0.5394	2.1	546.992
Ba 389.178	510.642	ppb	4.7980	0.9	13450.2
Be 313.042	0.0225	ppb	0.0120	53.2	-385.868
Ca 370.602	33862	ppb	776.8	2.3	118861
Cd 226.502	0.1941	ppb	0.1988	102.4	48.8558
Co 228.615	-0.2029	ppb	1.8527	912.9	0.9779
Cr 267.716	0.3282	ppb	0.2276	69.4	24.8277
Cu 324.754	38.4765	ppb	6.0520	15.7	2298.73
Fe 271.441	258.018	ppb	6.7275	2.6	565.383
K 766.491	1289.64	ppb	12.5729	1.0	54334.1
Mg 279.078	13074.4	ppb	116.686	0.9	34450.9
Mn 257.610	67.0847	ppb	0.5029	0.7	4959.19
Mo 202.032	3.6922	ppb	0.8065	21.8	49.1603
Na 330.237	7553.01	ppb	211.903	2.8	495.681
Ni 231.604	2.2633	ppb	1.7584	77.7	8.1353
Pb 220.353	13.5104	ppb	1.8092	13.4	60.9016
Sb 206.834	1.0841	ppb	6.4160	591.8	-1.9302
Se 196.026	6.4215	ppb	6.1138	95.2	15.2601
Sn 189.925	-1.7204	ppb	1.9533	113.5	-18.5002
Sr 216.596	510.598	ppb	4.6425	0.9	7466.20
Ti 334.941	-0.0422	ppb	0.0654	154.8	14.9587
Tl 190.794	-2.7961	ppb	4.1513	148.5	-23.0464
V 292.401	0.0176	ppb	0.7622	4328.2	-10.2391
Zn 206.200	29.6945	ppb	1.8583	6.3	64.7436

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480-38002-b-11-d (Samp) 5/17/2013, 3:30:33 AM Rack 3, Tube 12**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0244u	-1.1285u	0.3966u
Al 308.215	69.1920	98.4960	84.9997
As 188.980	6.5835	7.3768	4.5009
B 249.678	133.787	133.554	135.185
Ba 389.178	710.322	709.044	707.397
Be 313.042	0.0041	-0.0098u	-0.0069u
Ca 370.602	31941	30955	31090
Cd 226.502	0.2536	0.7264	0.5407
Co 228.615	-0.5775u	0.1261	0.1198
Cr 267.716	0.1567	-0.2961u	0.0910
Cu 324.754	-0.0316u	-2.0113u	-0.3999u
Fe 271.441	176.333	178.030	176.501
K 766.491	3628.52	3674.14	3651.90
Mg 279.078	10937.1	10917.4	10912.0
Mn 257.610	153.823	155.192	155.589
Mo 202.032	8.0705	8.6170	8.9943
Na 330.237	32335.3	32754.1	33238.6
Ni 231.604	3.5448	3.8318	1.9983
Pb 220.353	4.9615	9.5322	6.2465
Sb 206.834	3.7685	-0.3529u	9.2373
Se 196.026	-0.5466u	-2.7740u	-2.6390u
Sn 189.925	-3.5634u	4.3764	-1.0086u
Sr 216.596	737.095	738.006	737.285
Ti 334.941	-0.0151	0.0402	-0.0393
Tl 190.794	-1.4180u	-8.1776u	-10.1798u
V 292.401	0.1216	0.1879	-0.1883u
Zn 206.200	8468.47	8494.11	8492.48

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2521	ppb	0.7877	312.5	-99.8290
Al 308.215	84.2292	ppb	14.6672	17.4	180.910
As 188.980	6.1537	ppb	1.4853	24.1	-6.6731
B 249.678	134.175	ppb	0.8819	0.7	2256.87
Ba 389.178	708.921	ppb	1.4666	0.2	18660.6
Be 313.042	-0.0042	ppb	0.0073	173.6	-449.166
Ca 370.602	31329	ppb	534.6	1.7	109977
Cd 226.502	0.5069	ppb	0.2382	47.0	63.4956
Co 228.615	-0.1105	ppb	0.4044	365.9	2.1577
Cr 267.716	-0.0162	ppb	0.2447	1514.1	5.0225
Cu 324.754	-0.8142	ppb	1.0529	129.3	254.156
Fe 271.441	176.955	ppb	0.9351	0.5	397.641
K 766.491	3651.52	ppb	22.8083	0.6	153332
Mg 279.078	10922.2	ppb	13.2182	0.1	28784.6
Mn 257.610	154.868	ppb	0.9262	0.6	11217.0
Mo 202.032	8.5606	ppb	0.4645	5.4	91.2039
Na 330.237	32776.0	ppb	452.043	1.4	1835.43
Ni 231.604	3.1249	ppb	0.9862	31.6	11.2275
Pb 220.353	6.9134	ppb	2.3572	34.1	45.8904
Sb 206.834	4.2176	ppb	4.8108	114.1	1.7619
Se 196.026	-1.9865	ppb	1.2489	62.9	9.8784
Sn 189.925	-0.0652	ppb	4.0531	6215.0	-16.6102
Sr 216.596	737.462	ppb	0.4802	0.1	10772.1
Ti 334.941	-0.0048	ppb	0.0408	857.7	12.5345
Tl 190.794	-6.5918	ppb	4.5911	69.6	-27.3026
V 292.401	0.0404	ppb	0.2008	496.9	-11.0626
Zn 206.200	8485.02	ppb	14.3553	0.2	16537.8

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480-38002-b-11-d (Samp) 5/17/2013, 3:46:52 AM Rack 3, Tube 15**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.0358u	-0.6204u	-0.7396u
Al 308.215	97.2491	77.7204	84.1821
As 188.980	5.8214	9.6289	2.8560
B 249.678	33.0984	31.9497	31.7003
Ba 389.178	151.408	151.869	147.689
Be 313.042	0.0030	0.0208	0.0221
Ca 370.602	7400	7336	7302
Cd 226.502	0.3797	0.3952	0.5315
Co 228.615	2.7709	-0.8283u	0.5581
Cr 267.716	-0.2455u	0.1832	-0.1789u
Cu 324.754	0.3367	-0.7425u	-0.1846u
Fe 271.441	31.8711	33.1224	49.2005
K 766.491	719.949	717.657	706.893
Mg 279.078	2294.49	2563.11	2263.05
Mn 257.610	35.9556	37.4658	37.2835
Mo 202.032	3.5205	3.6201	3.4204
Na 330.237	7456.62	7251.07	7253.76
Ni 231.604	3.0226	2.8961	2.9464
Pb 220.353	5.6899	9.3505	9.9430
Sb 206.834	5.2995	2.2930	0.4735
Se 196.026	24.0069	15.5093	8.4069
Sn 189.925	-6.2131u	0.1356	0.2261
Sr 216.596	158.493	157.214	155.939
Ti 334.941	-0.0241	0.0084	-0.0718u
Tl 190.794	-3.9046u	-4.6300u	-9.9616u
V 292.401	0.3447	0.5124	0.1065
Zn 206.200	1819.92	1801.84	1782.73

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7986	ppb	0.2139	26.8	-111.569
Al 308.215	86.3839	ppb	9.9488	11.5	185.656
As 188.980	6.1021	ppb	3.3952	55.6	-6.9680
B 249.678	32.2495	ppb	0.7457	2.3	653.217
Ba 389.178	150.322	ppb	2.2916	1.5	3934.54
Be 313.042	0.0153	ppb	0.0107	70.0	-412.909
Ca 370.602	7346	ppb	49.53	0.7	25797
Cd 226.502	0.4355	ppb	0.0835	19.2	59.4310
Co 228.615	0.8336	ppb	1.8153	217.8	17.1287
Cr 267.716	-0.0804	ppb	0.2307	287.0	0.4452
Cu 324.754	-0.1968	ppb	0.5397	274.3	286.077
Fe 271.441	38.0647	ppb	9.6641	25.4	110.413
K 766.491	714.833	ppb	6.9710	1.0	30241.3
Mg 279.078	2373.55	ppb	164.914	6.9	6283.37
Mn 257.610	36.9016	ppb	0.8244	2.2	2776.59
Mo 202.032	3.5203	ppb	0.0998	2.8	47.6901
Na 330.237	7320.48	ppb	117.907	1.6	468.199
Ni 231.604	2.9550	ppb	0.0637	2.2	10.6065
Pb 220.353	8.3278	ppb	2.3036	27.7	49.0997
Sb 206.834	2.6887	ppb	2.4372	90.6	-0.0009
Se 196.026	15.9743	ppb	7.8104	48.9	21.3865
Sn 189.925	-1.9505	ppb	3.6918	189.3	-18.7790
Sr 216.596	157.215	ppb	1.2770	0.8	2311.03
Ti 334.941	-0.0292	ppb	0.0404	138.3	-42.0233
Tl 190.794	-6.1654	ppb	3.3075	53.6	-26.7119
V 292.401	0.3212	ppb	0.2040	63.5	-0.6363
Zn 206.200	1801.50	ppb	18.5978	1.0	3516.62

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480-38002-b-11-d (Samp) 5/17/2013, 3:52:18 AM Rack 3, Tube 16**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.5239	53.7549	53.4569
Al 308.215	1442.89	1456.74	1408.66
As 188.980	2798.76	3042.22	2905.34
B 249.678	1189.65	1224.40	1171.68
Ba 389.178	2781.09	2869.96	2833.73
Be 313.042	47.0045	48.2322	46.0274
Ca 370.602	33363	36757	38561
Cd 226.502	76.2701	78.3686	74.1360
Co 228.615	487.071	551.114	612.859
Cr 267.716	230.447	237.094	226.499
Cu 324.754	160.218	175.060	170.279
Fe 271.441	1285.88	1299.67	1210.60
K 766.491	13249.0	13553.4	13217.4
Mg 279.078	16612.6	17217.1	17027.7
Mn 257.610	1254.99	1303.75	1219.73
Mo 202.032	538.170	552.740	525.407
Na 330.237	42836.5	43243.8	43241.9
Ni 231.604	691.916	681.152	640.703
Pb 220.353	765.616	794.512	754.352
Sb 206.834	530.354	542.020	514.577
Se 196.026	3066.14	3139.87	2999.55
Sn 189.925	1544.35	1482.65	1413.13
Sr 216.596	1392.33	1433.79	1370.85
Ti 334.941	900.859	927.925	891.729
Tl 190.794	3382.11	3435.35	3294.12
V 292.401	536.796	552.217	525.022
Zn 206.200	9539.12	9740.09	9336.78

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.9119	ppb	1.2112	2.3	4583.67
Al 308.215	1436.09	ppb	24.7461	1.7	3384.77
As 188.980	2915.44	ppb	122.044	4.2	2062.44
B 249.678	1195.24	ppb	26.8038	2.2	18951.7
Ba 389.178	2828.26	ppb	44.6901	1.6	74456.6
Be 313.042	47.0880	ppb	1.1048	2.3	102082
Ca 370.602	36227	ppb	2639	7.3	127277
Cd 226.502	76.2582	ppb	2.1163	2.8	3750.98
Co 228.615	550.348	ppb	62.8972	11.4	8583.18
Cr 267.716	231.347	ppb	5.3544	2.3	13698.2
Cu 324.754	168.519	ppb	7.5761	4.5	9079.62
Fe 271.441	1265.38	ppb	47.9458	3.8	2758.50
K 766.491	13340.0	ppb	185.553	1.4	559420
Mg 279.078	16952.5	ppb	309.226	1.8	44646.9
Mn 257.610	1259.49	ppb	42.1869	3.3	90056.8
Mo 202.032	538.772	ppb	13.6763	2.5	4668.23
Na 330.237	43107.4	ppb	234.614	0.5	2395.35
Ni 231.604	671.257	ppb	27.0025	4.0	2402.53
Pb 220.353	771.493	ppb	20.7155	2.7	1784.34
Sb 206.834	528.984	ppb	13.7728	2.6	630.283
Se 196.026	3068.52	ppb	70.1903	2.3	1981.36
Sn 189.925	1480.04	ppb	65.6522	4.4	1665.28
Sr 216.596	1398.99	ppb	31.9949	2.3	20368.5
Ti 334.941	906.838	ppb	18.8241	2.1	304494
Tl 190.794	3370.53	ppb	71.3241	2.1	3684.53
V 292.401	538.012	ppb	13.6381	2.5	17135.6
Zn 206.200	9538.66	ppb	201.657	2.1	18589.8

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mb 680-276878/1-a (Samp) 5/17/2013, 3:57:44 AM Rack 3, Tube 17

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8711u	0.5704	-0.9587u
Al 308.215	120.815	109.577	105.761
As 188.980	0.2635	10.1275	-2.3644u
B 249.678	36.0016	30.5866	26.6576
Ba 389.178	6.2697	6.5822	8.3813
Be 313.042	-0.0008u	0.0094	0.0048
Ca 370.602	-25.74u	-31.66u	-24.98u
Cd 226.502	0.7743	1.1716	0.5551
Co 228.615	-0.9639u	0.7624	0.2393
Cr 267.716	-0.3939u	0.2182	0.2452
Cu 324.754	2.0597	1.0413	0.0159
Fe 271.441	-0.1826u	9.9735	1.5610
K 766.491	18.5580	15.6532	14.5826
Mg 279.078	45.6419	39.9007	36.4838
Mn 257.610	1.8229	1.5468	1.3148
Mo 202.032	4.6779	6.1756	4.3659
Na 330.237	126.836	418.411	163.372
Ni 231.604	3.3867	3.1340	2.6182
Pb 220.353	15.4582	18.9186	8.7669
Sb 206.834	-12.9070u	-3.9632u	0.3740
Se 196.026	21.8122	-9.0627u	3.2490
Sn 189.925	1.2139	-5.7149u	-0.3856u
Sr 216.596	4.8923	4.7823	3.1443
Ti 334.941	0.2832	0.3056	0.1941
Tl 190.794	-15.5340u	-12.6581u	-13.7178u
V 292.401	1.0858	0.1828	0.4244
Zn 206.200	30.4660	26.8478	26.9006

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4198	ppb	0.8587	204.5	-67.8872
Al 308.215	112.051	ppb	7.8261	7.0	245.963
As 188.980	2.6755	ppb	6.5860	246.2	-9.4875
B 249.678	31.0819	ppb	4.6917	15.1	634.885
Ba 389.178	7.0778	ppb	1.1397	16.1	157.800
Be 313.042	0.0045	ppb	0.0051	114.2	-439.069
Ca 370.602	-27.46	ppb	3.653	13.3	-85.72
Cd 226.502	0.8337	ppb	0.3125	37.5	78.6829
Co 228.615	0.0126	ppb	0.8852	7034.1	4.2866
Cr 267.716	0.0231	ppb	0.3614	1561.4	6.3537
Cu 324.754	1.0390	ppb	1.0219	98.4	350.411
Fe 271.441	3.7840	ppb	5.4307	143.5	39.3449
K 766.491	16.2646	ppb	2.0570	12.6	961.021
Mg 279.078	40.6755	ppb	4.6280	11.4	142.928
Mn 257.610	1.5615	ppb	0.2544	16.3	248.596
Mo 202.032	5.0731	ppb	0.9674	19.1	61.0994
Na 330.237	236.206	ppb	158.848	67.2	87.0433
Ni 231.604	3.0463	ppb	0.3917	12.9	10.9301
Pb 220.353	14.3812	ppb	5.1608	35.9	62.8710
Sb 206.834	-5.4987	ppb	6.7724	123.2	-9.9365
Se 196.026	5.3329	ppb	15.5426	291.4	14.5482
Sn 189.925	-1.6288	ppb	3.6278	222.7	-18.4216
Sr 216.596	4.2730	ppb	0.9790	22.9	80.5164
Ti 334.941	0.2610	ppb	0.0589	22.6	42.6713
Tl 190.794	-13.9700	ppb	1.4544	10.4	-35.2600
V 292.401	0.5643	ppb	0.4674	82.8	6.9109
Zn 206.200	28.0715	ppb	2.0739	7.4	61.5473

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ics 680-276878/2-a (Samp) 5/17/2013, 4:03:11 AM Rack 3, Tube 18
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	48.8460	47.3391	46.4133
Al 308.215	3092.26	3024.75	3050.95
As 188.980	138.666	118.798	134.478
B 249.678	203.382	203.267	203.924
Ba 389.178	108.394	109.507	110.853
Be 313.042	45.2092	44.7856	45.0305
Ca 370.602	4800	4743	4748
Cd 226.502	72.8964	72.7023	73.2476
Co 228.615	74.0045	62.1725	62.6298
Cr 267.716	109.395	107.874	108.720
Cu 324.754	72.3446	72.2715	69.1418
Fe 271.441	5025.60	4957.42	5008.58
K 766.491	7822.77	7597.77	7545.36
Mg 279.078	6098.34	6000.47	6024.51
Mn 257.610	1151.14	1137.46	1152.08
Mo 202.032	94.7959	94.9524	95.1229
Na 330.237	6627.60	7108.68	6862.81
Ni 231.604	119.593	126.677	124.982
Pb 220.353	85.0081	76.3880	77.5973
Sb 206.834	51.7566	59.9477	49.7018
Se 196.026	124.509	145.238	151.703
Sn 189.925	282.496	283.061	281.673
Sr 216.596	123.252	122.803	123.324
Ti 334.941	82.8233	81.7751	81.8199
Tl 190.794	56.8635	52.2509	57.0217
V 292.401	111.231	111.296	111.034
Zn 206.200	189.249	186.042	189.217

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.5328	ppb	1.2279	2.6	4187.63
Al 308.215	3055.99	ppb	34.0331	1.1	7160.75
As 188.980	130.647	ppb	10.4733	8.0	81.5743
B 249.678	203.525	ppb	0.3507	0.2	3339.72
Ba 389.178	109.585	ppb	1.2313	1.1	2884.39
Be 313.042	45.0084	ppb	0.2126	0.5	97655.6
Ca 370.602	4763	ppb	31.59	0.7	16269
Cd 226.502	72.9488	ppb	0.2764	0.4	3607.22
Co 228.615	66.2689	ppb	6.7031	10.1	1034.51
Cr 267.716	108.663	ppb	0.7621	0.7	6439.52
Cu 324.754	71.2526	ppb	1.8284	2.6	4008.21
Fe 271.441	4997.20	ppb	35.4853	0.7	10385.9
K 766.491	7655.30	ppb	147.381	1.9	321149
Mg 279.078	6041.11	ppb	51.0007	0.8	15927.1
Mn 257.610	1146.89	ppb	8.1811	0.7	81996.6
Mo 202.032	94.9571	ppb	0.1636	0.2	836.656
Na 330.237	6866.36	ppb	240.561	3.5	453.572
Ni 231.604	123.751	ppb	3.6988	3.0	443.095
Pb 220.353	79.6645	ppb	4.6671	5.9	211.446
Sb 206.834	53.8020	ppb	5.4206	10.1	62.0197
Se 196.026	140.483	ppb	14.2071	10.1	101.519
Sn 189.925	282.410	ppb	0.6978	0.2	304.345
Sr 216.596	123.126	ppb	0.2823	0.2	1808.25
Ti 334.941	82.1394	ppb	0.5927	0.7	27566.6
Tl 190.794	55.3787	ppb	2.7099	4.9	39.8993
V 292.401	111.187	ppb	0.1366	0.1	3530.50
Zn 206.200	188.169	ppb	1.8425	1.0	372.790

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680-90218-c-2-a (Samp) 5/17/2013, 4:08:37 AM Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2000	-0.4943u	-0.2806u
Al 308.215	77.1458	78.9452	111.501
As 188.980	0.3368	0.6612	10.2871
B 249.678	43.6387	44.3504	42.6191
Ba 389.178	23.4424	24.7927	26.6930
Be 313.042	0.0989	0.1011	0.1037
Ca 370.602	5430	5451	5405
Cd 226.502	0.6326	0.8610	0.6035
Co 228.615	-0.8931u	-0.6899u	-0.3326u
Cr 267.716	0.7779	0.4918	1.0703
Cu 324.754	1.2710	-0.8434u	0.9574
Fe 271.441	25.5560	18.6627	22.5357
K 766.491	2108.45	2149.19	2144.60
Mg 279.078	924.176	926.791	918.801
Mn 257.610	5.4294	5.4886	5.4308
Mo 202.032	3.4323	4.1309	3.1252
Na 330.237	13680.1	12157.2	10942.4
Ni 231.604	2.0884	1.6128	1.7762
Pb 220.353	7.2071	10.4594	6.8903
Sb 206.834	0.3230	0.1959	-0.4193u
Se 196.026	-6.9475u	-7.5650u	-3.9901u
Sn 189.925	2.2384	-0.3126u	1.7773
Sr 216.596	38.3843	38.1544	37.4805
Ti 334.941	0.2770	0.1854	0.2820
Tl 190.794	-10.1620u	-12.8548u	-14.6674u
V 292.401	0.2724	0.2908	0.1076
Zn 206.200	3.8967	7.8888	4.7401

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1916	ppb	0.3556	185.6	-50.0116
Al 308.215	89.1973	ppb	19.3363	21.7	192.231
As 188.980	3.7617	ppb	5.6535	150.3	-8.6521
B 249.678	43.5361	ppb	0.8702	2.0	830.856
Ba 389.178	24.9760	ppb	1.6330	6.5	631.585
Be 313.042	0.1012	ppb	0.0024	2.4	-226.857
Ca 370.602	5429	ppb	23.10	0.4	19069
Cd 226.502	0.6990	ppb	0.1410	20.2	72.1007
Co 228.615	-0.6386	ppb	0.2838	44.4	-5.7759
Cr 267.716	0.7800	ppb	0.2893	37.1	51.4130
Cu 324.754	0.4617	ppb	1.1411	247.2	320.322
Fe 271.441	22.2514	ppb	3.4554	15.5	77.4188
K 766.491	2134.08	ppb	22.3122	1.0	89728.6
Mg 279.078	923.256	ppb	4.0735	0.4	2466.10
Mn 257.610	5.4496	ppb	0.0338	0.6	528.423
Mo 202.032	3.5628	ppb	0.5154	14.5	48.0580
Na 330.237	12259.9	ppb	1371.73	11.2	758.902
Ni 231.604	1.8258	ppb	0.2416	13.2	6.5619
Pb 220.353	8.1856	ppb	1.9755	24.1	48.7727
Sb 206.834	0.0332	ppb	0.3970	1195.2	-3.1956
Se 196.026	-6.1675	ppb	1.9108	31.0	7.1656
Sn 189.925	1.2344	ppb	1.3594	110.1	-15.1591
Sr 216.596	38.0064	ppb	0.4698	1.2	573.208
Ti 334.941	0.2481	ppb	0.0544	21.9	42.4559
Tl 190.794	-12.5614	ppb	2.2670	18.0	-33.7153
V 292.401	0.2236	ppb	0.1009	45.1	-3.7707
Zn 206.200	5.5085	ppb	2.1041	38.2	17.5871

680-90218-c-2-a (Samp) **5/17/2013, 4:14:03 AM** **Rack 3, Tube 20**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5873u	-0.2818u	-1.1349u
Al 308.215	59.6911	66.1483	55.8278
As 188.980	-1.3064u	-9.5116u	6.5351
B 249.678	10.3098	8.5424	11.0874
Ba 389.178	8.4174	8.1338	9.3449
Be 313.042	0.0302	0.0182	0.0407
Ca 370.602	1131	1107	1118
Cd 226.502	0.5622	0.2022	0.0904
Co 228.615	1.0531	-0.1905u	0.2627
Cr 267.716	0.4920	0.2720	0.5219
Cu 324.754	-0.7519u	-0.2530u	0.7640
Fe 271.441	-0.1187u	7.3470	-2.3860u
K 766.491	429.972	434.134	434.826
Mg 279.078	215.304	242.631	226.212
Mn 257.610	1.5925	1.7726	1.2479
Mo 202.032	2.3654	2.6313	2.9523
Na 330.237	2661.87	2485.11	2332.94
Ni 231.604	2.5993	2.4758	4.1367
Pb 220.353	8.1926	9.2991	5.4441
Sb 206.834	1.0388	3.5154	-4.0883u
Se 196.026	9.6400	6.5418	12.2796
Sn 189.925	0.5967	0.6210	1.5982
Sr 216.596	10.3972	10.0636	8.8769
Ti 334.941	0.0183	0.0802	0.0250
Tl 190.794	-4.6117u	-8.7860u	-4.9414u
V 292.401	0.2403	-0.1141u	-0.0279u
Zn 206.200	2.8103	2.0626	4.4206

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6680	ppb	0.4322	64.7	-90.3528
Al 308.215	60.5557	ppb	5.2143	8.6	124.985
As 188.980	-1.4276	ppb	8.0240	562.1	-12.3924
B 249.678	9.9799	ppb	1.3042	13.1	302.845
Ba 389.178	8.6320	ppb	0.6334	7.3	199.262
Be 313.042	0.0297	ppb	0.0113	38.0	-383.543
Ca 370.602	1119	ppb	12.05	1.1	3938
Cd 226.502	0.2849	ppb	0.2466	86.5	51.9538
Co 228.615	0.3751	ppb	0.6294	167.8	10.0321
Cr 267.716	0.4286	ppb	0.1364	31.8	30.4127
Cu 324.754	-0.0803	ppb	0.7726	962.1	292.101
Fe 271.441	1.6141	ppb	5.0926	315.5	34.9042
K 766.491	432.977	ppb	2.6258	0.6	18427.4
Mg 279.078	228.049	ppb	13.7556	6.0	636.145
Mn 257.610	1.5377	ppb	0.2666	17.3	247.389
Mo 202.032	2.6497	ppb	0.2939	11.1	40.1746
Na 330.237	2493.31	ppb	164.621	6.6	213.341
Ni 231.604	3.0706	ppb	0.9253	30.1	11.0167
Pb 220.353	7.6453	ppb	1.9849	26.0	47.5424
Sb 206.834	0.1553	ppb	3.8781	2497.1	-3.0463
Se 196.026	9.4871	ppb	2.8719	30.3	17.2153
Sn 189.925	0.9386	ppb	0.5713	60.9	-15.5023
Sr 216.596	9.7792	ppb	0.7990	8.2	161.073
Ti 334.941	0.0412	ppb	0.0340	82.6	-30.2488
Tl 190.794	-6.1130	ppb	2.3207	38.0	-26.6220
V 292.401	0.0328	ppb	0.1848	564.1	-9.7047
Zn 206.200	3.0979	ppb	1.2950	432.8	12.8896

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680-90218-c-2-a (Samp) **5/17/2013, 4:19:30 AM** **Rack 3, Tube 21****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.3227	55.6753	56.8594
Al 308.215	1524.51	1512.26	1526.83
As 188.980	2809.12	2818.97	2842.51
B 249.678	1057.28	1067.85	1074.07
Ba 389.178	2086.69	2090.16	2112.01
Be 313.042	47.9429	48.2097	48.6511
Ca 370.602	10991	11076	11054
Cd 226.502	73.9126	73.7708	74.5581
Co 228.615	705.332	703.786	712.167
Cr 267.716	229.616	230.647	232.409
Cu 324.754	229.391	233.310	237.527
Fe 271.441	1218.30	1171.95	1149.42
K 766.491	9973.64	10232.8	10612.8
Mg 279.078	7505.56	7544.63	7594.42
Mn 257.610	896.581	896.884	907.072
Mo 202.032	539.244	541.955	544.601
Na 330.237	20554.2	19594.7	18889.3
Ni 231.604	567.512	576.818	596.689
Pb 220.353	755.557	755.608	767.269
Sb 206.834	534.550	526.676	532.772
Se 196.026	2975.09	3003.71	3022.22
Sn 189.925	1517.50	1515.48	1515.63
Sr 216.596	681.925	682.124	687.769
Ti 334.941	907.347	914.140	917.676
Tl 190.794	3129.61	3136.61	3163.42
V 292.401	518.932	523.386	525.330
Zn 206.200	935.456	936.002	934.621

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.9525	ppb	0.8050	1.4	4903.82
Al 308.215	1521.20	ppb	7.8280	0.5	3583.62
As 188.980	2823.54	ppb	17.1523	0.6	1996.79
B 249.678	1066.40	ppb	8.4872	0.8	16924.3
Ba 389.178	2096.28	ppb	13.7322	0.7	55164.6
Be 313.042	48.2679	ppb	0.3577	0.7	104650
Ca 370.602	11040	ppb	44.40	0.4	38861
Cd 226.502	74.0805	ppb	0.4197	0.6	3644.75
Co 228.615	707.095	ppb	4.4598	0.6	11026.5
Cr 267.716	230.890	ppb	1.4124	0.6	13670.5
Cu 324.754	233.409	ppb	4.0690	1.7	12456.2
Fe 271.441	1179.89	ppb	35.1236	3.0	2610.99
K 766.491	10273.1	ppb	321.457	3.1	430871
Mg 279.078	7548.20	ppb	44.5364	0.6	19894.3
Mn 257.610	900.179	ppb	5.9715	0.7	64391.9
Mo 202.032	541.933	ppb	2.6785	0.5	4695.57
Na 330.237	19679.4	ppb	835.639	4.2	1157.43
Ni 231.604	580.339	ppb	14.9039	2.6	2077.12
Pb 220.353	759.478	ppb	6.7470	0.9	1756.92
Sb 206.834	531.333	ppb	4.1297	0.8	633.428
Se 196.026	3000.34	ppb	23.7461	0.8	1937.55
Sn 189.925	1516.21	ppb	1.1246	0.1	1706.35
Sr 216.596	683.939	ppb	3.3184	0.5	9944.98
Ti 334.941	913.055	ppb	5.2496	0.6	306528
Tl 190.794	3143.22	ppb	17.8471	0.6	3434.92
V 292.401	522.549	ppb	3.2804	0.6	16642.7
Zn 206.200	935.360	ppb	0.6957	0.1	1828.47

680-90218-c-2-b ms (Samp) 5/17/2013, 4:24:56 AM Rack 3, Tube 22

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	56.1346	51.6738	40.9962
Al 308.215	3893.42	3935.73	4086.20
As 188.980	132.396	152.137	151.188
B 249.678	243.006	245.557	252.507
Ba 389.178	126.210	127.832	126.477
Be 313.042	49.4871	49.7612	51.9134
Ca 370.602	10913	11055	11233
Cd 226.502	73.3117	74.5238	76.9678
Co 228.615	60.6618	45.5664	43.8769
Cr 267.716	112.836	114.466	117.252
Cu 324.754	96.0061	86.3626	70.2303
Fe 271.441	5322.85	5384.03	5506.49
K 766.491	10007.8	10582.1	11081.1
Mg 279.078	7208.10	7350.97	7583.41
Mn 257.610	835.893	851.565	867.409
Mo 202.032	105.893	107.236	110.107
Na 330.237	18367.6	18047.0	18926.5
Ni 231.604	125.656	143.288	145.366
Pb 220.353	78.1189	81.2369	82.2392
Sb 206.834	51.5612	65.6787	64.9241
Se 196.026	137.822	161.101	155.230
Sn 189.925	284.203	285.531	291.277
Sr 216.596	163.450	164.887	168.613
Ti 334.941	88.4094	88.6158	91.3909
Tl 190.794	46.7090	53.8432	53.2339
V 292.401	113.358	105.332	107.849
Zn 206.200	191.560	193.342	203.383

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.6015	ppb	7.7790	15.7	4369.68
Al 308.215	3971.78	ppb	101.321	2.6	9310.32
As 188.980	145.240	ppb	11.1334	7.7	92.0156
B 249.678	247.024	ppb	4.9175	2.0	4023.89
Ba 389.178	126.840	ppb	0.8694	0.7	3342.34
Be 313.042	50.3872	ppb	1.3288	2.6	109383
Ca 370.602	11067	ppb	160.7	1.5	38381
Cd 226.502	74.9344	ppb	1.8623	2.5	3704.55
Co 228.615	50.0351	ppb	9.2417	18.5	781.591
Cr 267.716	114.851	ppb	2.2328	1.9	6806.22
Cu 324.754	84.1996	ppb	13.0233	15.5	4682.18
Fe 271.441	5404.46	ppb	93.5092	1.7	11225.7
K 766.491	10557.0	ppb	537.095	5.1	442773
Mg 279.078	7380.83	ppb	189.430	2.6	19453.4
Mn 257.610	851.623	ppb	15.7580	1.9	60930.4
Mo 202.032	107.745	ppb	2.1525	2.0	947.075
Na 330.237	18447.0	ppb	445.110	2.4	1100.34
Ni 231.604	138.103	ppb	10.8298	7.8	494.468
Pb 220.353	80.5316	ppb	2.1488	2.7	213.422
Sb 206.834	60.7213	ppb	7.9419	13.1	70.4345
Se 196.026	151.384	ppb	12.1066	8.0	108.524
Sn 189.925	287.004	ppb	3.7596	1.3	309.574
Sr 216.596	165.650	ppb	2.6648	1.6	2428.61
Ti 334.941	89.4720	ppb	1.6650	1.9	30033.8
Tl 190.794	51.2620	ppb	3.9548	7.7	35.3238
V 292.401	108.846	ppb	4.1046	3.8	3453.93
Zn 206.200	196.095	ppb	6.3740	3.3	389.235

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680-90218-c-2-c msd (Samp) 5/17/2013, 4:30:22 AM Rack 3, Tube 23**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.5509	56.1896	54.1538
Al 308.215	4068.63	4038.71	4036.78
As 188.980	151.465	154.215	158.132
B 249.678	254.539	249.867	248.862
Ba 389.178	131.769	129.633	131.132
Be 313.042	52.5742	51.8864	51.9242
Ca 370.602	11365	11384	11452
Cd 226.502	79.8876	78.9752	78.8790
Co 228.615	66.5538	74.5249	77.6651
Cr 267.716	121.748	120.167	120.442
Cu 324.754	92.8942	95.8472	89.1707
Fe 271.441	5719.57	5659.01	5648.22
K 766.491	11158.6	11402.6	11028.4
Mg 279.078	7790.07	7716.91	7657.19
Mn 257.610	949.642	944.506	933.136
Mo 202.032	112.485	110.835	110.612
Na 330.237	20053.2	21548.0	18886.1
Ni 231.604	130.088	123.870	121.731
Pb 220.353	87.3452	82.9711	85.2807
Sb 206.834	53.5812	57.4418	60.6556
Se 196.026	165.280	148.140	178.399
Sn 189.925	301.969	298.760	295.150
Sr 216.596	174.620	173.012	173.653
Ti 334.941	94.0247	92.8081	93.0719
Tl 190.794	63.1560	55.8794	52.4960
V 292.401	118.295	117.459	114.448
Zn 206.200	202.944	197.328	200.611

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.2981	ppb	1.0412	1.9	4875.46
Al 308.215	4048.04	ppb	17.8582	0.4	9489.52
As 188.980	154.604	ppb	3.3502	2.2	98.6799
B 249.678	251.089	ppb	3.0293	1.2	4087.36
Ba 389.178	130.845	ppb	1.0966	0.8	3449.38
Be 313.042	52.1283	ppb	0.3866	0.7	113177
Ca 370.602	11400	ppb	45.77	0.4	39524
Cd 226.502	79.2473	ppb	0.5566	0.7	3915.53
Co 228.615	72.9146	ppb	5.7280	7.9	1138.03
Cr 267.716	120.786	ppb	0.8446	0.7	7157.67
Cu 324.754	92.6374	ppb	3.3456	3.6	5121.45
Fe 271.441	5675.60	ppb	38.4614	0.7	11791.1
K 766.491	11196.5	ppb	190.000	1.7	469579
Mg 279.078	7721.39	ppb	66.5514	0.9	20349.1
Mn 257.610	942.428	ppb	8.4466	0.9	67411.1
Mo 202.032	111.310	ppb	1.0231	0.9	977.821
Na 330.237	20162.5	ppb	1334.29	6.6	1195.99
Ni 231.604	125.230	ppb	4.3414	3.5	448.403
Pb 220.353	85.1990	ppb	2.1882	2.6	224.041
Sb 206.834	57.2262	ppb	3.5421	6.2	66.2215
Se 196.026	163.940	ppb	15.1743	9.3	116.599
Sn 189.925	298.626	ppb	3.4114	1.1	322.782
Sr 216.596	173.762	ppb	0.8098	0.5	2547.11
Ti 334.941	93.3016	ppb	0.6400	0.7	31321.3
Tl 190.794	57.1771	ppb	5.4472	9.5	41.7662
V 292.401	116.734	ppb	2.0236	1.7	3705.94
Zn 206.200	200.295	ppb	2.8212	1.4	297.438

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90218-c-3-a (Samp) **5/17/2013, 4:35:49 AM** **Rack 3, Tube 24**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3168u	-0.9975u	-1.7421u
Al 308.215	419.987	419.716	413.969
As 188.980	0.6466	15.9514	11.7472
B 249.678	25.4962	25.5760	25.0411
Ba 389.178	49.1611	54.3480	52.9899
Be 313.042	0.1169	0.1162	0.1197
Ca 370.602	15303	15527	15375
Cd 226.502	0.5590	0.4009	0.1707
Co 228.615	0.1940	0.9821	1.0805
Cr 267.716	14.7259	14.6948	14.1486
Cu 324.754	0.3691	0.3917	-0.7059u
Fe 271.441	789.312	817.182	760.684
K 766.491	3480.97	3479.27	3429.76
Mg 279.078	2741.71	2762.44	2734.99
Mn 257.610	108.625	109.833	108.275
Mo 202.032	1.4476	0.3444	2.0545
Na 330.237	15356.8	16250.0	16341.3
Ni 231.604	8.7509	8.1224	8.1341
Pb 220.353	7.3815	14.5322	4.5104
Sb 206.834	5.5082	3.3047	1.9716
Se 196.026	-3.8675u	-13.9404u	7.9745
Sn 189.925	-0.9754u	-1.1623u	2.2662
Sr 216.596	133.005	135.146	133.915
Ti 334.941	6.3940	6.6483	6.5119
Tl 190.794	-9.4367u	4.1859	-1.8954u
V 292.401	2.5870	2.8163	2.7828
Zn 206.200	12.1706	11.2939	11.0654

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3521	ppb	0.3736	27.6	-159.048
Al 308.215	417.891	ppb	3.3992	0.8	963.572
As 188.980	9.4484	ppb	7.9071	83.7	-4.4941
B 249.678	25.3711	ppb	0.2886	1.1	543.711
Ba 389.178	52.1663	ppb	2.6898	5.2	1354.11
Be 313.042	0.1176	ppb	0.0018	1.6	-187.156
Ca 370.602	15402	ppb	114.2	0.7	54006
Cd 226.502	0.3769	ppb	0.1953	51.8	59.8893
Co 228.615	0.7522	ppb	0.4859	64.6	16.2119
Cr 267.716	14.5231	ppb	0.3247	2.2	865.509
Cu 324.754	0.0183	ppb	0.6273	3424.3	297.439
Fe 271.441	789.059	ppb	28.2501	3.6	1664.49
K 766.491	3463.33	ppb	29.0894	0.8	145444
Mg 279.078	2746.38	ppb	14.3077	0.5	7264.02
Mn 257.610	108.911	ppb	0.8171	0.8	7916.65
Mo 202.032	1.2822	ppb	0.8670	67.6	28.3095
Na 330.237	15982.7	ppb	543.951	3.4	966.494
Ni 231.604	8.3358	ppb	0.3595	4.3	29.8854
Pb 220.353	8.8080	ppb	5.1610	58.6	50.2149
Sb 206.834	3.5948	ppb	1.7861	49.7	1.3270
Se 196.026	-3.2778	ppb	10.9693	334.7	9.0447
Sn 189.925	0.0428	ppb	1.9278	4500.2	-16.5048
Sr 216.596	134.022	ppb	1.0746	0.8	1974.71
Ti 334.941	6.5180	ppb	0.1273	2.0	2157.55
Tl 190.794	-2.3821	ppb	6.8243	286.5	-22.6572
V 292.401	2.7287	ppb	0.1239	4.5	76.2121
Zn 206.200	11.5099	ppb	0.5834	5.1	20.3393

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90218-a-8-a (Samp) 5/17/2013, 4:52:08 AM Rack 3, Tube 27

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1496u	-0.8990u	-0.5001u
Al 308.215	131.090	118.166	102.823
As 188.980	2.0998	1.6570	11.2044
B 249.678	11.4138	11.9070	9.9235
Ba 389.178	9.4344	10.5915	6.9575
Be 313.042	-0.0298u	-0.0149u	-0.0298u
Ca 370.602	39304	38815	38160
Cd 226.502	0.1690	0.1739	0.5048
Co 228.615	-4.1713u	-3.5287u	-1.4649u
Cr 267.716	0.8113	0.4149	0.3296
Cu 324.754	-0.6862u	-1.4753u	-0.9015u
Fe 271.441	15.9310	16.5818	17.9022
K 766.491	3803.49	3781.80	3870.31
Mg 279.078	11138.7	11061.8	11258.2
Mn 257.610	3.0482	3.1625	3.1547
Mo 202.032	3.8179	4.8429	5.1345
Na 330.237	29464.1	29153.8	31302.3
Ni 231.604	2.8210	2.6375	2.8994
Pb 220.353	4.5397	4.6702	11.6777
Sb 206.834	-3.8749u	-1.8718u	15.8867
Se 196.026	11.4509	12.2044	3.0165
Sn 189.925	-5.3996u	3.7694	-6.3249u
Sr 216.596	121.030	120.119	122.408
Ti 334.941	0.1540	0.0794	0.1249
Tl 190.794	-5.7852u	-6.5878u	-6.9799u
V 292.401	1.7513	1.6277	1.9021
Zn 206.200	11.1341	12.6983	11.6880

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8496	ppb	0.3276	38.6	-113.659
Al 308.215	117.360	ppb	14.1508	12.1	258.382
As 188.980	4.9871	ppb	5.3889	108.1	-7.4419
B 249.678	11.0815	ppb	1.0327	9.3	320.166
Ba 389.178	8.9945	ppb	1.8565	20.6	242.831
Be 313.042	-0.0248	ppb	0.0086	34.6	-490.849
Ca 370.602	38760	ppb	573.8	1.5	136077
Cd 226.502	0.2826	ppb	0.1925	68.1	51.8972
Co 228.615	-3.0550	ppb	1.4140	46.3	-43.4811
Cr 267.716	0.5186	ppb	0.2571	49.6	36.2982
Cu 324.754	-1.0210	ppb	0.4079	40.0	243.179
Fe 271.441	16.8050	ppb	1.0044	6.0	65.7118
K 766.491	3818.53	ppb	46.1349	1.2	160332
Mg 279.078	11152.9	ppb	98.9972	0.9	29393.5
Mn 257.610	3.1218	ppb	0.0639	2.0	389.366
Mo 202.032	4.5984	ppb	0.6915	15.0	56.9970
Na 330.237	29973.4	ppb	1161.31	3.9	1748.38
Ni 231.604	2.7859	ppb	0.1344	4.8	9.9983
Pb 220.353	6.9625	ppb	4.0840	58.7	45.9877
Sb 206.834	3.3800	ppb	10.8773	321.8	0.8293
Se 196.026	8.8906	ppb	5.1010	57.4	16.8329
Sn 189.925	-2.6517	ppb	5.5801	210.4	-19.5465
Sr 216.596	121.185	ppb	1.1525	1.0	1790.38
Ti 334.941	0.1194	ppb	0.0376	31.5	55.5762
Tl 190.794	-6.4510	ppb	0.6090	9.4	-26.9980
V 292.401	1.7604	ppb	0.1374	7.8	45.3678
Zn 206.200	11.8401	ppb	0.7931	6.7	29.9233

680-90236-c-2-a (Samp) 5/17/2013, 4:57:35 AM Rack 3, Tube 28
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8945u	0.1092	-0.8258u
Al 308.215	117.110	89.6987	107.563
As 188.980	1.6108	11.1423	1.8820
B 249.678	4.7730	4.9428	6.6177
Ba 389.178	68.5190	69.9636	72.1105
Be 313.042	0.0512	0.0656	0.0442
Ca 370.602	17492	17343	18991
Cd 226.502	0.1221	0.4108	0.5287
Co 228.615	-2.6400u	-1.9320u	-0.5021u
Cr 267.716	0.9386	0.7443	1.0040
Cu 324.754	-0.6702u	-1.7348u	0.4318
Fe 271.441	31.5802	40.5868	34.4715
K 766.491	3532.58	3517.56	3663.17
Mg 279.078	2836.67	2823.03	2913.31
Mn 257.610	38.1171	38.6468	39.7568
Mo 202.032	1.8539	2.2811	2.6548
Na 330.237	11816.7	11812.7	12441.9
Ni 231.604	2.7930	1.9361	4.4170
Pb 220.353	6.9353	-0.4568u	1.7734
Sb 206.834	0.8909	3.1447	0.5512
Se 196.026	-8.5219u	-4.8687u	-10.2389u
Sn 189.925	1.7413	1.3646	1.3823
Sr 216.596	134.010	133.376	139.181
Ti 334.941	0.5905	0.6517	0.5305
Tl 190.794	-4.5740u	-5.2135u	-12.3249u
V 292.401	2.0989	2.1445	1.6430
Zn 206.200	12.5744	14.2500	16.1063

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5370	ppb	0.5607	104.4	-86.3226
Al 308.215	104.791	ppb	13.9144	13.3	228.757
As 188.980	4.8784	ppb	5.4264	111.2	-7.7381
B 249.678	5.4445	ppb	1.0196	18.7	231.443
Ba 389.178	70.1977	ppb	1.8072	2.6	1827.55
Be 313.042	0.0537	ppb	0.0109	20.4	-325.736
Ca 370.602	17942	ppb	911.2	5.1	62995
Cd 226.502	0.3539	ppb	0.2092	59.1	55.3974
Co 228.615	-1.6914	ppb	1.0890	64.4	-22.1179
Cr 267.716	0.8956	ppb	0.1350	15.1	58.3746
Cu 324.754	-0.6577	ppb	1.0834	164.7	262.022
Fe 271.441	35.5462	ppb	4.5984	12.9	104.743
K 766.491	3571.10	ppb	80.0855	2.2	149961
Mg 279.078	2857.67	ppb	48.6628	1.7	7557.57
Mn 257.610	38.8402	ppb	0.8368	2.2	2916.18
Mo 202.032	2.2633	ppb	0.4007	17.7	36.8322
Na 330.237	12023.8	ppb	362.071	3.0	745.639
Ni 231.604	3.0487	ppb	1.2601	41.3	10.9392
Pb 220.353	2.7506	ppb	3.7917	137.8	36.4111
Sb 206.834	1.5289	ppb	1.4095	92.2	-1.3679
Se 196.026	-7.8765	ppb	2.7427	34.8	6.0760
Sn 189.925	1.4961	ppb	0.2126	14.2	-14.8545
Sr 216.596	135.522	ppb	3.1841	2.3	1996.37
Ti 334.941	0.5909	ppb	0.0606	10.3	168.379
Tl 190.794	-7.3708	ppb	4.3023	58.4	-28.0471
V 292.401	1.9621	ppb	0.2773	14.1	52.3942
Zn 206.200	14.3102	ppb	1.7667	12.3	24.7360

680-90236-c-5-a (Samp) 5/17/2013, 5:03:02 AM Rack 3, Tube 29

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2419	-0.7102u	-0.1983
Al 308.215	276.703	273.801	270.359
As 188.980	-1.5133u	8.1750	4.0368
B 249.678	1.3946u	1.6236u	2.0923u
Ba 389.178	52.9675	53.7596	53.3563
Be 313.042	-0.0192u	-0.0272u	-0.0110u
Ca 370.602	8958	9029	9039
Cd 226.502	0.6196	0.5777	0.5717
Co 228.615	70.3856	80.9143	89.6283
Cr 267.716	1.1183	0.6977	0.6032
Cu 324.754	-0.9758u	0.9456	0.4167
Fe 271.441	60751.1	63582.1	63881.1
K 766.491	6002.08	6041.39	6100.13
Mg 279.078	6594.49	6688.31	6763.60
Mn 257.610	8615.12	8951.05	8979.01
Mo 202.032	2.6032	1.2033	1.8472
Na 330.237	121123x	126523x	130158x
Ni 231.604	6.0351	4.8271	4.2414
Pb 220.353	11.6371	11.0245	8.7919
Sb 206.834	4.3158	-0.2912	-1.9222u
Se 196.026	1.6467	14.3790	6.4574
Sn 189.925	-4.4886u	-4.5532u	0.7343
Sr 216.596	27.7704	27.5200	28.3623
Ti 334.941	-0.0785	-0.0222	-0.1402u
Tl 190.794	1.1820u	10.3281u	8.2615u
V 292.401	0.0209u	0.0532	1.2244
Zn 206.200	7.1075	7.7137	9.9169

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3835b	ppb	0.2838	74.0	-33.8621
Al 308.215	273.621b	ppb	3.1761	1.2	624.986
As 188.980	3.5662b	ppb	4.8613	136.3	-8.5179
B 249.678	1.7035b	ppb	0.3556	20.9	69.7260
Ba 389.178	53.3611b	ppb	0.3961	0.7	1501.87
Be 313.042	-0.0191b	ppb	0.0081	42.2	-506.263
Ca 370.602	9009b	ppb	44.11	0.5	25938
Cd 226.502	0.5897b	ppb	0.0261	4.4	336.693
Co 228.615	80.3094b	ppb	9.6356	12.0	1252.69
Cr 267.716	0.8064b	ppb	0.2742	34.0	106.551
Cu 324.754	0.1288b	ppb	0.9925	770.4	323.164
Fe 271.441	62738.1b	ppb	1727.26	2.8	129871
K 766.491	6047.87b	ppb	49.3412	0.8	253774
Mg 279.078	6682.13b	ppb	84.7249	1.3	17519.3
Mn 257.610	8848.39b	ppb	202.508	2.3	631602
Mo 202.032	1.8846b	ppb	0.7007	37.2	29.6540
Na 330.237	125935xb	ppb	4545.93	3.6	7087.69
Ni 231.604	5.0346b	ppb	0.9147	18.2	19.8997
Pb 220.353	10.4845b	ppb	1.4975	14.3	55.7615
Sb 206.834	0.7008b	ppb	3.2352	461.6	-0.5544
Se 196.026	7.4943b	ppb	6.4292	85.8	18.3703
Sn 189.925	-2.7692b	ppb	3.0342	109.6	-19.6560
Sr 216.596	27.8842b	ppb	0.4326	1.6	462.429
Ti 334.941	-0.0803b	ppb	0.0591	73.6	-36.6104
Tl 190.794	6.5905b	ppb	4.7965	72.8	-26.0283
V 292.401	0.4328b	ppb	0.6857	158.4	2.3107
Zn 206.200	8.2460b	ppb	1.4784	17.8	31.7443

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680-90236-c-6-a (Samp) **5/17/2013, 5:08:28 AM** **Rack 3, Tube 30**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.0740u	-0.6268u	-0.0051u
Al 308.215	130.381	124.101	118.813
As 188.980	3.7842	9.3452	7.5593
B 249.678	3.6462	3.4631	4.1725
Ba 389.178	30.3594	31.9677	32.4649
Be 313.042	0.0156	0.0344	0.0139
Ca 370.602	14984	15542	16723
Cd 226.502	0.1017	0.3413	0.2728
Co 228.615	-0.4436u	-0.3403u	-0.6143u
Cr 267.716	1.0717	0.6658	0.8943
Cu 324.754	-2.0635u	-0.0418u	0.5331
Fe 271.441	88.6951	87.6543	99.7241
K 766.491	4639.54	4691.18	4778.14
Mg 279.078	4654.96	4740.18	4871.30
Mn 257.610	250.605	254.407	245.606
Mo 202.032	2.0995	2.2863	1.9024
Na 330.237	10692.1	11226.8	11115.0
Ni 231.604	3.3672	5.1969	3.1919
Pb 220.353	9.4731	7.0867	3.8787
Sb 206.834	5.5811	6.1703	5.4781
Se 196.026	-6.6709u	2.4828	0.0614
Sn 189.925	2.2805	0.5974	-0.2806u
Sr 216.596	90.1119	90.3682	93.5254
Ti 334.941	1.3872	1.2816	1.5006
Tl 190.794	-5.0756u	-1.4260u	-3.7519u
V 292.401	1.0472	1.5283	0.7396
Zn 206.200	10.0163	10.2909	11.7970

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9020	ppb	1.0616	117.7	-115.399
Al 308.215	124.431	ppb	5.7914	4.7	274.849
As 188.980	6.8962	ppb	2.8392	41.2	-6.3225
B 249.678	3.7606	ppb	0.3683	9.8	204.853
Ba 389.178	31.5974	ppb	1.1005	3.5	817.816
Be 313.042	0.0213	ppb	0.0113	53.2	-397.093
Ca 370.602	15750	ppb	887.7	5.6	55298
Cd 226.502	0.2386	ppb	0.1234	51.7	50.0859
Co 228.615	-0.4661	ppb	0.1383	29.7	-2.9869
Cr 267.716	0.8773	ppb	0.2035	23.2	58.0358
Cu 324.754	-0.5241	ppb	1.3638	260.2	269.000
Fe 271.441	92.0245	ppb	6.6883	7.3	221.829
K 766.491	4702.95	ppb	70.0446	1.5	197402
Mg 279.078	4755.48	ppb	108.980	2.3	12550.4
Mn 257.610	250.206	ppb	4.4141	1.8	18003.6
Mo 202.032	2.0961	ppb	0.1920	9.2	35.3870
Na 330.237	11011.3	ppb	282.030	2.6	689.082
Ni 231.604	3.9187	ppb	1.1104	28.3	14.0545
Pb 220.353	6.8128	ppb	2.8073	41.2	45.6984
Sb 206.834	5.7432	ppb	0.3735	6.5	3.7405
Se 196.026	-1.3756	ppb	4.7430	344.8	10.2947
Sn 189.925	0.8658	ppb	1.3015	150.3	-15.5724
Sr 216.596	91.3352	ppb	1.9011	2.1	1352.02
Ti 334.941	1.3898	ppb	0.1096	7.9	447.484
Tl 190.794	-3.4178	ppb	1.8476	54.1	-23.9281
V 292.401	1.1050	ppb	0.3975	36.0	24.9417
Zn 206.200	10.7014	ppb	0.9587	9.0	27.7133

680-90236-c-7-a (Samp) 5/17/2013, 5:13:55 AM Rack 3, Tube 31
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2993u	-1.2294u	-0.9204
Al 308.215	1117.53	1109.40	1117.82
As 188.980	6.4338	12.9122	2.5437
B 249.678	48.8989	50.0423	51.3859
Ba 389.178	307.316	304.236	301.627
Be 313.042	0.4209	0.4063	0.4127
Ca 370.602	9701	9746	9735
Cd 226.502	0.4637	0.3748	0.3200
Co 228.615	154.624	142.669	134.854
Cr 267.716	0.3042	-0.2711	0.4353
Cu 324.754	2.7396	2.3683	0.8994
Fe 271.441	31290.9	31292.8	31373.5
K 766.491	5771.84	5739.47	5749.79
Mg 279.078	8197.74	8193.66	8210.42
Mn 257.610	26411.1	27436.9	26897.9
Mo 202.032	1.7631	1.9106	1.9563
Na 330.237	20739.0	20463.2	24165.9
Ni 231.604	1.6035	2.5264	0.8075
Pb 220.353	13.2594	6.7261	12.1481
Sb 206.834	4.7715	11.6141	-4.8466u
Se 196.026	1.1806	2.1958	11.3684
Sn 189.925	-1.3479u	0.6566	-1.4756u
Sr 216.596	55.6125	55.8689	55.5888
Ti 334.941	0.0886	-0.1405	0.0398
Tl 190.794	34.9044	32.4915	35.0709
V 292.401	-0.5589u	-0.7642u	-1.6513u
Zn 206.200	56.5035	56.7357	59.7047

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1497	ppb	0.2016	17.5	-35.6481
Al 308.215	1114.92	ppb	4.7807	0.4	2599.48
As 188.980	7.2965	ppb	5.2378	71.8	-5.9780
B 249.678	50.1090	ppb	1.2449	2.5	883.033
Ba 389.178	304.393	ppb	2.8477	0.9	8059.06
Be 313.042	0.4133	ppb	0.0073	1.8	446.854
Ca 370.602	9728	ppb	23.21	0.2	31800
Cd 226.502	0.3862	ppb	0.0725	18.8	191.792
Co 228.615	144.049	ppb	9.9568	6.9	2247.48
Cr 267.716	0.1561	ppb	0.3757	240.6	123.076
Cu 324.754	2.0024	ppb	0.9731	48.6	410.533
Fe 271.441	31319.1	ppb	47.1344	0.2	64867.1
K 766.491	5753.70	ppb	16.5366	0.3	241444
Mg 279.078	8200.61	ppb	8.7427	0.1	21258.0
Mn 257.610	26915.3	ppb	513.102	1.9	1920770
Mo 202.032	1.8767	ppb	0.1010	5.4	31.5517
Na 330.237	21789.4	ppb	2062.77	9.5	1280.18
Ni 231.604	1.6458	ppb	0.8602	52.3	6.8420
Pb 220.353	10.7112	ppb	3.4956	32.6	59.9815
Sb 206.834	3.8463	ppb	8.2693	215.0	2.3642
Se 196.026	4.9149	ppb	5.6119	114.2	20.4850
Sn 189.925	-0.7223	ppb	1.1958	165.6	-17.3766
Sr 216.596	55.6900	ppb	0.1553	0.3	849.699
Ti 334.941	-0.0040	ppb	0.1207	3006.1	1.8371
Tl 190.794	34.1556	ppb	1.4435	4.2	-14.0200
V 292.401	-0.9915	ppb	0.5806	58.6	-42.4928
Zn 206.200	57.6480	ppb	1.7850	3.1	122.562

680-90236-c-8-a (Samp) 5/17/2013, 5:19:22 AM Rack 3, Tube 32

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7728u	-0.5100u	-0.4843u
Al 308.215	96.5713	107.520	102.202
As 188.980	0.1330	6.2439	5.9220
B 249.678	4.0233	2.9989	4.0221
Ba 389.178	8.2697	6.9712	8.5066
Be 313.042	-0.0135u	-0.0228u	-0.0179u
Ca 370.602	6838	6905	6811
Cd 226.502	0.4168	0.6844	0.0572
Co 228.615	-0.3074u	0.0516	1.1667
Cr 267.716	0.4325	0.4398	0.9128
Cu 324.754	0.2767	-0.0794u	-0.8183u
Fe 271.441	64.1533	61.1991	63.9042
K 766.491	2043.22	2085.97	2086.47
Mg 279.078	1288.87	1305.17	1293.60
Mn 257.610	18.0632	18.2254	18.0038
Mo 202.032	3.2390	2.6199	1.7929
Na 330.237	8226.52	8406.36	8395.61
Ni 231.604	3.5682	0.8340	2.6216
Pb 220.353	10.2573	3.5896	8.5606
Sb 206.834	-4.5123u	-2.1551u	3.4771
Se 196.026	0.2405	5.5562	2.4879
Sn 189.925	-2.0164u	-2.1054u	-1.4521u
Sr 216.596	37.9068	40.3612	39.0259
Ti 334.941	1.2089	1.1992	1.2908
Tl 190.794	-3.0621u	-8.9062u	1.6609
V 292.401	1.3752	1.0061	1.6888
Zn 206.200	9.7382	10.9035	11.9876

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5890	ppb	0.1596	27.1	-85.0495
Al 308.215	102.098	ppb	5.4749	5.4	222.469
As 188.980	4.0996	ppb	3.4390	83.9	-8.4035
B 249.678	3.6814	ppb	0.5911	16.1	203.646
Ba 389.178	7.9158	ppb	0.8266	10.4	183.829
Be 313.042	-0.0181	ppb	0.0047	25.9	-486.164
Ca 370.602	6852	ppb	48.40	0.7	24060
Cd 226.502	0.3861	ppb	0.3147	81.5	57.0945
Co 228.615	0.3036	ppb	0.7687	253.2	8.9669
Cr 267.716	0.5950	ppb	0.2752	46.3	40.4486
Cu 324.754	-0.2070	ppb	0.5585	269.8	285.509
Fe 271.441	63.0855	ppb	1.6384	2.6	162.100
K 766.491	2071.89	ppb	24.8251	1.2	87121.9
Mg 279.078	1295.88	ppb	8.3843	0.6	3446.76
Mn 257.610	18.0975	ppb	0.1147	0.6	1431.91
Mo 202.032	2.5506	ppb	0.7255	28.4	39.3129
Na 330.237	8342.83	ppb	100.874	1.2	540.022
Ni 231.604	2.3413	ppb	1.3885	59.3	8.4081
Pb 220.353	7.4692	ppb	3.4653	46.4	47.1453
Sb 206.834	-1.0634	ppb	4.1051	386.0	-4.5210
Se 196.026	2.7615	ppb	2.6684	96.6	12.9016
Sn 189.925	-1.8580	ppb	0.3543	19.1	-18.6741
Sr 216.596	39.0980	ppb	1.2288	3.1	589.331
Ti 334.941	1.2330	ppb	0.0503	4.1	375.423
Tl 190.794	-3.4358	ppb	5.2935	154.1	-23.7002
V 292.401	1.3567	ppb	0.3417	25.2	32.8539
Zn 206.200	10.8764	ppb	1.1250	10.3	28.0515

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680-90236-c-9-a (Samp) 5/17/2013, 5:24:48 AM Rack 3, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0299u	-0.6390u	-0.7821u
Al 308.215	227.535	229.171	220.828
As 188.980	-3.7832u	7.6778	-1.6906u
B 249.678	3.4709	3.5669	4.4617
Ba 389.178	28.0370	29.6466	29.7679
Be 313.042	0.0126	0.0288	0.0048
Ca 370.602	12893	12880	12810
Cd 226.502	0.5331	0.1686	0.2576
Co 228.615	2.2931	1.4984	0.7595
Cr 267.716	4.3291	4.1955	4.4382
Cu 324.754	2.4712	3.4089	0.8328
Fe 271.441	267.147	270.422	261.477
K 766.491	5725.12	5781.16	5701.26
Mg 279.078	2170.47	2313.88	2359.07
Mn 257.610	150.053	151.041	150.473
Mo 202.032	2.6205	1.7794	3.5062
Na 330.237	11014.2	11312.1	11386.1
Ni 231.604	4.7934	2.9642	2.7914
Pb 220.353	9.2336	6.6108	7.3875
Sb 206.834	9.0951	9.2900	0.5221
Se 196.026	-1.3632u	-5.6380u	3.7290
Sn 189.925	-4.9039u	-5.5119u	-0.6927u
Sr 216.596	82.4776	83.4354	83.1286
Ti 334.941	4.7416	4.6427	4.6881
Tl 190.794	-8.9244u	-8.7890u	-9.5465u
V 292.401	1.5659	2.0065	2.3150
Zn 206.200	67.2161	66.5056	62.7659

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8170	ppb	0.1978	24.2	-107.777
Al 308.215	225.844	ppb	4.4210	2.0	512.886
As 188.980	0.7347	ppb	6.1033	830.7	-10.7280
B 249.678	3.8332	ppb	0.5465	14.3	205.695
Ba 389.178	29.1505	ppb	0.9662	3.3	746.049
Be 313.042	0.0154	ppb	0.0123	79.8	-411.078
Ca 370.602	12861	ppb	44.53	0.3	45138
Cd 226.502	0.3198	ppb	0.1900	59.4	54.7843
Co 228.615	1.5170	ppb	0.7670	50.6	28.0196
Cr 267.716	4.3209	ppb	0.1216	2.8	261.539
Cu 324.754	2.2376	ppb	1.3038	58.3	412.786
Fe 271.441	266.349	ppb	4.5253	1.7	582.950
K 766.491	5735.85	ppb	41.0142	0.7	240696
Mg 279.078	2281.14	ppb	98.4677	4.3	6038.67
Mn 257.610	150.522	ppb	0.4961	0.3	10884.1
Mo 202.032	2.6353	ppb	0.8635	32.8	40.0299
Na 330.237	11237.5	ppb	196.877	1.8	701.179
Ni 231.604	3.5163	ppb	1.1093	31.5	12.6201
Pb 220.353	7.7440	ppb	1.3472	17.4	47.7953
Sb 206.834	6.3024	ppb	5.0069	79.4	4.4535
Se 196.026	-1.0907	ppb	4.6894	429.9	10.4553
Sn 189.925	-3.7028	ppb	2.6245	70.9	-20.7651
Sr 216.596	83.0139	ppb	0.4891	0.6	1230.49
Ti 334.941	4.6908	ppb	0.0495	1.1	1541.68
Tl 190.794	-9.0866	ppb	0.4040	4.4	-30.0501
V 292.401	1.9624	ppb	0.3765	19.2	52.1516
Zn 206.200	65.4959	ppb	2.3998	3.7	134.479

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680-90236-c-10-a (Samp) **5/17/2013, 5:30:25 AM** **Rack 3, Tube 34****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9263u	-0.8138u	0.4287
Al 308.215	87.5475	80.5859	95.4435
As 188.980	10.5114	6.4805	11.3762
B 249.678	1.9901	2.6455	1.3065
Ba 389.178	23.7913	22.4975	24.0739
Be 313.042	0.0382	0.0195	0.0268
Ca 370.602	15638	15676	15654
Cd 226.502	0.3045	0.4516	0.2828
Co 228.615	1.9281	1.7240	2.4128
Cr 267.716	0.3147	0.4253	0.1737
Cu 324.754	-0.3927u	0.2132	0.4466
Fe 271.441	78.1844	69.2048	79.9068
K 766.491	2639.68	2621.79	2656.66
Mg 279.078	2750.79	2725.67	2760.37
Mn 257.610	2375.31	2308.87	2254.23
Mo 202.032	2.0180	2.5013	3.9752
Na 330.237	6792.93	6886.41	7139.19
Ni 231.604	4.0813	4.6195	1.2279
Pb 220.353	2.3062	2.9988	3.1384
Sb 206.834	5.7325	1.8120	0.3652
Se 196.026	-1.1601u	4.7285	5.5323
Sn 189.925	5.8325	0.5652	-1.7299u
Sr 216.596	95.5399	94.0341	93.6816
Ti 334.941	0.1492	0.2055	0.0860
Tl 190.794	-6.6389u	1.9748u	-3.9583u
V 292.401	1.5661	1.3761	1.8887
Zn 206.200	7.6646	8.3524	8.6423

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4371	ppb	0.7520	172.0	-67.0745
Al 308.215	87.8589	ppb	7.4337	8.5	189.052
As 188.980	9.4560	ppb	2.6129	27.6	-4.5004
B 249.678	1.9807	ppb	0.6695	33.8	176.881
Ba 389.178	23.4542	ppb	0.8405	3.6	597.205
Be 313.042	0.0282	ppb	0.0094	33.5	-381.872
Ca 370.602	15656	ppb	18.99	0.1	55014
Cd 226.502	0.3463	ppb	0.0919	26.5	55.2056
Co 228.615	2.0216	ppb	0.3538	17.5	35.6956
Cr 267.716	0.3046	ppb	0.1261	41.4	31.1321
Cu 324.754	0.0890	ppb	0.4332	486.8	300.912
Fe 271.441	75.7653	ppb	5.7465	7.6	188.660
K 766.491	2639.38	ppb	17.4377	0.7	110908
Mg 279.078	2745.61	ppb	17.9207	0.7	7233.16
Mn 257.610	2312.81	ppb	60.6333	2.6	165178
Mo 202.032	2.8315	ppb	1.0195	36.0	41.7377
Na 330.237	6939.51	ppb	179.136	2.6	461.659
Ni 231.604	3.3096	ppb	1.8227	55.1	11.8737
Pb 220.353	2.8145	ppb	0.4457	15.8	36.9890
Sb 206.834	2.6366	ppb	2.7771	105.3	-0.0399
Se 196.026	3.0336	ppb	3.6540	120.5	13.5530
Sn 189.925	1.5559	ppb	3.8773	249.2	-14.7900
Sr 216.596	94.4186	ppb	0.9870	1.0	1396.97
Ti 334.941	0.1469	ppb	0.0598	40.7	19.0974
Tl 190.794	-2.8741	ppb	4.4080	153.4	-25.4752
V 292.401	1.6103	ppb	0.2591	16.1	41.0179
Zn 206.200	8.2198	ppb	0.5021	6.1	22.8767

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680-90236-c-12-a (Samp) 5/17/2013, 5:35:53 AM Rack 3, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2438u	0.4286u	-0.1391u
Al 308.215	6607.81	6624.32	6610.48
As 188.980	7.8558	16.6943	9.8323
B 249.678	55.7379	57.3155	55.5317
Ba 389.178	145.787	148.952	148.897
Be 313.042	0.0320u	0.0256u	0.0520u
Ca 370.602	18591	18685	18612
Cd 226.502	1.2288	0.3147	1.0449
Co 228.615	9.3208	9.7951	9.2218
Cr 267.716	11.5394	11.2852	11.3262
Cu 324.754	86.5434	86.8886	87.4419
Fe 271.441	140.985	123.672	136.109
K 766.491	686547o	688838o	687499x
Mg 279.078	28.5392	35.5018	26.7154
Mn 257.610	6.4289	6.9008	6.6702
Mo 202.032	61.7701	61.8695	62.0455
Na 330.237	1154573x	1155494x	1144797x
Ni 231.604	49.9096	53.8260	53.1762
Pb 220.353	7.0433	13.8718	9.6168
Sb 206.834	2.8164	5.9344	5.2771
Se 196.026	16.8583	18.5415	7.7731
Sn 189.925	108.322	111.495	106.622
Sr 216.596	3256.97	3279.40	3250.55
Ti 334.941	0.4500	0.4441	0.4240
Tl 190.794	-13.8598u	-11.5703u	-9.3520u
V 292.401	84.6113	85.4372	86.4198
Zn 206.200	16.0763	13.5670	16.1034

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0152b	ppb	0.3618	2374.7	-233.003
Al 308.215	6614.20b	ppb	8.8624	0.1	15509.3
As 188.980	11.4608b	ppb	4.6388	40.5	-3.0638
B 249.678	56.1950b	ppb	0.9758	1.7	1031.69
Ba 389.178	147.879b	ppb	1.8119	1.2	3863.66
Be 313.042	0.0366b	ppb	0.0138	37.6	-560.206
Ca 370.602	18629b	ppb	49.43	0.3	65399
Cd 226.502	0.8628b	ppb	0.4835	56.0	72.6740
Co 228.615	9.4459b	ppb	0.3065	3.2	148.880
Cr 267.716	11.3836b	ppb	0.1365	1.2	701.915
Cu 324.754	86.9580b	ppb	0.4533	0.5	4822.72
Fe 271.441	133.589b	ppb	8.9276	6.7	310.544
K 766.491	687628oxb	ppb	1150.85	0.2	28822010
Mg 279.078	30.2521b	ppb	4.6369	15.3	112.355
Mn 257.610	6.6666b	ppb	0.2360	3.5	611.212
Mo 202.032	61.8950b	ppb	0.1395	0.2	551.551
Na 330.237	1151621xb	ppb	5927.88	0.5	64406.7
Ni 231.604	52.3039b	ppb	2.0988	4.0	187.232
Pb 220.353	10.1773b	ppb	3.4486	33.9	53.3865
Sb 206.834	4.6760b	ppb	1.6436	35.2	1.4679
Se 196.026	14.3909b	ppb	5.7927	40.3	20.3656
Sn 189.925	108.813b	ppb	2.4733	2.3	107.618
Sr 216.596	3262.31b	ppb	15.1475	0.5	47567.7
Ti 334.941	0.4394b	ppb	0.0136	3.1	1.0355
Tl 190.794	-11.5940b	ppb	2.2540	19.4	-32.6395
V 292.401	85.4894b	ppb	0.9054	1.1	2710.89
Zn 206.200	15.2489b	ppb	1.4566	9.6	26.5381

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680-90236-c-13-a (Samp) 5/17/2013, 5:41:20 AM Rack 3, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1054u	-0.1327u	-0.9733u
Al 308.215	335.497	330.801	313.057
As 188.980	4.3765	5.5360	9.2552
B 249.678	27.4444	27.6141	26.0617
Ba 389.178	156.455	155.776	154.362
Be 313.042	0.0196	0.0122	0.0092
Ca 370.602	35791	35550	35697
Cd 226.502	0.5859	0.5622	0.2922
Co 228.615	3.1216	-0.0080u	0.9594
Cr 267.716	2.9397	2.2505	2.7682
Cu 324.754	12.6133	11.6921	10.7852
Fe 271.441	3706.59	3702.94	3665.74
K 766.491	9267.80	9099.24	9038.66
Mg 279.078	1572.62	1559.93	1559.40
Mn 257.610	254.203	254.134	251.429
Mo 202.032	4.8722	3.8198	3.0856
Na 330.237	6077.06	6000.25	5541.27
Ni 231.604	5.2644	4.0014	2.0815
Pb 220.353	18.1001	15.2646	10.6328
Sb 206.834	7.8321	7.5481	9.5675
Se 196.026	11.4667	-0.2506u	5.6534
Sn 189.925	-1.0077u	-2.2549u	-1.3591u
Sr 216.596	100.926	99.1748	100.410
Ti 334.941	8.1736	7.5515	7.5317
Tl 190.794	-5.4104u	-1.0997u	-3.0246u
V 292.401	7.4853	7.3424	6.4172
Zn 206.200	317.829	310.611	307.563

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7371	ppb	0.5276	71.6	-101.427
Al 308.215	326.451	ppb	11.8352	3.6	749.050
As 188.980	6.3892	ppb	2.5488	39.9	-6.4522
B 249.678	27.0401	ppb	0.8515	3.1	565.175
Ba 389.178	155.531	ppb	1.0680	0.7	4075.31
Be 313.042	0.0137	ppb	0.0054	39.1	-404.840
Ca 370.602	35679	ppb	121.5	0.3	124920
Cd 226.502	0.4801	ppb	0.1631	34.0	77.6192
Co 228.615	1.3576	ppb	1.6024	118.0	25.4064
Cr 267.716	2.6528	ppb	0.3588	13.5	164.038
Cu 324.754	11.6969	ppb	0.9141	7.8	906.159
Fe 271.441	3691.76	ppb	22.6042	0.6	7671.19
K 766.491	9135.23	ppb	118.734	1.3	383180
Mg 279.078	1563.98	ppb	7.4850	0.5	4150.35
Mn 257.610	253.255	ppb	1.5818	0.6	18216.1
Mo 202.032	3.9259	ppb	0.8980	22.9	50.9446
Na 330.237	5872.86	ppb	289.723	4.9	398.279
Ni 231.604	3.7824	ppb	1.6027	42.4	13.6757
Pb 220.353	14.6658	ppb	3.7695	25.7	63.5692
Sb 206.834	8.3159	ppb	1.0932	13.1	6.9493
Se 196.026	5.6232	ppb	5.8587	104.2	14.8145
Sn 189.925	-1.5406	ppb	0.6431	41.7	-18.2965
Sr 216.596	100.170	ppb	0.8998	0.9	1485.88
Ti 334.941	7.7523	ppb	0.3650	4.7	2566.37
Tl 190.794	-3.1782	ppb	2.1595	67.9	-23.8647
V 292.401	7.0816	ppb	0.5799	8.2	216.593
Zn 206.200	312.001	ppb	5.2722	1.7	615.228

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680-90236-c-14-a (Samp) **5/17/2013, 5:57:40 AM** **Rack 3, Tube 39****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.5870u	-1.9992u	-1.7945u
Al 308.215	188.111	199.470	190.566
As 188.980	-0.6009	9.1753	-1.2250u
B 249.678	7.2116	8.8653	6.3216
Ba 389.178	124.862	125.191	122.051
Be 313.042	0.0605	0.0558	0.0716
Ca 370.602	58799	49770	58991
Cd 226.502	0.8616	0.7929	0.8198
Co 228.615	5.3624	5.6099	3.2914
Cr 267.716	0.7477	0.9603	0.6022
Cu 324.754	0.2155	-0.4742u	0.2157
Fe 271.441	2566.98	2605.04	2527.85
K 766.491	5034.54	5119.90	5067.78
Mg 279.078	11175.7	11279.1	11061.9
Mn 257.610	10753.2	11061.2	10695.6
Mo 202.032	3.4300	2.3416	2.8964
Na 330.237	13539.8	13728.2	13572.3
Ni 231.604	3.9452	1.8808	3.1225
Pb 220.353	6.0640	15.1269	12.2000
Sb 206.834	4.6076	10.6459	0.2317
Se 196.026	3.8251	0.6730	19.5555
Sn 189.925	-7.8689u	-7.4861u	1.7833
Sr 216.596	246.246	247.688	242.495
Ti 334.941	3.5383	3.6814	3.4541
Tl 190.794	3.6894u	-3.1337u	-1.0560u
V 292.401	0.0248	-0.1938u	-0.4288u
Zn 206.200	30.1340	31.6867	30.9508

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7936	ppb	0.2061	11.5	-173.869
Al 308.215	192.716	ppb	5.9766	3.1	435.152
As 188.980	2.4498	ppb	5.8328	238.1	-9.0191
B 249.678	7.4662	ppb	1.2908	17.3	258.956
Ba 389.178	124.035	ppb	1.7255	1.4	3274.54
Be 313.042	0.0626	ppb	0.0081	13.0	-290.768
Ca 370.602	55853	ppb	5269	9.4	196021
Cd 226.502	0.8248	ppb	0.0346	4.2	89.7422
Co 228.615	4.7546	ppb	1.2731	26.8	78.3060
Cr 267.716	0.7701	ppb	0.1801	23.4	83.2138
Cu 324.754	-0.0143	ppb	0.3982	2779.6	296.384
Fe 271.441	2566.62	ppb	38.5932	1.5	5343.51
K 766.491	5074.07	ppb	43.0282	0.8	212958
Mg 279.078	11172.3	ppb	108.656	1.0	29326.6
Mn 257.610	10836.7	ppb	196.582	1.8	773438
Mo 202.032	2.8893	ppb	0.5442	18.8	42.0794
Na 330.237	13613.4	ppb	100.670	0.7	833.381
Ni 231.604	2.9828	ppb	1.0393	34.8	10.7810
Pb 220.353	11.1303	ppb	4.6252	41.6	57.2270
Sb 206.834	5.1617	ppb	5.2291	101.3	3.1052
Se 196.026	8.0179	ppb	10.1154	126.2	18.1944
Sn 189.925	-4.5239	ppb	5.4656	120.8	-21.6689
Sr 216.596	245.476	ppb	2.6810	1.1	3606.71
Ti 334.941	3.5580	ppb	0.1149	3.2	1211.93
Tl 190.794	-0.1668	ppb	3.4974	2097.3	-29.7845
V 292.401	-0.1992	ppb	0.2268	113.8	-17.0424
Zn 206.200	30.9238	ppb	0.7767	2.5	674.710

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90281-a-1-a (Samp) 5/17/2013, 6:03:08 AM Rack 3, Tube 40

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4867u	-0.3269u	-0.6834u
Al 308.215	101.712	103.094	93.8749
As 188.980	7.2483	2.9595	-2.5236u
B 249.678	351.084	353.626	351.430
Ba 389.178	328.940	326.235	322.494
Be 313.042	-0.0217u	-0.0195u	-0.0059
Ca 370.602	115480	116708	117532
Cd 226.502	0.9698	0.4291	0.5649
Co 228.615	-1.5236u	-1.4380u	-1.5872u
Cr 267.716	-0.1795	0.1223	-0.2660u
Cu 324.754	-0.5634u	-0.3453u	0.4475
Fe 271.441	11358.4	11327.4	11272.6
K 766.491	36550.0	36395.7	36271.5
Mg 279.078	55568.6	55669.1	55339.3
Mn 257.610	1235.01	1238.04	1240.22
Mo 202.032	3.4823	2.9676	2.2355
Na 330.237	209443x	199552x	206190x
Ni 231.604	-0.1599u	0.5524	4.8924
Pb 220.353	12.2402	7.2033	11.3217
Sb 206.834	3.5129	-2.5003u	-7.2808u
Se 196.026	4.5188	-3.4947u	19.7166
Sn 189.925	-1.7481u	-0.1437	0.6905
Sr 216.596	962.748	959.181	955.052
Ti 334.941	-0.2676	-0.1829	-0.1897
Tl 190.794	-9.6622u	-5.7672u	-4.1647u
V 292.401	0.5714	0.7984	0.5921
Zn 206.200	3.2269	0.8217	3.2141

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4990b	ppb	0.1786	35.8	-134.401
Al 308.215	99.5603b	ppb	4.9720	5.0	216.507
As 188.980	2.5614b	ppb	4.8981	191.2	-8.2672
B 249.678	352.047b	ppb	1.3786	0.4	5666.44
Ba 389.178	325.889b	ppb	3.2369	1.0	8740.09
Be 313.042	-0.0157b	ppb	0.0086	54.7	-461.675
Ca 370.602	116573b	ppb	1033	0.9	408167
Cd 226.502	0.6546b	ppb	0.2813	43.0	119.983
Co 228.615	-1.5162b	ppb	0.0749	4.9	-19.9366
Cr 267.716	-0.1077b	ppb	0.2039	189.2	10.0131
Cu 324.754	-0.1537b	ppb	0.5320	346.1	292.035
Fe 271.441	11319.5b	ppb	43.4355	0.4	23454.7
K 766.491	36405.7b	ppb	139.533	0.4	1526214
Mg 279.078	55525.6b	ppb	169.031	0.3	146185
Mn 257.610	1237.76b	ppb	2.6180	0.2	88616.8
Mo 202.032	2.8951b	ppb	0.6265	21.6	41.5627
Na 330.237	205062xb	ppb	5040.93	2.5	11525.4
Ni 231.604	1.7616b	ppb	2.7346	155.2	6.6777
Pb 220.353	10.2551b	ppb	2.6825	26.2	53.6862
Sb 206.834	-2.0894b	ppb	5.4086	258.9	-5.4292
Se 196.026	6.9136b	ppb	11.7895	170.5	15.8751
Sn 189.925	-0.4004b	ppb	1.2394	309.5	-16.8589
Sr 216.596	958.994b	ppb	3.8515	0.4	14021.1
Ti 334.941	-0.2134b	ppb	0.0470	22.0	182.961
Tl 190.794	-6.5314b	ppb	2.8273	43.3	-28.8724
V 292.401	0.6540b	ppb	0.1255	19.2	9.4360
Zn 206.200	2.4209b	ppb	1.3849	57.3	13.2190

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680-90281-a-2-a (Samp) 5/17/2013, 6:08:35 AM Rack 3, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.3274u	-0.8411u	-0.3133u
Al 308.215	76.4308	88.5535	97.5035
As 188.980	9.0732	4.0503	3.2391
B 249.678	333.211	337.023	337.191
Ba 389.178	314.638	303.920	304.915
Be 313.042	-0.0365u	-0.0657u	-0.0457u
Ca 370.602	175773	173577	174161
Cd 226.502	0.4140	0.2324	0.7263
Co 228.615	-0.4172u	-0.8468u	-0.7722u
Cr 267.716	0.2572	-0.2392u	0.4881
Cu 324.754	-0.1866u	-0.4585u	0.4772
Fe 271.441	10771.6	10777.7	10737.8
K 766.491	34006.7	34191.1	34392.8
Mg 279.078	53765.4	53398.9	53381.5
Mn 257.610	1079.01	1085.80	1080.70
Mo 202.032	2.9781	2.8054	2.5105
Na 330.237	198044x	194567x	196374x
Ni 231.604	5.5078	4.2537	3.1780
Pb 220.353	10.1280	3.2303	12.5026
Sb 206.834	13.7988	5.8924	3.5082
Se 196.026	23.7252	8.5956	-1.4000u
Sn 189.925	-2.5670u	-5.4931u	3.8795
Sr 216.596	901.035	900.471	897.038
Ti 334.941	-0.2757	-0.3961	-0.2997
Tl 190.794	-8.8758u	-6.9938u	-7.8277u
V 292.401	0.3847	-0.0972u	-0.3469u
Zn 206.200	8.3973	6.6890	7.8533

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8273b	ppb	0.5072	61.3	-159.127
Al 308.215	87.4959b	ppb	10.5761	12.1	188.197
As 188.980	5.4542b	ppb	3.1603	57.9	-5.5908
B 249.678	335.808b	ppb	2.2508	0.7	5412.04
Ba 389.178	307.824b	ppb	5.9215	1.9	8257.12
Be 313.042	-0.0493b	ppb	0.0150	30.4	-508.007
Ca 370.602	174504b	ppb	1138	0.7	611597
Cd 226.502	0.4576b	ppb	0.2498	54.6	107.432
Co 228.615	-0.6788b	ppb	0.2295	33.8	-6.8591
Cr 267.716	0.1687b	ppb	0.3716	220.3	25.8089
Cu 324.754	-0.0560b	ppb	0.4813	860.0	296.906
Fe 271.441	10762.4b	ppb	21.5281	0.2	22302.0
K 766.491	34196.8b	ppb	193.084	0.6	1433630
Mg 279.078	53515.2b	ppb	216.783	0.4	140893
Mn 257.610	1081.84b	ppb	3.5316	0.3	77485.1
Mo 202.032	2.7647b	ppb	0.2365	8.6	40.4809
Na 330.237	196328xb	ppb	1738.87	0.9	11037.7
Ni 231.604	4.3132b	ppb	1.1660	27.0	15.7893
Pb 220.353	8.6203b	ppb	4.8165	55.9	49.9536
Sb 206.834	7.7331b	ppb	5.3866	69.7	6.4484
Se 196.026	10.3069b	ppb	12.6497	122.7	18.0359
Sn 189.925	-1.3935b	ppb	4.7952	344.1	-17.9543
Sr 216.596	899.515b	ppb	2.1632	0.2	13162.5
Ti 334.941	-0.3239b	ppb	0.0637	19.7	134.748
Tl 190.794	-7.8991b	ppb	0.9431	11.9	-30.2732
V 292.401	-0.0198b	ppb	0.3719	1879.9	-12.2090
Zn 206.200	7.6465b	ppb	0.8727	11.4	23.3012

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680-90332-c-1-a (Samp) 5/17/2013, 6:14:02 AM Rack 3, Tube 42

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8450u	-0.7453u	-1.1151u
Al 308.215	70.2930	77.3368	81.3963
As 188.980	5.8354	-0.6599	14.8801
B 249.678	20.2622	19.5231	18.9262
Ba 389.178	118.462	118.629	120.211
Be 313.042	-0.0732u	-0.0588u	-0.0781u
Ca 370.602	166773	165896	165117
Cd 226.502	0.6637	0.4064	0.3300
Co 228.615	0.5288	-1.8362u	-1.1777u
Cr 267.716	0.3290	0.4088	0.3736
Cu 324.754	0.9356	-0.9727u	-1.2960u
Fe 271.441	21.9367	2.2854	5.0088
K 766.491	1069.62	1070.69	1062.39
Mg 279.078	86853.4	86444.6	86413.0
Mn 257.610	-0.9506	-1.9575	-1.2995
Mo 202.032	4.9059	4.4428	2.7261
Na 330.237	16758.2	17877.5	17909.0
Ni 231.604	0.9806	1.5483	1.5809
Pb 220.353	5.5012	7.0663	3.8099
Sb 206.834	-1.8033u	1.7191	3.6039
Se 196.026	-12.1721u	-16.0088u	-7.6624u
Sn 189.925	0.1459	-4.0969u	-2.2728u
Sr 216.596	196.727	195.947	195.829
Ti 334.941	-0.8662	-0.9946	-0.9181
Tl 190.794	-15.2519u	-8.5042u	-13.5577u
V 292.401	0.4123	-0.3495u	0.4980
Zn 206.200	10.0561	8.1498	7.2142

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9018	ppb	0.1913	21.2	-124.904
Al 308.215	76.3420	ppb	5.6181	7.4	162.112
As 188.980	6.6852	ppb	7.8048	116.7	-4.8840
B 249.678	19.5705	ppb	0.6692	3.4	453.748
Ba 389.178	119.101	ppb	0.9650	0.8	3375.59
Be 313.042	-0.0700	ppb	0.0101	14.4	-535.310
Ca 370.602	165929	ppb	828.3	0.5	582505
Cd 226.502	0.4667	ppb	0.1748	37.5	62.2141
Co 228.615	-0.8283	ppb	1.2206	147.4	-8.7678
Cr 267.716	0.3705	ppb	0.0400	10.8	27.2820
Cu 324.754	-0.4444	ppb	1.2060	271.4	273.195
Fe 271.441	9.7436	ppb	10.6470	109.3	51.4975
K 766.491	1067.57	ppb	4.5133	0.4	45026.1
Mg 279.078	86570.3	ppb	245.648	0.3	227915
Mn 257.610	-1.4026	ppb	0.5113	36.5	266.569
Mo 202.032	4.0249	ppb	1.1484	28.5	52.0489
Na 330.237	17514.9	ppb	655.520	3.7	1052.44
Ni 231.604	1.3699	ppb	0.3376	24.6	4.9302
Pb 220.353	5.4591	ppb	1.6286	29.8	42.5643
Sb 206.834	1.1733	ppb	2.7446	233.9	-1.8411
Se 196.026	-11.9477	ppb	4.1777	35.0	3.4541
Sn 189.925	-2.0746	ppb	2.1283	102.6	-18.8168
Sr 216.596	196.168	ppb	0.4878	0.2	2902.49
Ti 334.941	-0.9263	ppb	0.0646	7.0	134.604
Tl 190.794	-12.4379	ppb	3.5104	28.2	-33.5773
V 292.401	0.1869	ppb	0.4665	249.6	-3.9161
Zn 206.200	8.4734	ppb	1.4483	17.1	23.3639

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680-90332-c-2-a (Samp) **5/17/2013, 6:19:29 AM** **Rack 3, Tube 43**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8530u	-1.4198u	-1.1194u
Al 308.215	87.9664	73.5614	90.9299
As 188.980	1.1087	-2.2899u	-3.2533u
B 249.678	20.6117	20.8988	19.9099
Ba 389.178	148.166	146.906	144.217
Be 313.042	-0.0479u	-0.0433u	-0.0232
Ca 370.602	134723	136120	133300
Cd 226.502	0.4510	0.3964	0.8680
Co 228.615	0.6620	0.0058u	-0.3409u
Cr 267.716	0.5840	0.5350	-0.0450u
Cu 324.754	1.5151	-0.0865u	0.4061
Fe 271.441	20.9803	16.1099	15.1576
K 766.491	2012.62	2002.12	1972.71
Mg 279.078	87792.1	87456.5	86277.8
Mn 257.610	6.3157	5.9436	5.6031
Mo 202.032	3.5969	3.5604	3.4693
Na 330.237	15674.7	15038.5	14799.3
Ni 231.604	3.3453	2.7525	3.7060
Pb 220.353	-0.3328u	9.2514	6.7510
Sb 206.834	-10.7564u	0.1805	-5.2414u
Se 196.026	-3.0199u	18.1112	11.8200
Sn 189.925	-2.3187u	4.8583	2.4598
Sr 216.596	290.805	288.088	282.937
Ti 334.941	-1.0711	-1.1570	-1.0563
Tl 190.794	-11.1280u	-12.6334u	-12.5353u
V 292.401	-0.3487u	-0.0549u	-0.2289u
Zn 206.200	7.8230	10.5673	9.7692

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1307	ppb	0.2836	25.1	-151.107
Al 308.215	84.1526	ppb	9.2911	11.0	180.412
As 188.980	-1.4782	ppb	2.2915	155.0	-10.9826
B 249.678	20.4735	ppb	0.5087	2.5	467.953
Ba 389.178	146.430	ppb	2.0169	1.4	4096.77
Be 313.042	-0.0381	ppb	0.0131	34.5	-477.503
Ca 370.602	134714	ppb	1410	1.0	472926
Cd 226.502	0.5718	ppb	0.2580	45.1	67.3667
Co 228.615	0.1090	ppb	0.5093	467.3	5.8591
Cr 267.716	0.3580	ppb	0.3499	97.7	26.5239
Cu 324.754	0.6116	ppb	0.8203	134.1	328.135
Fe 271.441	17.4159	ppb	3.1233	17.9	67.5445
K 766.491	1995.82	ppb	20.6874	1.0	83933.5
Mg 279.078	87175.5	ppb	795.332	0.9	229507
Mn 257.610	5.9541	ppb	0.3564	6.0	793.122
Mo 202.032	3.5422	ppb	0.0657	1.9	47.8808
Na 330.237	15170.8	ppb	452.447	3.0	921.487
Ni 231.604	3.2680	ppb	0.4814	14.7	11.7234
Pb 220.353	5.2232	ppb	4.9714	95.2	42.0293
Sb 206.834	-5.2724	ppb	5.4686	103.7	-9.6353
Se 196.026	8.9705	ppb	10.8499	121.0	16.8852
Sn 189.925	1.6665	ppb	3.6537	219.2	-14.5841
Sr 216.596	287.277	ppb	3.9962	1.4	4226.31
Ti 334.941	-1.0948	ppb	0.0544	5.0	81.9385
Tl 190.794	-12.0989	ppb	0.8422	7.0	-33.2109
V 292.401	-0.2108	ppb	0.1477	70.1	-16.5313
Zn 206.200	9.3865	ppb	1.416	15.0	251.436

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680-90332-c-3-a (Samp) 5/17/2013, 6:24:56 AM Rack 3, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7140u	0.1860	-1.0884u
Al 308.215	88.0193	106.374	118.858
As 188.980	7.8992	-1.1931	0.0044
B 249.678	9.7869	9.0123	7.7917
Ba 389.178	71.4071	71.0337	71.4801
Be 313.042	-0.0552u	-0.0499u	-0.0486u
Ca 370.602	105777	105796	105501
Cd 226.502	0.4859	0.2640	0.3523
Co 228.615	-0.0861u	-0.4573u	-1.3868u
Cr 267.716	9.5927	9.7489	9.8070
Cu 324.754	0.0563	-1.7683u	-0.0189u
Fe 271.441	8.4422	6.0973	9.0538
K 766.491	861.303	853.753	857.294
Mg 279.078	59569.6	58830.6	59144.4
Mn 257.610	-0.2705	-0.4941	-0.5417
Mo 202.032	3.9464	3.3497	3.6182
Na 330.237	10673.7	11485.5	11591.4
Ni 231.604	2.6267	3.5710	2.1741
Pb 220.353	14.1216	2.2593	7.8701
Sb 206.834	2.2960	5.5527	7.7506
Se 196.026	5.0893	5.9116	-1.9129u
Sn 189.925	-1.0574u	-0.5800u	-2.7619u
Sr 216.596	146.788	143.097	142.135
Ti 334.941	-0.6916	-0.6410	-0.7018
Tl 190.794	-4.1936u	-4.9023u	-7.2419u
V 292.401	0.5892	-0.0067u	0.4523
Zn 206.200	12.2864	10.3226	11.3365

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5388	ppb	0.6550	121.6	-88.7149
Al 308.215	104.417	ppb	15.5123	14.9	227.935
As 188.980	2.2369	ppb	4.9402	220.9	-8.6641
B 249.678	8.8636	ppb	1.0059	11.3	285.263
Ba 389.178	71.3070	ppb	0.2395	0.3	2032.53
Be 313.042	-0.0512	ppb	0.0035	6.8	-517.474
Ca 370.602	105691	ppb	165.1	0.2	371041
Cd 226.502	0.3674	ppb	0.1117	30.4	56.9651
Co 228.615	-0.6434	ppb	0.6700	104.1	-5.7970
Cr 267.716	9.7162	ppb	0.1108	1.1	580.350
Cu 324.754	-0.5769	ppb	1.0324	178.9	266.260
Fe 271.441	7.8644	ppb	1.5606	19.8	47.6665
K 766.491	857.450	ppb	3.7775	0.4	36219.1
Mg 279.078	59181.5	ppb	370.943	0.6	155819
Mn 257.610	-0.4354	ppb	0.1448	33.3	262.978
Mo 202.032	3.6381	ppb	0.2988	8.2	48.7082
Na 330.237	11250.2	ppb	502.112	4.5	702.457
Ni 231.604	2.7906	ppb	0.7127	25.5	10.0148
Pb 220.353	8.0836	ppb	5.9340	73.4	48.5406
Sb 206.834	5.1998	ppb	2.7444	52.8	3.1676
Se 196.026	3.0293	ppb	4.2998	141.9	13.0694
Sn 189.925	-1.4664	ppb	1.1470	78.2	-18.1649
Sr 216.596	144.007	ppb	2.4561	1.7	2133.48
Ti 334.941	-0.6781	ppb	0.0326	4.8	62.8450
Tl 190.794	-5.4459	ppb	1.5952	29.3	-25.8897
V 292.401	0.3449	ppb	0.3121	90.5	0.4253
Zn 206.200	11.3152	ppb	0.9821	8.7	28.8651

680-90332-c-4-a (Samp) 5/17/2013, 6:30:23 AM Rack 3, Tube 45

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2124u	-0.9881u	-0.8755u
Al 308.215	98.5497	92.8877	86.2023
As 188.980	-1.7255	1.4298	9.9001
B 249.678	11.4010	11.9514	9.8957
Ba 389.178	129.094	129.228	125.084
Be 313.042	-0.0587u	-0.0640u	-0.0623u
Ca 370.602	136244	136138	133739
Cd 226.502	0.4027	0.2745	0.4118
Co 228.615	-0.7049u	-0.8246u	-1.8360u
Cr 267.716	0.8056	0.7042	0.4993
Cu 324.754	-0.3005u	-1.1129u	-1.9774u
Fe 271.441	16.3846	15.8245	10.5697
K 766.491	1167.16	1146.53	1114.41
Mg 279.078	97909.2	97437.5	96631.6
Mn 257.610	-2.3255	-2.1299	-2.6150
Mo 202.032	2.9734	3.5775	3.2989
Na 330.237	24204.1	24567.5	23627.1
Ni 231.604	3.5927	4.4241	4.1469
Pb 220.353	7.3640	2.5352	8.2905
Sb 206.834	-7.3330u	-2.1716u	-6.2639u
Se 196.026	11.3176	-0.7822u	-9.5646u
Sn 189.925	-0.0040	1.4055	-1.1393u
Sr 216.596	247.088	247.256	244.101
Ti 334.941	-1.2813	-1.2693	-1.2138
Tl 190.794	-17.3261u	-9.3093u	-1.3216u
V 292.401	0.2941	-0.1610u	-0.3297u
Zn 206.200	5.8315	5.9516	6.8859

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6920	ppb	0.4191	60.6	-109.474
Al 308.215	92.5466	ppb	6.1808	6.7	200.089
As 188.980	3.2015	ppb	6.0119	187.8	-7.6962
B 249.678	11.0827	ppb	1.0642	9.6	320.186
Ba 389.178	127.802	ppb	2.3546	1.8	3638.16
Be 313.042	-0.0617	ppb	0.0027	4.4	-532.114
Ca 370.602	135374	ppb	1417	1.0	475241
Cd 226.502	0.3630	ppb	0.0768	21.1	57.3118
Co 228.615	-1.1218	ppb	0.6214	55.4	-13.2990
Cr 267.716	0.6697	ppb	0.1560	23.3	45.1325
Cu 324.754	-1.1303	ppb	0.8386	74.2	237.475
Fe 271.441	14.2596	ppb	3.2078	22.5	60.7911
K 766.491	1142.70	ppb	26.5814	2.3	48175.2
Mg 279.078	97326.1	ppb	646.064	0.7	256227
Mn 257.610	-2.3568	ppb	0.2440	10.4	226.808
Mo 202.032	3.2833	ppb	0.3024	9.2	45.6455
Na 330.237	24132.9	ppb	474.215	2.0	1422.16
Ni 231.604	4.0546	ppb	0.4233	10.4	14.5386
Pb 220.353	6.0632	ppb	3.0903	51.0	43.9414
Sb 206.834	-5.2562	ppb	2.7243	51.8	-9.6062
Se 196.026	0.3236	ppb	10.4849	3240.2	11.3322
Sn 189.925	0.0874	ppb	1.2749	1458.7	-16.3768
Sr 216.596	246.149	ppb	1.7750	0.7	3626.25
Ti 334.941	-1.2548	ppb	0.0360	2.9	84.9733
Tl 190.794	-9.3190	ppb	8.0023	85.9	-30.1474
V 292.401	-0.0655	ppb	0.3227	492.4	-11.7131
Zn 206.200	6.2230	ppb	0.5772	9.3	18.9786

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680-90332-c-5-a (Samp) **5/17/2013, 6:35:50 AM** **Rack 3, Tube 46**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.1005u	-1.1883u	-0.0984u
Al 308.215	101.262	120.950	110.622
As 188.980	11.2397	-2.9606u	5.7671
B 249.678	30.5326	29.7090	30.7307
Ba 389.178	54.2827	55.9843	55.4493
Be 313.042	-0.0599u	-0.0651u	-0.0586u
Ca 370.602	99271	101374	102313
Cd 226.502	0.5109	0.5124	0.4688
Co 228.615	-1.4219u	-0.3646u	-0.0060u
Cr 267.716	3.3350	3.5123	3.6035
Cu 324.754	-1.7805u	-1.1388u	-0.6908u
Fe 271.441	20.0489	25.3470	-0.3604u
K 766.491	1188.75	1203.58	1211.07
Mg 279.078	32696.1	33137.2	33599.5
Mn 257.610	13.3396	12.7016	12.8462
Mo 202.032	2.1069	2.6979	2.5385
Na 330.237	8822.35	8819.64	9251.89
Ni 231.604	0.3491	3.6634	2.4620
Pb 220.353	6.1577	7.6851	4.1879
Sb 206.834	0.4244	6.9704	0.4592
Se 196.026	-4.3287u	16.4381	-10.7498u
Sn 189.925	-1.3837u	1.8128	-1.5935u
Sr 216.596	145.517	145.782	146.063
Ti 334.941	-0.2278	-0.1413	-0.3987
Tl 190.794	-14.2539u	-1.1397u	-9.5393u
V 292.401	1.2154	0.2740	0.0430
Zn 206.200	3.3997	7.8020	3.9887

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1291	ppb	1.0024	88.8	-140.625
Al 308.215	110.945	ppb	9.8476	8.9	243.262
As 188.980	4.6820	ppb	7.1621	153.0	-7.0047
B 249.678	30.3241	ppb	0.5419	1.8	622.960
Ba 389.178	55.2388	ppb	0.8701	1.6	1528.37
Be 313.042	-0.0612	ppb	0.0034	5.6	-541.038
Ca 370.602	100986	ppb	1558	1.5	354525
Cd 226.502	0.4973	ppb	0.0248	5.0	62.8522
Co 228.615	-0.5975	ppb	0.7361	123.2	-5.1155
Cr 267.716	3.4836	ppb	0.1365	3.9	211.416
Cu 324.754	-1.2033	ppb	0.5477	45.5	233.665
Fe 271.441	15.0118	ppb	13.5737	90.4	62.4513
K 766.491	1201.13	ppb	11.3572	0.9	50624.4
Mg 279.078	33144.3	ppb	451.762	1.4	87281.2
Mn 257.610	12.9625	ppb	0.3345	2.6	1150.05
Mo 202.032	2.4477	ppb	0.3058	12.5	38.4292
Na 330.237	8964.63	ppb	248.779	2.8	574.830
Ni 231.604	2.1582	ppb	1.6779	77.7	7.7515
Pb 220.353	6.0102	ppb	1.7533	29.2	43.8234
Sb 206.834	2.6180	ppb	3.7694	144.0	-0.0367
Se 196.026	0.4532	ppb	14.2107	3135.6	11.4182
Sn 189.925	-0.3881	ppb	1.9089	491.8	-16.9454
Sr 216.596	145.787	ppb	0.2731	0.2	2158.30
Ti 334.941	-0.2559	ppb	0.1310	51.2	56.5391
Tl 190.794	-8.3110	ppb	6.6428	79.9	-29.0526
V 292.401	0.5108	ppb	0.6210	121.6	5.8013
Zn 206.200	5.0635	ppb	2.3898	47.3	16.7091

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680-0/0-a (Samp) **5/17/2013, 6:41:17 AM** **Rack 3, Tube 47**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.5124	42.0755	43.4255
Al 308.215	3757.75	3781.34	3760.24
As 188.980	159.637	152.742	143.301
B 249.678	202.800	203.523	204.635
Ba 389.178	110.109	110.669	111.059
Be 313.042	50.7075	50.0458	50.1060
Ca 370.602	5121	5107	5103
Cd 226.502	74.4443	74.8694	74.2880
Co 228.615	62.6791	62.2865	62.6995
Cr 267.716	113.143	113.662	113.555
Cu 324.754	85.5622	72.0339	69.0471
Fe 271.441	5333.88	5334.20	5341.63
K 766.491	7704.91	7721.90	7622.10
Mg 279.078	6350.33	6371.21	6335.60
Mn 257.610	873.553	901.906	894.311
Mo 202.032	106.498	105.193	105.837
Na 330.237	6976.78	6070.54	6735.89
Ni 231.604	126.837	129.532	126.831
Pb 220.353	83.4430	85.8455	79.8245
Sb 206.834	59.3369	58.4108	54.8348
Se 196.026	149.927	153.254	156.463
Sn 189.925	286.001	284.331	290.143
Sr 216.596	128.599	127.764	127.605
Ti 334.941	89.0405	89.5930	89.2289
Tl 190.794	56.7201	55.7315	52.7106
V 292.401	117.398	114.636	108.522
Zn 206.200	187.754	188.130	191.403

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.3378	ppb	6.2500	13.5	4081.95
Al 308.215	3766.44	ppb	12.9603	0.3	8828.36
As 188.980	151.894	ppb	8.2010	5.4	96.6852
B 249.678	203.653	ppb	0.9241	0.5	3341.46
Ba 389.178	110.612	ppb	0.4777	0.4	2912.15
Be 313.042	50.2864	ppb	0.3659	0.7	109162
Ca 370.602	5111	ppb	9.238	0.2	17474
Cd 226.502	74.5339	ppb	0.3009	0.4	3684.99
Co 228.615	62.5550	ppb	0.2328	0.4	976.676
Cr 267.716	113.454	ppb	0.2742	0.2	6723.16
Cu 324.754	75.5477	ppb	8.8004	11.6	4231.87
Fe 271.441	5336.57	ppb	4.3853	0.1	11087.6
K 766.491	7682.97	ppb	53.3981	0.7	322309
Mg 279.078	6352.38	ppb	17.8942	0.3	16746.3
Mn 257.610	889.923	ppb	14.6770	1.6	63660.7
Mo 202.032	105.843	ppb	0.6525	0.6	930.639
Na 330.237	6594.40	ppb	469.397	7.1	438.283
Ni 231.604	127.733	ppb	1.5578	1.2	457.353
Pb 220.353	83.0377	ppb	3.0309	3.7	219.120
Sb 206.834	57.5275	ppb	2.3775	4.1	66.5543
Se 196.026	153.215	ppb	3.2683	2.1	109.698
Sn 189.925	286.825	ppb	2.9919	1.0	309.362
Sr 216.596	127.989	ppb	0.5339	0.4	1878.97
Ti 334.941	89.2875	ppb	0.2809	0.3	29967.2
Tl 190.794	55.0540	ppb	2.0888	3.8	39.5110
V 292.401	113.519	ppb	4.5423	4.0	3604.30
Zn 206.200	189.096	ppb	2.0972	1.1	375.600

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680-0/0-a (Samp) **5/17/2013, 6:46:44 AM** **Rack 3, Tube 48**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.0331	49.0305	48.6031
Al 308.215	4264.97	4098.77	4068.26
As 188.980	156.418	151.543	153.839
B 249.678	218.238	213.900	217.657
Ba 389.178	113.398	109.498	108.516
Be 313.042	54.5413	52.2942	52.8204
Ca 370.602	5571	5335	5290
Cd 226.502	78.1229	75.2714	76.1511
Co 228.615	56.1299	46.0930	41.7237
Cr 267.716	122.580	118.305	118.077
Cu 324.754	87.6728	82.9239	85.3560
Fe 271.441	5771.00	5571.30	5581.51
K 766.491	8259.97	7938.59	8045.03
Mg 279.078	6789.73	6511.98	6483.11
Mn 257.610	866.764	799.074	816.214
Mo 202.032	115.014	111.378	111.606
Na 330.237	6570.98	6336.15	6347.25
Ni 231.604	136.303	135.192	137.994
Pb 220.353	83.5234	84.2820	79.0242
Sb 206.834	68.8005	54.3113	62.1877
Se 196.026	163.607	153.541	159.236
Sn 189.925	292.706	290.616	286.555
Sr 216.596	134.957	129.903	128.000
Ti 334.941	97.5117	94.4833	94.3608
Tl 190.794	54.0221	54.5307	57.4295
V 292.401	112.504	109.720	109.878
Zn 206.200	195.808	186.943	188.051

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.5556	ppb	1.2973	2.6	4367.79
Al 308.215	4144.00	ppb	105.864	2.6	9714.79
As 188.980	153.933	ppb	2.4392	1.6	98.1372
B 249.678	216.598	ppb	2.3549	1.1	3544.77
Ba 389.178	110.471	ppb	2.5824	2.3	2909.62
Be 313.042	53.2186	ppb	1.1753	2.2	115554
Ca 370.602	5398	ppb	150.8	2.8	18463
Cd 226.502	76.5152	ppb	1.4602	1.9	3782.37
Co 228.615	47.9822	ppb	7.3866	15.4	749.585
Cr 267.716	119.654	ppb	2.5366	2.1	7090.30
Cu 324.754	85.3176	ppb	2.3747	2.8	4740.56
Fe 271.441	5641.27	ppb	112.465	2.0	11715.4
K 766.491	8081.20	ppb	163.712	2.0	339000
Mg 279.078	6594.94	ppb	169.312	2.6	17384.7
Mn 257.610	827.350	ppb	35.1924	4.3	59196.5
Mo 202.032	112.666	ppb	2.0362	1.8	989.547
Na 330.237	6418.12	ppb	132.489	2.1	428.299
Ni 231.604	136.496	ppb	1.4110	1.0	488.724
Pb 220.353	82.2765	ppb	2.8420	3.5	217.385
Sb 206.834	61.7665	ppb	7.2537	11.7	71.7037
Se 196.026	158.795	ppb	5.0475	3.2	113.283
Sn 189.925	289.959	ppb	3.1278	1.1	312.923
Sr 216.596	130.953	ppb	3.5955	2.7	1921.93
Ti 334.941	95.4520	ppb	1.7849	1.9	32038.2
Tl 190.794	55.3274	ppb	1.8381	3.3	39.7792
V 292.401	110.701	ppb	1.5634	1.4	3512.18
Zn 206.200	190.268	ppb	4.8304	2.5	377.893

680-0/0-a (Samp) 5/17/2013, 7:03:17 AM Rack 3, Tube 51
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	60.5888	61.1113	58.7712
Al 308.215	3669.20	3702.25	3582.22
As 188.980	162.872	145.160	138.283
B 249.678	213.140	215.865	211.738
Ba 389.178	111.583	113.175	111.457
Be 313.042	50.7180	51.1551	49.6374
Ca 370.602	5177	5200	5102
Cd 226.502	77.1863	77.5274	75.3373
Co 228.615	64.4874	64.2259	62.6104
Cr 267.716	117.476	118.603	114.921
Cu 324.754	97.7277	97.3491	93.8832
Fe 271.441	5450.57	5517.09	5346.02
K 766.491	8488.83	8323.09	7924.13
Mg 279.078	6517.23	6591.13	6393.71
Mn 257.610	957.285	975.817	926.108
Mo 202.032	107.229	107.299	102.366
Na 330.237	7305.48	7475.13	7588.19
Ni 231.604	132.219	129.639	127.912
Pb 220.353	85.2864	85.1264	78.9281
Sb 206.834	49.9114	56.2197	53.9341
Se 196.026	164.121	141.581	156.433
Sn 189.925	290.444	299.486	286.638
Sr 216.596	130.847	131.132	128.082
Ti 334.941	90.6206	91.9745	89.2062
Tl 190.794	52.5779	52.4367	54.9508
V 292.401	112.016	124.234	124.264
Zn 206.200	197.264	199.479	195.382

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.1571	ppb	1.2283	2.0	5309.60
Al 308.215	3651.22	ppb	62.0023	1.7	8557.98
As 188.980	148.772	ppb	12.6865	8.5	94.4662
B 249.678	213.581	ppb	2.0986	1.0	3497.45
Ba 389.178	112.072	ppb	0.9579	0.9	2951.31
Be 313.042	50.5035	ppb	0.7812	1.5	109635
Ca 370.602	5159	ppb	51.57	1.0	17632
Cd 226.502	76.6837	ppb	1.1784	1.5	3790.15
Co 228.615	63.7746	ppb	1.0166	1.6	995.656
Cr 267.716	117.000	ppb	1.8866	1.6	6933.06
Cu 324.754	96.3200	ppb	2.1188	2.2	5312.90
Fe 271.441	5437.89	ppb	86.2335	1.6	11297.5
K 766.491	8245.35	ppb	290.264	3.5	345881
Mg 279.078	6500.69	ppb	99.7457	1.5	17136.6
Mn 257.610	953.070	ppb	25.1214	2.6	68167.1
Mo 202.032	105.631	ppb	2.8279	2.7	928.788
Na 330.237	7456.27	ppb	142.298	1.9	486.287
Ni 231.604	129.924	ppb	2.1677	1.7	465.197
Pb 220.353	83.1137	ppb	3.6257	4.4	219.293
Sb 206.834	53.3551	ppb	3.1938	6.0	61.5312
Se 196.026	154.045	ppb	11.4584	7.4	110.234
Sn 189.925	292.189	ppb	6.5992	2.3	315.458
Sr 216.596	130.020	ppb	1.6850	1.3	1908.54
Ti 334.941	90.6004	ppb	1.3842	1.5	30408.8
Tl 190.794	53.3218	ppb	1.4125	2.6	37.5950
V 292.401	120.171	ppb	7.0629	5.9	3817.58
Zn 206.200	197.375	ppb	2.0598	1.0	391.738

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680-0/0-a (Samp) 5/17/2013, 7:08:44 AM Rack 3, Tube 52
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.0813	52.6767	51.7362
Al 308.215	4154.92	4093.66	3990.68
As 188.980	152.822	158.568	160.124
B 249.678	226.830	225.916	225.869
Ba 389.178	117.643	113.225	110.981
Be 313.042	54.0418	54.4442	53.0740
Ca 370.602	5631	5538	5286
Cd 226.502	78.4686	77.6059	76.9486
Co 228.615	60.1184	52.1750	42.9336
Cr 267.716	124.979	123.306	119.734
Cu 324.754	87.4411	87.9741	85.7085
Fe 271.441	5834.65	5758.03	5643.97
K 766.491	8437.35	8117.96	8269.18
Mg 279.078	6895.03	6745.76	6543.01
Mn 257.610	943.406	899.071	847.851
Mo 202.032	115.445	115.040	111.901
Na 330.237	6434.18	7030.08	6486.97
Ni 231.604	134.060	136.848	142.512
Pb 220.353	86.1488	83.1097	81.2394
Sb 206.834	57.3500	55.1089	47.4981
Se 196.026	161.093	159.708	167.094
Sn 189.925	301.784	298.315	300.276
Sr 216.596	138.220	135.062	130.667
Ti 334.941	99.6721	98.2526	95.5122
Tl 190.794	62.2633	54.6396	59.2880
V 292.401	116.082	114.526	112.369
Zn 206.200	193.657	193.013	192.924

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.4981	ppb	0.6901	1.3	4629.05
Al 308.215	4079.75	ppb	82.9991	2.0	9564.17
As 188.980	157.171	ppb	3.8461	2.4	100.442
B 249.678	226.205	ppb	0.5419	0.2	3695.69
Ba 389.178	113.950	ppb	3.3894	3.0	3001.88
Be 313.042	53.8534	ppb	0.7043	1.3	116937
Ca 370.602	5485	ppb	178.4	3.3	18753
Cd 226.502	77.6744	ppb	0.7623	1.0	3839.40
Co 228.615	51.7423	ppb	8.6006	16.6	808.094
Cr 267.716	122.673	ppb	2.6789	2.2	7269.09
Cu 324.754	87.0412	ppb	1.1846	1.4	4830.38
Fe 271.441	5745.55	ppb	95.9523	1.7	11931.9
K 766.491	8274.83	ppb	159.771	1.9	347116
Mg 279.078	6727.93	ppb	176.686	2.6	17734.4
Mn 257.610	896.776	ppb	47.8188	5.3	64151.0
Mo 202.032	114.129	ppb	1.9397	1.7	1002.16
Na 330.237	6650.41	ppb	329.862	5.0	441.170
Ni 231.604	137.807	ppb	4.3068	3.1	493.419
Pb 220.353	83.4993	ppb	2.4778	3.0	220.167
Sb 206.834	53.3190	ppb	5.1641	9.7	61.4704
Se 196.026	162.632	ppb	3.9263	2.4	115.754
Sn 189.925	300.125	ppb	1.7392	0.6	324.476
Sr 216.596	134.650	ppb	3.7933	2.8	1975.70
Ti 334.941	97.8123	ppb	2.1146	2.2	32831.4
Tl 190.794	58.7303	ppb	3.8423	6.5	43.4837
V 292.401	114.326	ppb	1.8648	1.6	3627.69
Zn 206.200	193.198	ppb	0.4000	0.2	382.613

mb 680-276886/1-a (Samp) 5/17/2013, 7:14:11 AM Rack 3, Tube 53
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0805u	-1.6158u	-0.9089u
Al 308.215	60.7784	87.9376	86.8926
As 188.980	-1.4359u	-2.6147u	-8.6663u
B 249.678	8.6692	10.4083	10.8389
Ba 389.178	2.6007	3.3353	2.8651
Be 313.042	0.0077	-0.0186u	-0.0323u
Ca 370.602	-17.53u	-29.04u	-22.18u
Cd 226.502	0.4239	1.0253	0.6124
Co 228.615	1.4703	-0.5510u	1.5822
Cr 267.716	-0.1993u	-0.1659u	0.4470
Cu 324.754	-0.5144u	-0.5797u	-0.2267u
Fe 271.441	5.2243	-0.7299u	1.5437
K 766.491	10.5617	12.7066	14.8848
Mg 279.078	27.7336	30.7411	31.9129
Mn 257.610	1.2455	1.3359	1.4553
Mo 202.032	3.1366	2.1117	2.4422
Na 330.237	-138.058u	207.710	553.110
Ni 231.604	1.0811	0.7958	3.5342
Pb 220.353	13.8180	10.4024	10.6926
Sb 206.834	-5.2370u	-9.5183u	0.1938
Se 196.026	4.0851	8.7730	12.4361
Sn 189.925	3.4070	-6.1735u	1.0020
Sr 216.596	1.1134	2.0545	2.5639
Ti 334.941	0.2884	-0.1210u	-0.0458u
Tl 190.794	-7.5435u	-7.3793u	-14.4309u
V 292.401	-0.4630u	0.2411	0.8297
Zn 206.200	3.3879	1.7062	2.4405

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2017	ppb	0.3687	30.7	-137.257
Al 308.215	78.5362	ppb	15.3876	19.6	167.177
As 188.980	-4.2390	ppb	3.8792	91.5	-14.4048
B 249.678	9.9721	ppb	1.1487	11.5	302.718
Ba 389.178	2.9337	ppb	0.3721	12.7	48.6932
Be 313.042	-0.0144	ppb	0.0203	141.4	-479.729
Ca 370.602	-22.91	ppb	5.790	25.3	-69.16
Cd 226.502	0.6872	ppb	0.3076	44.8	71.5331
Co 228.615	0.8339	ppb	1.2006	144.0	17.1854
Cr 267.716	0.0273	ppb	0.3639	1334.2	6.5977
Cu 324.754	-0.4403	ppb	0.1878	42.7	273.364
Fe 271.441	2.0127	ppb	3.0047	149.3	35.8052
K 766.491	12.7177	ppb	2.1616	17.0	812.353
Mg 279.078	30.1292	ppb	2.1558	7.2	115.168
Mn 257.610	1.3456	ppb	0.1053	7.8	233.154
Mo 202.032	2.5635	ppb	0.5231	20.4	39.4302
Na 330.237	207.587	ppb	345.584	166.5	85.6587
Ni 231.604	1.8037	ppb	1.5054	83.5	6.4825
Pb 220.353	11.6377	ppb	1.8938	16.3	56.6303
Sb 206.834	-4.8538	ppb	4.8674	100.3	-9.1169
Se 196.026	8.4314	ppb	4.1859	49.6	16.5374
Sn 189.925	-0.5882	ppb	4.9843	847.4	-17.2391
Sr 216.596	1.9106	ppb	0.7358	38.5	46.2129
Ti 334.941	0.0406	ppb	0.2179	537.4	-31.3712
Tl 190.794	-9.7846	ppb	4.0247	41.1	-30.6570
V 292.401	0.2026	ppb	0.6472	319.4	-4.1663
Zn 206.200	2.5115	ppb	0.8431	33.6	117.7492

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ics 680-276886/2-a (Samp) 5/17/2013, 7:19:38 AM Rack 3, Tube 54
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	52.0260	55.9685	53.3119
Al 308.215	3277.04	3319.16	3484.08
As 188.980	132.098	128.712	128.131
B 249.678	202.812	206.723	212.926
Ba 389.178	110.172	106.069	112.194
Be 313.042	48.4095	48.2683	49.5990
Ca 370.602	4821	4836	5105
Cd 226.502	70.2457	70.7794	73.3363
Co 228.615	60.5210	74.1726	74.9053
Cr 267.716	109.856	111.891	117.423
Cu 324.754	82.6310	88.1774	79.6354
Fe 271.441	5075.30	5184.52	5399.38
K 766.491	7202.44	7225.43	7845.98
Mg 279.078	5871.70	5980.52	6364.55
Mn 257.610	971.633	996.474	1057.11
Mo 202.032	97.3035	98.6392	104.380
Na 330.237	5451.05	5908.65	7047.86
Ni 231.604	119.766	115.546	122.722
Pb 220.353	79.1922	76.1854	78.6951
Sb 206.834	52.6800	48.5952	45.5530
Se 196.026	154.797	138.576	139.669
Sn 189.925	264.480	266.443	278.232
Sr 216.596	119.207	120.498	129.478
Ti 334.941	86.3740	88.4139	92.0395
Tl 190.794	52.2866	48.5424	63.5488
V 292.401	121.516	123.051	109.276
Zn 206.200	176.786	175.685	182.496

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.7688	ppb	2.0106	3.7	4742.40
Al 308.215	3360.09	ppb	109.422	3.3	7874.47
As 188.980	129.647	ppb	2.1427	1.7	80.8626
B 249.678	207.487	ppb	5.1001	2.5	3401.91
Ba 389.178	109.478	ppb	3.1211	2.9	2881.41
Be 313.042	48.7589	ppb	0.7309	1.5	105832
Ca 370.602	4921	ppb	159.7	3.2	16814
Cd 226.502	71.4538	ppb	1.6520	2.3	3534.98
Co 228.615	69.8663	ppb	8.1015	11.6	1090.75
Cr 267.716	113.057	ppb	3.9154	3.5	6699.69
Cu 324.754	83.4813	ppb	4.3340	5.2	4644.58
Fe 271.441	5219.73	ppb	164.882	3.2	10847.2
K 766.491	7424.62	ppb	365.095	4.9	311480
Mg 279.078	6072.26	ppb	258.913	4.3	16008.7
Mn 257.610	1008.41	ppb	43.9693	4.4	72114.5
Mo 202.032	100.107	ppb	3.7596	3.8	881.108
Na 330.237	6135.85	ppb	822.293	13.4	412.769
Ni 231.604	119.345	ppb	3.6067	3.0	427.329
Pb 220.353	78.0242	ppb	1.6117	2.1	207.712
Sb 206.834	48.9427	ppb	3.5762	7.3	56.1924
Se 196.026	144.347	ppb	9.0664	6.3	104.009
Sn 189.925	269.719	ppb	7.4383	2.8	289.923
Sr 216.596	123.061	ppb	5.5943	4.5	1807.39
Ti 334.941	88.9424	ppb	2.8695	3.2	29850.0
Tl 190.794	54.7926	ppb	7.8108	14.3	39.2144
V 292.401	117.947	ppb	7.5487	6.4	3747.42
Zn 206.200	178.323	ppb	3.6562	2.1	354.603

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680-90184-a-1-a (Samp) **5/17/2013, 7:25:05 AM** **Rack 3, Tube 55**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3555u	-0.7686u	-0.4928u
Al 308.215	62.6209	71.4993	89.4715
As 188.980	2.7321	-0.1545	10.7210
B 249.678	13.7126	13.3773	11.8728
Ba 389.178	54.4615	53.1471	55.0314
Be 313.042	-0.0013	0.0235	0.0337
Ca 370.602	143235	144817	137097
Cd 226.502	0.8244	0.5455	0.5884
Co 228.615	4.5778	5.0111	5.7267
Cr 267.716	-0.1230u	0.5128	0.1533
Cu 324.754	2.2071	0.2460	0.9848
Fe 271.441	2394.09	2417.68	2435.29
K 766.491	1935.89	1884.63	1876.84
Mg 279.078	32879.9	33287.7	33817.1
Mn 257.610	1130.54	1166.00	1152.58
Mo 202.032	2.6283	2.3591	3.4709
Na 330.237	10712.4	11844.9	12038.7
Ni 231.604	6.2554	10.3965	9.9202
Pb 220.353	7.8597	5.3087	6.7426
Sb 206.834	0.1832	2.5602	-1.8754u
Se 196.026	-10.9306u	6.3980	2.5675
Sn 189.925	0.1769	0.4373	2.2605
Sr 216.596	262.489	268.984	268.248
Ti 334.941	0.1038	0.0792	0.0007
Tl 190.794	-10.5702u	-9.9815u	-7.9196u
V 292.401	-0.0975u	-0.0639u	0.0627
Zn 206.200	21.3430	20.7068	19.1594

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5390	ppb	0.2104	39.0	-94.5762
Al 308.215	74.5305	ppb	13.6796	18.4	157.808
As 188.980	4.4329	ppb	5.6337	127.1	-6.5858
B 249.678	12.9875	ppb	0.9799	7.5	346.014
Ba 389.178	54.2133	ppb	0.9664	1.8	1508.13
Be 313.042	0.0186	ppb	0.0180	96.6	-343.432
Ca 370.602	141716	ppb	4078	2.9	497287
Cd 226.502	0.6528	ppb	0.1502	23.0	81.3046
Co 228.615	5.1052	ppb	0.5802	11.4	83.6199
Cr 267.716	0.1810	ppb	0.3188	176.1	19.6204
Cu 324.754	1.1460	ppb	0.9904	86.4	356.747
Fe 271.441	2415.69	ppb	20.6729	0.9	5031.23
K 766.491	1899.12	ppb	32.0821	1.7	79880.5
Mg 279.078	33328.3	ppb	469.898	1.4	87755.3
Mn 257.610	1149.71	ppb	17.9073	1.6	82269.0
Mo 202.032	2.8195	ppb	0.5800	20.6	41.4823
Na 330.237	11532.0	ppb	716.385	6.2	717.256
Ni 231.604	8.8574	ppb	2.2659	25.6	31.8028
Pb 220.353	6.6370	ppb	1.2788	19.3	45.4059
Sb 206.834	0.2893	ppb	2.2197	767.2	-2.8196
Se 196.026	-0.6550	ppb	9.1027	1389.7	10.8996
Sn 189.925	0.9582	ppb	1.1353	118.5	-15.3799
Sr 216.596	266.574	ppb	3.5565	1.3	3928.47
Ti 334.941	0.0612	ppb	0.0539	88.0	167.713
Tl 190.794	-9.4904	ppb	1.3918	14.7	-31.3627
V 292.401	-0.0329	ppb	0.0845	256.9	-11.4722
Zn 206.200	20.4031	ppb	1.1230	5.5	46.9624

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680-90184-a-4-a (Samp) **5/17/2013, 7:30:32 AM** **Rack 3, Tube 56**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0834u	-0.7954u	-0.3401u
Al 308.215	50.2408	89.9100	95.4594
As 188.980	-7.8803u	4.5776	4.8409
B 249.678	8.2634	9.1118	10.0754
Ba 389.178	6.5815	4.6092	7.4684
Be 313.042	0.0707	0.0582	0.0546
Ca 370.602	26.91	16.14	6.715
Cd 226.502	0.5033	0.5850	0.7525
Co 228.615	0.7873	-2.2032u	-2.1833u
Cr 267.716	0.0579	-0.2300u	0.1810
Cu 324.754	3.0364	3.8523	3.7001
Fe 271.441	12.7471	10.2624	28.2858
K 766.491	28.2111	31.2495	33.9866
Mg 279.078	34.4721	21.1763	40.1775
Mn 257.610	2.1470	2.2481	2.7705
Mo 202.032	1.9599	2.2404	2.5946
Na 330.237	169.074	362.799	359.599
Ni 231.604	2.0882	4.3839	2.0318
Pb 220.353	7.3998	10.0533	8.0646
Sb 206.834	-7.5168u	1.8327	1.7761
Se 196.026	-1.1791u	18.8976	-0.2896u
Sn 189.925	-2.6552u	-0.0992u	-1.7088u
Sr 216.596	2.0332	3.0553	2.9777
Ti 334.941	-0.0527u	-0.0806u	0.0723
Tl 190.794	-3.9067u	-7.0985u	-10.9877u
V 292.401	-0.0211u	-0.6077u	0.2112
Zn 206.200	9.9536	11.1941	13.8125

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4063	ppb	0.3606	88.7	-66.6509
Al 308.215	78.5367	ppb	24.6616	31.4	167.152
As 188.980	0.5127	ppb	7.2698	1417.9	-11.0244
B 249.678	9.1502	ppb	0.9066	9.9	289.763
Ba 389.178	6.2197	ppb	1.4635	23.5	135.188
Be 313.042	0.0612	ppb	0.0085	13.8	-314.947
Ca 370.602	16.59	ppb	10.10	60.9	68.29
Cd 226.502	0.6136	ppb	0.1270	20.7	68.0111
Co 228.615	-1.1997	ppb	1.7209	143.4	-14.4813
Cr 267.716	0.0030	ppb	0.2109	7051.0	5.1750
Cu 324.754	3.5296	ppb	0.4338	12.3	479.949
Fe 271.441	17.0984	ppb	9.7679	57.1	66.6414
K 766.491	31.1491	ppb	2.8891	9.3	1584.90
Mg 279.078	31.9420	ppb	9.7500	30.5	119.932
Mn 257.610	2.3885	ppb	0.3346	14.0	307.595
Mo 202.032	2.2650	ppb	0.3180	14.0	36.8522
Na 330.237	297.158	ppb	110.935	37.3	90.5826
Ni 231.604	2.8346	ppb	1.3420	47.3	10.1726
Pb 220.353	8.5059	ppb	1.3807	16.2	49.5035
Sb 206.834	-1.3027	ppb	5.3817	413.1	-4.8055
Se 196.026	5.8096	ppb	11.3432	195.2	14.8545
Sn 189.925	-1.4877	ppb	1.2923	86.9	-18.2612
Sr 216.596	2.6887	ppb	0.5691	21.2	57.5898
Ti 334.941	-0.0203	ppb	0.0815	400.8	-51.8045
Tl 190.794	-7.3310	ppb	3.5463	48.4	-27.9628
V 292.401	-0.1392	ppb	0.4220	303.2	-15.0358
Zn 206.200	11.6534	ppb	1.9700	16.9	29.5618

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680-90222-b-1-a (Samp) 5/17/2013, 7:36:00 AM Rack 3, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7532u	-1.3135u	-1.3088u
Al 308.215	203.345	212.211	175.966
As 188.980	6.1843	11.1956	9.3417
B 249.678	40.5092	39.3942	46.8402
Ba 389.178	13.3672	12.2485	11.7639
Be 313.042	0.0978	0.0985	0.0936
Ca 370.602	19011	21025	21615
Cd 226.502	0.1357	0.4738	0.1958
Co 228.615	-1.6864u	0.1579	1.7358
Cr 267.716	1.0819	1.4397	1.3626
Cu 324.754	0.4553	1.9775	3.2289
Fe 271.441	80.9201	72.7508	97.8310
K 766.491	4011.27	4191.94	4146.00
Mg 279.078	8668.98	8951.21	8792.50
Mn 257.610	107.498	107.926	106.923
Mo 202.032	2.5387	3.1037	3.7968
Na 330.237	37325.4	40002.9	39326.5
Ni 231.604	6.4628	6.1589	8.1837
Pb 220.353	11.8088	7.7206	4.2278
Sb 206.834	-5.3231u	-2.0728u	-0.2921u
Se 196.026	2.6642	-2.6167u	18.1683
Sn 189.925	-2.7029u	3.7044	-1.6738u
Sr 216.596	172.212	176.857	173.265
Ti 334.941	0.4968	0.4360	0.4212
Tl 190.794	-2.3370u	-7.7168u	-5.0114u
V 292.401	0.5334	-0.7501u	1.0087
Zn 206.200	17.6614	16.1882	16.4075

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1252	ppb	0.3222	28.6	-141.767
Al 308.215	197.174	ppb	18.8943	9.6	445.638
As 188.980	8.9072	ppb	2.5338	28.4	-4.8245
B 249.678	42.2479	ppb	4.0159	9.5	810.479
Ba 389.178	12.4599	ppb	0.8223	6.6	327.044
Be 313.042	0.0966	ppb	0.0026	2.7	-233.770
Ca 370.602	20551	ppb	1365	6.6	72148
Cd 226.502	0.2684	ppb	0.1804	67.2	51.4181
Co 228.615	0.0691	ppb	1.7128	2479.3	5.2751
Cr 267.716	1.2947	ppb	0.1883	14.5	82.7421
Cu 324.754	1.8873	ppb	1.3890	73.6	394.526
Fe 271.441	83.8340	ppb	12.7915	15.3	204.994
K 766.491	4116.41	ppb	93.8997	2.3	172817
Mg 279.078	8804.23	ppb	141.482	1.6	23210.0
Mn 257.610	107.449	ppb	0.5029	0.5	7827.79
Mo 202.032	3.1464	ppb	0.6302	20.0	44.4580
Na 330.237	38884.9	ppb	1392.27	3.6	2246.13
Ni 231.604	6.9351	ppb	1.0919	15.7	24.8505
Pb 220.353	7.9191	ppb	3.7944	47.9	48.1849
Sb 206.834	-2.5627	ppb	2.5510	99.5	-6.3289
Se 196.026	6.0719	ppb	10.8034	177.9	15.0411
Sn 189.925	-0.2241	ppb	3.4408	1535.4	-16.7943
Sr 216.596	174.111	ppb	2.4354	1.4	2559.38
Ti 334.941	0.4513	ppb	0.0400	8.9	153.362
Tl 190.794	-5.0217	ppb	2.6899	53.6	-25.5162
V 292.401	0.2640	ppb	0.9099	344.6	-2.5724
Zn 206.200	16.7524	ppb	0.7949	4.7	39.5005

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90222-d-2-a (Samp) 5/17/2013, 7:41:27 AM Rack 3, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7649u	-1.8929u	-0.5995u
Al 308.215	523.574	503.170	471.548
As 188.980	4.9763	-0.2811u	11.5405
B 249.678	32.5741	32.9387	38.2102
Ba 389.178	16.0902	18.8788	18.7893
Be 313.042	0.2225	0.2259	0.2168
Ca 370.602	16150	16370	16375
Cd 226.502	0.9571	0.5007	0.5041
Co 228.615	7.3612	7.1200	6.9577
Cr 267.716	2.7800	3.0860	3.1301
Cu 324.754	2.1499	0.8856	1.4129
Fe 271.441	96.4064	117.536	97.4391
K 766.491	4830.88	4728.80	4541.72
Mg 279.078	5201.96	5090.04	4898.30
Mn 257.610	26.5336	27.5789	27.3053
Mo 202.032	3.5003	1.3395	3.3916
Na 330.237	45625.7	47815.3	47494.6
Ni 231.604	5.5085	3.6954	4.8199
Pb 220.353	1.7450	5.1564	7.5977
Sb 206.834	5.9076	1.0209	7.2996
Se 196.026	3.6454	-2.1620u	3.7608
Sn 189.925	-1.4219u	1.9225	5.7351
Sr 216.596	105.690	102.981	99.5553
Ti 334.941	1.5315	1.3831	1.4091
Tl 190.794	-9.6584u	-7.6007u	-6.8670u
V 292.401	2.1431	1.9629	1.6829
Zn 206.200	16.8296	19.3382	16.4551

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0858	ppb	0.7039	64.8	-133.556
Al 308.215	499.430	ppb	26.2138	5.2	1155.00
As 188.980	5.4119	ppb	5.9228	109.4	-7.3597
B 249.678	34.5743	ppb	3.1540	9.1	689.713
Ba 389.178	17.9194	ppb	1.5848	8.8	458.942
Be 313.042	0.2217	ppb	0.0046	2.1	36.1244
Ca 370.602	16299	ppb	128.4	0.8	57220
Cd 226.502	0.6540	ppb	0.2625	40.1	70.0870
Co 228.615	7.1463	ppb	0.2030	2.8	115.612
Cr 267.716	2.9987	ppb	0.1907	6.4	183.543
Cu 324.754	1.4828	ppb	0.6350	42.8	373.457
Fe 271.441	103.794	ppb	11.9124	11.5	247.627
K 766.491	4700.47	ppb	146.651	3.1	197298
Mg 279.078	5063.43	ppb	153.569	3.0	13363.8
Mn 257.610	27.1392	ppb	0.5421	2.0	2087.13
Mo 202.032	2.7438	ppb	1.2173	44.4	40.9773
Na 330.237	46978.5	ppb	1182.52	2.5	2698.25
Ni 231.604	4.6746	ppb	0.9152	19.6	16.7605
Pb 220.353	4.8330	ppb	2.9397	60.8	41.1563
Sb 206.834	4.7427	ppb	3.2975	69.5	2.5451
Se 196.026	1.7481	ppb	3.3867	193.7	12.2523
Sn 189.925	2.0786	ppb	3.5810	172.3	-14.1769
Sr 216.596	102.742	ppb	3.0744	3.0	1518.50
Ti 334.941	1.4412	ppb	0.0792	5.5	463.535
Tl 190.794	-8.0420	ppb	1.4471	18.0	-28.7670
V 292.401	1.9297	ppb	0.2319	12.0	50.8070
Zn 206.200	17.5410	ppb	1.5677	8.9	41.0320

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680-90222-b-3-a (Samp) 5/17/2013, 7:46:54 AM Rack 3, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5896	-0.2308u	-1.3961u
Al 308.215	222.492	223.842	245.565
As 188.980	3.1519	-1.0610u	-1.8456u
B 249.678	8.4921	8.9367	8.2921
Ba 389.178	19.5533	18.3841	19.7976
Be 313.042	0.0712	0.0820	0.0820
Ca 370.602	7477	7586	7458
Cd 226.502	0.5575	0.7399	0.6407
Co 228.615	-0.2237u	-1.3487u	0.0623
Cr 267.716	0.4721	0.7639	0.3231
Cu 324.754	-0.6329u	0.2497	-0.2661u
Fe 271.441	292.513	279.910	288.165
K 766.491	1320.08	1334.90	1352.77
Mg 279.078	3105.50	3138.96	3095.72
Mn 257.610	110.382	111.063	110.598
Mo 202.032	2.4795	1.1982	1.7536
Na 330.237	8197.52	7960.30	8290.82
Ni 231.604	5.9326	2.3871	5.3584
Pb 220.353	4.1677	3.8554	8.5427
Sb 206.834	-6.3112u	-2.6434u	-6.4959u
Se 196.026	-4.0925u	5.1936	-11.5855u
Sn 189.925	1.0259	4.0059	1.9646
Sr 216.596	55.4573	54.5904	54.6664
Ti 334.941	3.4912	3.3718	3.4532
Tl 190.794	-4.0061u	1.6493	-11.0246u
V 292.401	0.7610	1.0250	0.5058
Zn 206.200	10.9921	10.3849	11.2965

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3457	ppb	0.9978	288.6	-64.4952
Al 308.215	230.633	ppb	12.9494	5.6	524.087
As 188.980	0.0818	ppb	2.6876	3286.2	-11.2442
B 249.678	8.5736	ppb	0.3300	3.8	280.237
Ba 389.178	19.2450	ppb	0.7555	3.9	488.109
Be 313.042	0.0784	ppb	0.0062	7.9	-275.004
Ca 370.602	7507	ppb	69.43	0.9	26340
Cd 226.502	0.6460	ppb	0.0913	14.1	70.7876
Co 228.615	-0.5034	ppb	0.7459	148.2	-3.4958
Cr 267.716	0.5197	ppb	0.2242	43.1	36.3026
Cu 324.754	-0.2165	ppb	0.4434	204.8	285.070
Fe 271.441	286.863	ppb	6.4018	2.2	625.010
K 766.491	1335.91	ppb	16.3700	1.2	56273.8
Mg 279.078	3113.39	ppb	22.6742	0.7	8230.07
Mn 257.610	110.681	ppb	0.3483	0.3	8043.49
Mo 202.032	1.8104	ppb	0.6425	35.5	32.9079
Na 330.237	8149.55	ppb	170.402	2.1	529.120
Ni 231.604	4.5594	ppb	1.9030	41.7	16.3538
Pb 220.353	5.5219	ppb	2.6207	47.5	42.7320
Sb 206.834	-5.1502	ppb	2.1729	42.2	-9.4420
Se 196.026	-3.4948	ppb	8.4055	240.5	8.9011
Sn 189.925	2.3321	ppb	1.5236	65.3	-13.9120
Sr 216.596	54.9047	ppb	0.4800	0.9	820.045
Ti 334.941	3.4388	ppb	0.0610	1.8	1126.53
Tl 190.794	-4.4605	ppb	6.3492	142.3	-24.9127
V 292.401	0.7639	ppb	0.2596	34.0	14.1110
Zn 206.200	10.8912	ppb	0.4641	4.3	281.139

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680-90215-b-1-a (Samp) **5/17/2013, 7:52:21 AM** **Rack 3, Tube 60**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.8674u	1.3244u	1.0993u
Al 308.215	89.8246	125.991	78.2459
As 188.980	12.8848	11.7968	12.1753
B 249.678	596.212	600.583	605.768
Ba 389.178	21.9313	24.5017	22.9945
Be 313.042	-0.0226u	-0.0200u	-0.0264u
Ca 370.602	180624	179765	180158
Cd 226.502	0.8488	0.6833	0.6146
Co 228.615	-0.0100	0.2233	0.0855
Cr 267.716	330.593	332.210	331.484
Cu 324.754	0.5392	0.4039	0.2813
Fe 271.441	59.0167	55.3133	45.8833
K 766.491	12095.0	11938.3	11750.6
Mg 279.078	78893.7	78909.6	78965.7
Mn 257.610	5.7629	6.1719	6.4960
Mo 202.032	5.5173	5.8430	6.3988
Na 330.237	378749x	366334x	408551x
Ni 231.604	7.6583	7.4901	10.7633
Pb 220.353	11.5178	8.7220	5.9648
Sb 206.834	6.0428	6.8501	17.8461
Se 196.026	7.6270	9.5729	17.2678
Sn 189.925	-4.6135u	1.9115	-3.9795u
Sr 216.596	6152.46x	6186.46	6154.21
Ti 334.941	-0.6641	-0.6933	-0.5694
Tl 190.794	-10.9709u	-9.1040u	-16.3671u
V 292.401	59.0112	61.9872	63.9007
Zn 206.200	22.6913	25.3041	24.5940

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0970b	ppb	0.2285	20.8	-331.536
Al 308.215	98.0206b	ppb	24.9055	25.4	212.658
As 188.980	12.2856b	ppb	0.5523	4.5	-0.6800
B 249.678	600.854b	ppb	4.7839	0.8	9600.66
Ba 389.178	23.1425b	ppb	1.2916	5.6	827.312
Be 313.042	-0.0230b	ppb	0.0032	14.0	-472.950
Ca 370.602	180183b	ppb	429.9	0.2	632540
Cd 226.502	0.7156b	ppb	0.1203	16.8	71.8446
Co 228.615	0.0996b	ppb	0.1173	117.8	7.0512
Cr 267.716	331.429b	ppb	0.8097	0.2	19630.3
Cu 324.754	0.4081b	ppb	0.1290	31.6	316.992
Fe 271.441	53.4044b	ppb	6.7716	12.7	143.373
K 766.491	11928.0b	ppb	172.427	1.4	500237
Mg 279.078	78923.0b	ppb	37.8313	0.0	207784
Mn 257.610	6.1436b	ppb	0.3674	6.0	784.736
Mo 202.032	5.9197b	ppb	0.4458	7.5	68.2689
Na 330.237	384545xb	ppb	21697.0	5.6	21555.6
Ni 231.604	8.6373b	ppb	1.8432	21.3	30.9417
Pb 220.353	8.7349b	ppb	2.7765	31.8	50.0175
Sb 206.834	10.2463b	ppb	6.5940	64.4	13.0419
Se 196.026	11.4892b	ppb	5.0981	44.4	18.5024
Sn 189.925	-2.2271b	ppb	3.5982	161.6	-18.8100
Sr 216.596	6164.38xb	ppb	19.1463	0.3	89897.2
Ti 334.941	-0.6423b	ppb	0.0648	10.1	155.125
Tl 190.794	-12.1473b	ppb	3.7718	31.1	-33.2329
V 292.401	61.6331b	ppb	2.4639	4.0	1943.78
Zn 206.200	24.1965b	ppb	1.3510	5.6	52.7378

680-90215-b-2-a (Samp) 5/17/2013, 8:08:44 AM Rack 4, Tube 3
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.3424u	1.1975u	0.5039u
Al 308.215	97.1168	106.520	121.951
As 188.980	7.3395	5.0624	5.7420
B 249.678	692.194	706.065	694.266
Ba 389.178	42.5599	43.7713	39.7706
Be 313.042	0.0020	-0.0074u	-0.0122u
Ca 370.602	147032	126299	205201
Cd 226.502	0.3328	0.3054	0.6403
Co 228.615	-1.3772u	-1.4390u	-2.2971u
Cr 267.716	88.0498	88.2483	85.8285
Cu 324.754	2.8795	2.9770	3.0470
Fe 271.441	185.720	185.643	181.223
K 766.491	13431.4	13153.0	13623.0
Mg 279.078	86752.5	86610.4	85208.1
Mn 257.610	7.2659	7.6908	7.3970
Mo 202.032	4.8019	5.6530	6.5362
Na 330.237	420739x	402529x	388422x
Ni 231.604	6.2379	5.2387	3.1830
Pb 220.353	9.0331	8.7979	9.7387
Sb 206.834	5.0514	5.9788	5.7250
Se 196.026	16.7516	15.9372	26.2721
Sn 189.925	1.9120	4.2685	-3.4188u
Sr 216.596	6835.83x	6604.13x	6334.12x
Ti 334.941	-0.7924	-0.8832	-0.8446
Tl 190.794	-5.5946u	-10.1613u	-11.6413u
V 292.401	42.7484	42.1752	42.3972
Zn 206.200	148.564	148.469	149.551

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0146b	ppb	0.4482	44.2	-371.543
Al 308.215	108.529b	ppb	12.5382	11.6	237.485
As 188.980	6.0480b	ppb	1.1690	19.3	-5.3362
B 249.678	697.508b	ppb	7.4824	1.1	11121.3
Ba 389.178	42.0339b	ppb	2.0516	4.9	1347.86
Be 313.042	-0.0059b	ppb	0.0072	123.2	-446.700
Ca 370.602	159511b	ppb	40904	25.6	559958
Cd 226.502	0.4261b	ppb	0.1860	43.6	58.4342
Co 228.615	-1.7044b	ppb	0.5142	30.2	-22.1588
Cr 267.716	87.3755b	ppb	1.3435	1.5	5184.82
Cu 324.754	2.9678b	ppb	0.0841	2.8	450.462
Fe 271.441	184.195b	ppb	2.5748	1.4	412.920
K 766.491	13402.5b	ppb	236.361	1.8	562040
Mg 279.078	86190.3b	ppb	853.607	1.0	226914
Mn 257.610	7.4512b	ppb	0.2176	2.9	897.734
Mo 202.032	5.6637b	ppb	0.8672	15.3	66.0916
Na 330.237	403897xb	ppb	16202.2	4.0	22635.6
Ni 231.604	4.8865b	ppb	1.5576	31.9	17.5221
Pb 220.353	9.1899b	ppb	0.4896	5.3	51.0535
Sb 206.834	5.5851b	ppb	0.4793	8.6	4.5005
Se 196.026	19.6536b	ppb	5.7462	29.2	23.7455
Sn 189.925	0.9206b	ppb	3.9384	427.8	-15.2378
Sr 216.596	6591.36xb	ppb	251.095	3.8	96117.8
Ti 334.941	-0.8401b	ppb	0.0456	5.4	129.438
Tl 190.794	-9.1324b	ppb	3.1519	34.5	-29.9404
V 292.401	42.4403b	ppb	0.2890	0.7	1344.19
Zn 206.200	148.861b	ppb	0.5994	0.4	296.568

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

680-90215-b-3-a (Samp) 5/17/2013, 8:14:23 AM Rack 4, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2096u	0.5323u	0.6235u
Al 308.215	85.9274	122.361	136.260
As 188.980	14.0397	7.4013	13.8777
B 249.678	550.451	555.368	554.636
Ba 389.178	28.8328	26.3966	26.1518
Be 313.042	-0.0286u	-0.0039	-0.0162u
Ca 370.602	158679	160578	159851
Cd 226.502	0.1994	0.6764	0.4724
Co 228.615	-0.5726u	-0.2021u	0.4783
Cr 267.716	6.9511	6.3620	7.0412
Cu 324.754	0.2883	0.6378	0.5619
Fe 271.441	43.7397	34.5205	42.1612
K 766.491	9406.57	9377.34	9269.86
Mg 279.078	56326.9	56171.9	55889.5
Mn 257.610	1.9649	1.5782	1.5231
Mo 202.032	7.2955	10.0737	7.6916
Na 330.237	372560x	375316x	373209x
Ni 231.604	9.3270	8.2974	10.5948
Pb 220.353	15.2940	8.0121	9.2935
Sb 206.834	6.5306	3.4916	-8.1232u
Se 196.026	10.7847	19.1280	12.7966
Sn 189.925	-5.9614u	-3.0045u	4.5824
Sr 216.596	3932.26	3933.04	3913.65
Ti 334.941	-0.1890	-0.1030	-0.1308
Tl 190.794	-9.0149u	-14.3069u	-15.9219u
V 292.401	61.4778	56.6808	58.5167
Zn 206.200	7.4506	5.7885	6.0566

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4552b	ppb	0.2175	47.8	-246.377
Al 308.215	114.849b	ppb	25.9935	22.6	252.331
As 188.980	11.7729b	ppb	3.7868	32.2	-1.2486
B 249.678	553.485b	ppb	2.6527	0.5	8855.27
Ba 389.178	27.1271b	ppb	1.4822	5.5	861.094
Be 313.042	-0.0162b	ppb	0.0123	76.2	-464.262
Ca 370.602	159703b	ppb	958.2	0.6	560646
Cd 226.502	0.4494b	ppb	0.2393	53.3	58.5756
Co 228.615	-0.0988b	ppb	0.5330	539.4	2.4100
Cr 267.716	6.7848b	ppb	0.3689	5.4	413.588
Cu 324.754	0.4960b	ppb	0.1838	37.1	321.671
Fe 271.441	40.1405b	ppb	4.9306	12.3	115.075
K 766.491	9351.26b	ppb	71.9928	0.8	392235
Mg 279.078	56129.4b	ppb	221.755	0.4	147785
Mn 257.610	1.6887b	ppb	0.2407	14.3	406.552
Mo 202.032	8.3536b	ppb	1.5028	18.0	89.2905
Na 330.237	373695xb	ppb	1440.80	0.4	20949.7
Ni 231.604	9.4064b	ppb	1.1508	12.2	33.6941
Pb 220.353	10.8666b	ppb	3.8875	35.8	54.8639
Sb 206.834	0.6330b	ppb	7.7339	1221.8	-2.5003
Se 196.026	14.2364b	ppb	4.3540	30.6	20.2651
Sn 189.925	-1.4612b	ppb	5.4386	372.2	-17.9568
Sr 216.596	3926.32b	ppb	10.9772	0.3	57272.5
Ti 334.941	-0.1409b	ppb	0.0438	31.1	194.905
Tl 190.794	-13.0812b	ppb	3.6129	27.6	-34.2566
V 292.401	58.8918b	ppb	2.4204	4.1	1878.10
Zn 206.200	6.4319b	ppb	0.8924	13.8	19.3667

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680-90215-b-4-a (Samp) **5/17/2013, 8:19:51 AM** **Rack 4, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0499u	0.5488u	0.3681u
Al 308.215	796.424	791.755	823.770
As 188.980	22.2596	11.3475	5.0348
B 249.678	893.904	854.992	884.888
Ba 389.178	37.1363	31.9281	33.9115
Be 313.042	0.7924	0.7291	0.7588
Ca 370.602	113303	196466	206742
Cd 226.502	0.2267	0.3207	0.7198
Co 228.615	-2.0555u	-2.8598u	0.1763
Cr 267.716	19.2462	18.4062	19.0553
Cu 324.754	3.1361	4.3922	4.3706
Fe 271.441	798.446	773.171	805.490
K 766.491	9942.28	9640.22	10659.4
Mg 279.078	88983.2	85816.4	89970.4
Mn 257.610	132.552	124.695	129.684
Mo 202.032	8.7824	7.5058	8.1975
Na 330.237	336349x	332109x	351568x
Ni 231.604	11.2650	9.4744	12.3911
Pb 220.353	18.3430	15.6338	20.5374
Sb 206.834	5.9372	3.8443	5.8296
Se 196.026	26.1549	31.4265	18.7565
Sn 189.925	0.4034	-4.1463u	-1.7906u
Sr 216.596	5435.21	5225.77	5382.32
Ti 334.941	8.2081	9.2394	10.7765
Tl 190.794	-10.3949u	-14.2845u	-16.9862u
V 292.401	123.674	118.608	121.208
Zn 206.200	33.9712	29.7026	35.2499

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3223b	ppb	0.2526	78.4	-345.232
Al 308.215	803.983b	ppb	17.2941	2.2	1869.25
As 188.980	12.8806b	ppb	8.7141	67.7	-0.3871
B 249.678	877.928b	ppb	20.3684	2.3	13959.4
Ba 389.178	34.3253b	ppb	2.6287	7.7	1152.38
Be 313.042	0.7601b	ppb	0.0317	4.2	1231.07
Ca 370.602	172171b	ppb	51239	29.8	604348
Cd 226.502	0.4224b	ppb	0.2618	62.0	61.3541
Co 228.615	-1.5796b	ppb	1.5730	99.6	-20.2778
Cr 267.716	18.9026b	ppb	0.4404	2.3	1130.14
Cu 324.754	3.9663b	ppb	0.7191	18.1	501.852
Fe 271.441	792.369b	ppb	16.9950	2.1	1671.99
K 766.491	10080.6b	ppb	523.494	5.2	422806
Mg 279.078	88256.7b	ppb	2170.22	2.5	232352
Mn 257.610	128.977b	ppb	3.9761	3.1	9575.24
Mo 202.032	8.1619b	ppb	0.6391	7.8	87.4447
Na 330.237	340009xb	ppb	10233.0	3.0	19067.3
Ni 231.604	11.0435b	ppb	1.4709	13.3	39.5765
Pb 220.353	18.1714b	ppb	2.4563	13.5	71.5295
Sb 206.834	5.2037b	ppb	1.1785	22.6	3.2100
Se 196.026	25.4460b	ppb	6.3646	25.0	27.4921
Sn 189.925	-1.8445b	ppb	2.2753	123.4	-18.4027
Sr 216.596	5347.76b	ppb	108.910	2.0	77992.7
Ti 334.941	9.4080b	ppb	1.2924	13.7	3586.64
Tl 190.794	-13.8885b	ppb	3.3135	23.9	-35.2771
V 292.401	121.163b	ppb	2.5329	2.1	3880.07
Zn 206.200	32.9746b	ppb	2.9048	8.8	71.1405

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680-90215-b-5-a (Samp) 5/17/2013, 8:25:19 AM Rack 4, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6963u	0.3162u	0.8671u
Al 308.215	463.363	450.109	447.939
As 188.980	20.7061	23.5308	-1.5286
B 249.678	958.503	959.435	973.636
Ba 389.178	47.1414	48.0386	50.4601
Be 313.042	0.1575	0.1577	0.1640
Ca 370.602	240253	242828	244340
Cd 226.502	0.5518	0.5596	0.6733
Co 228.615	0.9561	0.9312	0.6713
Cr 267.716	33.8564	32.9557	33.4767
Cu 324.754	2.7907	0.6336	2.9115
Fe 271.441	736.422	744.395	740.896
K 766.491	12626.8	12258.5	12466.1
Mg 279.078	105698	105427	106780
Mn 257.610	54.6939	54.0600	54.8598
Mo 202.032	7.1209	6.1780	7.5865
Na 330.237	459569x	460314x	466910x
Ni 231.604	15.6686	18.4066	16.5132
Pb 220.353	13.5466	14.2582	20.2999
Sb 206.834	-3.3419u	2.7427	9.3064
Se 196.026	27.1597	25.3333	19.8020
Sn 189.925	2.4910	2.0618	-2.8119u
Sr 216.596	6866.32x	6892.67x	6985.34x
Ti 334.941	7.8890	8.3769	7.8899
Tl 190.794	-10.8621u	-12.9950u	-15.4451u
V 292.401	91.1548	91.7240	92.2991
Zn 206.200	24.8333	22.8534	24.8357

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6265b	ppb	0.2820	45.0	-432.270
Al 308.215	453.804b	ppb	8.3491	1.8	1047.52
As 188.980	14.2361b	ppb	13.7255	96.4	1.4481
B 249.678	963.858b	ppb	8.4805	0.9	15311.6
Ba 389.178	48.5467b	ppb	1.7167	3.5	1582.30
Be 313.042	0.1597b	ppb	0.0037	2.3	-56.2788
Ca 370.602	242474b	ppb	2067	0.9	851149
Cd 226.502	0.5949b	ppb	0.0680	11.4	69.0695
Co 228.615	0.8529b	ppb	0.1578	18.5	17.7229
Cr 267.716	33.4296b	ppb	0.4522	1.4	1992.55
Cu 324.754	2.1119b	ppb	1.2817	60.7	405.603
Fe 271.441	740.571b	ppb	3.9963	0.5	1565.02
K 766.491	12450.5b	ppb	184.658	1.5	522137
Mg 279.078	105968b	ppb	715.851	0.7	278975
Mn 257.610	54.5379b	ppb	0.4221	0.8	4311.01
Mo 202.032	6.9618b	ppb	0.7176	10.3	77.1515
Na 330.237	462264xb	ppb	4040.82	0.9	25896.9
Ni 231.604	16.8628b	ppb	1.4021	8.3	60.4026
Pb 220.353	16.0349b	ppb	3.7107	23.1	66.6445
Sb 206.834	2.9024b	ppb	6.3256	217.9	0.6141
Se 196.026	24.0983b	ppb	3.8312	15.9	26.6115
Sn 189.925	0.5803b	ppb	2.9456	507.6	-15.5419
Sr 216.596	6914.78xb	ppb	62.5114	0.9	100846
Ti 334.941	8.0519b	ppb	0.2815	3.5	3222.72
Tl 190.794	-13.1007b	ppb	2.2933	17.5	-34.3473
V 292.401	91.7260b	ppb	0.5721	0.6	2932.26
Zn 206.200	24.1741b	ppb	1.1437	4.7	53.9343

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680-90186-c-29-b (Samp) **5/17/2013, 8:30:47 AM** **Rack 4, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6618u	-0.3192u	0.3054
Al 308.215	76.6435	80.9215	83.2906
As 188.980	7.9909	11.5802	12.1421
B 249.678	21.4706	20.0720	19.3823
Ba 389.178	3.8798	4.7324	5.9553
Be 313.042	0.0664	0.0781	0.0556
Ca 370.602	-12.25u	-3.678u	-2.247u
Cd 226.502	0.4280	0.4611	0.5018
Co 228.615	-0.0205u	1.0192	-0.8482u
Cr 267.716	0.2180	0.4446	0.0590
Cu 324.754	-0.1118u	0.3887	0.8603
Fe 271.441	12.9864	12.9046	16.1111
K 766.491	13.3223	13.2311	14.2211
Mg 279.078	16.9900	33.7013	37.0750
Mn 257.610	0.9682	1.0189	1.0297
Mo 202.032	3.1991	1.9818	2.8044
Na 330.237	-97.0089u	282.076	353.668
Ni 231.604	4.4620	2.4826	1.0404
Pb 220.353	9.5436	9.1270	5.8731
Sb 206.834	-3.1476u	2.3057	13.2093
Se 196.026	13.6525	0.2058	23.9769
Sn 189.925	0.6827	-1.8550u	7.6581
Sr 216.596	2.3893	3.2516	3.6084
Ti 334.941	0.1363	0.0281	0.0266
Tl 190.794	-11.4805u	-4.1825u	-5.8868u
V 292.401	0.6404	0.6368	0.4079
Zn 206.200	1.5190	3.1934	0.3534

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2252	ppb	0.4904	217.8	-50.5662
Al 308.215	80.2852	ppb	3.3689	4.2	171.269
As 188.980	10.5711	ppb	2.2521	21.3	-3.8708
B 249.678	20.3083	ppb	1.0640	5.2	465.369
Ba 389.178	4.8558	ppb	1.0432	21.5	99.2667
Be 313.042	0.0667	ppb	0.0113	16.9	-302.858
Ca 370.602	-6.060	ppb	5.412	89.3	-9.792
Cd 226.502	0.4637	ppb	0.0370	8.0	60.6595
Co 228.615	0.0502	ppb	0.9357	1865.7	4.9812
Cr 267.716	0.2406	ppb	0.1938	80.5	19.2192
Cu 324.754	0.3791	ppb	0.4861	128.2	315.992
Fe 271.441	14.0007	ppb	1.8281	13.1	60.4724
K 766.491	13.5915	ppb	0.5471	4.0	848.978
Mg 279.078	29.2555	ppb	10.7553	36.8	112.868
Mn 257.610	1.0056	ppb	0.0329	3.3	208.890
Mo 202.032	2.6618	ppb	0.6211	23.3	40.2780
Na 330.237	179.578	ppb	242.192	134.9	84.1030
Ni 231.604	2.6617	ppb	1.7178	64.5	9.5532
Pb 220.353	8.1812	ppb	2.0098	24.6	48.7630
Sb 206.834	4.1225	ppb	8.3284	202.0	1.7624
Se 196.026	12.6117	ppb	11.9197	94.5	19.2213
Sn 189.925	2.1619	ppb	4.9261	227.9	-14.1141
Sr 216.596	3.0831	ppb	0.6267	20.3	63.3075
Ti 334.941	0.0637	ppb	0.0629	98.7	-23.5964
Tl 190.794	-7.1832	ppb	3.8179	53.1	-27.7978
V 292.401	0.5617	ppb	0.1332	23.7	7.4083
Zn 206.200	1.6886	ppb	1.4276	84.5	10.1449

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680-90240-g-1-b (Samp) **5/17/2013, 8:36:15 AM** **Rack 4, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-4.9008u	-4.5055u	-3.8649u
Al 308.215	7098.41	7002.70	6919.62
As 188.980	5.3627	-3.1642	5.9135
B 249.678	69.7896u	68.5094u	70.6689u
Ba 389.178	76.0475	76.1835	72.9406
Be 313.042	6.7546	6.7430	6.7030
Ca 370.602	83819	83856	83450
Cd 226.502	15.0571	14.7014	14.9522
Co 228.615	430.363	427.334	450.679
Cr 267.716	76.5738	75.3277	74.7178
Cu 324.754	8.2987	7.8440	8.5321
Fe 271.441	822979	834757	820075
K 766.491	39714.3	39717.0	39373.9
Mg 279.078	82536.5	82340.3	81781.7
Mn 257.610	23957.1	24316.5	24052.4
Mo 202.032	-0.3928u	-1.2799u	-2.5037u
Na 330.237	2756057x	2744569x	2745277x
Ni 231.604	464.089	450.043	428.280
Pb 220.353	27.9806	31.5248	28.6790
Sb 206.834	-8.7710	-30.7830u	-21.6390u
Se 196.026	6.6084	35.1313	22.8111
Sn 189.925	0.9169	9.4746	1.9937
Sr 216.596	663.364	659.270	657.049
Ti 334.941	4.2022	4.1497	3.7569
Tl 190.794	13.3612u	5.8979u	8.2910u
V 292.401	-4.6946u	-5.3038u	-4.1177u
Zn 206.200	4210.70	4181.84	4170.72

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.4238b	ppb	0.5228	11.8	-401.446
Al 308.215	7006.91b	ppb	89.4713	1.3	16427.6
As 188.980	2.7040b	ppb	5.0894	188.2	-5.2150
B 249.678	69.6560b	ppb	1.0859	1.6	-163.180
Ba 389.178	75.0572b	ppb	1.8343	2.4	3646.02
Be 313.042	6.7335b	ppb	0.0271	0.4	13898.1
Ca 370.602	83708b	ppb	224.2	0.3	213916
Cd 226.502	14.9036b	ppb	0.1827	1.2	4441.49
Co 228.615	436.125b	ppb	12.6941	2.9	6759.94
Cr 267.716	75.5397b	ppb	0.9460	1.3	4862.74
Cu 324.754	8.2249b	ppb	0.3499	4.3	1000.20
Fe 271.441	825937b	ppb	7775.02	0.9	1709230
K 766.491	39601.7b	ppb	197.314	0.5	1660173
Mg 279.078	82219.5b	ppb	391.607	0.5	216400
Mn 257.610	24108.7b	ppb	186.192	0.8	1721420
Mo 202.032	-1.3921b	ppb	1.0599	76.1	-48.1595
Na 330.237	2748634xb	ppb	6437.60	0.2	153294
Ni 231.604	447.471b	ppb	18.0423	4.0	1626.86
Pb 220.353	29.3948b	ppb	1.8774	6.4	100.965
Sb 206.834	-20.3977b	ppb	11.0584	54.2	-2.1488
Se 196.026	21.5169b	ppb	14.3054	66.5	35.9258
Sn 189.925	4.1284b	ppb	4.6612	112.9	-10.6039
Sr 216.596	659.894b	ppb	3.2031	0.5	10135.8
Ti 334.941	4.0363b	ppb	0.2433	6.0	1661.15
Tl 190.794	9.1833b	ppb	3.8108	41.5	-81.0579
V 292.401	-4.7054b	ppb	0.5932	12.6	-188.812
Zn 206.200	4187.76b	ppb	20.6348	0.5	8285.90

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460-55825-a-1-a (Samp) 5/17/2013, 8:41:43 AM Rack 4, Tube 9

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.4910u	-1.0008u	-0.9689u
Al 308.215	130.391	110.293	110.581
As 188.980	-4.9524u	7.7442	4.2645
B 249.678	10657.7x	10909.8x	10947.8x
Ba 389.178	3.5598	4.1931	5.7764
Be 313.042	0.0426	0.0184	0.0333
Ca 370.602	860.6	865.7	857.3
Cd 226.502	0.3147	0.2158	0.6600
Co 228.615	0.3284	0.3440	-1.6449u
Cr 267.716	0.3169	0.4012	0.4960
Cu 324.754	22.0007	21.3392	22.4103
Fe 271.441	27.1935	34.3865	33.2065
K 766.491	902.833	905.199	916.012
Mg 279.078	433.703	422.876	455.234
Mn 257.610	1.9534	1.5089	1.0337
Mo 202.032	3.3938	3.0750	3.1045
Na 330.237	287484x	287718x	290330x
Ni 231.604	3.0513	5.8142	4.2336
Pb 220.353	7.4910	4.7116	6.4421
Sb 206.834	4.2072	-6.1927u	-13.8025u
Se 196.026	3.0145	1.7504	7.3554
Sn 189.925	0.2362	-2.1720u	-3.4960u
Sr 216.596	7.1517	6.0813	7.0446
Ti 334.941	0.2297	0.0010u	0.1513
Tl 190.794	-8.5788u	-9.3919u	-10.5917u
V 292.401	-0.1968u	0.4380	0.8199
Zn 206.200	7.0488	5.0198	8.4537

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1536b	ppb	0.2926	25.4	-133.287
Al 308.215	117.088b	ppb	11.5213	9.8	257.687
As 188.980	2.3521b	ppb	6.5607	278.9	-9.7069
B 249.678	10838.4xb	ppb	157.646	1.5	170696
Ba 389.178	4.5098b	ppb	1.1417	25.3	91.5089
Be 313.042	0.0315b	ppb	0.0122	38.8	-415.488
Ca 370.602	861.2b	ppb	4.199	0.5	3031
Cd 226.502	0.3968b	ppb	0.2332	58.8	55.6139
Co 228.615	-0.3242b	ppb	1.1438	352.8	-0.8822
Cr 267.716	0.4047b	ppb	0.0896	22.1	34.8473
Cu 324.754	21.9167b	ppb	0.5404	2.5	1436.86
Fe 271.441	31.5955b	ppb	3.8576	12.2	96.8160
K 766.491	908.015b	ppb	7.0266	0.8	38338.5
Mg 279.078	437.271b	ppb	16.4715	3.8	1186.88
Mn 257.610	1.4987b	ppb	0.4599	30.7	244.749
Mo 202.032	3.1911b	ppb	0.1762	5.5	44.8474
Na 330.237	288511xb	ppb	1579.98	0.5	16191.0
Ni 231.604	4.3664b	ppb	1.3863	31.7	15.6554
Pb 220.353	6.2149b	ppb	1.4036	22.6	44.2869
Sb 206.834	-5.2627b	ppb	9.0408	171.8	-9.6137
Se 196.026	4.0401b	ppb	2.9399	72.8	13.7185
Sn 189.925	-1.8106b	ppb	1.8922	104.5	-18.4973
Sr 216.596	6.7592b	ppb	0.5895	8.7	116.982
Ti 334.941	0.1273b	ppb	0.1162	91.2	-24.9720
Tl 190.794	-9.5208b	ppb	1.0126	10.6	-30.3704
V 292.401	0.3537b	ppb	0.5136	145.2	-1.9535
Zn 206.200	6.8408b	ppb	1.7263	25.2	201866

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460-55825-a-1-a (Samp) **5/17/2013, 8:47:11 AM** **Rack 4, Tube 10****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6365u	-0.3375u	-0.4370u
Al 308.215	93.4846	113.025	99.1146
As 188.980	-0.0478u	5.3813	10.0784
B 249.678	2434.94	2491.75	2539.27
Ba 389.178	4.7089	3.3374	5.6122
Be 313.042	0.0602	0.0495	0.0651
Ca 370.602	180.4	185.3	170.2
Cd 226.502	0.1837	0.5449	0.7383
Co 228.615	-0.5544u	-0.4357u	-0.8322u
Cr 267.716	-0.1615u	-0.3164u	-0.0897u
Cu 324.754	4.3690	3.9920	4.9316
Fe 271.441	2.5670	-3.0513u	-8.6956u
K 766.491	175.107	181.691	179.626
Mg 279.078	91.7123	87.7243	100.344
Mn 257.610	0.4524	0.8952	0.7147
Mo 202.032	2.3754	3.2101	3.3919
Na 330.237	55569.2	54721.0	59293.0
Ni 231.604	3.6132	5.5694	5.9535
Pb 220.353	6.5576	6.2755	6.3205
Sb 206.834	-10.3678u	-7.2109u	-11.9196u
Se 196.026	-4.5505u	-2.4730u	25.4889
Sn 189.925	4.7555	-1.2410u	-7.3977u
Sr 216.596	2.2653	3.9151	2.2859
Ti 334.941	-0.0116u	0.0065u	0.0633
Tl 190.794	-4.5265u	-10.8725u	-10.6131u
V 292.401	0.1530	0.5010	-0.6404u
Zn 206.200	4.5634	5.8587	3.7416

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4703	ppb	0.1523	32.4	-72.3533
Al 308.215	101.875	ppb	10.0583	9.9	221.963
As 188.980	5.1373	ppb	5.0675	98.6	-7.7336
B 249.678	2488.65	ppb	52.2333	2.1	39306.7
Ba 389.178	4.5528	ppb	1.1454	25.2	91.4919
Be 313.042	0.0583	ppb	0.0080	13.7	-328.299
Ca 370.602	178.6	ppb	7.692	4.3	639.0
Cd 226.502	0.4890	ppb	0.2815	57.6	61.4837
Co 228.615	-0.6075	ppb	0.2035	33.5	-5.2842
Cr 267.716	-0.1892	ppb	0.1158	61.2	-5.0686
Cu 324.754	4.4309	ppb	0.4729	10.7	526.864
Fe 271.441	-3.0600	ppb	5.6313	184.0	25.0444
K 766.491	178.808	ppb	3.3673	1.9	7773.98
Mg 279.078	93.2604	ppb	6.4509	6.9	281.348
Mn 257.610	0.6875	ppb	0.2227	32.4	186.273
Mo 202.032	2.9924	ppb	0.5421	18.1	43.1349
Na 330.237	56527.7	ppb	2432.07	4.3	3231.84
Ni 231.604	5.0454	ppb	1.2551	24.9	18.0842
Pb 220.353	6.3846	ppb	0.1515	2.4	44.6731
Sb 206.834	-9.8328	ppb	2.3995	24.4	-15.1491
Se 196.026	6.1552	ppb	16.7757	272.5	15.0760
Sn 189.925	-1.2944	ppb	6.0767	469.5	-18.0161
Sr 216.596	2.8221	ppb	0.9466	33.5	59.4592
Ti 334.941	0.0194	ppb	0.0391	201.4	-42.9749
Tl 190.794	-8.6707	ppb	3.5913	41.4	-29.4332
V 292.401	0.0045	ppb	0.5850	12934.9	-11.0454
Zn 206.200	4.7212	ppb	1.0673	22.6	16.0539

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

460-55825-a-1-a (Samp) **5/17/2013, 8:52:39 AM** **Rack 4, Tube 11****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.1156	52.2817	52.1035
Al 308.215	1444.68	1436.00	1416.14
As 188.980	2868.90	2856.99	2834.18
B 249.678	12429.2x	12419.7x	12400.9x
Ba 389.178	2218.78	2186.32	2185.53
Be 313.042	50.2598	49.3804	49.5874
Ca 370.602	6417	6339	6342
Cd 226.502	81.1687	79.7563	79.1188
Co 228.615	715.589	574.040	549.874
Cr 267.716	243.208	241.036	238.733
Cu 324.754	225.699	224.522	222.645
Fe 271.441	1329.40	1268.36	1217.32
K 766.491	10890.3	10887.3	10716.7
Mg 279.078	7424.28	7365.26	7266.29
Mn 257.610	1237.52	1219.33	1235.44
Mo 202.032	538.459	533.395	527.617
Na 330.237	297666x	296069x	292879x
Ni 231.604	606.200	631.876	666.943
Pb 220.353	798.547	795.266	785.518
Sb 206.834	543.979	534.288	530.075
Se 196.026	3327.33	3259.22	3268.53
Sn 189.925	1640.39	1614.03	1605.15
Sr 216.596	707.482	617.679	684.402
Ti 334.941	939.470	930.336	933.170
Tl 190.794	3544.56	3496.71	3475.42
V 292.401	578.337	571.180	568.866
Zn 206.200	1071.01	1057.35	1048.61

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.5002b	ppb	0.5403	1.0	4594.25
Al 308.215	1432.27b	ppb	14.6325	1.0	3376.67
As 188.980	2853.36b	ppb	17.6459	0.6	2017.94
B 249.678	12416.6xb	ppb	14.3841	0.1	195528
Ba 389.178	2196.87b	ppb	18.9717	0.9	57812.2
Be 313.042	49.7425b	ppb	0.4598	0.9	107819
Ca 370.602	6366b	ppb	43.94	0.7	22450
Cd 226.502	80.0146b	ppb	1.0491	1.3	3931.92
Co 228.615	613.167b	ppb	89.5185	14.6	9562.45
Cr 267.716	240.992b	ppb	2.2381	0.9	14273.7
Cu 324.754	224.289b	ppb	1.5403	0.7	11982.2
Fe 271.441	1271.69b	ppb	56.1138	4.4	2783.50
K 766.491	10831.5b	ppb	99.3605	0.9	454277
Mg 279.078	7351.94b	ppb	79.8314	1.1	19377.0
Mn 257.610	1230.77b	ppb	9.9565	0.8	87981.2
Mo 202.032	533.157b	ppb	5.4249	1.0	4619.66
Na 330.237	295538xb	ppb	2437.14	0.8	16566.2
Ni 231.604	635.006b	ppb	30.4920	4.8	2272.78
Pb 220.353	793.110b	ppb	6.7768	0.9	1833.43
Sb 206.834	536.114b	ppb	7.1294	1.3	638.773
Se 196.026	3285.03b	ppb	36.9290	1.1	2120.33
Sn 189.925	1619.86b	ppb	18.3291	1.1	1824.25
Sr 216.596	669.854b	ppb	46.6355	7.0	9735.70
Ti 334.941	934.325b	ppb	4.6752	0.5	313645
Tl 190.794	3505.56b	ppb	35.4068	1.0	3833.14
V 292.401	572.794b	ppb	4.9373	0.9	18246.7
Zn 206.200	1058.99b	ppb	11.2901	1.1	2069.31

E05162013A.wvq. All Data Report 5/21/2013, 1:29:36 PM

460-55825-a-1-b ms (Samp) 5/17/2013, 8:58:06 AM Rack 4, Tube 12**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	61.0093	59.7827	59.2763
Al 308.215	3614.03	3656.10	3713.63
As 188.980	151.730	152.959	148.217
B 249.678	12611.2x	12828.8x	13088.8x
Ba 389.178	111.520	118.169	117.131
Be 313.042	51.6057	52.2547	53.1661
Ca 370.602	6229	6295	6468
Cd 226.502	78.2102	78.8544	79.9207
Co 228.615	78.9247	75.1596	73.5466
Cr 267.716	121.708	123.375	125.141
Cu 324.754	118.727	117.136	112.802
Fe 271.441	5644.74	5685.44	5764.72
K 766.491	10185.4	10627.2	10662.4
Mg 279.078	7052.23	7206.17	7267.69
Mn 257.610	1096.21	1134.15	1158.83
Mo 202.032	108.000	108.875	109.791
Na 330.237	319014x	327212x	331415x
Ni 231.604	125.617	130.305	129.886
Pb 220.353	88.3000	86.6589	86.7126
Sb 206.834	62.7727	57.6093	61.3858
Se 196.026	159.208	159.785	176.346
Sn 189.925	295.547	299.675	302.255
Sr 216.596	139.214	140.538	140.157
Ti 334.941	94.2906	95.1208	96.2853
Tl 190.794	61.1520	59.3160	60.3240
V 292.401	114.915	114.795	118.149
Zn 206.200	207.818	208.529	209.007

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.0228b	ppb	0.8911	1.5	5296.98
Al 308.215	3661.25b	ppb	50.0032	1.4	8581.93
As 188.980	150.968b	ppb	2.4612	1.6	96.0424
B 249.678	12843.0xb	ppb	239.109	1.9	202230
Ba 389.178	115.607b	ppb	3.5769	3.1	3047.14
Be 313.042	52.3422b	ppb	0.7839	1.5	113603
Ca 370.602	6331b	ppb	123.5	2.0	21718
Cd 226.502	78.9951b	ppb	0.8639	1.1	3901.67
Co 228.615	75.8770b	ppb	2.7599	3.6	1184.11
Cr 267.716	123.408b	ppb	1.7170	1.4	7319.26
Cu 324.754	116.222b	ppb	3.0663	2.6	6348.95
Fe 271.441	5698.30b	ppb	61.0168	1.1	11838.6
K 766.491	10491.6b	ppb	265.802	2.5	440033
Mg 279.078	7175.36b	ppb	110.983	1.5	18911.5
Mn 257.610	1129.73b	ppb	31.5470	2.8	80774.6
Mo 202.032	108.889b	ppb	0.8957	0.8	956.906
Na 330.237	325880xb	ppb	6306.83	1.9	18274.1
Ni 231.604	128.603b	ppb	2.5941	2.0	460.479
Pb 220.353	87.2239b	ppb	0.9324	1.1	228.647
Sb 206.834	60.5893b	ppb	2.6723	4.4	70.2958
Se 196.026	165.113b	ppb	9.7322	5.9	117.357
Sn 189.925	299.159b	ppb	3.3834	1.1	323.523
Sr 216.596	139.970b	ppb	0.6816	0.5	2053.61
Ti 334.941	95.2322b	ppb	1.0020	1.1	31940.3
Tl 190.794	60.2640b	ppb	0.9194	1.5	45.1341
V 292.401	115.953b	ppb	1.9026	1.6	3677.25
Zn 206.200	208.451b	ppb	0.5981	0.3	412.335

460-55825-a-1-c msd (Samp) 5/17/2013, 9:14:30 AM Rack 4, Tube 15
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.6037	52.7512	51.2264
Al 308.215	4064.30	4071.63	4077.32
As 188.980	149.091	163.929	162.752
B 249.678	12470.4x	12660.6x	13013.9x
Ba 389.178	113.715	116.529	117.038
Be 313.042	52.6050	52.7021	53.3905
Ca 370.602	6236	6246	6277
Cd 226.502	77.0942	77.3327	77.5180
Co 228.615	58.7199	57.2693	62.8458
Cr 267.716	117.645	117.605	118.768
Cu 324.754	124.826	124.439	125.368
Fe 271.441	5564.85	5593.80	5610.98
K 766.491	9764.79	9817.82	9881.26
Mg 279.078	6902.97	6891.28	6918.61
Mn 257.610	889.695	893.666	895.052
Mo 202.032	108.479	111.269	111.445
Na 330.237	290241x	289244x	290653x
Ni 231.604	840.582	865.697	739.399
Pb 220.353	84.3465	81.0326	88.7027
Sb 206.834	61.8830	58.5456	57.8342
Se 196.026	184.374	155.275	164.866
Sn 189.925	278.778	289.403	285.777
Sr 216.596	133.223	132.895	133.900
Ti 334.941	91.8584	92.2328	92.2121
Tl 190.794	45.0355	51.7228	53.5163
V 292.401	127.259	126.182	129.463
Zn 206.200	203.415	199.121	201.622

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.8605b	ppb	0.7941	1.5	4572.66
Al 308.215	4071.09b	ppb	6.5275	0.2	9543.47
As 188.980	158.591b	ppb	8.2481	5.2	101.460
B 249.678	12715.0xb	ppb	275.820	2.2	200216
Ba 389.178	115.761b	ppb	1.7895	1.5	3049.82
Be 313.042	52.8992b	ppb	0.4282	0.8	114822
Ca 370.602	6253b	ppb	21.11	0.3	21465
Cd 226.502	77.3150b	ppb	0.2125	0.3	3819.22
Co 228.615	59.6117b	ppb	2.8932	4.9	930.741
Cr 267.716	118.006b	ppb	0.6603	0.6	6998.50
Cu 324.754	124.877b	ppb	0.4668	0.4	6799.06
Fe 271.441	5589.88b	ppb	23.3161	0.4	11611.3
K 766.491	9821.29b	ppb	58.3132	0.6	411936
Mg 279.078	6904.29b	ppb	13.7098	0.2	18198.5
Mn 257.610	892.805b	ppb	2.7805	0.3	63867.5
Mo 202.032	110.398b	ppb	1.6643	1.5	969.923
Na 330.237	290046xb	ppb	724.924	0.2	16272.5
Ni 231.604	815.226b	ppb	66.8581	8.2	2917.92
Pb 220.353	84.6939b	ppb	3.8468	4.5	222.893
Sb 206.834	59.4209b	ppb	2.1617	3.6	68.8628
Se 196.026	168.172b	ppb	14.8286	8.8	119.310
Sn 189.925	284.653b	ppb	5.4010	1.9	307.024
Sr 216.596	133.339b	ppb	0.5124	0.4	1940.91
Ti 334.941	92.1011b	ppb	0.2104	0.2	30890.1
Tl 190.794	50.0915b	ppb	4.4695	8.9	34.0068
V 292.401	127.635b	ppb	1.6725	1.3	4054.41
Zn 206.200	201.386b	ppb	2.1567	1.1	200.558

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460-55825-a-2-a (Samp) **5/17/2013, 9:19:58 AM** **Rack 4, Tube 16****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-4.7492u	-4.9541u	-4.6480u
Al 308.215	155.490	184.200	163.692
As 188.980	66.3652	61.2677	71.2381
B 249.678	1557696o	1586129x	1583467x
Ba 389.178	29.8543	29.4561	30.4748
Be 313.042	-0.0404u	-0.0518u	-0.0423u
Ca 370.602	3336	3340	3379
Cd 226.502	3.1537	3.3026	3.1503
Co 228.615	2.4478	0.8067	1.4058
Cr 267.716	5.1622	4.9824	4.8202
Cu 324.754	28.3677	28.3170	29.5049
Fe 271.441	366.052	355.466	363.397
K 766.491	848.265	851.177	855.769
Mg 279.078	1199.08	1206.24	1217.97
Mn 257.610	5.4025	5.3072	5.4727
Mo 202.032	5.1790	5.5666	6.0303
Na 330.237	307965x	309658x	311205x
Ni 231.604	24.9748	27.6522	26.5301
Pb 220.353	-18.6716u	-26.6694u	-21.5505u
Sb 206.834	3.6645	-10.1950u	-13.7261u
Se 196.026	-39.3162u	-42.2449u	-64.0650u
Sn 189.925	-1.1843u	2.4489	9.6980
Sr 216.596	16.1723	15.6085	16.4702
Ti 334.941	-0.5490u	-0.4181u	-0.7832u
Tl 190.794	11.2786	-1.1432u	5.4265
V 292.401	-1.5659u	-0.4020u	-0.4693u
Zn 206.200	14.2952	10.4693	12.4626

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.7838b	ppb	0.1560	3.3	-456.291
Al 308.215	167.794b	ppb	14.7884	8.8	376.875
As 188.980	66.2903b	ppb	4.9856	7.5	35.7952
B 249.678	1575764oxb	ppb	15703.8	1.0	24796014
Ba 389.178	29.9284b	ppb	0.5134	1.7	763.307
Be 313.042	-0.0448b	ppb	0.0061	13.6	-584.577
Ca 370.602	3352b	ppb	23.92	0.7	11745
Cd 226.502	3.2022b	ppb	0.0870	2.7	193.131
Co 228.615	1.5534b	ppb	0.8305	53.5	28.2059
Cr 267.716	4.9882b	ppb	0.1711	3.4	306.771
Cu 324.754	28.7299b	ppb	0.6717	2.3	1791.62
Fe 271.441	361.638b	ppb	5.5077	1.5	780.119
K 766.491	851.737b	ppb	3.7833	0.4	35979.6
Mg 279.078	1207.76b	ppb	9.5380	0.8	3215.09
Mn 257.610	5.3941b	ppb	0.0831	1.5	524.980
Mo 202.032	5.5920b	ppb	0.4262	7.6	65.5620
Na 330.237	309609xb	ppb	1620.64	0.5	17369.5
Ni 231.604	26.3857b	ppb	1.3446	5.1	94.4723
Pb 220.353	-22.2972b	ppb	4.0508	18.2	-20.6189
Sb 206.834	-6.7522b	ppb	9.1923	136.1	-11.4080
Se 196.026	-48.5420b	ppb	13.5228	27.9	-20.0370
Sn 189.925	3.6542b	ppb	5.5404	151.6	-12.2741
Sr 216.596	16.0836b	ppb	0.4376	2.7	252.788
Ti 334.941	-0.5834b	ppb	0.1850	31.7	-261.465
Tl 190.794	5.1873b	ppb	6.2144	119.8	-14.2230
V 292.401	-0.8124b	ppb	0.6534	80.4	-40.7382
Zn 206.200	12.4090b	ppb	1.9135	475.4	31.0601

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

Blank (Blk)	5/21/2013, 11:00:06 AM		Rack S, Tube 1
Label	Replicates Concentration		
Ag 328.068	0.2902	-0.1857	-0.1045
Al 308.215	-0.3469	0.8320	-0.4850
As 188.980	0.9050	-2.4117	1.5068
B 249.678	0.3275	-0.5198	0.1923
Ba 389.178	0.2660	0.0671	-0.3331
Be 313.042	-0.0012	0.0029	-0.0017
Ca 370.602	-6.294	3.499	2.795
Cd 226.502	-0.2006	0.1032	0.0974
Co 228.615	0.2626	0.0176	-0.2802
Cr 267.716	-0.0824	0.1105	-0.0282
Cu 324.754	-0.0172	0.0733	-0.0561
Fe 271.441	3.6300	3.7271	-7.3571
K 766.491	-0.5000	-0.2851	0.7851
Mg 279.078	1.7248	-2.1796	0.4547
Mn 257.610	0.0112	0.0317	-0.0429
Mo 202.032	-0.1430	-0.0743	0.2173
Na 330.237	-122.107	134.167	-12.0594
Ni 231.604	0.8346	-1.2270	0.3924
Pb 220.353	-0.0823	0.0872	-0.0049
Sb 206.834	3.3413	-0.5197	-2.8215
Se 196.026	-3.4590	1.1753	2.2838
Sn 189.925	-1.2288	3.7600	-2.5312
Sr 216.596	-0.0393	0.3452	-0.3059
Ti 334.941	0.0252	-0.0583	0.0331
Tl 190.794	0.4157	-0.3575	-0.0582
V 292.401	0.0602	0.0134	-0.0735
Zn 206.200	0.9795	0.3261	-1.3055

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	19.537	42.3	-46.1442
Al 308.215	0.0000	ppb	4.576	2.4	189.432
As 188.980	0.0000	ppb	1.267	17.6	-7.1938
B 249.678	0.0000	ppb	5.893	1.9	313.056
Ba 389.178	0.0000	ppb	6.451	345.2	-1.8690
Be 313.042	0.0000	ppb	4.786	2.1	-224.303
Ca 370.602	0.0000	ppb	13.020	89.8	14.50
Cd 226.502	0.0000	ppb	6.433	30.2	21.3092
Co 228.615	0.0000	ppb	3.390	38.6	8.7738
Cr 267.716	0.0000	ppb	4.850	89.7	5.4096
Cu 324.754	0.0000	ppb	3.641	2.6	137.828
Fe 271.441	0.0000	ppb	10.904	50.5	21.5925
K 766.491	0.0000	ppb	24.126	9.5	254.240
Mg 279.078	0.0000	ppb	4.198	12.6	33.3217
Mn 257.610	0.0000	ppb	9.606	47.5	20.2167
Mo 202.032	0.0000	ppb	1.459	12.5	11.6342
Na 330.237	0.0000	ppb	6.181	13.1	47.2663
Ni 231.604	0.0000	ppb	3.072	2036.1	0.1509
Pb 220.353	0.0000	ppb	0.151	0.6	23.3996
Sb 206.834	0.0000	ppb	3.362	53.8	6.2527
Se 196.026	0.0000	ppb	1.513	25.1	6.0148
Sn 189.925	0.0000	ppb	2.943	22.6	-13.0196
Sr 216.596	0.0000	ppb	3.694	20.2	18.2975
Ti 334.941	0.0000	ppb	14.236	26.3	-54.1794
Tl 190.794	0.0000	ppb	0.377	2.5	-15.0522
V 292.401	0.0000	ppb	1.789	24.7	-7.2477
Zn 206.200	0.0000	ppb	1.722	31.8	5.4241

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

HIGH STD (Std)	5/21/2013, 11:05:30 AM		Rack S, Tube 2
Label	Replicates Concentration		
Ag 328.068	1000.24	1000.01	999.746
Al 308.215	10017.3	9996.66	9986.05
As 188.980	999.755	1003.25	996.996
B 249.678	996.856	999.419	1003.73
Ba 389.178	10029.9	9994.87	9975.27
Be 313.042	1001.21	998.718	1000.07
Ca 370.602	10049	9982	9970
Cd 226.502	1003.46	998.937	997.599
Co 228.615	1002.04	999.380	998.582
Cr 267.716	10028.9	9989.39	9981.73
Cu 324.754	9873.24	10088.3	10038.5
Fe 271.441	10006.7	9990.51	10002.8
K 766.491	20002.1	19974.4	20023.5
Mg 279.078	10023.7	9991.22	9985.05
Mn 257.610	10009.3	9974.02	10016.7
Mo 202.032	1004.75	997.937	997.316
Na 330.237	15219.9	14908.3	14871.8
Ni 231.604	5019.85	4995.74	4984.41
Pb 220.353	1000.48	1002.86	996.664
Sb 206.834	1997.77	1994.80	2007.42
Se 196.026	10048.1	9973.92	9977.94
Sn 189.925	10038.5	10016.2	9945.33
Sr 216.596	5020.99	4991.97	4987.03
Ti 334.941	1002.92	998.448	998.629
Tl 190.794	10024.1	9982.24	9993.64
V 292.401	10016.1	9984.65	9999.26
Zn 206.200	5030.90	4997.75	4971.35

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	19.014	0.0	76708.6
Al 308.215	10000.0	ppb	100.400	0.2	63406.5
As 188.980	1000.00	ppb	1.882	0.3	593.290
B 249.678	1000.00	ppb	44.934	0.3	13257.5
Ba 389.178	10000.0	ppb	584.543	0.3	211421
Be 313.042	1000.00	ppb	2332.542	0.1	1871060
Ca 370.602	10000	ppb	101.649	0.4	23851
Cd 226.502	1000.00	ppb	113.796	0.3	37045.1
Co 228.615	1000.00	ppb	22.566	0.2	12478.9
Cr 267.716	10000.0	ppb	1233.145	0.3	487419
Cu 324.754	10000.0	ppb	6176.576	1.1	548810
Fe 271.441	10000.0	ppb	14.461	0.1	17135.5
K 766.491	20000.0	ppb	863.739	0.1	701261
Mg 279.078	10000.0	ppb	43.797	0.2	21112.0
Mn 257.610	10000.0	ppb	5681.987	0.2	2491335
Mo 202.032	1000.00	ppb	31.442	0.4	7637.11
Na 330.237	15000.0	ppb	9.198	1.2	768.438
Ni 231.604	5000.00	ppb	51.219	0.4	14152.0
Pb 220.353	1000.00	ppb	5.557	0.3	1802.63
Sb 206.834	2000.00	ppb	7.122	0.3	2165.29
Se 196.026	10000.0	ppb	20.725	0.4	4971.39
Sn 189.925	10000.0	ppb	43.105	0.5	8848.69
Sr 216.596	5000.00	ppb	206.999	0.4	56433.1
Ti 334.941	1000.00	ppb	712.429	0.3	281267
Tl 190.794	10000.0	ppb	20.930	0.2	9650.35
V 292.401	10000.0	ppb	415.031	0.2	263722
Zn 206.200	5000.00	ppb	43.662	0.6	7322.75

Ag 328.068 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-46.1442	0.0000	0.0000	-	-
HIGH STD		76708.6	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 76.8 x + -46.1$

Al 308.215 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		189.432	0.0000	0.0000	-	-
HIGH STD		63406.5	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 6.3 x + 189.4$

As 188.980 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-7.1938	0.0000	0.0000	-	-
HIGH STD		593.290	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 0.6 x + -7.2$

B 249.678 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		313.056	0.0000	0.0000	-	-
HIGH STD		13257.5	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 12.9 x + 313.1$

Ba 389.178 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.8690	0.0000	0.0000	-	-
HIGH STD		211421	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 21.1 x + -1.9$

Be 313.042 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-224.303	0.0000	0.0000	-	-
HIGH STD		1871060	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1871.3 x + -224.3$

Ca 370.602 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		14.50	0.0000	0.0000	-	-
HIGH STD		23851	10000	10000	0.0010	0.0

Curve Type: Linear Equation: $y = 2.4 x + 14.5$

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Cd 226.502 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		21.3092	0.0000	0.0000	-	-
HIGH STD		37045.1	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 37.0 x + 21.3$ **Co 228.615 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		8.7738	0.0000	0.0000	-	-
HIGH STD		12478.9	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 12.5 x + 8.8$ **Cr 267.716 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.4096	0.0000	0.0000	-	-
HIGH STD		487419	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 48.7 x + 5.4$ **Cu 324.754 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		137.828	0.0000	0.0000	-	-
HIGH STD		548810	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 54.9 x + 137.8$ **Fe 271.441 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		21.5925	0.0000	0.0000	-	-
HIGH STD		17135.5	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 1.7 x + 21.6$ **K 766.491 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		254.240	0.0000	0.0000	-	-
HIGH STD		701261	20000.0	20000.0	-0.0020	0.0

Curve Type: Linear Equation: $y = 35.1 x + 254.2$ **Mg 279.078 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		33.3217	0.0000	0.0000	-	-
HIGH STD		21112.0	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 2.1 x + 33.3$

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Mn 257.610 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		20.2167	0.0000	0.0000	-	-
HIGH STD		2491335	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 249.1 x + 20.2$ **Mo 202.032 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		11.6342	0.0000	0.0000	-	-
HIGH STD		7637.11	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 7.6 x + 11.6$ **Na 330.237 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		47.2663	0.0000	0.0000	-	-
HIGH STD		768.438	15000.0	15000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 0.0 x + 47.3$ **Ni 231.604 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.1509	0.0000	0.0000	-	-
HIGH STD		14152.0	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation: $y = 2.8 x + 0.2$ **Pb 220.353 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		23.3996	0.0000	0.0000	-	-
HIGH STD		1802.63	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 1.8 x + 23.4$ **Sb 206.834 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		6.2527	0.0000	0.0000	-	-
HIGH STD		2165.29	2000.00	2000.00	-0.0001	0.0

Curve Type: Linear Equation: $y = 1.1 x + 6.3$ **Se 196.026 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		6.0148	0.0000	0.0000	-	-
HIGH STD		4971.39	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.5 x + 6.0$

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Sn 189.925 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-13.0196	0.0000	0.0000	-	-
HIGH STD		8848.69	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.9 x + -13.0$ **Sr 216.596 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		18.2975	0.0000	0.0000	-	-
HIGH STD		56433.1	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 11.3 x + 18.3$ **Ti 334.941 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-54.1794	0.0000	0.0000	-	-
HIGH STD		281267	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 281.3 x + -54.2$ **Tl 190.794 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-15.0522	0.0000	0.0000	-	-
HIGH STD		9650.35	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 1.0 x + -15.1$ **V 292.401 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-7.2477	0.0000	0.0000	-	-
HIGH STD		263722	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 26.4 x + -7.2$ **Zn 206.200 Calibration (ppb) 5/21/2013, 11:05:30 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.4241	0.0000	0.0000	-	-
HIGH STD		7322.75	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: $y = 1.5 x + 5.4$ **LRA1 (Samp) 5/21/2013, 11:50:23 AM Rack S, Tube 7****Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7798	-0.8447	-0.7029
Al 308.215	23.1493	24.4875	26.1577
As 188.980	22889.8x	23113.4x	22787.7x
B 249.678	5234.48x	5279.86x	5287.82x
Ba 389.178	-1.0981u	-1.9624u	-1.1478u

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Label	Replicates Concentration		
Be 313.042	0.1230	0.1380	0.1354
Ca 370.602	3019	3022	2989
Cd 226.502	-0.6264u	-0.3019u	-0.8369u
Co 228.615	10613.8	10597.0	10560.4
Cr 267.716	-1.8656	-1.9632	-1.8745
Cu 324.754	1.2082	1.1650	1.1980
Fe 271.441	-113.953	-107.110	-109.412
K 766.491	0.3364	0.1957	0.6067
Mg 279.078	69.7820u	63.1781u	71.7050u
Mn 257.610	28858.9x	28889.6x	28862.1x
Mo 202.032	1.6951	0.9918	1.0156
Na 330.237	106021x	106327x	105683x
Ni 231.604	10619.3x	10681.6x	10618.2x
Pb 220.353	21783.8x	21864.2x	21731.4x
Sb 206.834	2.0554	6.0626	0.3676
Se 196.026	2.7800	11.4897	9.6793
Sn 189.925	5.4235	4.8818	0.0786
Sr 216.596	-5.0772u	-5.0795u	-4.7970u
Ti 334.941	27908.3	28047.3	27849.2
Tl 190.794	76.9889	82.1404	81.0039
V 292.401	-5.2737	-5.0743	-5.3802
Zn 206.200	33.1433	33.0672	32.9708

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7758b	ppb	0.0709	9.1	31.0208
Al 308.215	24.5982b	ppb	1.5072	6.1	344.631
As 188.980	22930.3xb	ppb	166.572	0.7	13762.1
B 249.678	5267.39xb	ppb	28.7758	0.5	68495.5
Ba 389.178	-1.4028b	ppb	0.4853	34.6	-30.7341
Be 313.042	0.1321b	ppb	0.0080	6.1	-6.8134
Ca 370.602	3010b	ppb	18.03	0.6	11610
Cd 226.502	-0.5884b	ppb	0.2695	45.8	2.0209
Co 228.615	10590.4b	ppb	27.3002	0.3	132857
Cr 267.716	-1.9011b	ppb	0.0539	2.8	95.6652
Cu 324.754	1.1904b	ppb	0.0226	1.9	203.148
Fe 271.441	-110.158b	ppb	3.4821	3.2	1482.01
K 766.491	0.3796b	ppb	0.2089	55.0	267.546
Mg 279.078	68.2217b	ppb	4.4725	6.6	-285.268
Mn 257.610	28870.2xb	ppb	16.8347	0.1	7192496
Mo 202.032	1.2342b	ppb	0.3994	32.4	20.9773
Na 330.237	106011xb	ppb	322.258	0.3	4941.06
Ni 231.604	10639.7xb	ppb	36.3188	0.3	30114.4
Pb 220.353	21793.2xb	ppb	66.8939	0.3	38785.3
Sb 206.834	2.8286b	ppb	2.9252	103.4	9.3243
Se 196.026	7.9830b	ppb	4.5959	57.6	17.1516
Sn 189.925	3.4613b	ppb	2.9420	85.0	-9.9160
Sr 216.596	-4.9846b	ppb	0.1625	3.3	-226.620
Ti 334.941	27934.9b	ppb	101.701	0.4	7858628
Tl 190.794	80.0444b	ppb	2.7064	3.4	26.8171
V 292.401	-5.2428b	ppb	0.1553	3.0	276.952
Zn 206.200	33.0604b	ppb	0.0864	0.3	53.8878

LRA2 (Samp) 5/21/2013, 11:55:50 AM Rack S, Tube 8

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1901u	-0.6681u	-1.8608u
Al 308.215	888681x	888615x	889076x

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Label	Replicates Concentration		
As 188.980	44.5974	51.1732	21.9875
B 249.678	71.7582u	60.9780u	52.0042u
Ba 389.178	17.3144	16.2389	14.4957
Be 313.042	-0.0590	-0.0540	-0.0562
Ca 370.602	768051	773942	769729
Cd 226.502	13.2103	12.1976	12.3812
Co 228.615	9.9035	7.6743	8.4038
Cr 267.716	8.0169	8.3148	7.7755
Cu 324.754	4.8342	4.9833	5.4589
Fe 271.441	919062	918970	918896
K 766.491	448060x	446693x	446836x
Mg 279.078	821643	824695	819258
Mn 257.610	10.4721	10.3291	10.5175
Mo 202.032	5.5115u	4.6028u	4.9415u
Na 330.237	-5705.78u	-5630.74u	-5654.12u
Ni 231.604	10.0924	6.3482	9.2355
Pb 220.353	43.0727	38.3604	37.6053
Sb 206.834	-5.9161	-1.7502	10.6806
Se 196.026	-32.3849u	-28.3095u	-18.6155u
Sn 189.925	4.2332	4.4509	1.1007
Sr 216.596	55.2321	57.4799	56.3153
Ti 334.941	7.5286	7.5892	7.4876
Tl 190.794	-23.8118u	-17.3466u	-24.3357u
V 292.401	5.7910	5.0951	5.7869
Zn 206.200	26726.5	26535.8	26590.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2397b	ppb	0.5979	48.2	-157.101
Al 308.215	888791xb	ppb	249.292	0.0	5618860
As 188.980	39.2527b	ppb	15.3093	39.0	41.4080
B 249.678	61.5801b	ppb	9.8908	16.1	-73.5364
Ba 389.178	16.0164b	ppb	1.4225	8.9	3490.61
Be 313.042	-0.0564b	ppb	0.0025	4.5	-54.9502
Ca 370.602	770574b	ppb	3035	0.4	1780857
Cd 226.502	12.5964b	ppb	0.5396	4.3	3383.34
Co 228.615	8.6605b	ppb	1.1366	13.1	83.9017
Cr 267.716	8.0357b	ppb	0.2701	3.4	625.020
Cu 324.754	5.0921b	ppb	0.3262	6.4	715.409
Fe 271.441	918976b	ppb	83.4766	0.0	1572748
K 766.491	447196xb	ppb	751.433	0.2	15674651
Mg 279.078	821865b	ppb	2725.07	0.3	1732324
Mn 257.610	10.4396b	ppb	0.0983	0.9	12579.8
Mo 202.032	5.0186b	ppb	0.4593	9.2	1.5173
Na 330.237	-5663.55b	ppb	38.3983	0.7	-668.082
Ni 231.604	8.5587b	ppb	1.9617	22.9	45.2656
Pb 220.353	39.6794b	ppb	2.9628	7.5	110.718
Sb 206.834	1.0048b	ppb	8.6346	859.4	29.9892
Se 196.026	-26.4366b	ppb	7.0732	26.8	-1.7001
Sn 189.925	3.2616b	ppb	1.8746	57.5	-9.8156
Sr 216.596	56.3424b	ppb	1.1242	2.0	1128.35
Ti 334.941	7.5352b	ppb	0.0511	0.7	5951.30
Tl 190.794	-21.8314b	ppb	3.8927	17.8	-81.7620
V 292.401	5.5576b	ppb	0.4006	7.2	142.953
Zn 206.200	26617.6b	ppb	98.1983	0.4	39052.2

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RINSE (Samp)	5/21/2013, 12:01:16 PM		Rack S, Tube 1
Weight: 1	Volume: 1		Dilution: 1
Label	Replicates Concentration		
Ag 328.068	-0.2176u	0.3034	0.4810
Al 308.215	7.7891	8.7899	12.6342
As 188.980	26.7972	26.2922	31.6764
B 249.678	30.3324	27.2586	26.4260
Ba 389.178	-0.3797u	0.4747	0.9685
Be 313.042	0.0125	0.0167	0.0142
Ca 370.602	5.185	10.36	13.65
Cd 226.502	0.0080	-0.0002	0.2084
Co 228.615	-0.2360u	-0.4151u	-0.4457u
Cr 267.716	0.0546	0.1770	0.1450
Cu 324.754	0.2658	0.5604	0.1174
Fe 271.441	11.2205	12.0930	10.9768
K 766.491	7.4347	8.5915	11.3095
Mg 279.078	6.1135	11.8793	11.7635
Mn 257.610	0.1990	0.2131	0.2963
Mo 202.032	-0.1622u	-0.4655u	-0.0765u
Na 330.237	105.744	37.7459	-18.0606u
Ni 231.604	-0.6541u	-0.5485u	-1.0094u
Pb 220.353	-1.3329u	-0.5279u	-3.5746u
Sb 206.834	-4.8150u	-5.5063u	1.6488
Se 196.026	-2.0689u	-4.0386u	7.7004
Sn 189.925	2.7764	0.8878	-1.1812u
Sr 216.596	0.0385	0.0466	-0.0092u
Ti 334.941	0.2167	0.2431	0.2955
Tl 190.794	1.1956	4.5639	1.9057
V 292.401	-0.0023u	0.1374	-0.1523u
Zn 206.200	0.0068	0.1846	1.4891

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1889	ppb	0.3631	192.2	-31.6570
Al 308.215	9.7377	ppb	2.5578	26.3	250.909
As 188.980	28.2553	ppb	2.9735	10.5	9.7735
B 249.678	28.0057	ppb	2.0576	7.3	675.557
Ba 389.178	0.3545	ppb	0.6821	192.4	5.6650
Be 313.042	0.0145	ppb	0.0021	14.6	-197.208
Ca 370.602	9.730	ppb	4.266	43.8	36.92
Cd 226.502	0.0721	ppb	0.1181	163.9	24.0192
Co 228.615	-0.3656	ppb	0.1133	31.0	4.2295
Cr 267.716	0.1255	ppb	0.0635	50.6	11.5328
Cu 324.754	0.3145	ppb	0.2255	71.7	155.082
Fe 271.441	11.4301	ppb	0.5868	5.1	41.0966
K 766.491	9.1119	ppb	1.9891	21.8	573.615
Mg 279.078	9.9188	ppb	3.2959	33.2	54.2247
Mn 257.610	0.2361	ppb	0.0526	22.3	79.1660
Mo 202.032	-0.2347	ppb	0.2044	87.1	9.8437
Na 330.237	41.8097	ppb	62.0021	148.3	49.2682
Ni 231.604	-0.7374	ppb	0.2415	32.7	-1.9358
Pb 220.353	-1.8118	ppb	1.5788	87.1	20.1766
Sb 206.834	-2.8908	ppb	3.9466	136.5	3.1368
Se 196.026	0.5310	ppb	6.2865	1184.0	6.2785
Sn 189.925	0.8277	ppb	1.9795	239.2	-12.2861
Sr 216.596	0.0253	ppb	0.0301	119.1	18.6034
Ti 334.941	0.2518	ppb	0.0401	15.9	16.6879
Tl 190.794	2.5551	ppb	1.7756	69.5	-12.5837
V 292.401	-0.0058	ppb	0.1449	2516.7	-7.3598
Zn 206.200	0.5601	ppb	0.8994	164.5	6.2448

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mb 680-276886/1-a (Samp) **5/21/2013, 12:17:27 PM** **Rack 1, Tube 3**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4540	0.2341	0.3272
Al 308.215	12.8224	12.9660	15.0199
As 188.980	1.5270	0.5786	0.6132
B 249.678	8.8412	8.0145	7.6956
Ba 389.178	-0.0613u	0.2226	-0.0895u
Be 313.042	0.0076	0.0126	0.0151
Ca 370.602	5.358	6.082	6.929
Cd 226.502	0.0107	-0.0564u	0.2907
Co 228.615	0.0087	0.0892	0.5605
Cr 267.716	0.1683	0.2049	0.2380
Cu 324.754	0.6368	0.2112	0.3220
Fe 271.441	10.3831	12.7188	14.9559
K 766.491	4.6471	5.0738	5.6397
Mg 279.078	8.8822	11.9072	11.3950
Mn 257.610	0.3912	0.4061	0.3933
Mo 202.032	0.1006	0.0077	-0.1854u
Na 330.237	60.3551	-56.1276u	-55.9475u
Ni 231.604	-1.4223u	-1.4367u	-0.0379u
Pb 220.353	-0.1098u	0.1296	1.1428
Sb 206.834	1.8784	0.0041	-7.4341u
Se 196.026	0.7446	0.7908	-3.9672u
Sn 189.925	-1.4304u	0.0098	-2.0085u
Sr 216.596	-0.1923u	-0.3420u	0.1723
Ti 334.941	0.1434	0.2437	0.2894
Tl 190.794	4.8263	0.9503	2.5690
V 292.401	0.2460	0.0775	0.0080
Zn 206.200	0.4297	1.3178	1.1051

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3384	ppb	0.1104	32.6	-20.1745
Al 308.215	13.6028	ppb	1.2293	9.0	275.333
As 188.980	0.9063	ppb	0.5378	59.3	-6.6491
B 249.678	8.1838	ppb	0.5913	7.2	418.970
Ba 389.178	0.0239	ppb	0.1727	721.4	-1.3187
Be 313.042	0.0118	ppb	0.0038	32.4	-202.261
Ca 370.602	6.123	ppb	0.7860	12.8	28.16
Cd 226.502	0.0817	ppb	0.1841	225.5	24.3828
Co 228.615	0.2195	ppb	0.2980	135.8	11.5186
Cr 267.716	0.2037	ppb	0.0348	17.1	15.3447
Cu 324.754	0.3900	ppb	0.2208	56.6	159.229
Fe 271.441	12.6859	ppb	2.2866	18.0	43.3394
K 766.491	5.1202	ppb	0.4980	9.7	433.705
Mg 279.078	10.7281	ppb	1.6190	15.1	55.9282
Mn 257.610	0.3969	ppb	0.0081	2.0	119.222
Mo 202.032	-0.0257	ppb	0.1459	567.4	11.4371
Na 330.237	-17.2400	ppb	67.1994	389.8	46.4249
Ni 231.604	-0.9657	ppb	0.8035	83.2	-2.5819
Pb 220.353	0.3876	ppb	0.6649	171.6	24.0893
Sb 206.834	-1.8506	ppb	4.9255	266.2	4.2574
Se 196.026	-0.8106	ppb	2.7338	337.3	5.6125
Sn 189.925	-1.1430	ppb	1.0394	90.9	-14.0325
Sr 216.596	-0.1207	ppb	0.2646	219.3	16.9543
Ti 334.941	0.2255	ppb	0.0747	33.1	9.2948
Tl 190.794	2.7819	ppb	1.9467	70.0	-12.3646
V 292.401	0.1105	ppb	0.1224	110.7	-4.3375
Zn 206.200	0.9508	ppb	0.4637	48.8	6.8166

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ics 680-276886/2-a (Samp) 5/21/2013, 12:22:52 PM Rack 1, Tube 4
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.2508	50.2145	49.4143
Al 308.215	4950.13	4936.32	4937.76
As 188.980	108.644	111.664	114.258
B 249.678	193.924	195.142	195.768
Ba 389.178	100.002	99.7833	100.408
Be 313.042	49.9934	49.9778	49.9811
Ca 370.602	4854	4827	4826
Cd 226.502	50.2716	50.0913	50.3547
Co 228.615	49.7718	49.9210	50.9143
Cr 267.716	100.406	100.293	100.245
Cu 324.754	100.031	101.096	100.269
Fe 271.441	4892.12	4868.13	4871.55
K 766.491	4934.44	4908.54	4899.77
Mg 279.078	4871.35	4867.10	4871.21
Mn 257.610	515.189	513.871	514.727
Mo 202.032	101.629	102.646	102.252
Na 330.237	4717.91	4886.63	4917.64
Ni 231.604	98.9849	98.1867	98.1765
Pb 220.353	50.1060	50.9306	51.7867
Sb 206.834	52.1848	53.7066	51.2463
Se 196.026	100.359	104.579	96.6905
Sn 189.925	195.976	197.048	197.010
Sr 216.596	97.6636	98.1003	98.7845
Ti 334.941	99.3977	98.7554	98.5601
Tl 190.794	44.5368	40.1046	38.2734
V 292.401	100.182	100.563	100.980
Zn 206.200	97.7313	98.9872	97.7105

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.9599	ppb	0.4728	0.9	3786.93
Al 308.215	4941.40	ppb	7.5940	0.2	31427.8
As 188.980	111.522	ppb	2.8097	2.5	59.8801
B 249.678	194.945	ppb	0.9374	0.5	2830.22
Ba 389.178	100.064	ppb	0.3169	0.3	2132.34
Be 313.042	49.9841	ppb	0.0082	0.0	93291.8
Ca 370.602	4836	ppb	15.57	0.3	11269
Cd 226.502	50.2392	ppb	0.1347	0.3	1896.73
Co 228.615	50.2024	ppb	0.6211	1.2	633.905
Cr 267.716	100.315	ppb	0.0827	0.1	4897.18
Cu 324.754	100.465	ppb	0.5592	0.6	5653.67
Fe 271.441	4877.26	ppb	12.9739	0.3	8377.30
K 766.491	4914.25	ppb	18.0288	0.4	172500
Mg 279.078	4869.89	ppb	2.4131	0.0	10289.6
Mn 257.610	514.596	ppb	0.6691	0.1	128280
Mo 202.032	102.176	ppb	0.5130	0.5	790.316
Na 330.237	4840.72	ppb	107.488	2.2	277.231
Ni 231.604	98.4494	ppb	0.4638	0.5	278.910
Pb 220.353	50.9411	ppb	0.8404	1.6	114.027
Sb 206.834	52.3792	ppb	1.2416	2.4	62.9438
Se 196.026	100.543	ppb	3.9473	3.9	56.0943
Sn 189.925	196.678	ppb	0.6081	0.3	161.275
Sr 216.596	98.1828	ppb	0.5650	0.6	1123.07
Ti 334.941	98.9044	ppb	0.4382	0.4	27792.3
Tl 190.794	40.9716	ppb	3.2205	7.9	23.6087
V 292.401	100.575	ppb	0.3991	0.4	2621.52
Zn 206.200	98.1430	ppb	0.7312	0.7	149.259

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680-90184-a-1-a (Samp) **5/21/2013, 12:28:27 PM** **Rack 1, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0114u	0.3462	0.1606
Al 308.215	18.1666	16.1160	18.0960
As 188.980	7.7804	8.9224	5.6650
B 249.678	11.5954	11.3299	12.3107
Ba 389.178	44.1216	44.9433	47.3274
Be 313.042	-0.0264u	-0.0255	-0.0233
Ca 370.602	147991	145081	150671
Cd 226.502	-0.0087	-0.0120	0.1874
Co 228.615	3.9277	4.6102	3.9169
Cr 267.716	0.2446	0.2349	0.4106
Cu 324.754	1.0115	1.2027	1.5592
Fe 271.441	2240.90	2203.03	2294.60
K 766.491	1288.37	1270.92	1311.97
Mg 279.078	27796.9	27332.4	28417.3
Mn 257.610	527.788	517.825	538.395
Mo 202.032	1.5352	0.3811	1.7078
Na 330.237	8819.99	8869.86	9151.34
Ni 231.604	4.5139	4.8681	4.7517
Pb 220.353	-2.4458u	-0.3183u	0.4462
Sb 206.834	-1.3432u	-0.2486u	-0.0386u
Se 196.026	7.8880	-1.1748u	-5.4660u
Sn 189.925	1.5829	-0.7000u	-3.0780u
Sr 216.596	216.379	211.672	218.816
Ti 334.941	-0.0399	-0.0524	0.0152
Tl 190.794	3.6107	1.7548	-0.9516u
V 292.401	-0.3423u	-0.3385u	0.1481
Zn 206.200	7.9440	8.7674	7.9127

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1651	ppb	0.1788	108.3	-41.7002
Al 308.215	17.4595	ppb	1.1641	6.7	299.968
As 188.980	7.4559	ppb	1.6527	22.2	-2.6556
B 249.678	11.7453	ppb	0.5073	4.3	462.196
Ba 389.178	45.4641	ppb	1.6651	3.7	1028.92
Be 313.042	-0.0251	ppb	0.0016	6.3	-221.865
Ca 370.602	147914	ppb	2796	1.9	352461
Cd 226.502	0.0555	ppb	0.1142	205.6	30.7292
Co 228.615	4.1516	ppb	0.3972	9.6	60.4332
Cr 267.716	0.2967	ppb	0.0987	33.3	22.8805
Cu 324.754	1.2578	ppb	0.2780	22.1	207.608
Fe 271.441	2246.18	ppb	46.0111	2.0	3866.32
K 766.491	1290.42	ppb	20.5974	1.6	45483.9
Mg 279.078	27848.9	ppb	544.347	2.0	58726.9
Mn 257.610	528.003	ppb	10.2867	1.9	131816
Mo 202.032	1.2080	ppb	0.7213	59.7	20.7279
Na 330.237	8947.07	ppb	178.659	2.0	476.734
Ni 231.604	4.7112	ppb	0.1805	3.8	13.5356
Pb 220.353	-0.7726	ppb	1.4986	194.0	22.1439
Sb 206.834	-0.5435	ppb	0.7005	128.9	5.7060
Se 196.026	0.4157	ppb	6.8176	1639.8	6.3654
Sn 189.925	-0.7317	ppb	2.3306	318.5	-13.5975
Sr 216.596	215.623	ppb	3.6319	1.7	2468.05
Ti 334.941	-0.0257	ppb	0.0360	140.0	64.9023
Tl 190.794	1.4713	ppb	2.2943	155.9	-14.4881
V 292.401	-0.1775	ppb	0.2820	158.9	-11.9104
Zn 206.200	8.2080	ppb	0.4847	5.9	1746624

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680-90184-a-1-aSD^5 (Samp) 5/21/2013, 12:33:53 PM Rack 1, Tube 6**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3657u	0.3050	-0.2420u
Al 308.215	4.8272	4.8674	6.4364
As 188.980	6.7602	3.5442	-1.3818u
B 249.678	1.0439	1.0859	0.8620
Ba 389.178	7.9557	8.0705	8.0070
Be 313.042	-0.0037	-0.0045	-0.0079u
Ca 370.602	31550	30970	30577
Cd 226.502	0.1691	0.1143	0.1049
Co 228.615	0.1358	1.0487	0.5911
Cr 267.716	0.0425	-0.0223u	0.0942
Cu 324.754	0.3844	0.0342	0.2787
Fe 271.441	486.443	485.161	482.384
K 766.491	273.030	270.462	266.545
Mg 279.078	6071.30	5970.75	5894.84
Mn 257.610	117.100	115.291	113.599
Mo 202.032	0.0058	-0.0122u	-0.1518u
Na 330.237	1771.54	1954.27	2024.62
Ni 231.604	-0.0866u	1.7443	0.7591
Pb 220.353	-1.4603u	2.6508	0.4960
Sb 206.834	-0.8719u	-3.0454u	-1.8567u
Se 196.026	6.4679	2.5880	5.0318
Sn 189.925	-0.1967u	-3.6247u	-0.4915u
Sr 216.596	47.3429	46.5545	46.4939
Ti 334.941	0.0668	0.1078	0.0408
Tl 190.794	2.2245	1.9275	0.9429
V 292.401	-0.1178u	0.0532	-0.4489u
Zn 206.200	2.1982	2.6910	3.7714

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1009	ppb	0.3569	353.7	-55.6730
Al 308.215	5.3770	ppb	0.9177	17.1	223.450
As 188.980	2.9742	ppb	4.1008	137.9	-5.3945
B 249.678	0.9972	ppb	0.1190	11.9	325.336
Ba 389.178	8.0111	ppb	0.0575	0.7	182.443
Be 313.042	-0.0054	ppb	0.0022	41.5	-223.999
Ca 370.602	31032	ppb	489.6	1.6	73957
Cd 226.502	0.1294	ppb	0.0346	26.8	27.6974
Co 228.615	0.5919	ppb	0.4564	77.1	16.1439
Cr 267.716	0.0381	ppb	0.0584	153.1	7.9241
Cu 324.754	0.2324	ppb	0.1796	77.3	150.740
Fe 271.441	484.663	ppb	2.0751	0.4	851.130
K 766.491	270.012	ppb	3.2660	1.2	9718.27
Mg 279.078	5978.96	ppb	88.5158	1.5	12634.4
Mn 257.610	115.330	ppb	1.7509	1.5	28807.1
Mo 202.032	-0.0528	ppb	0.0863	163.5	11.2066
Na 330.237	1916.81	ppb	130.636	6.8	139.266
Ni 231.604	0.8056	ppb	0.9163	113.7	2.4419
Pb 220.353	0.5622	ppb	2.0563	365.8	24.4264
Sb 206.834	-1.9246	ppb	1.0883	56.5	4.1874
Se 196.026	4.6959	ppb	1.9616	41.8	8.3780
Sn 189.925	-1.4376	ppb	1.8998	132.1	-14.2789
Sr 216.596	46.7971	ppb	0.4736	1.0	549.856
Ti 334.941	0.0718	ppb	0.0338	47.1	-6.8601
Tl 190.794	1.6983	ppb	0.6709	39.5	-13.5982
V 292.401	-0.1712	ppb	0.2553	149.1	-11.6968
Zn 206.200	2.8868	ppb	0.8047	27.9	9.6979

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680-90184-a-1-aPDS (Samp) **5/21/2013, 12:39:18 PM** **Rack 1, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	46.5339	46.7296	46.3246
Al 308.215	1837.97	1845.95	1846.08
As 188.980	2079.99	2100.50	2108.79
B 249.678	934.874	941.589	945.520
Ba 389.178	1898.26	1906.59	1902.45
Be 313.042	45.9428	46.0210	46.1181
Ca 370.602	148272	149073	148910
Cd 226.502	45.7653	45.8127	45.8829
Co 228.615	469.075	469.885	468.098
Cr 267.716	182.783	183.403	184.070
Cu 324.754	237.533	237.472	237.292
Fe 271.441	3080.69	3100.43	3096.13
K 766.491	6631.18	6635.55	6644.08
Mg 279.078	31994.6	32096.6	32071.7
Mn 257.610	990.461	993.758	994.995
Mo 202.032	491.424	494.469	494.664
Na 330.237	13804.5	13601.5	13796.8
Ni 231.604	457.914	460.759	458.731
Pb 220.353	468.249	469.587	465.722
Sb 206.834	484.432	490.411	483.406
Se 196.026	1919.08	1936.25	1917.03
Sn 189.925	948.749	946.817	947.318
Sr 216.596	680.278	679.372	679.956
Ti 334.941	928.552	931.727	932.044
Tl 190.794	1915.51	1936.65	1919.15
V 292.401	458.529	459.511	461.398
Zn 206.200	450.218	456.913	455.490

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.5294	ppb	0.2025	0.4	3500.68
Al 308.215	1843.33	ppb	4.6480	0.3	11893.8
As 188.980	2096.43	ppb	14.8228	0.7	1251.63
B 249.678	940.661	ppb	5.3834	0.6	12485.4
Ba 389.178	1902.43	ppb	4.1676	0.2	40304.0
Be 313.042	46.0273	ppb	0.0878	0.2	85860.9
Ca 370.602	148751	ppb	423.5	0.3	354544
Cd 226.502	45.8203	ppb	0.0592	0.1	1727.95
Co 228.615	469.019	ppb	0.8951	0.2	5865.55
Cr 267.716	183.419	ppb	0.6435	0.4	8947.74
Cu 324.754	237.433	ppb	0.1256	0.1	13176.0
Fe 271.441	3092.42	ppb	10.3805	0.3	5390.93
K 766.491	6636.94	ppb	6.5647	0.1	232881
Mg 279.078	32054.3	ppb	53.1818	0.2	67583.6
Mn 257.610	993.071	ppb	2.3440	0.2	247720
Mo 202.032	493.519	ppb	1.8165	0.4	3773.88
Na 330.237	13734.3	ppb	115.020	0.8	696.795
Ni 231.604	459.135	ppb	1.4648	0.3	1299.74
Pb 220.353	467.852	ppb	1.9628	0.4	854.674
Sb 206.834	486.083	ppb	3.7833	0.8	526.340
Se 196.026	1924.12	ppb	10.5547	0.5	961.680
Sn 189.925	947.628	ppb	1.0026	0.1	826.814
Sr 216.596	679.869	ppb	0.4589	0.1	7679.84
Ti 334.941	930.774	ppb	1.9314	0.2	261938
Tl 190.794	1923.77	ppb	11.2987	0.6	1843.04
V 292.401	459.813	ppb	1.4582	0.3	12029.9
Zn 206.200	454.207	ppb	3.5270	0.8	669.931

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680-90184-a-4-a (Samp) **5/21/2013, 12:44:43 PM** **Rack 1, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3909	0.2156	0.3557
Al 308.215	9.6729	7.2296	7.9445
As 188.980	1.0160	-2.9078u	-0.0764u
B 249.678	18.1570	16.0042	15.4742
Ba 389.178	1.1169	0.5484	0.0386
Be 313.042	0.0097	0.0064	0.0076
Ca 370.602	39.16	38.84	37.76
Cd 226.502	0.1382	0.1419	-0.0287u
Co 228.615	-0.3103u	-0.3814u	0.1280
Cr 267.716	0.0034	0.1443	0.1257
Cu 324.754	4.7894	4.9558	4.7113
Fe 271.441	10.7772	9.8002	12.4704
K 766.491	14.8555	14.2346	14.5757
Mg 279.078	11.2428	8.7501	11.3693
Mn 257.610	0.7848	0.7503	0.7387
Mo 202.032	-0.0445u	0.0821	0.4780
Na 330.237	163.468	-67.6560u	-9.6617u
Ni 231.604	-0.1721u	-1.2610u	0.3246
Pb 220.353	3.2662	-0.9787u	-2.7917u
Sb 206.834	-2.0171u	-1.2360u	-0.0742u
Se 196.026	3.8686	10.9094	-4.5155u
Sn 189.925	2.2565	0.8625	3.5706
Sr 216.596	-0.2433u	0.1341	-0.0748u
Ti 334.941	0.2006	0.1775	0.1717
Tl 190.794	1.3062	0.1126	4.1954
V 292.401	0.0640	-0.2364u	-0.1297u
Zn 206.200	4.5747	4.1680	3.7004

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3207	ppb	0.0927	28.9	-21.5432
Al 308.215	8.2823	ppb	1.2562	15.2	241.736
As 188.980	-0.6561	ppb	2.0251	308.7	-7.5874
B 249.678	16.5451	ppb	1.4209	8.6	527.206
Ba 389.178	0.5680	ppb	0.5394	95.0	10.1803
Be 313.042	0.0079	ppb	0.0017	20.9	-209.527
Ca 370.602	38.59	ppb	0.7309	1.9	105.7
Cd 226.502	0.0838	ppb	0.0975	116.3	24.4538
Co 228.615	-0.1879	ppb	0.2759	146.8	6.4282
Cr 267.716	0.0911	ppb	0.0766	84.0	9.8591
Cu 324.754	4.8188	ppb	0.1249	2.6	402.235
Fe 271.441	11.0159	ppb	1.3510	12.3	40.4161
K 766.491	14.5553	ppb	0.3110	2.1	764.407
Mg 279.078	10.4541	ppb	1.4770	14.1	55.3456
Mn 257.610	0.7579	ppb	0.0240	3.2	209.167
Mo 202.032	0.1719	ppb	0.2726	158.6	12.9443
Na 330.237	28.7167	ppb	120.246	418.7	48.6138
Ni 231.604	-0.3695	ppb	0.8110	219.5	-0.8947
Pb 220.353	-0.1681	ppb	3.1092	1849.8	23.1005
Sb 206.834	-1.1091	ppb	0.9776	88.1	5.0542
Se 196.026	3.4209	ppb	7.7222	225.7	7.7136
Sn 189.925	2.2299	ppb	1.3543	60.7	-11.0435
Sr 216.596	-0.0613	ppb	0.1890	308.3	17.6107
Ti 334.941	0.1833	ppb	0.0152	8.3	-2.5786
Tl 190.794	1.8714	ppb	2.0993	112.2	-13.2454
V 292.401	-0.1007	ppb	0.1523	151.2	-9.9399
Zn 206.200	4.1477	ppb	0.4375	10.5	714.4951

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680-90215-b-1-a (Samp) **5/21/2013, 12:50:09 PM** **Rack 1, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0458u	0.2067u	0.0300u
Al 308.215	15.5535	12.7984	14.0709
As 188.980	4.3957	5.6835	7.8277
B 249.678	562.357	565.414	569.542
Ba 389.178	17.9326	18.2709	19.4906
Be 313.042	-0.0078	-0.0070	-0.0072
Ca 370.602	169327	168680	169008
Cd 226.502	0.0167	0.3177	-0.0076u
Co 228.615	-0.2432u	-0.4100u	0.3781
Cr 267.716	276.841	276.406	276.767
Cu 324.754	0.9843	0.8359	1.2489
Fe 271.441	40.2955	44.3365	34.2717
K 766.491	8122.03	8089.07	8077.64
Mg 279.078	57973.6	57896.4	58100.0
Mn 257.610	2.0518	2.0157	1.9869
Mo 202.032	2.8064	2.5173	2.9576
Na 330.237	277451x	276520x	277270x
Ni 231.604	3.8772	5.0435	4.1975
Pb 220.353	-0.3463u	3.6630	-0.5175u
Sb 206.834	0.7349	-1.0857	-2.8658u
Se 196.026	21.1311	6.3453	5.0180
Sn 189.925	0.6048	-5.0309u	0.5732
Sr 216.596	4629.76	4618.42	4638.12
Ti 334.941	-0.3754	-0.3561	-0.4409
Tl 190.794	1.5479	3.2246	-3.8295u
V 292.401	50.4666	50.5483	50.5562
Zn 206.200	10.7189	12.8810	11.5838

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0942b	ppb	0.0977	103.8	-253.096
Al 308.215	14.1410b	ppb	1.3789	9.8	278.928
As 188.980	5.9690b	ppb	1.7337	29.0	-3.6089
B 249.678	565.771b	ppb	3.6062	0.6	7636.62
Ba 389.178	18.5647b	ppb	0.8195	4.4	529.657
Be 313.042	-0.0073b	ppb	0.0004	5.5	-213.751
Ca 370.602	169005b	ppb	323.7	0.2	402857
Cd 226.502	0.1089b	ppb	0.1812	166.3	24.7499
Co 228.615	-0.0917b	ppb	0.4153	452.8	8.5154
Cr 267.716	276.672b	ppb	0.2329	0.1	13495.1
Cu 324.754	1.0231b	ppb	0.2092	20.4	193.508
Fe 271.441	39.6346b	ppb	5.0649	12.8	90.3344
K 766.491	8096.25b	ppb	23.0463	0.3	284031
Mg 279.078	57990.0b	ppb	102.779	0.2	122268
Mn 257.610	2.0182b	ppb	0.0325	1.6	1035.34
Mo 202.032	2.7604b	ppb	0.2238	8.1	32.5821
Na 330.237	277080xb	ppb	493.827	0.2	13368.7
Ni 231.604	4.3727b	ppb	0.6026	13.8	12.5286
Pb 220.353	0.9330b	ppb	2.3657	253.6	25.0568
Sb 206.834	-1.0722b	ppb	1.8004	167.9	7.9824
Se 196.026	10.8315b	ppb	8.9444	82.6	11.3943
Sn 189.925	-1.2843b	ppb	3.2447	252.7	-13.9808
Sr 216.596	4628.77b	ppb	9.8885	0.2	52262.7
Ti 334.941	-0.3908b	ppb	0.0444	11.4	79.1922
Tl 190.794	0.3143b	ppb	3.6853	1172.4	-14.7334
V 292.401	50.5237b	ppb	0.0496	0.1	1307.02
Zn 206.200	11.7279b	ppb	1.0882	9.3	21.7981

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680-90215-b-1-a^10 (Samp) **5/21/2013, 12:55:46 PM** **Rack 1, Tube 10****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0310u	0.2900u	0.5273
Al 308.215	5.2062	7.6896	6.3514
As 188.980	4.3114	3.4714	6.3388
B 249.678	73.2600	72.7444	72.2190
Ba 389.178	0.7792	1.8539	1.0756
Be 313.042	0.0020	-0.0041u	0.0021
Ca 370.602	19829	19887	20197
Cd 226.502	0.1984	-0.2655u	0.0454
Co 228.615	-0.0954u	-0.4772u	-0.0721u
Cr 267.716	33.4001	33.7378	34.1045
Cu 324.754	0.0401	0.3196	0.0185
Fe 271.441	3.5077	12.7150	4.4053
K 766.491	737.383	739.640	749.918
Mg 279.078	6934.79	6974.31	7087.74
Mn 257.610	0.3190	0.2763	0.3186
Mo 202.032	0.3122	-0.0264u	0.2557
Na 330.237	29013.9	28947.6	29281.7
Ni 231.604	0.0409	0.0836	0.7412
Pb 220.353	1.5933	-1.5737u	-1.3624u
Sb 206.834	-0.7216u	3.1500	-3.1057u
Se 196.026	2.1532	-6.1297u	6.4986
Sn 189.925	0.2343	-0.3652u	4.5527
Sr 216.596	565.517	567.506	575.982
Ti 334.941	0.0616	0.0117	0.0733
Tl 190.794	2.7466	1.6387	2.7934
V 292.401	5.7193	5.6004	5.8994
Zn 206.200	1.1327	1.1348	0.7950

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2828	ppb	0.2483	87.8	-50.7680
Al 308.215	6.4157	ppb	1.2430	19.4	229.920
As 188.980	4.7072	ppb	1.4741	31.3	-4.3670
B 249.678	72.7411	ppb	0.5205	0.7	1254.64
Ba 389.178	1.2362	ppb	0.5551	44.9	41.0500
Be 313.042	-0.0000	ppb	0.0036	16028.5	-221.051
Ca 370.602	19971	ppb	197.7	1.0	47618
Cd 226.502	-0.0072	ppb	0.2364	3264.5	20.9995
Co 228.615	-0.2149	ppb	0.2275	105.8	6.2086
Cr 267.716	33.7475	ppb	0.3523	1.0	1650.76
Cu 324.754	0.1261	ppb	0.1679	133.2	144.690
Fe 271.441	6.8760	ppb	5.0766	73.8	33.4376
K 766.491	742.314	ppb	6.6818	0.9	26272.6
Mg 279.078	6998.95	ppb	79.3927	1.1	14786.1
Mn 257.610	0.3046	ppb	0.0245	8.0	157.972
Mo 202.032	0.1805	ppb	0.1814	100.5	12.9988
Na 330.237	29081.1	ppb	176.877	0.6	1445.42
Ni 231.604	0.2886	ppb	0.3926	136.0	0.9678
Pb 220.353	-0.4476	ppb	1.7706	395.6	22.6031
Sb 206.834	-0.2258	ppb	3.1572	1398.4	6.3633
Se 196.026	0.8407	ppb	6.4156	763.1	6.4324
Sn 189.925	1.4740	ppb	2.6831	182.0	-11.6939
Sr 216.596	569.668	ppb	5.5573	1.0	6448.00
Ti 334.941	0.0489	ppb	0.0327	66.9	-10.7316
Tl 190.794	2.3929	ppb	0.6535	27.3	-12.7380
V 292.401	5.7397	ppb	0.1505	2.6	141.970
Zn 206.200	1.0208	ppb	0.1956	19.2	6.8220

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680-90215-b-2-a (Samp) **5/21/2013, 1:01:13 PM** **Rack 1, Tube 11**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0114u	-0.0412u	0.1778u
Al 308.215	11.3178	13.9736	11.9145
As 188.980	8.3670	3.3977	6.7295
B 249.678	652.179	650.793	655.542
Ba 389.178	34.2131	33.0553	34.9898
Be 313.042	-0.0135	-0.0177	-0.0112
Ca 370.602	209550	208726	209596
Cd 226.502	0.0107	-0.1090u	-0.0182u
Co 228.615	-0.3087u	-1.0132u	-0.4511u
Cr 267.716	74.1233	74.1922	74.2672
Cu 324.754	3.6752	3.7102	3.8469
Fe 271.441	171.769	175.031	170.039
K 766.491	9908.38	9893.20	9928.47
Mg 279.078	66533.5	66443.2	66338.9
Mn 257.610	2.7067	2.6789	2.7204
Mo 202.032	2.6251	3.0254	2.5755
Na 330.237	311010x	312513x	312104x
Ni 231.604	2.4592	2.6690	0.5563
Pb 220.353	3.8244	1.7276	1.8418
Sb 206.834	3.4673	2.2029	-6.0524u
Se 196.026	11.7628	13.1771	10.5620
Sn 189.925	-3.0809u	-1.6541u	-0.5616u
Sr 216.596	5553.51x	5538.72x	5538.70x
Ti 334.941	-0.6507	-0.6108	-0.6003
Tl 190.794	-1.5721u	-4.6747u	-2.6971u
V 292.401	39.5983	39.4620	39.2987
Zn 206.200	77.1839	79.0434	80.1505

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0418b	ppb	0.1188	284.5	-297.977
Al 308.215	12.4020b	ppb	1.3934	11.2	268.290
As 188.980	6.1647b	ppb	2.5323	41.1	-3.4878
B 249.678	652.838b	ppb	2.4419	0.4	8763.49
Ba 389.178	34.0861b	ppb	0.9735	2.9	878.404
Be 313.042	-0.0141b	ppb	0.0033	23.3	-216.905
Ca 370.602	209291b	ppb	489.6	0.2	498875
Cd 226.502	-0.0388b	ppb	0.0624	160.8	19.6132
Co 228.615	-0.5910b	ppb	0.3725	63.0	1.5769
Cr 267.716	74.1942b	ppb	0.0719	0.1	3626.79
Cu 324.754	3.7441b	ppb	0.0907	2.4	342.963
Fe 271.441	172.280b	ppb	2.5351	1.5	316.776
K 766.491	9910.02b	ppb	17.6916	0.2	347604
Mg 279.078	66438.5b	ppb	97.3461	0.1	140077
Mn 257.610	2.7020b	ppb	0.0212	0.8	1281.73
Mo 202.032	2.7420b	ppb	0.2467	9.0	32.4556
Na 330.237	311876xb	ppb	777.224	0.2	15041.1
Ni 231.604	1.8948b	ppb	1.1640	61.4	5.5181
Pb 220.353	2.4646b	ppb	1.1790	47.8	27.7822
Sb 206.834	-0.1274b	ppb	5.1700	4057.4	6.8632
Se 196.026	11.8340b	ppb	1.3090	11.1	11.8930
Sn 189.925	-1.7655b	ppb	1.2633	71.6	-14.3771
Sr 216.596	5543.64xb	ppb	8.5455	0.2	62589.5
Ti 334.941	-0.6206b	ppb	0.0266	4.3	50.8015
Tl 190.794	-2.9813b	ppb	1.5707	52.7	-17.9322
V 292.401	39.4530b	ppb	0.1500	0.4	1026.86
Zn 206.200	78.7926b	ppb	1.4991	1.9	120.539

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680-90215-b-2-a^10 (Samp) **5/21/2013, 1:06:40 PM** **Rack 1, Tube 12****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1642u	0.3269u	0.0826u
Al 308.215	6.8318	3.8077	5.9617
As 188.980	4.8806	-0.9535u	7.5333
B 249.678	85.4542	85.4044	84.9104
Ba 389.178	3.2556	2.6308	1.9211
Be 313.042	-0.0041u	-0.0040u	-0.0045u
Ca 370.602	25297	25288	25250
Cd 226.502	0.0831	-0.1299u	0.0677
Co 228.615	-0.0448u	-0.1307u	-0.1726u
Cr 267.716	9.2365	9.0965	8.9185
Cu 324.754	0.2413	0.4774	0.4575
Fe 271.441	23.5287	25.5113	21.9254
K 766.491	897.725	895.972	892.464
Mg 279.078	8152.60	8129.48	8114.74
Mn 257.610	0.3524	0.3569	0.3546
Mo 202.032	-0.4826u	-0.0148u	0.3831
Na 330.237	32869.8	32788.6	32798.9
Ni 231.604	0.2049	0.1007	-0.3642u
Pb 220.353	4.9390	-1.2408u	-0.4371u
Sb 206.834	-1.0640u	-4.5353u	-3.2393u
Se 196.026	6.1871	-10.9148u	6.1508
Sn 189.925	-0.9283u	0.5613	-0.3162u
Sr 216.596	685.373	684.968	681.385
Ti 334.941	-0.0121	-0.0066	0.0610
Tl 190.794	-2.2481u	-1.2880u	1.1884
V 292.401	4.5041	4.1865	4.4158
Zn 206.200	9.5461	9.5643	11.2290

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1912	ppb	0.1244	65.0	-62.9475
Al 308.215	5.5337	ppb	1.5568	28.1	224.378
As 188.980	3.8202	ppb	4.3417	113.7	-4.8991
B 249.678	85.2563	ppb	0.3006	0.4	1416.62
Ba 389.178	2.6025	ppb	0.6677	25.7	72.6634
Be 313.042	-0.0042	ppb	0.0003	6.8	-227.471
Ca 370.602	25278	ppb	24.92	0.1	60267
Cd 226.502	0.0070	ppb	0.1188	1708.0	21.5791
Co 228.615	-0.1160	ppb	0.0651	56.1	7.3639
Cr 267.716	9.0838	ppb	0.1594	1.8	448.700
Cu 324.754	0.3920	ppb	0.1310	33.4	159.297
Fe 271.441	23.6551	ppb	1.7963	7.6	62.1082
K 766.491	895.387	ppb	2.6791	0.3	31637.9
Mg 279.078	8132.27	ppb	19.0870	0.2	17175.0
Mn 257.610	0.3547	ppb	0.0022	0.6	180.513
Mo 202.032	-0.0381	ppb	0.4333	1137.6	11.3337
Na 330.237	32819.1	ppb	44.1971	0.1	1625.07
Ni 231.604	-0.0195	ppb	0.3030	1553.1	0.0963
Pb 220.353	1.0870	ppb	3.3600	309.1	25.3339
Sb 206.834	-2.9462	ppb	1.7542	59.5	3.1688
Se 196.026	0.4744	ppb	9.8633	2079.2	6.2506
Sn 189.925	-0.2277	ppb	0.7488	328.8	-13.1981
Sr 216.596	683.909	ppb	2.1951	0.3	7737.55
Ti 334.941	0.0141	ppb	0.0407	289.2	-15.6595
Tl 190.794	-0.7825	ppb	1.7731	226.6	-15.8088
V 292.401	4.3688	ppb	0.1639	3.8	107.299
Zn 206.200	10.1131	ppb	0.9664	9.6	20.2009

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680-90215-b-3-a (Samp) **5/21/2013, 1:22:53 PM** **Rack 1, Tube 15**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0401u	-0.0346u	-0.0075u
Al 308.215	33.7170	30.6146	32.6732
As 188.980	8.1546	4.7796	-0.7645u
B 249.678	511.190	514.662	514.893
Ba 389.178	18.1091	18.6907	18.7316
Be 313.042	-0.0154u	-0.0062	-0.0129u
Ca 370.602	154903	154645	154923
Cd 226.502	0.0269	-0.1064u	0.1002
Co 228.615	-0.7115u	-0.5834u	-0.7183u
Cr 267.716	5.1162	5.0462	5.2521
Cu 324.754	0.4668	0.3157	0.4283
Fe 271.441	36.7669	36.1706	41.4832
K 766.491	5849.75	5863.79	5864.42
Mg 279.078	43972.6	43987.2	43942.6
Mn 257.610	-0.2039	-0.1772	-0.2119
Mo 202.032	5.4758	5.4513	5.3821
Na 330.237	236405x	237331x	238047x
Ni 231.604	2.9831	3.7728	3.5202
Pb 220.353	-0.0540u	0.7352	2.8971
Sb 206.834	-2.1329u	-1.6446u	-1.4622u
Se 196.026	12.2926	10.8274	16.0578
Sn 189.925	-4.0375u	-2.2836u	-0.6335u
Sr 216.596	3035.13	3035.54	3029.11
Ti 334.941	-0.0391	-0.1626	-0.1006
Tl 190.794	-1.3272u	-0.1801u	1.8289
V 292.401	49.2338	49.0828	48.8028
Zn 206.200	1.1151	3.2966	2.4131

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0274b	ppb	0.0175	63.7	-188.208
Al 308.215	32.3350b	ppb	1.5786	4.9	394.141
As 188.980	4.0565b	ppb	4.5033	111.0	-4.7580
B 249.678	513.582b	ppb	2.0746	0.4	6961.05
Ba 389.178	18.5105b	ppb	0.3482	1.9	494.935
Be 313.042	-0.0115b	ppb	0.0048	41.8	-222.140
Ca 370.602	154824b	ppb	154.7	0.1	369054
Cd 226.502	0.0069b	ppb	0.1047	1514.7	21.0099
Co 228.615	-0.6711b	ppb	0.0760	11.3	0.2471
Cr 267.716	5.1382b	ppb	0.1047	2.0	259.476
Cu 324.754	0.4036b	ppb	0.0785	19.5	159.615
Fe 271.441	38.1402b	ppb	2.9104	7.6	87.1316
K 766.491	5859.32b	ppb	8.2958	0.1	205626
Mg 279.078	43967.5b	ppb	22.7438	0.1	92710.8
Mn 257.610	-0.1976b	ppb	0.0182	9.2	359.644
Mo 202.032	5.4364b	ppb	0.0486	0.9	52.9895
Na 330.237	237261xb	ppb	823.593	0.3	11454.3
Ni 231.604	3.4253b	ppb	0.4033	11.8	9.8469
Pb 220.353	1.1927b	ppb	1.5278	128.1	25.5149
Sb 206.834	-1.7465b	ppb	0.3468	19.9	4.3414
Se 196.026	13.0593b	ppb	2.6982	20.7	12.4998
Sn 189.925	-2.3182b	ppb	1.7023	73.4	-14.9180
Sr 216.596	3033.26b	ppb	3.6014	0.1	34259.0
Ti 334.941	-0.1008b	ppb	0.0618	61.3	99.8892
Tl 190.794	0.1072b	ppb	1.5975	1490.3	-14.9318
V 292.401	49.0398b	ppb	0.2187	0.4	1283.55
Zn 206.200	2.2749b	ppb	1.0973	48.2	8.7432

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90215-b-3-a^10 (Samp) **5/21/2013, 1:28:17 PM** **Rack 1, Tube 16****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2691	0.0614u	0.3432
Al 308.215	7.5028	7.0419	7.7318
As 188.980	0.7032	-0.6887u	5.8972
B 249.678	65.6588	59.9676	59.2338
Ba 389.178	1.9126	0.7939	0.9272
Be 313.042	-0.0080u	-0.0049u	0.0003
Ca 370.602	18117	16899	16517
Cd 226.502	0.2069	0.2371	-0.0290u
Co 228.615	-0.5160u	-0.6247u	-0.1519u
Cr 267.716	0.8126	0.3360	0.5831
Cu 324.754	0.3420	0.0353	-0.0993u
Fe 271.441	9.6195	6.6003	7.2722
K 766.491	536.862	509.013	496.963
Mg 279.078	5295.35	4947.32	4822.78
Mn 257.610	0.0340	0.0241	0.0224
Mo 202.032	0.8876	0.9613	0.2912
Na 330.237	24910.9	23433.7	22733.6
Ni 231.604	0.9221	-0.0124u	0.6962
Pb 220.353	0.8525	-1.0186u	-0.5902u
Sb 206.834	0.0455	-3.0899u	-4.3173u
Se 196.026	3.4056	6.6728	5.7782
Sn 189.925	3.2557	-0.4210u	-1.6728u
Sr 216.596	369.713	344.933	338.371
Ti 334.941	0.1024	0.0673	0.1038
Tl 190.794	1.0937	-0.6654u	4.3209
V 292.401	5.6958	4.9525	5.1573
Zn 206.200	-0.6579u	0.3686	0.7421

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2246	ppb	0.1461	65.0	-45.0990
Al 308.215	7.4255	ppb	0.3514	4.7	236.370
As 188.980	1.9706	ppb	3.4710	176.1	-6.0103
B 249.678	61.6201	ppb	3.5168	5.7	1110.68
Ba 389.178	1.2113	ppb	0.6110	50.4	35.7858
Be 313.042	-0.0042	ppb	0.0042	99.7	-229.230
Ca 370.602	17178	ppb	835.8	4.9	40959
Cd 226.502	0.1383	ppb	0.1457	105.3	26.4066
Co 228.615	-0.4309	ppb	0.2476	57.5	3.3815
Cr 267.716	0.5773	ppb	0.2383	41.3	33.9056
Cu 324.754	0.0926	ppb	0.2262	244.2	142.878
Fe 271.441	7.8307	ppb	1.5852	20.2	34.9677
K 766.491	514.279	ppb	20.4643	4.0	18279.9
Mg 279.078	5021.82	ppb	244.935	4.9	10618.6
Mn 257.610	0.0268	ppb	0.0063	23.5	71.2994
Mo 202.032	0.7134	ppb	0.3674	51.5	17.0628
Na 330.237	23692.7	ppb	1111.52	4.7	1186.36
Ni 231.604	0.5353	ppb	0.4876	91.1	1.6662
Pb 220.353	-0.2521	ppb	0.9803	388.9	22.9503
Sb 206.834	-2.4539	ppb	2.2498	91.7	3.5988
Se 196.026	5.2855	ppb	1.6884	31.9	8.6393
Sn 189.925	0.3873	ppb	2.5617	661.4	-12.6600
Sr 216.596	351.005	ppb	16.5299	4.7	3980.51
Ti 334.941	0.0912	ppb	0.0207	22.7	-7.4520
Tl 190.794	1.5831	ppb	2.5289	159.7	-13.5210
V 292.401	5.2686	ppb	0.3839	7.3	131.420
Zn 206.200	0.1509	ppb	0.7250	480.4	5.6445

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680-90215-b-4-a (Samp) **5/21/2013, 1:33:41 PM** **Rack 1, Tube 17**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2701u	0.0545u	0.1756u
Al 308.215	845.567	842.117	842.577
As 188.980	12.9294	13.1514	16.3512
B 249.678	800.997	800.702	802.759
Ba 389.178	28.4031	27.4797	27.1507
Be 313.042	0.6998	0.7001	0.7026
Ca 370.602	191806	191284	190661
Cd 226.502	0.1779	-0.1076u	-0.2117u
Co 228.615	1.6303	1.1780	1.7641
Cr 267.716	15.8928	16.1310	15.6713
Cu 324.754	6.2394	5.8014	6.0010
Fe 271.441	683.980	684.813	672.118
K 766.491	6662.20	6603.80	6611.42
Mg 279.078	65780.9	65346.2	65390.3
Mn 257.610	66.8448	66.4530	66.3578
Mo 202.032	4.6780	5.4732	5.9298
Na 330.237	259427x	259161x	259648x
Ni 231.604	7.5162	6.9014	7.2873
Pb 220.353	5.9891	4.8758	1.5036
Sb 206.834	0.7906	-3.7863u	-3.8436u
Se 196.026	7.6773	17.4333	6.5345
Sn 189.925	-0.5045u	-4.1970u	1.5322
Sr 216.596	4087.46	4063.04	4068.99
Ti 334.941	6.7971	6.7703	6.9249
Tl 190.794	-1.0937u	-0.1174u	0.4538
V 292.401	110.906	110.150	110.720
Zn 206.200	16.5935	16.2462	16.9804

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1667b	ppb	0.1081	64.8	-221.099
Al 308.215	843.420b	ppb	1.8733	0.2	5520.47
As 188.980	14.1440b	ppb	1.9147	13.5	1.3168
B 249.678	801.486b	ppb	1.1124	0.1	10687.0
Ba 389.178	27.6778b	ppb	0.6493	2.3	741.172
Be 313.042	0.7008b	ppb	0.0015	0.2	1118.13
Ca 370.602	191250b	ppb	573.5	0.3	455846
Cd 226.502	-0.0471b	ppb	0.2017	428.1	21.1728
Co 228.615	1.5241b	ppb	0.3071	20.1	27.8420
Cr 267.716	15.8984b	ppb	0.2299	1.4	784.188
Cu 324.754	6.0139b	ppb	0.2193	3.6	466.964
Fe 271.441	680.304b	ppb	7.1011	1.0	1186.93
K 766.491	6625.81b	ppb	31.7452	0.5	232491
Mg 279.078	65505.8b	ppb	239.250	0.4	138109
Mn 257.610	66.5519b	ppb	0.2581	0.4	17180.9
Mo 202.032	5.3603b	ppb	0.6335	11.8	52.2534
Na 330.237	259412xb	ppb	243.559	0.1	12518.9
Ni 231.604	7.2350b	ppb	0.3107	4.3	20.6442
Pb 220.353	4.1229b	ppb	2.3356	56.7	30.7544
Sb 206.834	-2.2798b	ppb	2.6591	116.6	3.9028
Se 196.026	10.5484b	ppb	5.9899	56.8	11.2736
Sn 189.925	-1.0564b	ppb	2.9042	274.9	-13.7755
Sr 216.596	4073.16b	ppb	12.7356	0.3	45996.3
Ti 334.941	6.8308b	ppb	0.0826	1.2	2146.20
Tl 190.794	-0.2524b	ppb	0.7826	310.0	-15.3760
V 292.401	110.592b	ppb	0.3940	0.4	2906.43
Zn 206.200	16.6067b	ppb	0.3673	2.2	29.7511

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680-90215-b-4-a^10 (Samp) **5/21/2013, 1:39:05 PM** **Rack 1, Tube 18**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0303u	0.4030	0.1298u
Al 308.215	96.4595	94.6114	90.0808
As 188.980	7.0345	-0.8543u	5.5175
B 249.678	100.375	98.1923	96.3391
Ba 389.178	2.9446	2.2502	1.8941
Be 313.042	0.0696	0.0750	0.0600
Ca 370.602	22262	21804	21407
Cd 226.502	0.0556	0.0546	-0.1481u
Co 228.615	0.3184	0.0674	0.0596
Cr 267.716	1.8245	1.7365	1.6036
Cu 324.754	0.8811	0.4907	0.3624
Fe 271.441	81.2721	85.1951	73.9548
K 766.491	589.363	575.556	562.263
Mg 279.078	7638.72	7498.92	7325.58
Mn 257.610	7.9752	7.8348	7.6440
Mo 202.032	0.7587	0.9804	0.5780
Na 330.237	26403.7	26185.0	25181.4
Ni 231.604	0.4891	-0.2742u	1.2799
Pb 220.353	-0.1019u	-1.6346u	-0.4958u
Sb 206.834	-4.8715u	-6.1851u	-0.8968u
Se 196.026	2.1089	-0.1868u	3.3388
Sn 189.925	3.6788	0.2440	0.0358
Sr 216.596	485.127	473.986	465.380
Ti 334.941	0.9120	0.9412	0.9142
Tl 190.794	-0.6946u	1.0526	1.3191
V 292.401	12.8997	12.5659	12.3998
Zn 206.200	1.6385	1.4820	3.2370

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1675	ppb	0.2191	130.8	-55.2150
Al 308.215	93.7172	ppb	3.2820	3.5	781.778
As 188.980	3.8992	ppb	4.1860	107.4	-4.8502
B 249.678	98.3021	ppb	2.0201	2.1	1585.42
Ba 389.178	2.3629	ppb	0.5343	22.6	66.1261
Be 313.042	0.0682	ppb	0.0076	11.2	-92.7372
Ca 370.602	21825	ppb	427.9	2.0	52032
Cd 226.502	-0.0126	ppb	0.1174	930.2	21.0622
Co 228.615	0.1484	ppb	0.1472	99.2	10.6284
Cr 267.716	1.7215	ppb	0.1112	6.5	89.7003
Cu 324.754	0.5780	ppb	0.2701	46.7	169.455
Fe 271.441	80.1407	ppb	5.7049	7.1	158.865
K 766.491	575.727	ppb	13.5509	2.4	20433.7
Mg 279.078	7487.74	ppb	156.874	2.1	15816.3
Mn 257.610	7.8180	ppb	0.1663	2.1	2034.26
Mo 202.032	0.7724	ppb	0.2015	26.1	17.4945
Na 330.237	25923.3	ppb	651.778	2.5	1293.57
Ni 231.604	0.4983	ppb	0.7771	156.0	1.5630
Pb 220.353	-0.7441	ppb	0.7959	107.0	22.0776
Sb 206.834	-3.9845	ppb	2.7535	69.1	1.9607
Se 196.026	1.7537	ppb	1.7895	102.0	6.8880
Sn 189.925	1.3195	ppb	2.0458	155.0	-11.8310
Sr 216.596	474.831	ppb	9.9005	2.1	5378.17
Ti 334.941	0.9225	ppb	0.0163	1.8	237.442
Tl 190.794	0.5590	ppb	1.0938	195.7	-14.5217
V 292.401	12.6218	ppb	0.2546	2.0	325.294
Zn 206.200	2.1192	ppb	0.9712	45.8	8.5289

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680-90215-b-5-a (Samp) **5/21/2013, 1:44:30 PM** **Rack 1, Tube 19****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4261u	0.1907u	0.2675u
Al 308.215	432.047	434.299	431.155
As 188.980	10.4267	12.4298	10.2874
B 249.678	865.392	866.733	869.387
Ba 389.178	35.6089	36.5548	36.6864
Be 313.042	0.1355	0.1403	0.1421
Ca 370.602	226854	225796	225079
Cd 226.502	-0.0034	-0.0232	0.0870
Co 228.615	1.3163	1.4827	1.0946
Cr 267.716	23.1159	23.0657	22.9486
Cu 324.754	3.3859	3.4103	3.2770
Fe 271.441	554.064	550.022	557.978
K 766.491	8438.45	8414.66	8432.55
Mg 279.078	76895.6	76882.9	76560.6
Mn 257.610	24.1418	24.1829	24.0735
Mo 202.032	3.2594	4.1610	4.2677
Na 330.237	348760x	348523x	347289x
Ni 231.604	9.3098	10.4763	9.9358
Pb 220.353	2.6807	1.9197	5.1318
Sb 206.834	1.4340	-3.5102u	-0.7536u
Se 196.026	19.7429	14.3774	15.7780
Sn 189.925	-1.0506u	0.5425	-0.0826
Sr 216.596	5731.84x	5731.08x	5691.34x
Ti 334.941	7.2561	7.3345	7.2880
Tl 190.794	0.5115	-1.8062u	-1.2513u
V 292.401	69.6554	69.9326	69.8250
Zn 206.200	11.9285	12.1923	12.8899

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2948b	ppb	0.1200	40.7	-288.100
Al 308.215	432.500b	ppb	1.6205	0.4	2923.56
As 188.980	11.0480b	ppb	1.1987	10.8	-0.5453
B 249.678	867.171b	ppb	2.0332	0.2	11537.4
Ba 389.178	36.2834b	ppb	0.5878	1.6	949.635
Be 313.042	0.1393b	ppb	0.0034	2.4	71.1762
Ca 370.602	225910b	ppb	893.1	0.4	538467
Cd 226.502	0.0201b	ppb	0.0587	291.7	22.9456
Co 228.615	1.2978b	ppb	0.1947	15.0	25.1209
Cr 267.716	23.0434b	ppb	0.0858	0.4	1134.16
Cu 324.754	3.3577b	ppb	0.0710	2.1	321.589
Fe 271.441	554.022b	ppb	3.9783	0.7	970.499
K 766.491	8428.55b	ppb	12.3914	0.1	295678
Mg 279.078	76779.7b	ppb	189.886	0.2	161874
Mn 257.610	24.1327b	ppb	0.0553	0.2	6711.14
Mo 202.032	3.8960b	ppb	0.5539	14.2	41.1748
Na 330.237	348190xb	ppb	789.883	0.2	16787.3
Ni 231.604	9.9073b	ppb	0.5838	5.9	28.2050
Pb 220.353	3.2440b	ppb	1.6785	51.7	29.1750
Sb 206.834	-0.9433b	ppb	2.4776	262.7	5.4349
Se 196.026	16.6328b	ppb	2.7830	16.7	14.2835
Sn 189.925	-0.1969b	ppb	0.8027	407.7	-12.9658
Sr 216.596	5718.09xb	ppb	23.1686	0.4	64559.7
Ti 334.941	7.2929b	ppb	0.0394	0.5	2320.42
Tl 190.794	-0.8487b	ppb	1.2102	142.6	-15.9057
V 292.401	69.8043b	ppb	0.1397	0.2	1830.10
Zn 206.200	12.3369b	ppb	0.4967	4.0	2344693

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680-90215-b-5-a^10 (Samp) **5/21/2013, 1:49:55 PM** **Rack 1, Tube 20**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3575u	-0.0978u	0.3624u
Al 308.215	51.9596	52.5446	49.2989
As 188.980	7.2054	1.7982	2.1865
B 249.678	112.542	109.075	107.042
Ba 389.178	3.6354	3.0835	2.0030
Be 313.042	0.0102	0.0117	0.0140
Ca 370.602	26825	26368	25899
Cd 226.502	0.2291	-0.0222u	0.0033
Co 228.615	0.1433	0.0271	-0.0246u
Cr 267.716	2.9242	2.7596	2.7493
Cu 324.754	0.5592	0.1819	0.6307
Fe 271.441	64.5891	61.0564	66.6666
K 766.491	727.719	715.736	704.258
Mg 279.078	9220.98	9085.91	8897.43
Mn 257.610	2.9934	2.9292	2.8899
Mo 202.032	0.0875	-0.1219u	0.1410
Na 330.237	35386.3	34880.1	34445.4
Ni 231.604	0.3408	1.7825	0.4518
Pb 220.353	1.6036	1.4417	0.0046
Sb 206.834	-3.3264u	1.2191	-1.3028u
Se 196.026	3.1736	2.7767	6.2275
Sn 189.925	-0.5392u	-0.7597u	-1.1452u
Sr 216.596	694.287	683.660	674.882
Ti 334.941	1.0002	1.0151	0.9244
Tl 190.794	0.8868	2.8018	3.7386
V 292.401	7.8367	7.8236	8.0216
Zn 206.200	2.3525	0.3158	2.8435

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2074	ppb	0.2643	127.4	-61.8399
Al 308.215	51.2677	ppb	1.7299	3.4	513.432
As 188.980	3.7300	ppb	3.0160	80.9	-4.9521
B 249.678	109.553	ppb	2.7811	2.5	1731.08
Ba 389.178	2.9073	ppb	0.8303	28.6	81.3607
Be 313.042	0.0120	ppb	0.0019	16.2	-197.173
Ca 370.602	26364	ppb	463.2	1.8	62853
Cd 226.502	0.0701	ppb	0.1383	197.4	24.0434
Co 228.615	0.0486	ppb	0.0860	176.9	9.4187
Cr 267.716	2.8110	ppb	0.0981	3.5	142.979
Cu 324.754	0.4573	ppb	0.2411	52.7	162.854
Fe 271.441	64.1040	ppb	2.8364	4.4	131.371
K 766.491	715.905	ppb	11.7315	1.6	25347.0
Mg 279.078	9068.11	ppb	162.505	1.8	19147.6
Mn 257.610	2.9375	ppb	0.0522	1.8	832.183
Mo 202.032	0.0355	ppb	0.1389	390.9	11.8859
Na 330.237	34903.9	ppb	470.875	1.3	1725.34
Ni 231.604	0.8584	ppb	0.8022	93.5	2.5819
Pb 220.353	1.0166	ppb	0.8802	86.6	25.2094
Sb 206.834	-1.1367	ppb	2.2773	200.3	5.0558
Se 196.026	4.0593	ppb	1.8882	46.5	8.0315
Sn 189.925	-0.8147	ppb	0.3067	37.6	-13.7170
Sr 216.596	684.276	ppb	9.7173	1.4	7741.84
Ti 334.941	0.9799	ppb	0.0486	5.0	260.059
Tl 190.794	2.4757	ppb	1.4536	58.7	-12.6635
V 292.401	7.8940	ppb	0.1108	1.4	200.636
Zn 206.200	1.8373	ppb	1.3493	73.0	81116

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90186-c-29-b (Samp) 5/21/2013, 1:55:32 PM Rack 1, Tube 21
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0766u	0.2795	0.1666
Al 308.215	7.1105	6.2599	5.6103
As 188.980	1.9136	1.0282	-3.1021u
B 249.678	3.5566	2.8045	2.1635
Ba 389.178	0.2889	-0.4389u	0.6749
Be 313.042	0.0086	0.0121	0.0097
Ca 370.602	12.94	17.85	16.78
Cd 226.502	-0.0880u	0.0359	0.0520
Co 228.615	0.2133	0.1657	0.4436
Cr 267.716	-0.0665u	0.2716	0.1432
Cu 324.754	0.7923	0.8725	0.6360
Fe 271.441	3.4244	8.9850	3.5765
K 766.491	1.8237	1.9049	0.9383
Mg 279.078	5.1265	5.0867	3.7123
Mn 257.610	0.1779	0.1655	0.1752
Mo 202.032	-0.2609u	-0.4178u	-0.2983u
Na 330.237	66.2061	19.5436	-41.7153u
Ni 231.604	0.7865	-1.0967u	-1.2337u
Pb 220.353	4.0167	1.0160	-1.5583u
Sb 206.834	-2.2827u	0.0658	-0.7391u
Se 196.026	6.1872	0.3250	11.5593
Sn 189.925	-2.4386u	0.5928	-1.4888u
Sr 216.596	-0.1114u	0.1910	-0.3280u
Ti 334.941	0.1220	0.0783	0.0127
Tl 190.794	0.3690	1.7909	-0.6315u
V 292.401	-0.1137u	0.1401	-0.1734u
Zn 206.200	1.6919	1.3989	1.3360

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1232	ppb	0.1820	147.7	-36.6850
Al 308.215	6.3269	ppb	0.7523	11.9	229.351
As 188.980	-0.0534	ppb	2.6771	5011.0	-7.2256
B 249.678	2.8415	ppb	0.6973	24.5	349.830
Ba 389.178	0.1749	ppb	0.5656	323.3	1.8454
Be 313.042	0.0101	ppb	0.0018	18.0	-205.259
Ca 370.602	15.86	ppb	2.580	16.3	51.97
Cd 226.502	-0.0000	ppb	0.0766	227318.5	21.3253
Co 228.615	0.2742	ppb	0.1486	54.2	12.2082
Cr 267.716	0.1161	ppb	0.1707	147.0	11.0734
Cu 324.754	0.7669	ppb	0.1203	15.7	179.898
Fe 271.441	5.3286	ppb	3.1674	59.4	30.7566
K 766.491	1.5556	ppb	0.5362	34.5	308.765
Mg 279.078	4.6419	ppb	0.8052	17.3	43.1024
Mn 257.610	0.1729	ppb	0.0065	3.8	63.3347
Mo 202.032	-0.3257	ppb	0.0819	25.2	9.1507
Na 330.237	14.6782	ppb	54.1250	368.7	47.9601
Ni 231.604	-0.5146	ppb	1.1289	219.4	-1.3056
Pb 220.353	1.1582	ppb	2.7902	240.9	25.4607
Sb 206.834	-0.9853	ppb	1.1934	121.1	5.1942
Se 196.026	6.0238	ppb	5.6189	93.3	9.0059
Sn 189.925	-1.1115	ppb	1.5505	139.5	-14.0046
Sr 216.596	-0.0828	ppb	0.2607	314.8	17.3834
Ti 334.941	0.0710	ppb	0.0550	77.5	-34.1851
Tl 190.794	0.5095	ppb	1.2173	238.9	-14.5601
V 292.401	-0.0490	ppb	0.1664	339.7	-8.4843
Zn 206.200	1.4756	ppb	0.1899	12.9	74.5838

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90128-h-5-d (Samp) 5/21/2013, 2:00:58 PM Rack 1, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0576u	0.0208u	0.1796u
Al 308.215	4.9248	6.8833	4.8660
As 188.980	5.0677	1.7312	-0.9071u
B 249.678	30.0106	30.6129	29.6659
Ba 389.178	28.7086	28.8531	28.4714
Be 313.042	-0.0080	-0.0122u	-0.0100
Ca 370.602	69040	69120	69030
Cd 226.502	0.0525	-0.0418u	0.0936
Co 228.615	-0.2239u	-0.3058u	-0.4574u
Cr 267.716	0.1063	0.1213	0.2911
Cu 324.754	3.2371	2.3000	2.7737
Fe 271.441	31.6630	21.8232	23.9096
K 766.491	2529.37	2522.98	2535.03
Mg 279.078	37935.1	37985.7	37994.0
Mn 257.610	-0.9888	-1.0068	-1.0157
Mo 202.032	-0.4915u	0.1035	-0.4912u
Na 330.237	25442.3	25537.4	25601.1
Ni 231.604	1.7660	0.6947	-0.9818u
Pb 220.353	0.2721	-0.1435u	-0.0736u
Sb 206.834	-1.9833u	-5.3573u	-2.0113u
Se 196.026	1.1754	1.9431	2.7614
Sn 189.925	-4.1015u	0.0988	-4.4181u
Sr 216.596	661.778	663.216	664.417
Ti 334.941	-0.4261	-0.4404	-0.4121
Tl 190.794	-2.3661u	1.3847	-1.2989u
V 292.401	-0.2809u	-0.4780u	-0.1210u
Zn 206.200	7.7058	7.4146	6.7478

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0860	ppb	0.0831	96.7	-70.7571
Al 308.215	5.5580	ppb	1.1481	20.7	224.611
As 188.980	1.9639	ppb	2.9942	152.5	-6.0136
B 249.678	30.0965	ppb	0.4793	1.6	702.608
Ba 389.178	28.6777	ppb	0.1927	0.7	695.278
Be 313.042	-0.0100	ppb	0.0021	20.9	-223.244
Ca 370.602	69063	ppb	49.27	0.1	164633
Cd 226.502	0.0347	ppb	0.0694	199.8	23.0232
Co 228.615	-0.3290	ppb	0.1185	36.0	4.6898
Cr 267.716	0.1729	ppb	0.1026	59.4	14.2883
Cu 324.754	2.7703	ppb	0.4686	16.9	289.828
Fe 271.441	25.7986	ppb	5.1847	20.1	65.6921
K 766.491	2529.13	ppb	6.0279	0.2	88901.0
Mg 279.078	37971.6	ppb	31.8671	0.1	80072.3
Mn 257.610	-1.0037	ppb	0.0137	1.4	105.443
Mo 202.032	-0.2931	ppb	0.3434	117.2	9.3985
Na 330.237	25526.9	ppb	79.8867	0.3	1274.49
Ni 231.604	0.4930	ppb	1.3849	280.9	1.5468
Pb 220.353	0.0183	ppb	0.2225	1212.8	23.4328
Sb 206.834	-3.1173	ppb	1.9400	62.2	2.8929
Se 196.026	1.9600	ppb	0.7931	40.5	6.9882
Sn 189.925	-2.8069	ppb	2.5214	89.8	-15.4664
Sr 216.596	663.137	ppb	1.3214	0.2	7507.96
Ti 334.941	-0.4262	ppb	0.0141	3.3	-3.3891
Tl 190.794	-0.7601	ppb	1.9326	254.3	-15.7890
V 292.401	-0.2933	ppb	0.1788	61.0	-14.6804
Zn 206.200	7.2894	ppb	0.4911	6.7	16.0941

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680-90128-h-7-d (Samp) 5/21/2013, 2:06:24 PM Rack 1, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4507	-0.0170u	0.3356u
Al 308.215	8.5658	8.4762	5.0555
As 188.980	9.9577	0.9685	3.3667
B 249.678	28.1504	28.0259	27.9253
Ba 389.178	26.3492	26.6822	26.7507
Be 313.042	-0.0189u	-0.0169u	-0.0100u
Ca 370.602	64851	64891	64835
Cd 226.502	0.0652	-0.0263u	-0.1301u
Co 228.615	-0.5276u	0.0733	-0.0533u
Cr 267.716	0.1995	0.0471	0.0210
Cu 324.754	4.5704	4.4611	4.0848
Fe 271.441	28.6412	24.5546	17.9014
K 766.491	2501.68	2495.84	2495.36
Mg 279.078	36474.9	36482.4	36415.6
Mn 257.610	-0.9090	-0.9125	-0.8854
Mo 202.032	0.3120	0.0522	-0.3136u
Na 330.237	26589.0	26711.0	26823.4
Ni 231.604	0.3907	0.6934	1.6967
Pb 220.353	2.3161	-0.0411u	0.1568
Sb 206.834	-2.6515u	-2.3429u	-3.4639u
Se 196.026	1.6934	-4.3401u	-0.2584u
Sn 189.925	-3.0160u	-3.2438u	1.4070
Sr 216.596	645.552	644.431	642.525
Ti 334.941	-0.4004	-0.3898	-0.4364
Tl 190.794	-0.5260u	-1.9389u	-1.6137u
V 292.401	-0.2614u	-0.2623u	-0.5024u
Zn 206.200	9.7785	9.4987	9.4138

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2564	ppb	0.2437	95.0	-56.7179
Al 308.215	7.3658	ppb	2.0013	27.2	236.040
As 188.980	4.7643	ppb	4.6547	97.7	-4.3322
B 249.678	28.0339	ppb	0.1127	0.4	675.914
Ba 389.178	26.5941	ppb	0.2148	0.8	647.600
Be 313.042	-0.0153	ppb	0.0046	30.4	-234.531
Ca 370.602	64859	ppb	29.21	0.0	154613
Cd 226.502	-0.0304	ppb	0.0977	321.5	20.5744
Co 228.615	-0.1692	ppb	0.3168	187.2	6.6706
Cr 267.716	0.0892	ppb	0.0964	108.1	10.2265
Cu 324.754	4.3721	ppb	0.2548	5.8	377.723
Fe 271.441	23.6991	ppb	5.4208	22.9	62.1225
K 766.491	2497.62	ppb	3.5158	0.1	87796.9
Mg 279.078	36457.6	ppb	36.5852	0.1	76881.1
Mn 257.610	-0.9023	ppb	0.0147	1.6	117.309
Mo 202.032	0.0169	ppb	0.3143	1861.5	11.7623
Na 330.237	26707.8	ppb	117.258	0.4	1331.25
Ni 231.604	0.9269	ppb	0.6836	73.8	2.7750
Pb 220.353	0.8106	ppb	1.3076	161.3	24.8420
Sb 206.834	-2.8194	ppb	0.5791	20.5	3.2091
Se 196.026	-0.9684	ppb	3.0787	317.9	5.5342
Sn 189.925	-1.6176	ppb	2.6219	162.1	-14.4139
Sr 216.596	644.169	ppb	1.5304	0.2	7293.48
Ti 334.941	-0.4089	ppb	0.0244	6.0	-5.4764
Tl 190.794	-1.3595	ppb	0.7400	54.4	-16.3683
V 292.401	-0.3420	ppb	0.1389	40.6	-16.0434
Zn 206.200	9.5637	ppb	0.1999	2.1	194.223

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460-55825-a-1-a (Samp) **5/21/2013, 2:30:42 PM** **Rack 1, Tube 27**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2227	0.2673	0.2004
Al 308.215	30.5379	30.6697	30.3336
As 188.980	2.7365	6.9465	-2.2406u
B 249.678	10979.2x	11230.4x	11174.0x
Ba 389.178	1.0257	1.3938	1.1071
Be 313.042	0.0130	0.0193	0.0083u
Ca 370.602	864.1	877.4	869.3
Cd 226.502	0.1135	0.1548	0.2197
Co 228.615	0.5287	0.1029	0.2598
Cr 267.716	0.2615	0.2507	0.2250
Cu 324.754	29.7619	30.0524	29.8469
Fe 271.441	62.2916	56.4833	58.1587
K 766.491	570.404	575.147	567.074
Mg 279.078	307.236	307.768	301.150
Mn 257.610	1.1477	1.2008	1.1840
Mo 202.032	0.0676	0.6634	0.0468
Na 330.237	205515x	208620x	205922x
Ni 231.604	0.3395	-1.7082u	-0.2297u
Pb 220.353	-0.3422u	-0.6672u	1.3061
Sb 206.834	-4.6059u	-3.9743u	-0.5994u
Se 196.026	10.1910	-0.7523u	0.7322
Sn 189.925	0.6549	0.3315	-4.1036u
Sr 216.596	2.6166	2.9172	2.5827
Ti 334.941	0.1263	0.1443	0.0933
Tl 190.794	1.3449	4.4276	2.8457
V 292.401	0.2395	0.4697	0.2063
Zn 206.200	3.5886	4.0703	4.0245

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2301b	ppb	0.0341	14.8	-28.6107
Al 308.215	30.5137b	ppb	0.1694	0.6	382.305
As 188.980	2.4808b	ppb	4.5989	185.4	-5.7024
B 249.678	11127.8xb	ppb	131.796	1.2	144357
Ba 389.178	1.1755b	ppb	0.1933	16.4	23.7959
Be 313.042	0.0135b	ppb	0.0055	40.5	-221.356
Ca 370.602	870.3b	ppb	6.720	0.8	2085
Cd 226.502	0.1627b	ppb	0.0536	32.9	26.4450
Co 228.615	0.2971b	ppb	0.2154	72.5	12.4716
Cr 267.716	0.2457b	ppb	0.0188	7.6	20.9562
Cu 324.754	29.8871b	ppb	0.1493	0.5	1777.67
Fe 271.441	58.9779b	ppb	2.9895	5.1	122.578
K 766.491	570.875b	ppb	4.0569	0.7	20263.6
Mg 279.078	305.384b	ppb	3.6767	1.2	677.014
Mn 257.610	1.1775b	ppb	0.0271	2.3	315.299
Mo 202.032	0.2592b	ppb	0.3502	135.1	13.6072
Na 330.237	206685xb	ppb	1687.74	0.8	9984.27
Ni 231.604	-0.5328b	ppb	1.0570	198.4	-1.3557
Pb 220.353	0.0989b	ppb	1.0580	1069.8	23.5759
Sb 206.834	-3.0599b	ppb	2.1541	70.4	2.9492
Se 196.026	3.3903b	ppb	5.9361	175.1	7.6988
Sn 189.925	-1.0391b	ppb	2.6589	255.9	-13.8656
Sr 216.596	2.7055b	ppb	0.1841	6.8	48.9355
Ti 334.941	0.1213b	ppb	0.0259	21.3	-34.0382
Tl 190.794	2.8727b	ppb	1.5416	53.7	-12.2803
V 292.401	0.3052b	ppb	0.1435	47.0	-0.7581
Zn 206.200	3.8945b	ppb	0.2659	6.8	714.1290

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460-55825-a-1-b ms (Samp) 5/21/2013, 2:36:06 PM Rack 1, Tube 28**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.1921	52.3411	52.4528
Al 308.215	5214.26	5226.83	5244.87
As 188.980	117.276	108.419	119.853
B 249.678	11754.7x	11870.4x	11974.3x
Ba 389.178	101.172	101.592	101.382
Be 313.042	51.8738	52.0168	52.1430
Ca 370.602	5808	5815	5811
Cd 226.502	51.3267	51.5870	51.7294
Co 228.615	51.8229	51.1009	50.9671
Cr 267.716	102.789	103.473	103.106
Cu 324.754	133.481	133.102	134.079
Fe 271.441	4969.96	4985.19	4995.51
K 766.491	6706.48	6740.08	6732.54
Mg 279.078	5222.00	5223.59	5257.65
Mn 257.610	521.393	522.941	523.695
Mo 202.032	104.211	103.895	104.476
Na 330.237	215885x	214593x	217895x
Ni 231.604	101.691	99.1540	100.937
Pb 220.353	54.1430	55.0242	54.2976
Sb 206.834	53.3068	55.1472	53.9520
Se 196.026	103.209	110.813	110.220
Sn 189.925	199.474	200.616	200.819
Sr 216.596	103.963	103.774	104.250
Ti 334.941	100.548	100.803	100.905
Tl 190.794	40.9588	40.6467	40.6975
V 292.401	102.597	103.236	102.974
Zn 206.200	104.041	106.044	104.395

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.3287b	ppb	0.1308	0.2	3968.55
Al 308.215	5228.65b	ppb	15.3850	0.3	33243.4
As 188.980	115.183b	ppb	5.9974	5.2	62.0805
B 249.678	11866.5xb	ppb	109.850	0.9	153912
Ba 389.178	101.382b	ppb	0.2097	0.2	2161.20
Be 313.042	52.0112b	ppb	0.1347	0.3	97061.8
Ca 370.602	5811b	ppb	3.677	0.1	13589
Cd 226.502	51.5477b	ppb	0.2042	0.4	1944.40
Co 228.615	51.2970b	ppb	0.4604	0.9	647.531
Cr 267.716	103.123b	ppb	0.3424	0.3	5037.71
Cu 324.754	133.554b	ppb	0.4928	0.4	7469.21
Fe 271.441	4983.55b	ppb	12.8572	0.3	8559.38
K 766.491	6726.37b	ppb	17.6292	0.3	236016
Mg 279.078	5234.42b	ppb	20.1361	0.4	11057.8
Mn 257.610	522.677b	ppb	1.1735	0.2	130295
Mo 202.032	104.194b	ppb	0.2908	0.3	805.697
Na 330.237	216124xb	ppb	1664.36	0.8	10435.3
Ni 231.604	100.594b	ppb	1.3027	1.3	284.982
Pb 220.353	54.4883b	ppb	0.4706	0.9	120.342
Sb 206.834	54.1353b	ppb	0.9338	1.7	64.8559
Se 196.026	108.080b	ppb	4.2292	3.9	59.8403
Sn 189.925	200.303b	ppb	0.7251	0.4	164.563
Sr 216.596	103.996b	ppb	0.2396	0.2	1188.69
Ti 334.941	100.752b	ppb	0.1836	0.2	28298.0
Tl 190.794	40.7677b	ppb	0.1674	0.4	23.3928
V 292.401	102.936b	ppb	0.3214	0.3	2681.74
Zn 206.200	104.827b	ppb	1.0693	1.0	159.043

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460-55825-a-1-c msd (Samp) 5/21/2013, 2:41:40 PM Rack 1, Tube 29**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.9219	51.8019	51.8392
Al 308.215	5209.00	5245.28	5223.49
As 188.980	111.667	118.609	116.341
B 249.678	12409.4x	12542.9x	12556.1x
Ba 389.178	101.104	100.792	100.299
Be 313.042	51.7331	51.8970	51.8074
Ca 370.602	5819	5849	5826
Cd 226.502	51.2885	51.6943	51.0085
Co 228.615	50.8881	51.3729	51.1039
Cr 267.716	103.358	103.473	102.914
Cu 324.754	148.626	149.700	150.318
Fe 271.441	4987.28	5011.50	4994.66
K 766.491	6708.46	6772.06	6734.87
Mg 279.078	5210.84	5231.50	5226.02
Mn 257.610	520.324	521.847	520.560
Mo 202.032	103.560	104.344	104.941
Na 330.237	215810x	218291x	218218x
Ni 231.604	571.086	571.127	570.069
Pb 220.353	51.8275	51.3073	51.9962
Sb 206.834	46.8952	55.6982	46.0074
Se 196.026	118.989	94.9976	103.871
Sn 189.925	200.458	199.575	197.699
Sr 216.596	102.986	103.315	102.487
Ti 334.941	100.227	100.648	100.467
Tl 190.794	38.4467	42.9259	40.7176
V 292.401	103.144	103.122	102.468
Zn 206.200	104.819	104.156	104.025

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.8543b	ppb	0.0614	0.1	3932.27
Al 308.215	5225.92b	ppb	18.2659	0.3	33226.3
As 188.980	115.539b	ppb	3.5398	3.1	62.2947
B 249.678	12502.8xb	ppb	81.1210	0.6	162149
Ba 389.178	100.732b	ppb	0.4059	0.4	2147.47
Be 313.042	51.8125b	ppb	0.0820	0.2	96689.8
Ca 370.602	5831b	ppb	15.38	0.3	13635
Cd 226.502	51.3304b	ppb	0.3448	0.7	1936.40
Co 228.615	51.1216b	ppb	0.2429	0.5	645.333
Cr 267.716	103.248b	ppb	0.2950	0.3	5043.86
Cu 324.754	149.548b	ppb	0.8563	0.6	8346.77
Fe 271.441	4997.81b	ppb	12.4152	0.2	8583.75
K 766.491	6738.46b	ppb	31.9536	0.5	236440
Mg 279.078	5222.79b	ppb	10.7037	0.2	11033.3
Mn 257.610	520.910b	ppb	0.8198	0.2	129855
Mo 202.032	104.282b	ppb	0.6924	0.7	806.365
Na 330.237	217440xb	ppb	1411.65	0.6	10498.5
Ni 231.604	570.761b	ppb	0.5992	0.1	1615.73
Pb 220.353	51.7103b	ppb	0.3591	0.7	115.399
Sb 206.834	49.5336b	ppb	5.3571	10.8	59.8869
Se 196.026	105.953b	ppb	12.1306	11.4	58.7834
Sn 189.925	199.244b	ppb	1.4088	0.7	163.625
Sr 216.596	102.929b	ppb	0.4171	0.4	1168.28
Ti 334.941	100.447b	ppb	0.2111	0.2	28212.1
Tl 190.794	40.6967b	ppb	2.2397	5.5	23.3259
V 292.401	102.911b	ppb	0.3840	0.4	2681.06
Zn 206.200	104.333b	ppb	0.4256	0.4	158.323

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460-55825-a-1-a^10 (Samp) **5/21/2013, 2:47:16 PM** **Rack 1, Tube 30****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1481	0.3326	-0.0995u
Al 308.215	6.6517	8.5697	5.8462
As 188.980	0.2736	-4.1341u	-1.1351u
B 249.678	1535.19	1489.44	1485.02
Ba 389.178	0.3846	0.1426	-0.0486u
Be 313.042	0.0081	0.0010u	0.0027
Ca 370.602	83.12	88.27	87.45
Cd 226.502	0.0297	0.0819	-0.0787u
Co 228.615	0.2414	0.0147	-0.1426u
Cr 267.716	0.1629	-0.1525u	0.1049
Cu 324.754	2.7979	3.0689	3.1976
Fe 271.441	6.0588	9.2545	11.5955
K 766.491	51.7964	50.8352	50.8917
Mg 279.078	33.1554	35.3528	29.4515
Mn 257.610	0.2329	0.2099	0.2093
Mo 202.032	0.4314	-0.0389u	-0.0095u
Na 330.237	20434.5	19907.6	19599.0
Ni 231.604	-0.1772u	-0.8087u	-0.3806u
Pb 220.353	2.7086	-2.7909u	-0.1151u
Sb 206.834	-1.3152u	2.3332	-5.4097u
Se 196.026	5.4106	-6.1719u	-2.5947u
Sn 189.925	-0.7041u	-0.3278u	-0.1868u
Sr 216.596	0.5880	0.1654	0.1144
Ti 334.941	0.0851	0.0659	0.0969
Tl 190.794	3.5241	-1.7876u	1.2443
V 292.401	0.0870	0.0266	-0.0005u
Zn 206.200	-0.3937u	-0.8009u	0.0383

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1271	ppb	0.2168	170.6	-36.4124
Al 308.215	7.0225	ppb	1.3991	19.9	233.812
As 188.980	-1.6652	ppb	2.2512	135.2	-8.1935
B 249.678	1503.21	ppb	27.7780	1.8	19771.4
Ba 389.178	0.1595	ppb	0.2171	136.1	1.5910
Be 313.042	0.0039	ppb	0.0037	95.3	-219.163
Ca 370.602	86.28	ppb	2.764	3.2	219.7
Cd 226.502	0.0110	ppb	0.0819	747.9	21.6315
Co 228.615	0.0379	ppb	0.1930	509.9	9.2438
Cr 267.716	0.0384	ppb	0.1678	436.7	7.6300
Cu 324.754	3.0215	ppb	0.2040	6.8	303.612
Fe 271.441	8.9696	ppb	2.7793	31.0	36.9490
K 766.491	51.1744	ppb	0.5394	1.1	2047.92
Mg 279.078	32.6532	ppb	2.9825	9.1	102.146
Mn 257.610	0.2174	ppb	0.0135	6.2	74.5688
Mo 202.032	0.1277	ppb	0.2635	206.3	12.6075
Na 330.237	19980.4	ppb	422.495	2.1	1007.89
Ni 231.604	-0.4555	ppb	0.3223	70.8	-1.1383
Pb 220.353	-0.0658	ppb	2.7501	4180.1	23.2825
Sb 206.834	-1.4639	ppb	3.8736	264.6	4.6703
Se 196.026	-1.1187	ppb	5.9307	530.1	5.4594
Sn 189.925	-0.4062	ppb	0.2674	65.8	-13.3723
Sr 216.596	0.2893	ppb	0.2600	89.9	21.5819
Ti 334.941	0.0826	ppb	0.0156	18.9	-32.2752
Tl 190.794	0.9936	ppb	2.6647	268.2	-14.0925
V 292.401	0.0377	ppb	0.0448	118.8	-6.4238
Zn 206.200	-0.3854	ppb	0.4197	511.8	794.8606

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

460-55825-a-1-b ms (Samp) **5/21/2013, 2:52:53 PM** **Rack 1, Tube 31**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	5.9526	5.9980	6.0911
Al 308.215	580.708	570.245	558.868
As 188.980	17.6874	14.9594	18.7574
B 249.678	1494.46	1471.99	1456.15
Ba 389.178	11.3568	12.0548	12.1134
Be 313.042	5.8487	5.7251	5.6686
Ca 370.602	656.9	642.8	631.2
Cd 226.502	6.0425	5.8208	5.7680
Co 228.615	5.9071	5.3172	5.3108
Cr 267.716	11.3954	11.3901	11.1028
Cu 324.754	14.8713	14.5657	14.3653
Fe 271.441	569.724	559.362	551.084
K 766.491	624.324	612.457	603.795
Mg 279.078	608.382	590.538	583.004
Mn 257.610	59.3423	58.1377	57.3868
Mo 202.032	11.3538	10.8081	11.2658
Na 330.237	22189.8	21939.5	21478.8
Ni 231.604	10.8774	10.4135	11.9447
Pb 220.353	4.5870	6.2019	7.0440
Sb 206.834	7.4961	1.2233	3.3696
Se 196.026	17.7833	14.0603	16.6755
Sn 189.925	23.7207	22.4126	22.0096
Sr 216.596	11.7474	11.0119	11.0697
Ti 334.941	11.3730	11.1608	11.0076
Tl 190.794	8.2756	6.1541	4.9348
V 292.401	11.7162	11.3121	10.8404
Zn 206.200	12.1501	12.8070	11.0883

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.0139	ppb	0.0706	1.2	415.258
Al 308.215	569.940	ppb	10.9234	1.9	3792.31
As 188.980	17.1347	ppb	1.9584	11.4	3.1079
B 249.678	1474.20	ppb	19.2486	1.3	19395.1
Ba 389.178	11.8417	ppb	0.4209	3.6	250.713
Be 313.042	5.7475	ppb	0.0921	1.6	10526.5
Ca 370.602	643.6	ppb	12.87	2.0	1517
Cd 226.502	5.8771	ppb	0.1457	2.5	240.569
Co 228.615	5.5117	ppb	0.3424	6.2	77.4171
Cr 267.716	11.2961	ppb	0.1674	1.5	556.624
Cu 324.754	14.6008	ppb	0.2548	1.7	939.329
Fe 271.441	560.057	ppb	9.3393	1.7	981.038
K 766.491	613.526	ppb	10.3061	1.7	21758.5
Mg 279.078	593.974	ppb	13.0335	2.2	1284.34
Mn 257.610	58.2889	ppb	0.9865	1.7	14548.6
Mo 202.032	11.1426	ppb	0.2930	2.6	96.5495
Na 330.237	21869.4	ppb	360.682	1.6	1098.38
Ni 231.604	11.0785	ppb	0.7852	7.1	31.5201
Pb 220.353	5.9443	ppb	1.2485	21.0	33.9758
Sb 206.834	4.0296	ppb	3.1880	79.1	10.6250
Se 196.026	16.1730	ppb	1.9117	11.8	14.0631
Sn 189.925	22.7143	ppb	0.8945	3.9	7.1173
Sr 216.596	11.2763	ppb	0.4090	3.6	145.215
Ti 334.941	11.1805	ppb	0.1835	1.6	3092.28
Tl 190.794	6.4549	ppb	1.6906	26.2	-8.9207
V 292.401	11.2896	ppb	0.4383	3.9	287.740
Zn 206.200	12.0151	ppb	0.8673	7.2	23.0325

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460-55825-a-1-c msd (Samp) 5/21/2013, 3:00:55 PM Rack 1, Tube 32**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	5.8645	6.2643	5.8392
Al 308.215	573.822	562.433	563.566
As 188.980	12.8576	15.4225	17.8783
B 249.678	1451.95	1432.01	1440.37
Ba 389.178	11.2146	11.4347	11.2612
Be 313.042	5.7801	5.6625	5.6612
Ca 370.602	643.5	641.8	633.3
Cd 226.502	5.8172	5.4951	5.6793
Co 228.615	5.6662	5.5837	5.7153
Cr 267.716	11.5319	10.9078	11.0571
Cu 324.754	16.4164	16.6791	17.1969
Fe 271.441	569.434	550.003	550.812
K 766.491	619.069	604.920	602.386
Mg 279.078	602.972	587.688	580.219
Mn 257.610	58.5899	57.2006	57.4666
Mo 202.032	11.7037	10.9050	11.5473
Na 330.237	22223.5	21610.5	21789.3
Ni 231.604	63.4311	61.9384	62.1229
Pb 220.353	6.6533	6.4106	4.5232
Sb 206.834	5.5126	7.4596	7.1336
Se 196.026	15.4161	12.6790	15.2649
Sn 189.925	23.0248	23.1155	19.4360
Sr 216.596	11.8310	11.0008	11.1424
Ti 334.941	11.1674	10.9378	11.0647
Tl 190.794	7.2520	9.7544	4.3997
V 292.401	11.0700	11.3217	10.9128
Zn 206.200	11.9413	12.1360	11.3067

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.9893	ppb	0.2385	4.0	413.370
Al 308.215	566.607	ppb	6.2739	1.1	3771.29
As 188.980	15.3861	ppb	2.5105	16.3	2.0577
B 249.678	1441.44	ppb	10.0149	0.7	18971.1
Ba 389.178	11.3035	ppb	0.1160	1.0	239.318
Be 313.042	5.7013	ppb	0.0682	1.2	10440.0
Ca 370.602	639.5	ppb	5.421	0.8	1508
Cd 226.502	5.6639	ppb	0.1616	2.9	232.657
Co 228.615	5.6551	ppb	0.0665	1.2	79.1928
Cr 267.716	11.1656	ppb	0.3259	2.9	550.266
Cu 324.754	16.7642	ppb	0.3971	2.4	1058.04
Fe 271.441	556.750	ppb	10.9925	2.0	975.399
K 766.491	608.792	ppb	8.9898	1.5	21592.6
Mg 279.078	590.293	ppb	11.5983	2.0	1276.59
Mn 257.610	57.7524	ppb	0.7374	1.3	14414.9
Mo 202.032	11.3853	ppb	0.4233	3.7	98.4013
Na 330.237	21874.4	ppb	315.265	1.4	1098.63
Ni 231.604	62.4975	ppb	0.8138	1.3	177.054
Pb 220.353	5.8624	ppb	1.1661	19.9	33.8295
Sb 206.834	6.7019	ppb	1.0428	15.6	13.5042
Se 196.026	14.4534	ppb	1.5385	10.6	13.2091
Sn 189.925	21.8588	ppb	2.0986	9.6	6.3592
Sr 216.596	11.3247	ppb	0.4441	3.9	144.833
Ti 334.941	11.0566	ppb	0.1150	1.0	3057.42
Tl 190.794	7.1354	ppb	2.6793	37.5	-8.2620
V 292.401	11.1015	ppb	0.2063	1.9	282.740
Zn 206.200	11.7947	ppb	0.4337	3.7	227.097

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

460-55825-a-2-a^10 (Samp) **5/21/2013, 3:06:21 PM** **Rack 1, Tube 34****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1623	-0.3106u	-0.7532u
Al 308.215	5.5153	5.9347	4.7098
As 188.980	3.4455	-3.1704u	3.3463
B 249.678	176125x	175120x	173984x
Ba 389.178	4.0990	3.6307	4.4357
Be 313.042	-0.0028u	0.0043	0.0022
Ca 370.602	296.8	293.2	289.8
Cd 226.502	0.1764	0.4097	0.2227
Co 228.615	0.2538	0.3192	0.6307
Cr 267.716	0.3514	0.3573	0.1652
Cu 324.754	3.7541	3.5082	3.1303
Fe 271.441	26.8422	32.2919	25.7861
K 766.491	45.5502	44.5406	44.1047
Mg 279.078	89.9469	85.4304	84.6879
Mn 257.610	0.1596	0.1358	0.1680
Mo 202.032	-0.0874u	0.2709	0.0018
Na 330.237	21495.7	21135.1	21145.3
Ni 231.604	1.6203	1.9211	1.2895
Pb 220.353	-2.2227u	-5.3381u	-4.4401u
Sb 206.834	-0.8407u	0.8100	-2.9643u
Se 196.026	-1.9022u	1.8613	-5.1083u
Sn 189.925	0.1330	1.6118	-1.6635u
Sr 216.596	0.8181	0.4565	0.7101
Ti 334.941	0.0255	-0.0429u	-0.0283u
Tl 190.794	0.9607	0.6107	1.0121
V 292.401	-0.1014u	-0.0651u	-0.1614u
Zn 206.200	0.6571	-0.1294u	0.1440

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3005b	ppb	0.4578	152.4	-69.2412
Al 308.215	5.3866b	ppb	0.6225	11.6	223.572
As 188.980	1.2071b	ppb	3.7913	314.1	-6.4681
B 249.678	175076xb	ppb	1071.15	0.6	2266583
Ba 389.178	4.0551b	ppb	0.4043	10.0	84.1126
Be 313.042	0.0012b	ppb	0.0036	296.0	-224.233
Ca 370.602	293.3b	ppb	3.512	1.2	711.7
Cd 226.502	0.2696b	ppb	0.1235	45.8	31.2792
Co 228.615	0.4012b	ppb	0.2014	50.2	13.7748
Cr 267.716	0.2913b	ppb	0.1092	37.5	19.9813
Cu 324.754	3.4642b	ppb	0.3142	9.1	327.913
Fe 271.441	28.3067b	ppb	3.4914	12.3	70.0984
K 766.491	44.7319b	ppb	0.7415	1.7	1822.11
Mg 279.078	86.6884b	ppb	2.8463	3.3	216.051
Mn 257.610	0.1545b	ppb	0.0167	10.8	59.4382
Mo 202.032	0.0617b	ppb	0.1865	302.1	12.1036
Na 330.237	21258.7b	ppb	205.335	1.0	1069.33
Ni 231.604	1.6103b	ppb	0.3159	19.6	4.7094
Pb 220.353	-4.0003b	ppb	1.6036	40.1	16.2820
Sb 206.834	-0.9984b	ppb	1.8921	189.5	5.1774
Se 196.026	-1.7164b	ppb	3.4885	203.2	5.1627
Sn 189.925	0.0271b	ppb	1.6402	6053.9	-12.9878
Sr 216.596	0.6615b	ppb	0.1856	28.1	25.7788
Ti 334.941	-0.0152b	ppb	0.0361	236.9	-59.6497
Tl 190.794	0.8612b	ppb	0.2184	25.4	-14.2216
V 292.401	-0.1093b	ppb	0.0486	44.5	-10.3138
Zn 206.200	0.2239b	ppb	0.3993	514.3	5.7541

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680-90250-e-1-a (Samp) **5/21/2013, 3:12:25 PM** **Rack 1, Tube 35**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0535u	0.0601u	0.0553u
Al 308.215	939.273	940.792	941.035
As 188.980	4.5062	20.7642	12.2740
B 249.678	3544.90	3372.47	3209.17
Ba 389.178	43.8226	44.8104	44.8991
Be 313.042	0.4095	0.4022	0.3940
Ca 370.602	332931	330559	332999
Cd 226.502	0.1643	-0.1498	0.1912
Co 228.615	5.0206	4.3052	4.9489
Cr 267.716	17.4243	17.2302	17.0809
Cu 324.754	7.9774	7.8448	7.8445
Fe 271.441	3224.21	3211.71	3213.73
K 766.491	9977.53	9997.23	10050.6
Mg 279.078	86703.5	86455.6	86479.8
Mn 257.610	164.570	164.211	164.289
Mo 202.032	5.9628	6.4547	6.1224
Na 330.237	421130x	422298x	422146x
Ni 231.604	18.5548	19.8066	19.4813
Pb 220.353	8.7901	6.7877	8.4743
Sb 206.834	-5.8522u	-1.5320u	-0.6791u
Se 196.026	26.2900	5.4112	8.7238
Sn 189.925	-0.3720u	-0.1816	-1.3147u
Sr 216.596	7355.69x	7331.37x	7319.13x
Ti 334.941	8.3697	8.3352	8.2980
Tl 190.794	-0.4820u	-0.1766u	0.2783u
V 292.401	105.122	104.495	105.211
Zn 206.200	21.7641	23.7039	22.6036

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0206b	ppb	0.0642	311.3	-382.843
Al 308.215	940.366b	ppb	0.9548	0.1	6134.10
As 188.980	12.5148b	ppb	8.1317	65.0	0.4075
B 249.678	3375.51b	ppb	167.886	5.0	44003.1
Ba 389.178	44.5107b	ppb	0.5976	1.3	1150.30
Be 313.042	0.4019b	ppb	0.0077	1.9	588.989
Ca 370.602	332163b	ppb	1390	0.4	791576
Cd 226.502	0.0686b	ppb	0.1896	276.5	32.8304
Co 228.615	4.7582b	ppb	0.3940	8.3	68.1055
Cr 267.716	17.2452b	ppb	0.1722	1.0	853.734
Cu 324.754	7.8889b	ppb	0.0766	1.0	570.749
Fe 271.441	3216.55b	ppb	6.7086	0.2	5527.90
K 766.491	10008.5b	ppb	37.8074	0.4	351054
Mg 279.078	86546.3b	ppb	136.663	0.2	182459
Mn 257.610	164.357b	ppb	0.1890	0.1	41739.7
Mo 202.032	6.1799b	ppb	0.2509	4.1	58.3811
Na 330.237	421858xb	ppb	634.536	0.2	20328.3
Ni 231.604	19.2809b	ppb	0.6495	3.4	54.7954
Pb 220.353	8.0174b	ppb	1.0766	13.4	37.7049
Sb 206.834	-2.6878b	ppb	2.7734	103.2	3.5254
Se 196.026	13.4750b	ppb	11.2210	83.3	12.7662
Sn 189.925	-0.6228b	ppb	0.6067	97.4	-13.2691
Sr 216.596	7335.40xb	ppb	18.6120	0.3	82820.0
Ti 334.941	8.3343b	ppb	0.0359	0.4	2652.34
Tl 190.794	-0.1267b	ppb	0.3826	301.8	-15.5219
V 292.401	104.943b	ppb	0.3901	0.4	2756.31
Zn 206.200	22.6906b	ppb	0.9728	4.3	28.9070

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680-90250-e-1-a^10 (Samp) **5/21/2013, 3:17:52 PM** **Rack 1, Tube 36**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0697u	-0.1917u	0.2141u
Al 308.215	101.662	103.929	101.812
As 188.980	0.6965	2.3651	-3.3158u
B 249.678	1091.68	1049.60	1001.77
Ba 389.178	2.3203	3.2324	2.0534
Be 313.042	0.0424	0.0323	0.0355
Ca 370.602	37800	37329	36414
Cd 226.502	-0.0875u	0.1280	-0.1191u
Co 228.615	0.1882	0.5090	0.2131
Cr 267.716	2.1602	1.8404	1.7351
Cu 324.754	1.5550	1.5197	0.6985
Fe 271.441	382.420	374.455	361.220
K 766.491	783.383	770.847	754.180
Mg 279.078	9867.54	9708.54	9472.34
Mn 257.610	19.3421	19.0641	18.6829
Mo 202.032	0.1195	0.5058	0.6386
Na 330.237	39936.4	39154.4	38413.8
Ni 231.604	-0.1580u	2.8335	1.1378
Pb 220.353	-1.9810u	-0.1389u	-3.2348u
Sb 206.834	-5.5421u	-2.6869u	-2.4293u
Se 196.026	-1.3708u	4.8466	3.7609
Sn 189.925	1.9921	-0.4135u	1.1649
Sr 216.596	851.328	837.459	818.855
Ti 334.941	1.0229	1.0287	0.9789
Tl 190.794	1.0577	0.6540	-0.5918u
V 292.401	12.1566	11.7597	11.6243
Zn 206.200	3.3075	3.1678	4.3246

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0307	ppb	0.2057	670.0	-82.1131
Al 308.215	102.468	ppb	1.2677	1.2	837.147
As 188.980	-0.0847	ppb	2.9199	3446.3	-7.2346
B 249.678	1047.69	ppb	44.9858	4.3	13874.3
Ba 389.178	2.5353	ppb	0.6182	24.4	75.3720
Be 313.042	0.0367	ppb	0.0052	14.1	-147.753
Ca 370.602	37181	ppb	704.9	1.9	88618
Cd 226.502	-0.0262	ppb	0.1345	513.2	21.4216
Co 228.615	0.3034	ppb	0.1785	58.8	12.5685
Cr 267.716	1.9119	ppb	0.2214	11.6	99.3347
Cu 324.754	1.2577	ppb	0.4847	38.5	206.839
Fe 271.441	372.698	ppb	10.7089	2.9	659.564
K 766.491	769.470	ppb	14.6499	1.9	27224.4
Mg 279.078	9682.81	ppb	198.853	2.1	20443.1
Mn 257.610	19.0297	ppb	0.3309	1.7	4847.71
Mo 202.032	0.4213	ppb	0.2697	64.0	14.8035
Na 330.237	39168.2	ppb	761.373	1.9	1930.26
Ni 231.604	1.2711	ppb	1.5002	118.0	3.7569
Pb 220.353	-1.7849	ppb	1.5572	87.2	20.2289
Sb 206.834	-3.5527	ppb	1.7276	48.6	2.4404
Se 196.026	2.4123	ppb	3.3209	137.7	7.2195
Sn 189.925	0.9145	ppb	1.2222	133.6	-12.1783
Sr 216.596	835.881	ppb	16.2942	1.9	9453.64
Ti 334.941	1.0102	ppb	0.0272	2.7	271.099
Tl 190.794	0.3733	ppb	0.8598	230.3	-14.7317
V 292.401	11.8468	ppb	0.2767	2.3	304.842
Zn 206.200	3.6000	ppb	0.6314	17.5	107246

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90250-e-2-a (Samp) 5/21/2013, 3:34:05 PM Rack 1, Tube 39
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0838u	0.0342u	0.0291u
Al 308.215	10.5342	11.9827	10.4390
As 188.980	3.8292	3.1365	4.1279
B 249.678	1001.91	1001.51	999.336
Ba 389.178	30.2510	28.2211	29.6776
Be 313.042	-0.0129	-0.0162	-0.0080
Ca 370.602	223615	222124	221724
Cd 226.502	-0.0079u	0.1233	0.0023u
Co 228.615	0.4976	-0.2267u	-0.1520u
Cr 267.716	76.7317	76.9930	77.0057
Cu 324.754	-0.0166u	0.7129	0.2496
Fe 271.441	14.5874	8.8246	8.6040
K 766.491	9754.98	9776.60	9820.59
Mg 279.078	69898.1	69810.1	70050.1
Mn 257.610	-2.2440	-2.2194	-2.2420
Mo 202.032	2.6123	2.0890	2.5643
Na 330.237	351130x	349773x	354146x
Ni 231.604	1.7943	0.8290	1.3081
Pb 220.353	-2.5337u	3.9292	-1.2101u
Sb 206.834	1.2619	4.2638	-0.8045u
Se 196.026	21.0570	16.5675	8.5374
Sn 189.925	-1.4251u	-1.4057u	3.0893
Sr 216.596	5287.89	5278.40	5294.28
Ti 334.941	-0.6552	-0.6351	-0.5959
Tl 190.794	-0.7726u	-2.0685u	2.1305
V 292.401	43.9665	44.5944	44.5236
Zn 206.200	30.6871	33.1882	32.4595

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0490b	ppb	0.0302	61.7	-286.380
Al 308.215	10.9853b	ppb	0.8651	7.9	259.154
As 188.980	3.6979b	ppb	0.5086	13.8	-4.9734
B 249.678	1000.92b	ppb	1.3841	0.1	13269.4
Ba 389.178	29.3832b	ppb	1.0465	3.6	786.264
Be 313.042	-0.0123b	ppb	0.0041	33.3	-213.392
Ca 370.602	222488b	ppb	996.5	0.4	530342
Cd 226.502	0.0392b	ppb	0.0730	186.0	21.8350
Co 228.615	0.0396b	ppb	0.3984	1005.3	9.4668
Cr 267.716	76.9101b	ppb	0.1546	0.2	3759.75
Cu 324.754	0.3153b	ppb	0.3692	117.1	154.720
Fe 271.441	10.6720b	ppb	3.3926	31.8	40.3429
K 766.491	9784.06b	ppb	33.4320	0.3	343189
Mg 279.078	69919.4b	ppb	121.421	0.2	147414
Mn 257.610	-2.2351b	ppb	0.0137	0.6	78.7964
Mo 202.032	2.4219b	ppb	0.2893	11.9	30.0135
Na 330.237	351683xb	ppb	2238.44	0.6	16955.3
Ni 231.604	1.3105b	ppb	0.4827	36.8	3.8606
Pb 220.353	0.0618b	ppb	3.4140	5521.9	23.5062
Sb 206.834	1.5737b	ppb	2.5485	161.9	8.7280
Se 196.026	15.3873b	ppb	6.3427	41.2	13.6553
Sn 189.925	0.0862b	ppb	2.6008	3018.8	-12.7156
Sr 216.596	5286.85b	ppb	7.9886	0.2	59693.6
Ti 334.941	-0.6287b	ppb	0.0302	4.8	59.7455
Tl 190.794	-0.2369b	ppb	2.1502	907.8	-15.2621
V 292.401	44.3615b	ppb	0.3439	0.8	1155.97
Zn 206.200	32.1116b	ppb	1.2863	4.0	521.998

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90250-e-2-a^10 (Samp) **5/21/2013, 3:39:29 PM** **Rack 1, Tube 40****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0969u	-0.0441u	0.0288u
Al 308.215	5.3430	5.9399	5.5295
As 188.980	7.7108	-1.7830u	1.2252
B 249.678	231.103	223.965	217.392
Ba 389.178	2.5444	1.0612	1.2606
Be 313.042	-0.0027u	-0.0064u	0.0015
Ca 370.602	24514	23845	23106
Cd 226.502	0.2099	-0.1318u	-0.0687u
Co 228.615	-0.3337u	-0.6053u	0.1817
Cr 267.716	8.7964	8.4180	7.9369
Cu 324.754	0.2906	0.2053	-0.3968u
Fe 271.441	1.5450	0.6386	6.1140
K 766.491	778.178	750.904	731.910
Mg 279.078	7751.65	7442.25	7222.47
Mn 257.610	-0.2144	-0.2483	-0.2169
Mo 202.032	-0.0826u	0.2671	0.0166
Na 330.237	32989.9	31623.2	31075.5
Ni 231.604	-0.8583u	-0.3741u	-0.0046u
Pb 220.353	0.1221	-1.0083u	-0.8200u
Sb 206.834	0.0428	-1.9495u	3.7259
Se 196.026	1.5147	4.6339	1.5568
Sn 189.925	-3.0663u	0.6332	-1.2971u
Sr 216.596	601.702	578.782	560.378
Ti 334.941	-0.0131	-0.0122	-0.0191
Tl 190.794	3.6128	-0.2657u	2.7832
V 292.401	4.5311	4.8508	4.4124
Zn 206.200	4.0295	3.4973	3.7186

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0374	ppb	0.0631	168.7	-75.7014
Al 308.215	5.6042	ppb	0.3054	5.4	224.876
As 188.980	2.3843	ppb	4.8519	203.5	-5.7618
B 249.678	224.154	ppb	6.8573	3.1	3214.60
Ba 389.178	1.6221	ppb	0.8049	49.6	50.2724
Be 313.042	-0.0025	ppb	0.0039	156.2	-224.700
Ca 370.602	23822	ppb	704.4	3.0	56796
Cd 226.502	0.0031	ppb	0.1818	5854.7	21.3681
Co 228.615	-0.2525	ppb	0.3997	158.3	5.6569
Cr 267.716	8.3838	ppb	0.4308	5.1	414.552
Cu 324.754	0.0330	ppb	0.3747	1134.7	139.593
Fe 271.441	2.7658	ppb	2.9347	106.1	26.3406
K 766.491	753.664	ppb	23.2574	3.1	26670.4
Mg 279.078	7472.12	ppb	265.850	3.6	15783.5
Mn 257.610	-0.2266	ppb	0.0189	8.3	29.6119
Mo 202.032	0.0670	ppb	0.1802	268.8	12.1359
Na 330.237	31896.2	ppb	985.980	3.1	1580.75
Ni 231.604	-0.4123	ppb	0.4281	103.8	-1.0160
Pb 220.353	-0.5687	ppb	0.6056	106.5	22.3878
Sb 206.834	0.6064	ppb	2.8793	474.8	6.9940
Se 196.026	2.5685	ppb	1.7888	69.6	7.2901
Sn 189.925	-1.2434	ppb	1.8503	148.8	-14.0992
Sr 216.596	580.287	ppb	20.7031	3.6	6568.24
Ti 334.941	-0.0148	ppb	0.0037	25.3	-26.8354
Tl 190.794	2.0434	ppb	2.0423	99.9	-13.0755
V 292.401	4.5981	ppb	0.2268	4.9	113.367
Zn 206.200	3.7485	ppb	0.2671	7.1	10.8864

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90128-h-3-h (Samp) 5/21/2013, 3:44:53 PM Rack 1, Tube 41
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3944	0.0488u	-0.0330u
Al 308.215	6.3709	5.3724	7.5202
As 188.980	6.0528	1.7528	4.2122
B 249.678	131.186	129.685	128.154
Ba 389.178	26.9536	26.9415	27.8312
Be 313.042	-0.0061	-0.0135u	-0.0090
Ca 370.602	63091	63027	63144
Cd 226.502	-0.2674u	-0.1448u	0.0710
Co 228.615	-0.2075u	0.0784	0.7867
Cr 267.716	0.0797	0.1194	0.1736
Cu 324.754	25.3153	25.1366	24.4163
Fe 271.441	28.3750	29.2609	30.7426
K 766.491	2438.59	2433.97	2435.25
Mg 279.078	35534.9	35472.9	35546.7
Mn 257.610	-0.8532	-0.8535	-0.8186
Mo 202.032	-0.3477u	-0.4503u	-0.3629u
Na 330.237	25925.4	25748.0	25870.2
Ni 231.604	0.1193	0.5820	-0.9266u
Pb 220.353	0.0043	-2.1850u	0.3055
Sb 206.834	1.2725	0.7381	-0.6086u
Se 196.026	6.6306	0.5332	10.3226
Sn 189.925	-0.2270u	0.6965	-0.3684u
Sr 216.596	628.023	628.359	630.367
Ti 334.941	-0.4938	-0.4203	-0.4012
Tl 190.794	-0.4955u	0.5802	1.2663
V 292.401	-0.3490u	-0.3195u	-0.1522u
Zn 206.200	12.0540	12.5883	13.4034

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1367	ppb	0.2269	165.9	-65.1725
Al 308.215	6.4212	ppb	1.0747	16.7	230.035
As 188.980	4.0059	ppb	2.1574	53.9	-4.7874
B 249.678	129.675	ppb	1.5160	1.2	1991.59
Ba 389.178	27.2421	ppb	0.5102	1.9	658.851
Be 313.042	-0.0095	ppb	0.0037	39.0	-224.304
Ca 370.602	63087	ppb	58.91	0.1	150389
Cd 226.502	-0.1137	ppb	0.1713	150.6	17.4986
Co 228.615	0.2192	ppb	0.5118	233.5	11.5258
Cr 267.716	0.1242	ppb	0.0471	37.9	11.9232
Cu 324.754	24.9560	ppb	0.4759	1.9	1507.10
Fe 271.441	29.4595	ppb	1.1962	4.1	72.0448
K 766.491	2435.94	ppb	2.3843	0.1	85634.7
Mg 279.078	35518.1	ppb	39.6658	0.1	74900.8
Mn 257.610	-0.8418	ppb	0.0201	2.4	123.341
Mo 202.032	-0.3870	ppb	0.0554	14.3	8.6823
Na 330.237	25847.9	ppb	90.7768	0.4	1289.89
Ni 231.604	-0.0751	ppb	0.7728	1029.1	-0.0610
Pb 220.353	-0.6250	ppb	1.3593	217.5	22.2881
Sb 206.834	0.4673	ppb	0.9693	207.4	6.7645
Se 196.026	5.8288	ppb	4.9437	84.8	8.9092
Sn 189.925	0.0337	ppb	0.5783	1717.7	-12.9518
Sr 216.596	628.917	ppb	1.2676	0.2	7121.20
Ti 334.941	-0.4384	ppb	0.0489	11.2	-18.3955
Tl 190.794	0.4503	ppb	0.8880	197.2	-14.6189
V 292.401	-0.2736	ppb	0.1061	38.8	-14.1714
Zn 206.200	12.6819	ppb	0.6795	5.4	23.9862

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680-90128-h-1-f (Samp) 5/21/2013, 3:50:29 PM Rack 1, Tube 42

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0146u	0.1892u	0.1337u
Al 308.215	6.9518	5.3481	5.2087
As 188.980	4.2448	4.1782	5.7482
B 249.678	103.428	101.824	99.7105
Ba 389.178	27.3035	27.3787	27.4521
Be 313.042	-0.0061	-0.0128u	-0.0135u
Ca 370.602	65433	65427	65750
Cd 226.502	-0.2013u	-0.1504u	-0.0654u
Co 228.615	0.4645	0.1666	-0.1928u
Cr 267.716	0.1492	0.2823	0.0828
Cu 324.754	9.3350	9.0134	8.5405
Fe 271.441	22.9564	21.6053	16.3210
K 766.491	2484.90	2483.07	2490.44
Mg 279.078	36714.9	36688.3	36732.8
Mn 257.610	-0.8740	-0.8430	-0.8863
Mo 202.032	-0.5694u	0.2863	-0.7111u
Na 330.237	26669.4	26714.4	26557.3
Ni 231.604	2.7855	1.5691	0.9922
Pb 220.353	4.5498	4.4170	4.8284
Sb 206.834	0.6960	-0.5105u	-5.3910u
Se 196.026	2.6663	8.2557	-0.8375u
Sn 189.925	3.7683	0.8798	-0.0814u
Sr 216.596	643.833	640.506	643.024
Ti 334.941	-0.4990	-0.4472	-0.4236
Tl 190.794	1.7986	1.8406	0.8056
V 292.401	-0.3417u	-0.2355u	-0.4029u
Zn 206.200	16.6038	16.0515	16.2024

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1125	ppb	0.0892	79.3	-67.7436
Al 308.215	5.8362	ppb	0.9686	16.6	226.354
As 188.980	4.7238	ppb	0.8879	18.8	-4.3565
B 249.678	101.654	ppb	1.8646	1.8	1628.89
Ba 389.178	27.3781	ppb	0.0743	0.3	664.522
Be 313.042	-0.0108	ppb	0.0041	37.6	-225.923
Ca 370.602	65537	ppb	184.6	0.3	156228
Cd 226.502	-0.1390	ppb	0.0686	49.4	16.5507
Co 228.615	0.1461	ppb	0.3292	225.3	10.6117
Cr 267.716	0.1714	ppb	0.1016	59.3	14.2345
Cu 324.754	8.9630	ppb	0.3996	4.5	629.600
Fe 271.441	20.2942	ppb	3.5066	17.3	56.3466
K 766.491	2486.14	ppb	3.8338	0.2	87394.2
Mg 279.078	36712.0	ppb	22.3617	0.1	77417.2
Mn 257.610	-0.8677	ppb	0.0223	2.6	127.204
Mo 202.032	-0.3314	ppb	0.5396	162.8	9.1062
Na 330.237	26647.0	ppb	80.8809	0.3	1328.29
Ni 231.604	1.7823	ppb	0.9155	51.4	5.1959
Pb 220.353	4.5984	ppb	0.2099	4.6	31.5818
Sb 206.834	-1.7352	ppb	3.2230	185.7	4.3865
Se 196.026	3.3615	ppb	4.5863	136.4	7.6841
Sn 189.925	1.5222	ppb	2.0036	131.6	-11.6312
Sr 216.596	642.454	ppb	1.7348	0.3	7274.19
Ti 334.941	-0.4566	ppb	0.0386	8.4	-18.2314
Tl 190.794	1.4816	ppb	0.5858	39.5	-13.6219
V 292.401	-0.3267	ppb	0.0847	25.9	-15.5771
Zn 206.200	16.2859	ppb	0.2855	1.8	20.2597

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90128-h-1-g ms (Samp) 5/21/2013, 3:55:54 PM Rack 1, Tube 43**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.2483	21.4170	21.4139
Al 308.215	2111.48	2090.30	2082.59
As 188.980	47.9949	51.5201	46.3658
B 249.678	164.465	161.930	161.587
Ba 389.178	69.1266	68.6415	68.2941
Be 313.042	20.8457	20.6986	20.6778
Ca 370.602	68135	67445	66970
Cd 226.502	20.8478	20.7969	20.8447
Co 228.615	20.7175	20.2207	20.5679
Cr 267.716	41.3071	41.0356	40.9716
Cu 324.754	51.6422	50.5966	50.5295
Fe 271.441	2043.67	2031.59	2029.18
K 766.491	4863.46	4835.42	4812.10
Mg 279.078	39017.7	38737.9	38666.1
Mn 257.610	212.353	210.831	210.290
Mo 202.032	41.6120	40.9751	40.1381
Na 330.237	28981.8	29019.4	28751.8
Ni 231.604	41.0814	40.8604	39.8368
Pb 220.353	28.6586	27.9243	26.6657
Sb 206.834	19.1871	21.0235	17.4619
Se 196.026	47.8811	35.9610	46.3095
Sn 189.925	79.7253	78.8905	76.5598
Sr 216.596	677.004	677.671	672.159
Ti 334.941	39.8181	39.4988	39.4613
Tl 190.794	14.8604	19.7239	16.0096
V 292.401	41.4203	41.5544	40.8883
Zn 206.200	58.4781	57.4250	58.4133

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.3597	ppb	0.0965	0.5	1562.76
Al 308.215	2094.79	ppb	14.9602	0.7	13431.9
As 188.980	48.6269	ppb	2.6347	5.4	22.0509
B 249.678	162.661	ppb	1.5721	1.0	2416.00
Ba 389.178	68.6874	ppb	0.4181	0.6	1545.76
Be 313.042	20.7407	ppb	0.0915	0.4	38598.6
Ca 370.602	67517	ppb	586.1	0.9	160835
Cd 226.502	20.8298	ppb	0.0286	0.1	799.243
Co 228.615	20.5020	ppb	0.2548	1.2	264.093
Cr 267.716	41.1047	ppb	0.1781	0.4	2010.32
Cu 324.754	50.9227	ppb	0.6239	1.2	2933.26
Fe 271.441	2034.81	ppb	7.7620	0.4	3507.54
K 766.491	4836.99	ppb	25.7184	0.5	169793
Mg 279.078	38807.2	ppb	185.744	0.5	81830.1
Mn 257.610	211.158	ppb	1.0698	0.5	52973.8
Mo 202.032	40.9084	ppb	0.7392	1.8	323.392
Na 330.237	28917.7	ppb	144.878	0.5	1436.31
Ni 231.604	40.5929	ppb	0.6640	1.6	115.090
Pb 220.353	27.7496	ppb	1.0079	3.6	72.7723
Sb 206.834	19.2242	ppb	1.7811	9.3	27.0804
Se 196.026	43.3839	ppb	6.4762	14.9	27.6214
Sn 189.925	78.3919	ppb	1.6406	2.1	56.4901
Sr 216.596	675.611	ppb	3.0084	0.4	7647.13
Ti 334.941	39.5927	ppb	0.1960	0.5	11258.1
Tl 190.794	16.8646	ppb	2.5420	15.1	0.8582
V 292.401	41.2876	ppb	0.3523	0.9	1072.33
Zn 206.200	58.1055	ppb	0.5902	1.0	905477

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90128-h-1-h msd (Samp) 5/21/2013, 4:01:19 PM Rack 1, Tube 44**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.4265	21.4250	21.2122
Al 308.215	2109.44	2114.93	2111.49
As 188.980	48.9048	51.2501	48.2612
B 249.678	152.106	152.795	151.756
Ba 389.178	68.0055	69.1131	69.1564
Be 313.042	20.7735	20.7882	20.7890
Ca 370.602	68271	68326	68288
Cd 226.502	20.9331	20.9947	20.8801
Co 228.615	20.7692	20.7342	20.5264
Cr 267.716	41.3711	41.2610	41.0492
Cu 324.754	51.3500	51.2396	50.9782
Fe 271.441	2063.64	2058.45	2057.97
K 766.491	4889.30	4892.28	4915.01
Mg 279.078	39003.3	38973.8	39013.1
Mn 257.610	212.047	212.186	212.143
Mo 202.032	41.3228	40.9106	40.2193
Na 330.237	29153.7	28906.5	29173.0
Ni 231.604	41.6581	40.6294	40.1672
Pb 220.353	29.0503	25.8406	26.1068
Sb 206.834	18.4792	22.2331	16.9105
Se 196.026	36.7452	42.3503	46.0806
Sn 189.925	81.4617	84.2847	79.5866
Sr 216.596	678.758	679.036	681.118
Ti 334.941	39.9353	40.1567	40.0047
Tl 190.794	17.4163	21.5071	20.5536
V 292.401	41.5467	42.0461	41.8767
Zn 206.200	60.8953	62.7254	62.5854

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.3545	ppb	0.1233	0.6	1562.28
Al 308.215	2111.96	ppb	2.7750	0.1	13540.4
As 188.980	49.4720	ppb	1.5731	3.2	22.5591
B 249.678	152.219	ppb	0.5283	0.3	2280.80
Ba 389.178	68.7584	ppb	0.6524	0.9	1547.80
Be 313.042	20.7836	ppb	0.0087	0.0	38679.0
Ca 370.602	68295	ppb	28.29	0.0	162689
Cd 226.502	20.9360	ppb	0.0574	0.3	803.251
Co 228.615	20.6766	ppb	0.1312	0.6	266.282
Cr 267.716	41.2271	ppb	0.1636	0.4	2016.30
Cu 324.754	51.1892	ppb	0.1909	0.4	2947.89
Fe 271.441	2060.02	ppb	3.1440	0.2	3550.70
K 766.491	4898.87	ppb	14.0642	0.3	171961
Mg 279.078	38996.7	ppb	20.4185	0.1	82229.5
Mn 257.610	212.125	ppb	0.0708	0.0	53216.8
Mo 202.032	40.8176	ppb	0.5576	1.4	322.696
Na 330.237	29077.8	ppb	148.624	0.5	1443.97
Ni 231.604	40.8182	ppb	0.7632	1.9	115.728
Pb 220.353	26.9992	ppb	1.7813	6.6	71.4377
Sb 206.834	19.2076	ppb	2.7351	14.2	27.0667
Se 196.026	41.7254	ppb	4.6990	11.3	26.7982
Sn 189.925	81.7776	ppb	2.3649	2.9	59.4908
Sr 216.596	679.638	ppb	1.2896	0.2	7692.63
Ti 334.941	40.0322	ppb	0.1132	0.3	11382.7
Tl 190.794	19.8257	ppb	2.1403	10.8	3.7180
V 292.401	41.8232	ppb	0.2539	0.6	1086.47
Zn 206.200	62.0687	ppb	1.0187	1.6	751.3499

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

mb 680-276612/1-a (Samp) **5/21/2013, 4:17:34 PM** **Rack 2, Tube 3**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0949	-0.0279u	0.2133
Al 308.215	5.6603	6.1812	6.0520
As 188.980	9.6122	-4.1713u	1.7997
B 249.678	24.8177	25.5331	29.7010
Ba 389.178	-0.3684u	-0.8103u	-0.0462u
Be 313.042	0.0107	0.0017	-0.0098u
Ca 370.602	1.146	4.929	-0.4194u
Cd 226.502	-0.0259u	0.0868	-0.0140u
Co 228.615	-0.2757u	-0.2257u	0.7654
Cr 267.716	0.3109	0.2115	0.1359
Cu 324.754	0.1197	0.7944	1.0015
Fe 271.441	7.9687	10.9637	13.6429
K 766.491	0.2237	0.6810	0.8194
Mg 279.078	-0.5281u	0.7421	0.1621
Mn 257.610	0.0996	0.1163	0.1123
Mo 202.032	0.0352	-0.2399u	-0.3040u
Na 330.237	-75.6969u	112.515	108.007
Ni 231.604	-0.8387u	0.9147	0.4915
Pb 220.353	-0.1335u	1.1818	-1.6417u
Sb 206.834	-0.9934u	-1.1893u	-4.2106u
Se 196.026	3.4254	4.5984	7.4066
Sn 189.925	1.0251	1.5014	0.6875
Sr 216.596	-0.0912u	-0.3305u	0.3680
Ti 334.941	0.0496	0.0524	0.0532
Tl 190.794	1.3146	3.4378	-0.3996u
V 292.401	-0.2046u	0.1532	-0.2071u
Zn 206.200	2.6814	3.2713	4.0207

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0934	ppb	0.1206	129.1	-38.9862
Al 308.215	5.9645	ppb	0.2712	4.5	227.090
As 188.980	2.4135	ppb	6.9122	286.4	-5.7441
B 249.678	26.6839	ppb	2.6372	9.9	658.451
Ba 389.178	-0.4083	ppb	0.3836	93.9	-10.4885
Be 313.042	0.0009	ppb	0.0103	1136.8	-222.589
Ca 370.602	1.885	ppb	2.750	145.9	18.34
Cd 226.502	0.0156	ppb	0.0619	396.3	21.9216
Co 228.615	0.0880	ppb	0.5872	667.4	9.8786
Cr 267.716	0.2195	ppb	0.0878	40.0	16.1113
Cu 324.754	0.6385	ppb	0.4611	72.2	172.862
Fe 271.441	10.8584	ppb	2.8386	26.1	40.1924
K 766.491	0.5747	ppb	0.3118	54.2	274.384
Mg 279.078	0.1254	ppb	0.6359	507.2	33.5840
Mn 257.610	0.1094	ppb	0.0087	7.9	47.5036
Mo 202.032	-0.1696	ppb	0.1802	106.3	10.3406
Na 330.237	48.2748	ppb	107.386	222.4	49.5616
Ni 231.604	0.1892	ppb	0.9150	483.6	0.6866
Pb 220.353	-0.1978	ppb	1.4129	714.3	23.0480
Sb 206.834	-2.1311	ppb	1.8035	84.6	3.9564
Se 196.026	5.1435	ppb	2.0458	39.8	8.5688
Sn 189.925	1.0713	ppb	0.4089	38.2	-12.0702
Sr 216.596	-0.0179	ppb	0.3550	1983.3	18.1008
Ti 334.941	0.0518	ppb	0.0019	3.6	-39.6265
Tl 190.794	1.4509	ppb	1.9223	132.5	-13.6505
V 292.401	-0.0862	ppb	0.2073	240.5	-9.5016
Zn 206.200	3.3245	ppb	0.6713	20.2	10.2898

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ics 680-276612/2-a (Samp) 5/21/2013, 4:22:59 PM Rack 2, Tube 4
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.1064	50.2407	50.5897
Al 308.215	4972.67	4962.69	4953.10
As 188.980	118.503	106.147	115.172
B 249.678	210.723	210.556	210.491
Ba 389.178	98.4341	97.9664	98.2696
Be 313.042	50.3266	50.2420	50.2945
Ca 370.602	4808	4808	4791
Cd 226.502	50.1393	50.4235	50.3208
Co 228.615	49.4061	50.8779	49.9062
Cr 267.716	99.5090	99.2261	99.1397
Cu 324.754	100.087	99.2871	99.3637
Fe 271.441	4881.28	4871.18	4885.44
K 766.491	4917.12	4907.18	4913.36
Mg 279.078	4927.44	4904.29	4904.66
Mn 257.610	511.308	510.608	509.855
Mo 202.032	100.759	99.5354	100.317
Na 330.237	4901.18	4847.29	5023.83
Ni 231.604	98.3415	97.9394	98.2565
Pb 220.353	51.2310	51.0489	51.0240
Sb 206.834	47.6687	52.6202	51.1508
Se 196.026	101.749	111.117	98.1296
Sn 189.925	200.143	196.477	196.452
Sr 216.596	97.8477	97.9603	98.3542
Ti 334.941	97.8235	97.8002	97.7542
Tl 190.794	39.3300	37.8054	41.0976
V 292.401	99.1474	99.6181	99.7923
Zn 206.200	96.1893	99.3582	102.345

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.3123	ppb	0.2495	0.5	3814.01
Al 308.215	4962.82	ppb	9.7853	0.2	31562.9
As 188.980	113.274	ppb	6.3930	5.6	60.9325
B 249.678	210.590	ppb	0.1200	0.1	3032.74
Ba 389.178	98.2234	ppb	0.2373	0.2	2093.48
Be 313.042	50.2877	ppb	0.0427	0.1	93860.2
Ca 370.602	4802	ppb	9.919	0.2	11189
Cd 226.502	50.2945	ppb	0.1439	0.3	1898.78
Co 228.615	50.0634	ppb	0.7484	1.5	632.199
Cr 267.716	99.2916	ppb	0.1932	0.2	4847.30
Cu 324.754	99.5791	ppb	0.4411	0.4	5604.99
Fe 271.441	4879.30	ppb	7.3300	0.2	8380.73
K 766.491	4912.55	ppb	5.0213	0.1	172441
Mg 279.078	4912.13	ppb	13.2575	0.3	10378.7
Mn 257.610	510.590	ppb	0.7269	0.1	127282
Mo 202.032	100.204	ppb	0.6195	0.6	775.281
Na 330.237	4924.10	ppb	90.4749	1.8	281.239
Ni 231.604	98.1791	ppb	0.2119	0.2	278.145
Pb 220.353	51.1013	ppb	0.1130	0.2	114.315
Sb 206.834	50.4799	ppb	2.5430	5.0	60.9110
Se 196.026	103.665	ppb	6.7025	6.5	57.6444
Sn 189.925	197.691	ppb	2.1237	1.1	162.172
Sr 216.596	98.0540	ppb	0.2660	0.3	1121.68
Ti 334.941	97.7926	ppb	0.0353	0.0	27479.6
Tl 190.794	39.4110	ppb	1.6476	4.2	22.1037
V 292.401	99.5192	ppb	0.3336	0.3	2594.10
Zn 206.200	99.2976	ppb	3.0784	3.1	150.952

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680-90102-d-1-a (Samp) **5/21/2013, 4:28:24 PM** **Rack 2, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1699u	0.1382u	0.1923u
Al 308.215	9.6910	14.1084	10.1577
As 188.980	0.0847	-1.9992u	8.7819
B 249.678	63.1572	62.9197	62.0411
Ba 389.178	39.0505	39.0598	39.1919
Be 313.042	-0.0118u	-0.0100u	-0.0054
Ca 370.602	50751	50739	50845
Cd 226.502	0.1192	0.2596	-0.1598u
Co 228.615	-0.6820u	0.7404	-0.1706u
Cr 267.716	-0.0690u	-0.0120	-0.0910u
Cu 324.754	2.1447	1.9060	2.1557
Fe 271.441	184.140	188.769	177.432
K 766.491	3120.06	3121.48	3116.88
Mg 279.078	6931.92	6919.53	6939.80
Mn 257.610	154.326	154.116	154.048
Mo 202.032	4.6143	3.8095	4.4264
Na 330.237	51637.8	51735.9	51722.5
Ni 231.604	26.6971	27.6077	28.3870
Pb 220.353	0.8196	2.2527	0.4512
Sb 206.834	1.8878	1.6010	2.7850
Se 196.026	11.7419	5.9650	5.2032
Sn 189.925	2.1131	-1.1998u	-1.7327u
Sr 216.596	455.355	454.240	454.453
Ti 334.941	0.0909	0.0226	0.0386
Tl 190.794	-0.5669u	0.8307	1.9704
V 292.401	-0.0334u	-0.4636u	-0.0969u
Zn 206.200	13.0216	12.8805	14.3029

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1668	ppb	0.0271	16.3	-53.7083
Al 308.215	11.3190	ppb	2.4269	21.4	261.641
As 188.980	2.2891	ppb	5.7186	249.8	-5.8152
B 249.678	62.7060	ppb	0.5879	0.9	1124.52
Ba 389.178	39.1007	ppb	0.0791	0.2	841.600
Be 313.042	-0.0091	ppb	0.0033	36.2	-230.375
Ca 370.602	50778	ppb	57.79	0.1	121043
Cd 226.502	0.0730	ppb	0.2135	292.5	24.4080
Co 228.615	-0.0374	ppb	0.7205	1926.2	8.1523
Cr 267.716	-0.0573	ppb	0.0408	71.2	4.2326
Cu 324.754	2.0688	ppb	0.1411	6.8	251.527
Fe 271.441	183.447	ppb	5.7001	3.1	335.541
K 766.491	3119.47	ppb	2.3571	0.1	109593
Mg 279.078	6930.41	ppb	10.2182	0.1	14639.2
Mn 257.610	154.163	ppb	0.1450	0.1	38488.9
Mo 202.032	4.2834	ppb	0.4210	9.8	44.2877
Na 330.237	51698.7	ppb	53.1903	0.1	2532.70
Ni 231.604	27.5639	ppb	0.8458	3.1	78.1711
Pb 220.353	1.1745	ppb	0.9518	81.0	25.5192
Sb 206.834	2.0913	ppb	0.6177	29.5	8.4504
Se 196.026	7.6367	ppb	3.5756	46.8	9.8462
Sn 189.925	-0.2731	ppb	2.0836	762.9	-13.2200
Sr 216.596	454.683	ppb	0.5921	0.1	5153.38
Ti 334.941	0.0507	ppb	0.0357	70.5	-12.3339
Tl 190.794	0.7447	ppb	1.2709	170.6	-14.5628
V 292.401	-0.1980	ppb	0.2322	117.3	-13.5670
Zn 206.200	13.4017	ppb	0.7837	5.8	25.0558

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680-90102-d-1-b ms (Samp) 5/21/2013, 4:33:49 PM Rack 2, Tube 6**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.5307	51.5966	51.3789
Al 308.215	5156.83	5148.15	5159.57
As 188.980	118.026	117.197	119.685
B 249.678	254.428	255.072	255.032
Ba 389.178	138.528	138.684	137.661
Be 313.042	51.2277	51.0899	51.1869
Ca 370.602	55531	55735	55711
Cd 226.502	50.8477	50.3946	50.8135
Co 228.615	51.1511	50.1169	50.9457
Cr 267.716	100.739	100.523	100.346
Cu 324.754	104.611	104.504	104.228
Fe 271.441	5051.31	5064.77	5071.59
K 766.491	8718.89	8702.62	8699.50
Mg 279.078	11999.9	12000.9	12020.0
Mn 257.610	668.698	668.715	668.816
Mo 202.032	105.682	106.109	106.815
Na 330.237	57365.6	57314.6	57265.6
Ni 231.604	128.403	128.653	129.018
Pb 220.353	47.1687	50.5898	51.1714
Sb 206.834	52.0877	51.7824	51.6452
Se 196.026	98.2472	109.259	105.235
Sn 189.925	198.176	203.908	197.418
Sr 216.596	555.718	557.538	557.903
Ti 334.941	98.9718	98.8798	99.0095
Tl 190.794	37.6780	44.4456	40.9710
V 292.401	100.843	101.130	100.725
Zn 206.200	113.057	109.929	110.847

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.5021	ppb	0.1116	0.2	3884.80
Al 308.215	5154.85	ppb	5.9639	0.1	32777.4
As 188.980	118.303	ppb	1.2667	1.1	63.9557
B 249.678	254.844	ppb	0.3607	0.1	3605.36
Ba 389.178	138.291	ppb	0.5514	0.4	2957.77
Be 313.042	51.1681	ppb	0.0708	0.1	95518.4
Ca 370.602	55659	ppb	111.2	0.2	132405
Cd 226.502	50.6853	ppb	0.2523	0.5	1913.63
Co 228.615	50.7379	ppb	0.5475	1.1	640.425
Cr 267.716	100.536	ppb	0.1967	0.2	4909.57
Cu 324.754	104.448	ppb	0.1976	0.2	5872.33
Fe 271.441	5062.56	ppb	10.3169	0.2	8694.48
K 766.491	8707.00	ppb	10.4116	0.1	305438
Mg 279.078	12006.9	ppb	11.3223	0.1	25331.0
Mn 257.610	668.743	ppb	0.0638	0.0	166746
Mo 202.032	106.202	ppb	0.5724	0.5	821.010
Na 330.237	57315.3	ppb	50.0112	0.1	2799.97
Ni 231.604	128.691	ppb	0.3097	0.2	364.510
Pb 220.353	49.6433	ppb	2.1627	4.4	111.752
Sb 206.834	51.8384	ppb	0.2265	0.4	62.3151
Se 196.026	104.247	ppb	5.5718	5.3	57.9736
Sn 189.925	199.834	ppb	3.5483	1.8	164.113
Sr 216.596	557.053	ppb	1.1705	0.2	6305.39
Ti 334.941	98.9537	ppb	0.0667	0.1	27834.5
Tl 190.794	41.0315	ppb	3.3842	8.2	23.4345
V 292.401	100.900	ppb	0.2083	0.2	2629.02
Zn 206.200	111.278	ppb	1.6976	1.4	168.499

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90102-d-1-c msd (Samp) **5/21/2013, 4:39:13 PM** **Rack 2, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	54.4925	52.8609	53.6515
Al 308.215	5121.21	5078.99	5075.47
As 188.980	114.710	115.732	109.546
B 249.678	252.299	251.639	252.243
Ba 389.178	137.916	136.104	136.301
Be 313.042	50.7852	50.4918	50.3842
Ca 370.602	55048	54422	54360
Cd 226.502	50.3817	49.8756	50.2990
Co 228.615	50.9067	49.6217	49.8794
Cr 267.716	100.098	98.8398	99.1239
Cu 324.754	104.590	101.356	102.335
Fe 271.441	5031.45	5000.35	4996.30
K 766.491	8677.24	8605.51	8610.29
Mg 279.078	11892.2	11786.7	11806.6
Mn 257.610	663.826	658.174	658.051
Mo 202.032	104.460	104.739	104.526
Na 330.237	56449.8	56227.2	56096.4
Ni 231.604	127.496	124.389	125.846
Pb 220.353	52.3544	51.1860	53.0211
Sb 206.834	51.9450	50.9013	51.5683
Se 196.026	112.336	104.963	106.776
Sn 189.925	192.635	193.911	195.452
Sr 216.596	549.531	543.884	544.688
Ti 334.941	98.6334	97.5685	97.4075
Tl 190.794	40.9761	42.1871	36.9770
V 292.401	100.069	99.7727	99.5292
Zn 206.200	108.869	109.588	111.957

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.6683	ppb	0.8159	1.5	4051.47
Al 308.215	5091.89	ppb	25.4508	0.5	32378.7
As 188.980	113.329	ppb	3.3163	2.9	60.9682
B 249.678	252.060	ppb	0.3658	0.1	3569.39
Ba 389.178	136.773	ppb	0.9944	0.7	2925.17
Be 313.042	50.5537	ppb	0.2076	0.4	94368.7
Ca 370.602	54610	ppb	380.8	0.7	129908
Cd 226.502	50.1854	ppb	0.2715	0.5	1894.96
Co 228.615	50.1359	ppb	0.6798	1.4	632.950
Cr 267.716	99.3538	ppb	0.6597	0.7	4851.90
Cu 324.754	102.760	ppb	1.6585	1.6	5779.69
Fe 271.441	5009.36	ppb	19.2315	0.4	8603.33
K 766.491	8631.01	ppb	40.1038	0.5	302774
Mg 279.078	11828.5	ppb	56.0378	0.5	24955.0
Mn 257.610	660.017	ppb	3.2991	0.5	164570
Mo 202.032	104.575	ppb	0.1457	0.1	808.608
Na 330.237	56257.8	ppb	178.684	0.3	2749.15
Ni 231.604	125.910	ppb	1.5545	1.2	356.638
Pb 220.353	52.1872	ppb	0.9289	1.8	116.278
Sb 206.834	51.4715	ppb	0.5285	1.0	61.9227
Se 196.026	108.025	ppb	3.8418	3.6	59.8471
Sn 189.925	193.999	ppb	1.4108	0.7	158.942
Sr 216.596	546.034	ppb	3.0546	0.6	6181.03
Ti 334.941	97.8698	ppb	0.6662	0.7	27528.8
Tl 190.794	40.0467	ppb	2.7266	6.8	22.4975
V 292.401	99.7901	ppb	0.2701	0.3	2600.13
Zn 206.200	110.138	ppb	1.6160	1.5	166.829

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90150-c-1-a (Samp) **5/21/2013, 4:44:38 PM** **Rack 2, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3149	0.2106	-0.1001u
Al 308.215	229.750	229.390	228.834
As 188.980	2.1254	6.8946	0.0138
B 249.678	34.8336	33.4476	33.3316
Ba 389.178	174.030	173.013	172.143
Be 313.042	0.1670	0.1632	0.1570
Ca 370.602	3509	3500	3501
Cd 226.502	0.1892	-0.0086u	0.0443
Co 228.615	2.5602	1.8607	2.4268
Cr 267.716	0.0162	-0.0641u	-0.0035
Cu 324.754	0.6283	0.9785	0.7377
Fe 271.441	29.9623	20.5552	24.2805
K 766.491	2198.71	2195.14	2181.33
Mg 279.078	2609.19	2610.09	2592.06
Mn 257.610	29.1664	29.0950	28.9867
Mo 202.032	-0.0315u	0.2824	0.1098
Na 330.237	12250.2	12339.6	12220.3
Ni 231.604	2.7993	2.3995	1.5221
Pb 220.353	4.1282	2.1668	-0.5751u
Sb 206.834	-3.4285u	-0.4333u	0.2385
Se 196.026	-5.4095u	2.3918	5.4029
Sn 189.925	1.3770	-2.0338u	-1.9627u
Sr 216.596	33.3518	32.5756	33.6373
Ti 334.941	-0.0375	0.0339	-0.0250
Tl 190.794	-0.4129u	2.9496	1.6783
V 292.401	-0.0166u	0.0457	-0.1767u
Zn 206.200	5.3709	5.3276	5.1376

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1418	ppb	0.2159	152.3	-36.7155
Al 308.215	229.324	ppb	0.4613	0.2	1639.14
As 188.980	3.0113	ppb	3.5249	117.1	-5.3848
B 249.678	33.8710	ppb	0.8357	2.5	751.466
Ba 389.178	173.062	ppb	0.9446	0.5	3663.30
Be 313.042	0.1624	ppb	0.0051	3.1	79.2276
Ca 370.602	3503	ppb	4.596	0.1	8364
Cd 226.502	0.0750	ppb	0.1024	136.6	24.1424
Co 228.615	2.2826	ppb	0.3714	16.3	37.2350
Cr 267.716	-0.0172	ppb	0.0419	244.0	4.9226
Cu 324.754	0.7815	ppb	0.1791	22.9	180.721
Fe 271.441	24.9327	ppb	4.7373	19.0	64.6174
K 766.491	2191.73	ppb	9.1817	0.4	77075.0
Mg 279.078	2603.78	ppb	10.1636	0.4	5521.21
Mn 257.610	29.0827	ppb	0.0905	0.3	7288.54
Mo 202.032	0.1202	ppb	0.1572	130.7	12.5497
Na 330.237	12270.0	ppb	62.0600	0.5	637.140
Ni 231.604	2.2403	ppb	0.6533	29.2	6.4925
Pb 220.353	1.9066	ppb	2.3624	123.9	26.8020
Sb 206.834	-1.2078	ppb	1.9524	161.7	4.9484
Se 196.026	0.7951	ppb	5.5802	701.8	6.4169
Sn 189.925	-0.8731	ppb	1.9490	223.2	-13.7873
Sr 216.596	33.1882	ppb	0.5495	1.7	393.104
Ti 334.941	-0.0096	ppb	0.0381	399.0	-45.9764
Tl 190.794	1.4050	ppb	1.6978	120.8	-13.7360
V 292.401	-0.0492	ppb	0.1147	233.0	-8.6283
Zn 206.200	5.2787	ppb	0.1241	2.4	131.521

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680-90150-c-2-a (Samp) **5/21/2013, 4:50:04 PM** **Rack 2, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0370u	0.1707	0.4536
Al 308.215	239.769	239.899	238.738
As 188.980	3.8219	2.4138	4.2921
B 249.678	30.7299	30.5760	29.4017
Ba 389.178	178.690	178.762	177.324
Be 313.042	0.1641	0.1598	0.1581
Ca 370.602	3634	3619	3612
Cd 226.502	0.1771	0.2154	0.3066
Co 228.615	2.1437	1.6172	2.3114
Cr 267.716	0.0141	0.1344	-0.1577u
Cu 324.754	0.9276	0.6699	0.5365
Fe 271.441	8.7051	8.1789	14.3531
K 766.491	2278.92	2277.38	2264.08
Mg 279.078	2708.69	2693.82	2686.07
Mn 257.610	30.0545	29.9629	30.0172
Mo 202.032	-0.1915u	-0.2494u	-0.0737u
Na 330.237	12912.7	12949.3	12740.0
Ni 231.604	1.0982	2.0458	2.0338
Pb 220.353	-0.6689u	2.9925	-2.0861u
Sb 206.834	-1.4485u	0.9859	-4.8042u
Se 196.026	5.1532	3.8025	-0.4189u
Sn 189.925	3.0227	-0.3893u	-1.3513u
Sr 216.596	34.6873	34.7832	35.4386
Ti 334.941	0.0442	0.0105	0.1010
Tl 190.794	1.3205	1.5880	0.4198
V 292.401	-0.2382u	-0.1466u	-0.0659u
Zn 206.200	6.4190	6.0478	6.2806

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1957	ppb	0.2463	125.8	-32.6427
Al 308.215	239.469	ppb	0.6362	0.3	1703.22
As 188.980	3.5093	ppb	0.9774	27.9	-5.0861
B 249.678	30.2359	ppb	0.7265	2.4	704.433
Ba 389.178	178.259	ppb	0.8106	0.5	3773.37
Be 313.042	0.1607	ppb	0.0031	1.9	75.9950
Ca 370.602	3622	ppb	11.20	0.3	8647
Cd 226.502	0.2330	ppb	0.0665	28.6	29.9391
Co 228.615	2.0241	ppb	0.3622	17.9	34.0249
Cr 267.716	-0.0031	ppb	0.1468	4779.5	5.6190
Cu 324.754	0.7113	ppb	0.1988	28.0	176.856
Fe 271.441	10.4124	ppb	3.4229	32.9	39.7261
K 766.491	2273.46	ppb	8.1605	0.4	79939.8
Mg 279.078	2696.19	ppb	11.4927	0.4	5715.98
Mn 257.610	30.0115	ppb	0.0461	0.2	7520.72
Mo 202.032	-0.1715	ppb	0.0895	52.2	10.3261
Na 330.237	12867.4	ppb	111.804	0.9	665.857
Ni 231.604	1.7259	ppb	0.5437	31.5	5.0362
Pb 220.353	0.0792	ppb	2.6206	3309.9	23.5514
Sb 206.834	-1.7556	ppb	2.9073	165.6	4.3611
Se 196.026	2.8456	ppb	2.9067	102.1	7.4352
Sn 189.925	0.4274	ppb	2.2985	537.9	-12.6346
Sr 216.596	34.9697	ppb	0.4089	1.2	413.219
Ti 334.941	0.0519	ppb	0.0458	88.2	-28.3103
Tl 190.794	1.1094	ppb	0.6120	55.2	-14.0223
V 292.401	-0.1502	ppb	0.0862	57.4	-11.2403
Zn 206.200	6.2491	ppb	0.1876	3.0	14.5706

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680-90150-c-2-aSD^5 (Samp) 5/21/2013, 4:55:30 PM Rack 2, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4402	0.3561	0.3024
Al 308.215	51.0888	50.5913	51.8546
As 188.980	1.0328	3.0468	4.4341
B 249.678	9.6840	9.4696	8.8877
Ba 389.178	36.9051	36.9989	37.7484
Be 313.042	0.0360	0.0315	0.0354
Ca 370.602	750.3	763.2	755.3
Cd 226.502	0.0307	-0.0734u	0.1358
Co 228.615	0.0685	0.0583	0.2082
Cr 267.716	0.1385	0.1168	-0.0019u
Cu 324.754	-0.5057u	0.2919	0.0279
Fe 271.441	0.0003	4.9427	4.9384
K 766.491	468.792	466.849	471.888
Mg 279.078	551.379	561.896	554.456
Mn 257.610	6.2896	6.3109	6.3024
Mo 202.032	-0.5938u	-0.0121u	-0.3063u
Na 330.237	2736.17	2799.47	2729.32
Ni 231.604	-0.3208u	-0.0390u	0.5025
Pb 220.353	-0.7300u	-1.2342u	-1.0893u
Sb 206.834	-2.3644u	-5.9463u	-0.1357u
Se 196.026	3.1221	-1.6228u	-2.1669u
Sn 189.925	0.0621	0.3213	1.0440
Sr 216.596	6.5022	6.8800	6.9247
Ti 334.941	0.0370	0.0071	0.0258
Tl 190.794	1.4145	-0.2047u	1.5800
V 292.401	-0.1083u	-0.0347u	-0.1055u
Zn 206.200	3.1335	2.3647	2.8314

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3662	ppb	0.0695	19.0	-18.3277
Al 308.215	51.1782	ppb	0.6364	1.2	512.830
As 188.980	2.8379	ppb	1.7102	60.3	-5.4894
B 249.678	9.3471	ppb	0.4120	4.4	434.044
Ba 389.178	37.2175	ppb	0.4622	1.2	786.323
Be 313.042	0.0343	ppb	0.0024	7.1	-160.130
Ca 370.602	756.3	ppb	6.499	0.9	1817
Cd 226.502	0.0310	ppb	0.1046	337.4	22.4652
Co 228.615	0.1117	ppb	0.0838	75.0	10.1786
Cr 267.716	0.0845	ppb	0.0756	89.5	9.6038
Cu 324.754	-0.0619	ppb	0.4063	656.0	134.422
Fe 271.441	3.2938	ppb	2.8522	86.6	27.2495
K 766.491	469.176	ppb	2.5413	0.5	16699.0
Mg 279.078	555.910	ppb	5.4073	1.0	1204.99
Mn 257.610	6.3009	ppb	0.0107	0.2	1594.87
Mo 202.032	-0.3040	ppb	0.2908	95.7	9.3156
Na 330.237	2754.99	ppb	38.6749	1.4	179.700
Ni 231.604	0.0475	ppb	0.4185	880.3	0.2856
Pb 220.353	-1.0178	ppb	0.2596	25.5	21.5914
Sb 206.834	-2.8155	ppb	2.9315	104.1	3.2189
Se 196.026	-0.2225	ppb	2.9093	1307.3	5.9058
Sn 189.925	0.4758	ppb	0.5089	107.0	-12.5966
Sr 216.596	6.7690	ppb	0.2321	3.4	94.7615
Ti 334.941	0.0233	ppb	0.0151	64.7	-45.2980
Tl 190.794	0.9299	ppb	0.9861	106.0	-14.1625
V 292.401	-0.0828	ppb	0.0417	50.3	-9.3935
Zn 206.200	2.7765	ppb	0.3873	14.0	94.877

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680-90150-c-2-aPDS (Samp) **5/21/2013, 5:00:56 PM** **Rack 2, Tube 11**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.0062	48.9579	49.0807
Al 308.215	2151.71	2151.68	2150.14
As 188.980	2201.04	2212.41	2202.10
B 249.678	25.9573	26.5670	26.2894
Ba 389.178	2146.59	2148.31	2144.09
Be 313.042	49.3192	49.5210	49.3492
Ca 370.602	3561	3565	3563
Cd 226.502	49.4741	50.2924	49.8798
Co 228.615	510.638	508.806	505.803
Cr 267.716	196.547	196.852	196.276
Cu 324.754	247.596	246.575	244.429
Fe 271.441	976.576	974.724	979.249
K 766.491	2261.67	2260.65	2253.86
Mg 279.078	2655.48	2660.66	2660.24
Mn 257.610	538.229	539.404	538.578
Mo 202.032	0.2992	0.1809	0.1772
Na 330.237	12825.7	12724.4	12726.2
Ni 231.604	492.160	498.825	495.044
Pb 220.353	504.602	505.497	506.362
Sb 206.834	506.692	506.975	503.037
Se 196.026	2032.44	2020.34	2021.15
Sn 189.925	-1.0156u	1.6740	0.6422
Sr 216.596	35.9310	36.9004	36.0448
Ti 334.941	0.0860	-0.0042	0.0312
Tl 190.794	2104.88	2109.10	2117.46
V 292.401	491.987	492.648	491.271
Zn 206.200	489.620	494.908	494.531

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.0150	ppb	0.0619	0.1	3719.92
Al 308.215	2151.18	ppb	0.8967	0.0	13766.5
As 188.980	2205.18	ppb	6.2792	0.3	1317.01
B 249.678	26.2713	ppb	0.3053	1.2	651.806
Ba 389.178	2146.33	ppb	2.1195	0.1	45385.1
Be 313.042	49.3965	ppb	0.1089	0.2	92190.6
Ca 370.602	3563	ppb	1.889	0.1	8460
Cd 226.502	49.8821	ppb	0.4092	0.8	1871.32
Co 228.615	508.416	ppb	2.4407	0.5	6349.43
Cr 267.716	196.558	ppb	0.2884	0.1	9583.48
Cu 324.754	246.200	ppb	1.6164	0.7	13641.1
Fe 271.441	976.849	ppb	2.2749	0.2	1775.75
K 766.491	2258.73	ppb	4.2448	0.2	79423.4
Mg 279.078	2658.79	ppb	2.8758	0.1	5628.61
Mn 257.610	538.737	ppb	0.6034	0.1	134263
Mo 202.032	0.2191	ppb	0.0694	31.7	12.2750
Na 330.237	12758.7	ppb	57.9687	0.5	656.960
Ni 231.604	495.343	ppb	3.3426	0.7	1402.18
Pb 220.353	505.487	ppb	0.8803	0.2	922.764
Sb 206.834	505.568	ppb	2.1965	0.4	554.542
Se 196.026	2024.64	ppb	6.7613	0.3	1011.47
Sn 189.925	0.4335	ppb	1.3569	313.0	-12.6292
Sr 216.596	36.2921	ppb	0.5299	1.5	419.792
Ti 334.941	0.0377	ppb	0.0455	120.6	-32.2858
Tl 190.794	2110.48	ppb	6.4025	0.3	2024.49
V 292.401	491.969	ppb	0.6885	0.1	12955.7
Zn 206.200	493.020	ppb	2.9498	0.6	726.482

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mb 680-277320/1-a (Samp) **5/21/2013, 5:06:22 PM** **Rack 2, Tube 12**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0896	0.2359	0.0755
Al 308.215	1.8004	2.9219	3.0439
As 188.980	-3.9806u	-0.3749u	3.6971
B 249.678	3.1322	3.3342	3.3053
Ba 389.178	-0.0221u	-0.0344u	-0.2196u
Be 313.042	0.0056	-0.0013u	0.0015
Ca 370.602	-1.802u	-2.903u	-6.130u
Cd 226.502	-0.0350u	-0.0908u	0.2596
Co 228.615	0.2050	-0.0406u	-0.0231u
Cr 267.716	0.1113	0.0404	0.1886
Cu 324.754	0.3351	0.3691	-0.3210u
Fe 271.441	-1.1689u	1.3189	4.0952
K 766.491	0.3749	0.5850	1.1651
Mg 279.078	-0.1563u	-0.5963u	1.7669
Mn 257.610	0.3140	0.4041	0.4920
Mo 202.032	0.0155	-0.2604u	-0.4092u
Na 330.237	-5.9733u	12.0325	83.9226
Ni 231.604	0.4500	-0.9921u	-0.1484u
Pb 220.353	-1.2637u	-1.5691u	-1.4441u
Sb 206.834	-0.4167u	-2.6991u	2.4178
Se 196.026	3.0480	4.0191	1.9398
Sn 189.925	0.7880	1.6281	3.2053
Sr 216.596	-0.8006u	-0.5035u	-0.2723u
Ti 334.941	0.0375	-0.0636u	-0.0186u
Tl 190.794	1.2330	2.9446	3.6897
V 292.401	-0.1012u	-0.0942u	0.1845
Zn 206.200	-0.6377u	0.1857	1.9822

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1337	ppb	0.0888	66.4	-35.8685
Al 308.215	2.5887	ppb	0.6854	26.5	205.731
As 188.980	-0.2195	ppb	3.8412	1750.1	-7.3254
B 249.678	3.2573	ppb	0.1092	3.4	355.215
Ba 389.178	-0.0920	ppb	0.1106	120.2	-3.8133
Be 313.042	0.0019	ppb	0.0035	180.1	-220.671
Ca 370.602	-3.612	ppb	2.249	62.3	5.712
Cd 226.502	0.0446	ppb	0.1883	421.9	22.9705
Co 228.615	0.0471	ppb	0.1371	291.0	9.3680
Cr 267.716	0.1134	ppb	0.0741	65.3	10.9421
Cu 324.754	0.1277	ppb	0.3890	304.5	144.831
Fe 271.441	1.4151	ppb	2.6334	186.1	24.0239
K 766.491	0.7083	ppb	0.4093	57.8	279.066
Mg 279.078	0.3381	ppb	1.2568	371.7	34.0274
Mn 257.610	0.4034	ppb	0.0890	22.1	120.708
Mo 202.032	-0.2180	ppb	0.2155	98.8	9.9714
Na 330.237	29.9939	ppb	47.5634	158.6	48.7039
Ni 231.604	-0.2301	ppb	0.7245	314.8	-0.5004
Pb 220.353	-1.4256	ppb	0.1536	10.8	20.8635
Sb 206.834	-0.2327	ppb	2.5634	1101.7	6.0058
Se 196.026	3.0023	ppb	1.0404	34.7	7.5056
Sn 189.925	1.8738	ppb	1.2272	65.5	-11.3591
Sr 216.596	-0.5255	ppb	0.2648	50.4	12.3754
Ti 334.941	-0.0149	ppb	0.0507	339.9	-58.3808
Tl 190.794	2.6224	ppb	1.2597	48.0	-12.5182
V 292.401	-0.0036	ppb	0.1629	4495.4	-7.3096
Zn 206.200	0.5101	ppb	1.3398	532.7	6.1705

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ics 680-277320/2-a (Samp) 5/21/2013, 5:22:37 PM Rack 2, Tube 15
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.5020	50.8495	51.3433
Al 308.215	5008.02	4997.84	5023.78
As 188.980	111.880	110.632	116.251
B 249.678	196.192	196.807	198.904
Ba 389.178	99.3714	99.4403	99.0897
Be 313.042	49.9309	49.8764	49.9409
Ca 370.602	4826	4827	4861
Cd 226.502	51.0400	51.1515	51.0842
Co 228.615	50.4442	51.4028	50.8438
Cr 267.716	100.542	100.702	101.202
Cu 324.754	99.5636	99.8782	101.024
Fe 271.441	4874.65	4883.43	4915.04
K 766.491	5142.56	5141.72	5156.14
Mg 279.078	4969.27	4967.48	4987.32
Mn 257.610	515.801	515.811	518.561
Mo 202.032	100.637	101.732	101.546
Na 330.237	4944.49	4837.25	4947.15
Ni 231.604	99.1048	99.1980	99.9302
Pb 220.353	49.9640	52.3582	51.2084
Sb 206.834	52.7765	50.0477	50.2224
Se 196.026	99.1546	98.4769	103.206
Sn 189.925	198.472	199.058	199.899
Sr 216.596	98.9533	98.9662	100.308
Ti 334.941	98.3805	98.8345	99.0330
Tl 190.794	40.3927	39.9814	42.4919
V 292.401	101.458	101.092	101.288
Zn 206.200	101.636	100.547	99.2254

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.2316	ppb	0.3403	0.7	3884.54
Al 308.215	5009.88	ppb	13.0721	0.3	31860.3
As 188.980	112.921	ppb	2.9506	2.6	60.7207
B 249.678	197.301	ppb	1.4221	0.7	2860.71
Ba 389.178	99.3005	ppb	0.1858	0.2	2116.42
Be 313.042	49.9161	ppb	0.0347	0.1	93164.6
Ca 370.602	4838	ppb	19.75	0.4	11274
Cd 226.502	51.0919	ppb	0.0561	0.1	1928.35
Co 228.615	50.8969	ppb	0.4815	0.9	642.583
Cr 267.716	100.815	ppb	0.3441	0.3	4921.57
Cu 324.754	100.155	ppb	0.7688	0.8	5636.63
Fe 271.441	4891.04	ppb	21.2447	0.4	8400.96
K 766.491	5146.81	ppb	8.0920	0.2	180652
Mg 279.078	4974.69	ppb	10.9765	0.2	10510.5
Mn 257.610	516.724	ppb	1.5905	0.3	128811
Mo 202.032	101.305	ppb	0.5860	0.6	783.674
Na 330.237	4909.63	ppb	62.6959	1.3	280.527
Ni 231.604	99.4110	ppb	0.4520	0.5	281.632
Pb 220.353	51.1768	ppb	1.1974	2.3	114.449
Sb 206.834	51.0156	ppb	1.5276	3.0	61.4866
Se 196.026	100.279	ppb	2.5572	2.6	55.9646
Sn 189.925	199.143	ppb	0.7171	0.4	163.459
Sr 216.596	99.4092	ppb	0.7784	0.8	1136.92
Ti 334.941	98.7493	ppb	0.3345	0.3	27749.1
Tl 190.794	40.9553	ppb	1.3465	3.3	23.5878
V 292.401	101.279	ppb	0.1831	0.2	2640.23
Zn 206.200	100.469	ppb	1.2971	1.3	152.664

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90471-a-1-a (Samp) 5/21/2013, 5:28:02 PM Rack 2, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4625	0.1066	0.3096
Al 308.215	2152.28	2153.00	2102.04
As 188.980	-0.2302u	2.4318	0.4312
B 249.678	12.6008	12.5519	12.0903
Ba 389.178	5.9755	6.8519	6.6547
Be 313.042	0.0446	0.0386	0.0323
Ca 370.602	6778	6776	6623
Cd 226.502	0.2530	0.0972	0.1434
Co 228.615	-0.0385u	-0.1261u	0.0170
Cr 267.716	1.7340	1.6878	1.4975
Cu 324.754	0.3476	0.6785	0.6533
Fe 271.441	300.116	303.249	294.838
K 766.491	1380.79	1381.40	1357.76
Mg 279.078	899.939	896.244	877.782
Mn 257.610	3.3662	3.4914	3.4360
Mo 202.032	0.2251	-0.2565u	0.4228
Na 330.237	2254.37	1946.64	2060.79
Ni 231.604	-0.9732u	1.3830	-0.1866u
Pb 220.353	-1.3638u	1.2076	-0.3783u
Sb 206.834	-1.3896u	-3.4831u	-3.7656u
Se 196.026	3.5436	-6.8763u	-2.0049u
Sn 189.925	-0.3470u	2.1580	-0.5900u
Sr 216.596	7.0701	6.8985	6.7217
Ti 334.941	12.0926	11.8118	11.5113
Tl 190.794	4.6794	5.0915	2.3030
V 292.401	5.2624	5.1495	4.7925
Zn 206.200	1.3471	1.9995	2.7127

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2929	ppb	0.1785	61.0	-23.9719
Al 308.215	2135.77	ppb	29.2166	1.4	13691.0
As 188.980	0.8776	ppb	1.3860	157.9	-6.6587
B 249.678	12.4143	ppb	0.2817	2.3	473.372
Ba 389.178	6.4941	ppb	0.4598	7.1	137.948
Be 313.042	0.0385	ppb	0.0062	16.0	-150.213
Ca 370.602	6726	ppb	88.86	1.3	16030
Cd 226.502	0.1645	ppb	0.0800	48.6	28.3358
Co 228.615	-0.0492	ppb	0.0722	146.6	8.4815
Cr 267.716	1.6398	ppb	0.1254	7.6	85.4506
Cu 324.754	0.5598	ppb	0.1842	32.9	168.589
Fe 271.441	299.401	ppb	4.2507	1.4	534.024
K 766.491	1373.32	ppb	13.4737	1.0	48389.4
Mg 279.078	891.322	ppb	11.8703	1.3	1911.49
Mn 257.610	3.4312	ppb	0.0628	1.8	883.812
Mo 202.032	0.1305	ppb	0.3494	267.8	12.6033
Na 330.237	2087.27	ppb	155.564	7.5	147.436
Ni 231.604	0.0744	ppb	1.1996	1612.1	0.3690
Pb 220.353	-0.1782	ppb	1.2973	728.1	23.1164
Sb 206.834	-2.8794	ppb	1.2980	45.1	3.1672
Se 196.026	-1.7792	ppb	5.2136	293.0	5.1339
Sn 189.925	0.4070	ppb	1.5213	373.8	-12.6551
Sr 216.596	6.8968	ppb	0.1742	2.5	96.9597
Ti 334.941	11.8052	ppb	0.2907	2.5	3270.90
Tl 190.794	4.0246	ppb	1.5052	37.4	-11.1796
V 292.401	5.0681	ppb	0.2453	4.8	126.453
Zn 206.200	2.0198	ppb	0.6830	33.8	84.4054

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90471-a-1-aSD^5 (Samp) 5/21/2013, 5:33:27 PM Rack 2, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2049	-0.0045u	-0.0114u
Al 308.215	472.960	467.276	471.074
As 188.980	6.9756	-1.1876u	0.3134
B 249.678	2.0326	0.7923	1.3026
Ba 389.178	1.2139	1.1723	1.4636
Be 313.042	0.0123	0.0174	0.0140
Ca 370.602	1451	1435	1449
Cd 226.502	0.1331	0.0459	-0.1328u
Co 228.615	-0.0811u	0.4342	0.4233
Cr 267.716	0.5349	0.2453	0.5085
Cu 324.754	0.1877	0.2433	0.6867
Fe 271.441	68.5402	67.0341	66.6184
K 766.491	284.132	280.771	284.490
Mg 279.078	192.389	190.816	187.511
Mn 257.610	0.7902	0.7053	0.7036
Mo 202.032	0.3818	0.4557	-0.1934u
Na 330.237	444.813	435.494	533.142
Ni 231.604	-1.0002u	0.3662	0.4187
Pb 220.353	-1.9986u	-1.4314u	0.0360
Sb 206.834	-4.2469u	-1.2019u	-6.5165u
Se 196.026	-2.7271u	1.7429	-0.2879u
Sn 189.925	1.5933	-0.1468u	-0.0358u
Sr 216.596	1.4745	1.2933	1.1163
Ti 334.941	2.8234	2.9260	2.9574
Tl 190.794	2.1325	0.3898	1.9319
V 292.401	1.1550	0.9002	1.0309
Zn 206.200	0.9871	-0.3224u	1.3885

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0630	ppb	0.1230	195.3	-41.3804
Al 308.215	470.437	ppb	2.8953	0.6	3163.39
As 188.980	2.0338	ppb	4.3450	213.6	-5.9707
B 249.678	1.3758	ppb	0.6234	45.3	330.778
Ba 389.178	1.2833	ppb	0.1575	12.3	25.8082
Be 313.042	0.0146	ppb	0.0026	17.6	-196.624
Ca 370.602	1445	ppb	8.996	0.6	3455
Cd 226.502	0.0154	ppb	0.1355	880.4	22.0943
Co 228.615	0.2588	ppb	0.2944	113.7	12.0737
Cr 267.716	0.4296	ppb	0.1601	37.3	26.3765
Cu 324.754	0.3726	ppb	0.2735	73.4	158.287
Fe 271.441	67.3976	ppb	1.0111	1.5	136.988
K 766.491	283.131	ppb	2.0516	0.7	10178.1
Mg 279.078	190.239	ppb	2.4896	1.3	434.185
Mn 257.610	0.7330	ppb	0.0495	6.8	204.731
Mo 202.032	0.2147	ppb	0.3554	165.5	13.2658
Na 330.237	471.150	ppb	53.8885	11.4	69.8736
Ni 231.604	-0.0718	ppb	0.8045	1120.9	-0.0506
Pb 220.353	-1.1313	ppb	1.0500	92.8	21.3936
Sb 206.834	-3.9884	ppb	2.6667	66.9	1.9500
Se 196.026	-0.4240	ppb	2.2381	527.8	5.8048
Sn 189.925	0.4702	ppb	0.9742	207.2	-12.6021
Sr 216.596	1.2947	ppb	0.1791	13.8	33.0837
Ti 334.941	2.9023	ppb	0.0701	2.4	763.149
Tl 190.794	1.4847	ppb	0.9536	64.2	-13.6211
V 292.401	1.0287	ppb	0.1274	12.4	19.8557
Zn 206.200	0.6844	ppb	0.8947	130.7	64.4313

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90471-a-1-aPDS (Samp) **5/21/2013, 5:38:52 PM** **Rack 2, Tube 18****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.4267	48.6570	48.6724
Al 308.215	4144.45	4156.14	4151.24
As 188.980	2219.65	2245.32	2201.99
B 249.678	9.3900	9.3549	9.2106
Ba 389.178	1985.74	1988.27	1986.15
Be 313.042	48.5130	48.6111	48.5443
Ca 370.602	6841	6869	6855
Cd 226.502	50.1907	50.3270	50.7421
Co 228.615	511.875	514.523	509.515
Cr 267.716	199.229	199.942	199.466
Cu 324.754	247.430	247.110	247.166
Fe 271.441	1277.68	1278.42	1279.23
K 766.491	1405.54	1407.11	1404.98
Mg 279.078	912.789	917.797	911.978
Mn 257.610	515.653	517.066	516.149
Mo 202.032	0.6645	0.4839	0.1474
Na 330.237	2073.60	2310.66	1886.19
Ni 231.604	501.373	499.917	498.266
Pb 220.353	507.740	513.008	506.475
Sb 206.834	520.794	513.735	509.521
Se 196.026	2021.28	2037.28	2031.12
Sn 189.925	2.4284	0.0358	-0.3279u
Sr 216.596	9.6561	9.9244	9.5268
Ti 334.941	14.4461	14.3748	14.5039
Tl 190.794	2116.08	2128.05	2107.96
V 292.401	499.463	501.468	500.905
Zn 206.200	491.849	497.198	492.783

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.9187	ppb	0.4400	0.9	3713.72
Al 308.215	4150.61	ppb	5.8713	0.1	26406.2
As 188.980	2222.32	ppb	21.7896	1.0	1327.31
B 249.678	9.3185	ppb	0.0951	1.0	431.970
Ba 389.178	1986.72	ppb	1.3560	0.1	42006.8
Be 313.042	48.5561	ppb	0.0501	0.1	90620.4
Ca 370.602	6855	ppb	14.11	0.2	16289
Cd 226.502	50.4199	ppb	0.2872	0.6	1892.21
Co 228.615	511.971	ppb	2.5052	0.5	6394.16
Cr 267.716	199.546	ppb	0.3633	0.2	9728.84
Cu 324.754	247.235	ppb	0.1711	0.1	13697.9
Fe 271.441	1278.44	ppb	0.7771	0.1	2292.53
K 766.491	1405.88	ppb	1.1052	0.1	49530.8
Mg 279.078	914.188	ppb	3.1517	0.3	1951.06
Mn 257.610	516.289	ppb	0.7165	0.1	128656
Mo 202.032	0.4319	ppb	0.2624	60.8	13.8652
Na 330.237	2090.15	ppb	212.719	10.2	143.843
Ni 231.604	499.852	ppb	1.5548	0.3	1414.95
Pb 220.353	509.075	ppb	3.4652	0.7	929.169
Sb 206.834	514.683	ppb	5.6958	1.1	564.411
Se 196.026	2029.89	ppb	8.0675	0.4	1014.07
Sn 189.925	0.7121	ppb	1.4975	210.3	-12.3847
Sr 216.596	9.7024	ppb	0.2028	2.1	120.178
Ti 334.941	14.4416	ppb	0.0647	0.4	4012.86
Tl 190.794	2117.36	ppb	10.1086	0.5	2031.17
V 292.401	500.612	ppb	1.0341	0.2	13183.7
Zn 206.200	493.943	ppb	2.8568	0.6	727.856

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90471-a-1-b ms (Samp) 5/21/2013, 5:44:16 PM Rack 2, Tube 19**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.6850	49.9082	49.8536
Al 308.215	7597.56	7583.39	7590.33
As 188.980	112.893	114.513	109.224
B 249.678	195.568	196.339	197.335
Ba 389.178	105.084	105.632	105.095
Be 313.042	48.9712	48.7760	48.7876
Ca 370.602	11467	11447	11480
Cd 226.502	49.8727	50.2873	49.9192
Co 228.615	49.2567	49.5273	50.3258
Cr 267.716	101.017	101.022	100.799
Cu 324.754	99.3347	99.6671	99.5463
Fe 271.441	5252.13	5225.33	5247.04
K 766.491	6555.51	6550.98	6535.48
Mg 279.078	5791.05	5790.97	5795.04
Mn 257.610	508.030	507.083	509.139
Mo 202.032	99.6104	99.4551	100.908
Na 330.237	7022.58	7042.77	6988.28
Ni 231.604	96.5674	97.3083	99.6341
Pb 220.353	47.9707	51.1320	48.9860
Sb 206.834	53.3885	47.3989	49.5125
Se 196.026	103.156	95.1316	97.9104
Sn 189.925	187.635	192.342	190.961
Sr 216.596	106.905	105.373	106.202
Ti 334.941	127.518	127.780	128.135
Tl 190.794	43.5602	41.7382	43.2738
V 292.401	104.927	105.002	104.859
Zn 206.200	98.2421	96.2988	97.8326

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.8156	ppb	0.1163	0.2	3775.51
Al 308.215	7590.42	ppb	7.0837	0.1	48173.8
As 188.980	112.210	ppb	2.7101	2.4	60.3036
B 249.678	196.414	ppb	0.8861	0.5	2848.78
Ba 389.178	105.270	ppb	0.3132	0.3	2245.00
Be 313.042	48.8449	ppb	0.1095	0.2	91162.5
Ca 370.602	11465	ppb	16.65	0.1	27052
Cd 226.502	50.0264	ppb	0.2271	0.5	1889.99
Co 228.615	49.7033	ppb	0.5559	1.1	628.554
Cr 267.716	100.946	ppb	0.1270	0.1	4928.08
Cu 324.754	99.5160	ppb	0.1683	0.2	5601.58
Fe 271.441	5241.50	ppb	14.2343	0.3	9000.59
K 766.491	6547.32	ppb	10.5020	0.2	229740
Mg 279.078	5792.36	ppb	2.3285	0.0	12233.4
Mn 257.610	508.084	ppb	1.0290	0.2	126666
Mo 202.032	99.9913	ppb	0.7979	0.8	773.632
Na 330.237	7017.88	ppb	27.5508	0.4	381.600
Ni 231.604	97.8366	ppb	1.6001	1.6	277.185
Pb 220.353	49.3629	ppb	1.6140	3.3	111.254
Sb 206.834	50.1000	ppb	3.0377	6.1	60.5170
Se 196.026	98.7325	ppb	4.0747	4.1	55.1965
Sn 189.925	190.313	ppb	2.4198	1.3	155.637
Sr 216.596	106.160	ppb	0.7666	0.7	1214.05
Ti 334.941	127.811	ppb	0.3100	0.2	35928.3
Tl 190.794	42.8574	ppb	0.9798	2.3	25.4230
V 292.401	104.929	ppb	0.0712	0.1	2737.16
Zn 206.200	97.4578	ppb	1.0244	1.1	148.291

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90471-a-1-c msd (Samp) 5/21/2013, 5:49:41 PM Rack 2, Tube 20**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.3186	50.2270	49.7283
Al 308.215	7172.45	7149.46	7181.52
As 188.980	108.136	106.862	116.336
B 249.678	199.198	199.089	199.050
Ba 389.178	104.634	104.862	105.523
Be 313.042	49.0738	48.9998	49.1342
Ca 370.602	11611	11574	11600
Cd 226.502	50.3295	49.8004	49.9167
Co 228.615	49.8393	50.4692	49.8175
Cr 267.716	101.138	100.452	100.502
Cu 324.754	100.443	99.6000	99.3399
Fe 271.441	5125.90	5111.06	5121.90
K 766.491	6538.33	6517.56	6557.07
Mg 279.078	5779.56	5770.58	5792.94
Mn 257.610	510.433	508.545	509.943
Mo 202.032	100.173	99.4691	99.9012
Na 330.237	6756.10	6781.62	6937.56
Ni 231.604	99.1485	99.6515	98.6205
Pb 220.353	47.0309	48.4520	48.9586
Sb 206.834	51.4865	50.3292	45.9223
Se 196.026	110.115	99.8974	100.946
Sn 189.925	195.650	193.718	194.708
Sr 216.596	105.130	104.709	105.537
Ti 334.941	111.870	111.342	112.176
Tl 190.794	40.9299	42.7511	46.0542
V 292.401	104.470	104.640	104.833
Zn 206.200	100.724	97.6204	97.1098

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.0913	ppb	0.3177	0.6	3796.73
Al 308.215	7167.81	ppb	16.5291	0.2	45502.1
As 188.980	110.445	ppb	5.1417	4.7	59.2404
B 249.678	199.112	ppb	0.0768	0.0	2883.86
Ba 389.178	105.006	ppb	0.4615	0.4	2239.27
Be 313.042	49.0693	ppb	0.0673	0.1	91582.3
Ca 370.602	11595	ppb	19.02	0.2	27368
Cd 226.502	50.0156	ppb	0.2781	0.6	1889.21
Co 228.615	50.0420	ppb	0.3701	0.7	632.335
Cr 267.716	100.697	ppb	0.3825	0.4	4915.91
Cu 324.754	99.7943	ppb	0.5767	0.6	5616.80
Fe 271.441	5119.62	ppb	7.6760	0.1	8792.05
K 766.491	6537.65	ppb	19.7629	0.3	229401
Mg 279.078	5781.02	ppb	11.2515	0.2	12209.6
Mn 257.610	509.640	ppb	0.9797	0.2	127054
Mo 202.032	99.8478	ppb	0.3550	0.4	772.544
Na 330.237	6825.09	ppb	98.2314	1.4	372.474
Ni 231.604	99.1402	ppb	0.5156	0.5	280.871
Pb 220.353	48.1472	ppb	0.9993	2.1	109.093
Sb 206.834	49.2460	ppb	2.9360	6.0	59.5942
Se 196.026	103.653	ppb	5.6211	5.4	57.6393
Sn 189.925	194.692	ppb	0.9661	0.5	159.518
Sr 216.596	105.126	ppb	0.4140	0.4	1202.32
Ti 334.941	111.796	ppb	0.4218	0.4	31423.0
Tl 190.794	43.2451	ppb	2.5976	6.0	25.8016
V 292.401	104.648	ppb	0.1820	0.2	2729.53
Zn 206.200	98.4848	ppb	1.9561	2.0	149.783

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90471-a-2-a (Samp) 5/21/2013, 5:55:07 PM Rack 2, Tube 21
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0022u	0.0354u	0.1254
Al 308.215	364.800	362.869	367.075
As 188.980	2.1298	0.5089	-1.7871u
B 249.678	72.3974	72.0114	72.6833
Ba 389.178	80.4301	80.2474	81.2989
Be 313.042	0.4054	0.4166	0.4234
Ca 370.602	24315	24367	24535
Cd 226.502	0.2000	-0.0139	-0.0093
Co 228.615	0.3262	0.1618	-0.0876u
Cr 267.716	18.1206	17.9034	17.9241
Cu 324.754	0.2385	0.4898	0.3988
Fe 271.441	836.910	849.336	843.082
K 766.491	65790.5x	66160.3x	66415.4x
Mg 279.078	59043.2	59231.7	59550.3
Mn 257.610	81.1246	81.4542	81.9833
Mo 202.032	0.1287	0.1400	-0.1182u
Na 330.237	124695x	125155x	125441x
Ni 231.604	0.1692	2.4495	1.0768
Pb 220.353	0.4122	-1.2221u	-2.2523u
Sb 206.834	0.6048	3.4163	1.7673
Se 196.026	-0.1938u	-0.9414u	3.2704
Sn 189.925	-0.6960u	-0.6375u	-0.1734u
Sr 216.596	48.6194	48.8724	48.9504
Ti 334.941	1.5580	1.5791	1.5380
Tl 190.794	-2.8730u	1.5438	1.0273
V 292.401	7.8011	7.8744	7.9401
Zn 206.200	1.9825	1.4036	0.3374

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0544b	ppb	0.0638	117.3	-44.7672
Al 308.215	364.915b	ppb	2.1052	0.6	2496.16
As 188.980	0.2839b	ppb	1.9681	693.3	-7.0002
B 249.678	72.3640b	ppb	0.3372	0.5	1248.83
Ba 389.178	80.6588b	ppb	0.5618	0.7	1845.92
Be 313.042	0.4152b	ppb	0.0091	2.2	541.573
Ca 370.602	24406b	ppb	114.6	0.5	58139
Cd 226.502	0.0589b	ppb	0.1221	207.3	26.2278
Co 228.615	0.1335b	ppb	0.2084	156.1	10.5885
Cr 267.716	17.9827b	ppb	0.1199	0.7	884.569
Cu 324.754	0.3757b	ppb	0.1272	33.9	158.632
Fe 271.441	843.109b	ppb	6.2129	0.7	1464.60
K 766.491	66122.1xb	ppb	314.183	0.5	2317857
Mg 279.078	59275.1b	ppb	256.275	0.4	124976
Mn 257.610	81.5207b	ppb	0.4332	0.5	20852.3
Mo 202.032	0.0502b	ppb	0.1459	290.8	11.9566
Na 330.237	125097xb	ppb	376.565	0.3	6061.42
Ni 231.604	1.2318b	ppb	1.1480	93.2	3.6565
Pb 220.353	-1.0207b	ppb	1.3436	131.6	21.6081
Sb 206.834	1.9295b	ppb	1.4127	73.2	8.5485
Se 196.026	0.7117b	ppb	2.2472	315.7	6.3939
Sn 189.925	-0.5023b	ppb	0.2863	57.0	-13.4085
Sr 216.596	48.8141b	ppb	0.1731	0.4	572.043
Ti 334.941	1.5584b	ppb	0.0206	1.3	643.718
Tl 190.794	-0.1006b	ppb	2.4148	2399.4	-15.3064
V 292.401	7.8719b	ppb	0.0695	0.9	199.101
Zn 206.200	1.2412b	ppb	0.8345	539.3	742744

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90471-a-3-a (Samp) **5/21/2013, 6:00:33 PM** **Rack 2, Tube 22**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2215	-0.0941u	-0.0390u
Al 308.215	349.404	349.040	338.591
As 188.980	8.4926	13.9171	6.4337
B 249.678	69.5467	69.9137	67.2292
Ba 389.178	78.2346	77.2828	74.9799
Be 313.042	0.3960	0.3981	0.3901
Ca 370.602	24346	24413	23698
Cd 226.502	-0.0018	0.0385	0.0802
Co 228.615	-0.0488u	0.3646	0.1242
Cr 267.716	17.9420	17.7428	17.2142
Cu 324.754	0.2143	0.4216	0.2450
Fe 271.441	786.141	794.413	768.943
K 766.491	66395.8x	66518.2x	65001.9x
Mg 279.078	59450.6	59541.8	57657.7
Mn 257.610	80.1972	80.4392	78.0171
Mo 202.032	0.2582	0.3633	0.0224
Na 330.237	125738x	125966x	122235x
Ni 231.604	1.6781	1.6745	2.7380
Pb 220.353	-2.2183u	0.2629	0.0667
Sb 206.834	1.9581	-3.7470u	-4.8406u
Se 196.026	13.8908	5.3523	0.5672
Sn 189.925	-0.6120u	-0.4949u	1.2580
Sr 216.596	47.4550	47.8138	46.0537
Ti 334.941	1.4741	1.5688	1.4413
Tl 190.794	-0.5988u	0.4439	4.7953
V 292.401	8.1012	8.2262	7.5424
Zn 206.200	1.3336	0.7037	1.2613

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0294b	ppb	0.1686	572.6	-46.6031
Al 308.215	345.678b	ppb	6.1408	1.8	2374.58
As 188.980	9.6145b	ppb	3.8658	40.2	-1.3990
B 249.678	68.8966b	ppb	1.4556	2.1	1204.02
Ba 389.178	76.8324b	ppb	1.6735	2.2	1763.95
Be 313.042	0.3947b	ppb	0.0042	1.1	503.286
Ca 370.602	24152b	ppb	395.1	1.6	57538
Cd 226.502	0.0390b	ppb	0.0410	105.2	25.3039
Co 228.615	0.1466b	ppb	0.2076	141.6	10.7450
Cr 267.716	17.6330b	ppb	0.3761	2.1	867.490
Cu 324.754	0.2936b	ppb	0.1119	38.1	154.112
Fe 271.441	783.165b	ppb	12.9930	1.7	1362.01
K 766.491	65972.0xb	ppb	842.341	1.3	2312596
Mg 279.078	58883.4b	ppb	1062.44	1.8	124150
Mn 257.610	79.5512b	ppb	1.3341	1.7	20357.8
Mo 202.032	0.2147b	ppb	0.1746	81.3	13.2137
Na 330.237	124646xb	ppb	2091.43	1.7	6039.77
Ni 231.604	2.0302b	ppb	0.6130	30.2	5.9149
Pb 220.353	-0.6296b	ppb	1.3794	219.1	22.3031
Sb 206.834	-2.2098b	ppb	3.6507	165.2	4.0724
Se 196.026	6.6034b	ppb	6.7493	102.2	9.3185
Sn 189.925	0.0504b	ppb	1.0475	2078.5	-12.9190
Sr 216.596	47.1075b	ppb	0.9301	2.0	552.715
Ti 334.941	1.4948b	ppb	0.0662	4.4	623.966
Tl 190.794	1.5468b	ppb	2.8612	185.0	-13.7083
V 292.401	7.9566b	ppb	0.3641	4.6	201.323
Zn 206.200	1.0995b	ppb	0.3447	31.4	74.0622

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mb 680-277276/1-a (Samp) **5/21/2013, 6:05:59 PM** **Rack 2, Tube 23**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3483	0.1236	0.4059
Al 308.215	4.3621	5.4831	7.6365
As 188.980	-2.5714u	4.6113	-2.9459u
B 249.678	0.7112	-0.2028u	0.0879
Ba 389.178	-0.1782u	-0.4574u	0.2848
Be 313.042	0.0082	0.0017	0.0080
Ca 370.602	-0.7335u	-0.5141u	-0.0368u
Cd 226.502	0.1787	0.1119	0.0295
Co 228.615	-0.0008	0.1035	-0.4130u
Cr 267.716	0.3343	0.0786	0.1246
Cu 324.754	0.1230	0.1770	0.0132
Fe 271.441	-1.0995u	0.6428	1.9617
K 766.491	1.0398	0.8247	0.7187
Mg 279.078	1.5044	-0.6500u	0.7420
Mn 257.610	-0.0181u	0.0115	0.0325
Mo 202.032	-0.4814u	-0.2270u	-0.6250u
Na 330.237	-50.2950u	-90.8616u	43.9380
Ni 231.604	0.2770	1.9492	-0.1583u
Pb 220.353	-0.9954u	-0.0791u	-0.3295u
Sb 206.834	-0.4104u	0.3207	0.2073
Se 196.026	3.5858	6.4361	7.7148
Sn 189.925	1.0030	-1.0760u	-0.9838u
Sr 216.596	0.4040	-0.7437u	-0.4072u
Ti 334.941	0.0563	-0.0540u	-0.0085u
Tl 190.794	0.1459	2.6745	0.3110
V 292.401	-0.2613u	0.2505	-0.0023
Zn 206.200	0.0369	-0.2071u	0.6794

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2926	ppb	0.1492	51.0	-23.6988
Al 308.215	5.8272	ppb	1.6641	28.6	226.131
As 188.980	-0.3020	ppb	4.2592	1410.3	-7.3749
B 249.678	0.1988	ppb	0.4670	234.9	315.626
Ba 389.178	-0.1169	ppb	0.3749	320.7	-4.3401
Be 313.042	0.0060	ppb	0.0037	62.2	-213.089
Ca 370.602	-0.4281	ppb	0.3562	83.2	13.36
Cd 226.502	0.1067	ppb	0.0747	70.0	25.2666
Co 228.615	-0.1034	ppb	0.2731	264.1	7.5015
Cr 267.716	0.1792	ppb	0.1363	76.1	14.1423
Cu 324.754	0.1044	ppb	0.0834	79.9	143.544
Fe 271.441	0.5017	ppb	1.5355	306.1	22.4407
K 766.491	0.8611	ppb	0.1636	19.0	284.421
Mg 279.078	0.5321	ppb	1.0924	205.3	34.4422
Mn 257.610	0.0086	ppb	0.0254	294.8	22.3687
Mo 202.032	-0.4445	ppb	0.2015	45.3	8.2447
Na 330.237	-32.4062	ppb	69.1574	213.4	45.7077
Ni 231.604	0.6893	ppb	1.1126	161.4	2.1020
Pb 220.353	-0.4680	ppb	0.4735	101.2	22.5676
Sb 206.834	0.0392	ppb	0.3935	1004.2	6.3030
Se 196.026	5.9122	ppb	2.1137	35.8	8.9504
Sn 189.925	-0.3523	ppb	1.1746	333.4	-13.3318
Sr 216.596	-0.2489	ppb	0.5900	237.0	15.4912
Ti 334.941	-0.0021	ppb	0.0555	2698.6	-54.7575
Tl 190.794	1.0438	ppb	1.4147	135.5	-14.0433
V 292.401	-0.0044	ppb	0.2559	5833.7	-7.2908
Zn 206.200	0.1697	ppb	0.4579	541.8	794.6722

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

ics 680-277276/2-a (Samp) 5/21/2013, 6:11:25 PM Rack 2, Tube 24
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	47.6535	49.6254	50.0891
Al 308.215	4923.27	4935.34	4958.58
As 188.980	106.724	112.217	114.397
B 249.678	187.535	188.939	192.118
Ba 389.178	96.4738	97.4085	98.4122
Be 313.042	50.0390	50.2460	50.5490
Ca 370.602	4748	4775	4791
Cd 226.502	49.7872	49.9440	50.4068
Co 228.615	49.5992	50.0738	49.8653
Cr 267.716	98.6343	98.7432	99.1018
Cu 324.754	96.9504	99.7775	98.7699
Fe 271.441	4784.02	4796.66	4826.38
K 766.491	4860.79	4879.81	4890.30
Mg 279.078	4866.99	4881.09	4923.70
Mn 257.610	505.090	507.578	509.997
Mo 202.032	99.3130	99.8614	101.156
Na 330.237	4980.00	4772.63	4929.41
Ni 231.604	98.4414	99.7346	99.7705
Pb 220.353	49.8987	49.1978	49.3070
Sb 206.834	51.2345	48.3755	49.2111
Se 196.026	96.8839	105.182	100.519
Sn 189.925	195.472	195.281	194.072
Sr 216.596	96.8410	97.3101	98.4174
Ti 334.941	96.7347	97.2167	97.6759
Tl 190.794	44.9709	42.6251	41.4899
V 292.401	98.7093	99.5218	100.108
Zn 206.200	97.3445	96.0262	96.5061

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.1227	ppb	1.2933	2.6	3722.71
Al 308.215	4939.06	ppb	17.9450	0.4	31413.0
As 188.980	111.113	ppb	3.9538	3.6	59.6328
B 249.678	189.531	ppb	2.3481	1.2	2760.24
Ba 389.178	97.4315	ppb	0.9694	1.0	2076.59
Be 313.042	50.2780	ppb	0.2565	0.5	93842.0
Ca 370.602	4771	ppb	21.93	0.5	11120
Cd 226.502	50.0460	ppb	0.3222	0.6	1889.35
Co 228.615	49.8461	ppb	0.2379	0.5	629.478
Cr 267.716	98.8265	ppb	0.2446	0.2	4824.60
Cu 324.754	98.4993	ppb	1.4328	1.5	5545.71
Fe 271.441	4802.35	ppb	21.7433	0.5	8249.01
K 766.491	4876.97	ppb	14.9614	0.3	171194
Mg 279.078	4890.59	ppb	29.5284	0.6	10333.3
Mn 257.610	507.555	ppb	2.4536	0.5	126525
Mo 202.032	100.110	ppb	0.9461	0.9	774.571
Na 330.237	4894.01	ppb	108.119	2.2	279.837
Ni 231.604	99.3155	ppb	0.7572	0.8	281.360
Pb 220.353	49.4679	ppb	0.3771	0.8	111.408
Sb 206.834	49.6070	ppb	1.4700	3.0	59.9629
Se 196.026	100.862	ppb	4.1598	4.1	56.2511
Sn 189.925	194.942	ppb	0.7590	0.4	159.736
Sr 216.596	97.5228	ppb	0.8094	0.8	1115.65
Ti 334.941	97.2091	ppb	0.4707	0.5	27315.4
Tl 190.794	43.0286	ppb	1.7753	4.1	25.6082
V 292.401	99.4465	ppb	0.7025	0.7	2592.22
Zn 206.200	96.6256	ppb	0.6672	0.7	147.036

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680-90369-c-3-a (Samp) 5/21/2013, 6:27:41 PM Rack 2, Tube 27
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2305	0.2631	0.1865
Al 308.215	4.7949	7.1027	7.1885
As 188.980	4.5722	-0.5880u	8.8249
B 249.678	10.6841	10.2639	10.8096
Ba 389.178	9.1217	9.8199	9.6877
Be 313.042	0.0086	0.0009	0.0091
Ca 370.602	4499	4494	4515
Cd 226.502	0.0255	0.2974	0.1476
Co 228.615	0.5741	0.0003u	1.5292
Cr 267.716	-0.0654u	0.0691	0.2326
Cu 324.754	0.2566	0.1948	0.7285
Fe 271.441	384.977	387.906	384.634
K 766.491	1187.43	1184.56	1189.75
Mg 279.078	2562.14	2552.32	2560.22
Mn 257.610	25.7132	25.7113	25.8304
Mo 202.032	0.4863	0.6118	-0.2345u
Na 330.237	20426.9	20276.2	20612.5
Ni 231.604	0.0354	0.4783	0.0746
Pb 220.353	0.5304	-0.0612u	-0.3120u
Sb 206.834	1.6443	1.6797	-2.2020u
Se 196.026	6.1740	-2.5346u	0.0710
Sn 189.925	-0.9980u	-0.8929u	0.3787
Sr 216.596	39.3271	38.8990	39.4791
Ti 334.941	0.0083	0.0468	0.0462
Tl 190.794	4.6345	-0.3785u	2.6893
V 292.401	-0.1291u	-0.0061u	0.2409
Zn 206.200	2.7097	1.6966	2.4912

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2267	ppb	0.0385	17.0	-30.4875
Al 308.215	6.3620	ppb	1.3578	21.3	229.639
As 188.980	4.2697	ppb	4.7137	110.4	-4.6194
B 249.678	10.5859	ppb	0.2858	2.7	449.587
Ba 389.178	9.5431	ppb	0.3709	3.9	206.480
Be 313.042	0.0062	ppb	0.0046	73.8	-213.567
Ca 370.602	4503	ppb	11.05	0.2	10725
Cd 226.502	0.1568	ppb	0.1362	86.8	28.2569
Co 228.615	0.7012	ppb	0.7723	110.1	17.4965
Cr 267.716	0.0788	ppb	0.1493	189.5	9.8051
Cu 324.754	0.3933	ppb	0.2919	74.2	159.539
Fe 271.441	385.839	ppb	1.7981	0.5	682.027
K 766.491	1187.25	ppb	2.6008	0.2	41867.6
Mg 279.078	2558.23	ppb	5.2039	0.2	5425.37
Mn 257.610	25.7516	ppb	0.0682	0.3	6459.25
Mo 202.032	0.2879	ppb	0.4567	158.6	13.8088
Na 330.237	20438.6	ppb	168.448	0.8	1029.79
Ni 231.604	0.1961	ppb	0.2452	125.0	0.7145
Pb 220.353	0.0524	ppb	0.4326	825.2	23.4983
Sb 206.834	0.3740	ppb	2.2309	596.5	6.6623
Se 196.026	1.2368	ppb	4.4698	361.4	6.6376
Sn 189.925	-0.5041	ppb	0.7663	152.0	-13.4569
Sr 216.596	39.2351	ppb	0.3008	0.8	461.624
Ti 334.941	0.0338	ppb	0.0221	65.4	-34.5958
Tl 190.794	2.3151	ppb	2.5274	109.2	-12.8703
V 292.401	0.0352	ppb	0.1884	534.9	-6.4952
Zn 206.200	2.2992	ppb	0.5332	23.2	8.8277

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90369-c-4-a (Samp) 5/21/2013, 6:33:07 PM Rack 2, Tube 28
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4429	0.3190	0.0492
Al 308.215	33.6297	32.4091	32.6036
As 188.980	0.7859	-1.4159u	2.9771
B 249.678	16.9897	16.7812	16.6330
Ba 389.178	14.0253	13.1729	13.1687
Be 313.042	0.0130	0.0119	0.0115
Ca 370.602	6419	6331	6349
Cd 226.502	0.5989	0.3238	0.4948
Co 228.615	1.8768	1.3523	1.4706
Cr 267.716	0.1980	0.1863	0.2377
Cu 324.754	0.5201	0.6173	-0.0224u
Fe 271.441	70.1107	74.3147	71.7929
K 766.491	1365.84	1354.59	1355.04
Mg 279.078	3194.67	3167.12	3177.69
Mn 257.610	245.258	243.667	244.200
Mo 202.032	-0.2025u	0.1493	0.5841
Na 330.237	13794.0	13579.2	13630.1
Ni 231.604	1.0595	1.4210	0.4599
Pb 220.353	-3.6797u	1.2269	0.0242
Sb 206.834	-4.2765u	-5.4208u	-2.0609u
Se 196.026	-2.9006u	2.6657	-0.1889u
Sn 189.925	1.3137	-0.9491u	-0.9212u
Sr 216.596	49.9608	48.4497	50.0948
Ti 334.941	0.8881	0.8318	0.9279
Tl 190.794	-1.1121u	2.4002	-0.5502u
V 292.401	0.0057	0.1232	-0.1693u
Zn 206.200	4.2184	3.5455	2.4341

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2704	ppb	0.2013	74.5	-26.6130
Al 308.215	32.8808	ppb	0.6558	2.0	397.256
As 188.980	0.7824	ppb	2.1965	280.7	-6.7219
B 249.678	16.8013	ppb	0.1792	1.1	530.445
Ba 389.178	13.4557	ppb	0.4933	3.7	290.284
Be 313.042	0.0121	ppb	0.0008	6.4	-201.164
Ca 370.602	6366	ppb	46.35	0.7	15190
Cd 226.502	0.4725	ppb	0.1389	29.4	39.0083
Co 228.615	1.5666	ppb	0.2751	17.6	28.3282
Cr 267.716	0.2073	ppb	0.0269	13.0	16.8421
Cu 324.754	0.3716	ppb	0.3447	92.7	158.249
Fe 271.441	72.0728	ppb	2.1159	2.9	145.182
K 766.491	1358.49	ppb	6.3676	0.5	47869.9
Mg 279.078	3179.83	ppb	13.8977	0.4	6732.05
Mn 257.610	244.375	ppb	0.8100	0.3	60929.9
Mo 202.032	0.1770	ppb	0.3941	222.7	12.9796
Na 330.237	13667.7	ppb	112.222	0.8	704.334
Ni 231.604	0.9801	ppb	0.4854	49.5	2.9267
Pb 220.353	-0.8095	ppb	2.5573	315.9	22.0152
Sb 206.834	-3.9194	ppb	1.7081	43.6	2.0229
Se 196.026	-0.1413	ppb	2.7835	1970.3	6.0059
Sn 189.925	-0.1855	ppb	1.2985	699.9	-13.1762
Sr 216.596	49.5018	ppb	0.9136	1.8	577.527
Ti 334.941	0.8826	ppb	0.0483	5.5	207.495
Tl 190.794	0.2460	ppb	1.8867	767.1	-15.1647
V 292.401	-0.0135	ppb	0.1472	1093.8	-7.6986
Zn 206.200	3.3993	ppb	0.9011	26.5	1044059

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90369-c-5-a (Samp) 5/21/2013, 6:38:42 PM Rack 2, Tube 29
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1239	0.1048u	0.1292
Al 308.215	65.2543	64.4750	64.6550
As 188.980	2.0745	3.8346	2.4951
B 249.678	18.2729	17.9887	16.7940
Ba 389.178	29.0273	28.7091	29.8154
Be 313.042	0.0524	0.0574	0.0482
Ca 370.602	38350	38333	38188
Cd 226.502	-0.0431u	0.4326	0.2782
Co 228.615	0.2851	0.5922	0.7528
Cr 267.716	1.4561	1.3853	1.3246
Cu 324.754	0.4592	0.0527	0.4193
Fe 271.441	150.826	160.319	151.431
K 766.491	3784.83	3784.15	3779.63
Mg 279.078	11030.9	11033.8	11013.4
Mn 257.610	248.540	248.596	247.863
Mo 202.032	-0.1939u	-0.7736u	-0.2741u
Na 330.237	53392.2	53372.8	53239.7
Ni 231.604	0.6079	0.9547	2.0306
Pb 220.353	1.8336	0.5059	-0.8761u
Sb 206.834	-1.7037u	-5.5329u	-2.8363u
Se 196.026	7.1011	-1.3220u	-4.4711u
Sn 189.925	-0.2185u	2.1903	0.7878
Sr 216.596	209.520	210.361	207.480
Ti 334.941	0.4376	0.4128	0.3972
Tl 190.794	5.6318	0.8735	0.6245
V 292.401	-0.1358u	-0.0626u	-0.4585u
Zn 206.200	3.5656	4.1898	3.6546

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1193	ppb	0.0129	10.8	-45.7101
Al 308.215	64.7948	ppb	0.4080	0.6	598.987
As 188.980	2.8014	ppb	0.9192	32.8	-5.5073
B 249.678	17.6852	ppb	0.7848	4.4	541.791
Ba 389.178	29.1839	ppb	0.5695	2.0	641.617
Be 313.042	0.0527	ppb	0.0046	8.7	-118.675
Ca 370.602	38290	ppb	88.99	0.2	91280
Cd 226.502	0.2226	ppb	0.2427	109.0	29.8895
Co 228.615	0.5434	ppb	0.2377	43.7	15.5826
Cr 267.716	1.3887	ppb	0.0658	4.7	75.1440
Cu 324.754	0.3104	ppb	0.2241	72.2	154.898
Fe 271.441	154.192	ppb	5.3148	3.4	285.562
K 766.491	3782.87	ppb	2.8240	0.1	132845
Mg 279.078	11026.0	ppb	11.0394	0.1	23270.7
Mn 257.610	248.333	ppb	0.4079	0.2	61985.2
Mo 202.032	-0.4139	ppb	0.3141	75.9	8.4705
Na 330.237	53334.9	ppb	83.0178	0.2	2611.44
Ni 231.604	1.1977	ppb	0.7418	61.9	3.5443
Pb 220.353	0.4878	ppb	1.3549	277.8	24.3265
Sb 206.834	-3.3576	ppb	1.9671	58.6	2.6530
Se 196.026	0.4360	ppb	5.9831	1372.3	6.2940
Sn 189.925	0.9198	ppb	1.2098	131.5	-12.1678
Sr 216.596	209.120	ppb	1.4816	0.7	2382.02
Ti 334.941	0.4159	ppb	0.0203	4.9	108.803
Tl 190.794	2.3766	ppb	2.8218	118.7	-13.1156
V 292.401	-0.2190	ppb	0.2106	96.2	-13.2784
Zn 206.200	3.8033	ppb	0.3376	8.9	71.0016

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90369-a-6-a (Samp) 5/21/2013, 6:44:08 PM Rack 2, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2923	0.4534	0.2376
Al 308.215	5.3915	5.7345	4.5290
As 188.980	-2.1741u	0.4258	-0.4889u
B 249.678	7.3400	6.4428	6.2764
Ba 389.178	9.4992	9.2292	9.4704
Be 313.042	0.0096	0.0141	0.0107
Ca 370.602	4597	4579	4565
Cd 226.502	-0.0560u	0.1723	-0.0076
Co 228.615	0.4329	0.8579	0.4942
Cr 267.716	0.0899	0.3091	0.2307
Cu 324.754	0.4134	0.0967	0.4481
Fe 271.441	370.927	369.479	368.382
K 766.491	1200.67	1200.79	1200.05
Mg 279.078	2602.99	2597.62	2593.47
Mn 257.610	26.6537	26.7302	26.6279
Mo 202.032	-0.2902u	-0.2868u	0.6030
Na 330.237	20570.9	20581.5	20559.9
Ni 231.604	0.9689	-0.1749u	-0.2874u
Pb 220.353	-2.5984u	1.0497	-0.0611u
Sb 206.834	-1.5191u	-6.3366u	0.7374
Se 196.026	-0.5328u	9.6681	1.2362
Sn 189.925	-0.5360u	-1.1541u	1.4719
Sr 216.596	39.3123	39.8258	39.3175
Ti 334.941	-0.0114	0.0016	0.0453
Tl 190.794	-2.2023u	2.8986	2.3625
V 292.401	-0.0832u	-0.0730u	0.0885
Zn 206.200	1.5004	2.6113	1.5268

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3277	ppb	0.1122	34.2	-22.7434
Al 308.215	5.2183	ppb	0.6211	11.9	222.345
As 188.980	-0.7458	ppb	1.3189	176.8	-7.6314
B 249.678	6.6864	ppb	0.5721	8.6	399.129
Ba 389.178	9.3996	ppb	0.1482	1.6	203.528
Be 313.042	0.0115	ppb	0.0023	20.4	-203.665
Ca 370.602	4580	ppb	16.33	0.4	10911
Cd 226.502	0.0362	ppb	0.1203	332.2	23.7475
Co 228.615	0.5950	ppb	0.2297	38.6	16.1830
Cr 267.716	0.2099	ppb	0.1111	52.9	16.2016
Cu 324.754	0.3194	ppb	0.1937	60.6	155.475
Fe 271.441	369.596	ppb	1.2768	0.3	654.212
K 766.491	1200.50	ppb	0.3995	0.0	42332.3
Mg 279.078	2598.03	ppb	4.7723	0.2	5509.24
Mn 257.610	26.6706	ppb	0.0532	0.2	6688.52
Mo 202.032	0.0087	ppb	0.5147	5931.5	11.6807
Na 330.237	20570.8	ppb	10.7818	0.1	1036.15
Ni 231.604	0.1689	ppb	0.6952	411.6	0.6372
Pb 220.353	-0.5366	ppb	1.8700	348.5	22.4509
Sb 206.834	-2.3728	ppb	3.6134	152.3	3.7021
Se 196.026	3.4571	ppb	5.4511	157.7	7.7402
Sn 189.925	-0.0727	ppb	1.3729	1887.4	-13.0746
Sr 216.596	39.4852	ppb	0.2950	0.7	464.463
Ti 334.941	0.0118	ppb	0.0297	251.4	-40.5890
Tl 190.794	1.0196	ppb	2.8031	274.9	-14.1230
V 292.401	-0.0226	ppb	0.0963	426.6	-7.9762
Zn 206.200	1.8795	ppb	0.6339	33.7	8.2118

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90369-a-7-a (Samp) 5/21/2013, 6:49:34 PM Rack 2, Tube 31
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2525	0.1141	0.8552
Al 308.215	3.0398	2.9881	4.3779
As 188.980	-2.5460u	-2.5965u	2.4050
B 249.678	-6.1399u	-6.4090u	-6.6972u
Ba 389.178	-0.0502u	-0.8734u	0.7841
Be 313.042	0.0109	-0.0052u	0.0085
Ca 370.602	-1.566u	9.410	3.843
Cd 226.502	0.1090	0.0582	-0.0430u
Co 228.615	-0.2168u	-0.8980u	-0.3683u
Cr 267.716	-0.0995u	-0.2726u	-0.0060u
Cu 324.754	0.2580	-0.0643u	-0.1036u
Fe 271.441	7.8076	3.7308	8.8207
K 766.491	-0.2111u	0.0481	0.2111
Mg 279.078	-4.6070u	2.4923	0.4285
Mn 257.610	0.0500	0.0502	0.0172
Mo 202.032	-0.1326u	-0.1677u	-0.3391u
Na 330.237	-39.6692u	138.859	129.707
Ni 231.604	-1.6338u	0.2259	-1.0102u
Pb 220.353	-2.1644u	-2.7510u	1.1778
Sb 206.834	-8.9362u	-2.2736u	-0.1854u
Se 196.026	6.2452	-7.0610u	-5.1819u
Sn 189.925	0.1296	2.0258	1.6099
Sr 216.596	-0.2686u	-0.8696u	-0.4086u
Ti 334.941	0.0010	0.0709	0.0079
Tl 190.794	2.2901	-1.2112u	-1.9542u
V 292.401	-0.1538u	0.3698	-0.1097u
Zn 206.200	0.0192	0.0862	1.5923

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4073	ppb	0.3941	96.8	-14.8755
Al 308.215	3.4686	ppb	0.7879	22.7	211.224
As 188.980	-0.9125	ppb	2.8732	314.9	-7.7415
B 249.678	-6.4154	ppb	0.2787	4.3	230.005
Ba 389.178	-0.0465	ppb	0.8288	1782.7	-2.8474
Be 313.042	0.0047	ppb	0.0087	183.3	-215.395
Ca 370.602	3.896	ppb	5.489	140.9	23.46
Cd 226.502	0.0414	ppb	0.0774	187.0	22.8583
Co 228.615	-0.4944	ppb	0.3577	72.3	2.6156
Cr 267.716	-0.1261	ppb	0.1353	107.3	-0.7322
Cu 324.754	0.0300	ppb	0.1984	660.7	139.470
Fe 271.441	6.7863	ppb	2.6942	39.7	33.1339
K 766.491	0.0160	ppb	0.2129	1327.2	254.802
Mg 279.078	-0.5621	ppb	3.6518	649.7	32.1360
Mn 257.610	0.0391	ppb	0.0190	48.6	29.9760
Mo 202.032	-0.2131	ppb	0.1105	51.8	10.0085
Na 330.237	76.2989	ppb	100.535	131.8	50.9290
Ni 231.604	-0.8060	ppb	0.9465	117.4	-2.1303
Pb 220.353	-1.2459	ppb	2.1194	170.1	21.1834
Sb 206.834	-3.7984	ppb	4.5703	120.3	2.1541
Se 196.026	-1.9992	ppb	7.2014	360.2	5.0221
Sn 189.925	1.2551	ppb	0.9967	79.4	-11.9073
Sr 216.596	-0.5156	ppb	0.3145	61.0	12.5014
Ti 334.941	0.0266	ppb	0.0385	144.8	-46.7054
Tl 190.794	-0.2918	ppb	2.2666	776.9	-15.3347
V 292.401	0.0354	ppb	0.2904	819.6	-6.2660
Zn 206.200	0.5659	ppb	0.8895	157.2	6.2532

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90391-c-1-a (Samp) 5/21/2013, 6:54:59 PM Rack 2, Tube 32
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1056u	0.3123	0.1477u
Al 308.215	118.505	110.179	113.387
As 188.980	2.8150	0.0232	3.5677
B 249.678	258.901	254.737	258.633
Ba 389.178	70.0151	67.4667	69.2248
Be 313.042	0.0228	0.0201	0.0166
Ca 370.602	149943	146493	148709
Cd 226.502	0.6099	0.5199	0.7031
Co 228.615	-0.2827u	0.2384	-0.0556u
Cr 267.716	2.1404	1.8262	2.1285
Cu 324.754	0.7668	0.5335	0.9004
Fe 271.441	115.712	121.489	118.103
K 766.491	4552.90	4453.14	4487.33
Mg 279.078	24756.6	24125.7	24419.0
Mn 257.610	33.7241	32.8697	33.3036
Mo 202.032	-0.4146u	-0.2749u	-0.4242u
Na 330.237	8648.58	8346.03	8609.22
Ni 231.604	1.3618	1.1438	1.5908
Pb 220.353	-0.5570u	-2.3227u	0.3064
Sb 206.834	3.6677	-6.0072u	2.9859
Se 196.026	16.5805	14.1544	6.5699
Sn 189.925	-3.4706u	-0.5313u	1.6209
Sr 216.596	283.678	278.405	282.997
Ti 334.941	0.5806	0.5238	0.4845
Tl 190.794	1.8790	-2.3419u	-5.0274u
V 292.401	0.0828	0.2881	0.5995
Zn 206.200	6.0083	6.3557	7.1300

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1182	ppb	0.2105	178.2	-50.6866
Al 308.215	114.023	ppb	4.1993	3.7	910.207
As 188.980	2.1353	ppb	1.8674	87.5	-5.9082
B 249.678	257.424	ppb	2.3304	0.9	3645.13
Ba 389.178	68.9022	ppb	1.3044	1.9	1513.20
Be 313.042	0.0198	ppb	0.0031	15.7	-136.683
Ca 370.602	148381	ppb	1748	1.2	353694
Cd 226.502	0.6110	ppb	0.0916	15.0	44.5625
Co 228.615	-0.0333	ppb	0.2613	784.7	8.4045
Cr 267.716	2.0317	ppb	0.1781	8.8	104.755
Cu 324.754	0.7336	ppb	0.1857	25.3	178.102
Fe 271.441	118.435	ppb	2.9027	2.5	224.286
K 766.491	4497.79	ppb	50.6963	1.1	157903
Mg 279.078	24433.8	ppb	315.714	1.3	51535.8
Mn 257.610	33.2991	ppb	0.4273	1.3	8532.71
Mo 202.032	-0.3713	ppb	0.0836	22.5	8.7961
Na 330.237	8534.61	ppb	164.496	1.9	457.509
Ni 231.604	1.3655	ppb	0.2235	16.4	4.0184
Pb 220.353	-0.8578	ppb	1.3401	156.2	21.8835
Sb 206.834	0.2155	ppb	5.3998	2505.7	6.5147
Se 196.026	12.4349	ppb	5.2221	42.0	12.1984
Sn 189.925	-0.7937	ppb	2.5559	322.0	-13.6516
Sr 216.596	281.693	ppb	2.8680	1.0	3212.97
Ti 334.941	0.5296	ppb	0.0483	9.1	204.753
Tl 190.794	-1.8301	ppb	3.4815	190.2	-16.8752
V 292.401	0.3235	ppb	0.2602	80.4	1.4671
Zn 206.200	6.4980	ppb	0.5743	8.8	14.9398

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90391-c-2-a (Samp) 5/21/2013, 7:00:24 PM Rack 2, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2603	0.2091	-0.2508u
Al 308.215	36.0301	34.8526	35.4061
As 188.980	4.1807	2.0291	4.7960
B 249.678	217.922	219.987	221.786
Ba 389.178	56.4267	57.3780	56.3413
Be 313.042	0.1673	0.1751	0.1679
Ca 370.602	52709	52855	52760
Cd 226.502	0.6531	0.6362	0.7222
Co 228.615	48.5293	48.5664	47.6366
Cr 267.716	0.0028	0.2932	0.1191
Cu 324.754	0.5242	1.5695	1.1696
Fe 271.441	1437.59	1446.65	1445.77
K 766.491	2621.95	2633.26	2635.44
Mg 279.078	7730.03	7770.08	7806.93
Mn 257.610	1197.14	1203.26	1206.80
Mo 202.032	0.2586	-0.0354u	-0.0418u
Na 330.237	11165.0	11451.9	11379.3
Ni 231.604	12.1328	11.8188	13.2134
Pb 220.353	-0.3233u	-0.0686	2.1001
Sb 206.834	-0.3405u	-1.4694u	-5.8313u
Se 196.026	3.3067	1.1398	7.2935
Sn 189.925	-0.6148u	-5.8361u	-1.5142u
Sr 216.596	119.589	119.385	120.774
Ti 334.941	0.1786	0.1677	0.1796
Tl 190.794	5.3353	-0.5336u	1.2988u
V 292.401	-0.1209u	-0.5004u	-0.3036u
Zn 206.200	63.7687	65.6243	65.9176

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0729	ppb	0.2815	386.2	-40.7017
Al 308.215	35.4296	ppb	0.5891	1.7	413.402
As 188.980	3.6686	ppb	1.4528	39.6	-4.9514
B 249.678	219.898	ppb	1.9333	0.9	3157.66
Ba 389.178	56.7154	ppb	0.5755	1.0	1217.57
Be 313.042	0.1701	ppb	0.0044	2.6	110.632
Ca 370.602	52775	ppb	74.44	0.1	125747
Cd 226.502	0.6705	ppb	0.0456	6.8	50.7239
Co 228.615	48.2441	ppb	0.5264	1.1	610.342
Cr 267.716	0.1384	ppb	0.1461	105.6	17.9803
Cu 324.754	1.0878	ppb	0.5275	48.5	197.984
Fe 271.441	1443.34	ppb	4.9950	0.3	2499.15
K 766.491	2630.21	ppb	7.2391	0.3	92444.2
Mg 279.078	7769.01	ppb	38.4602	0.5	16390.3
Mn 257.610	1202.40	ppb	4.8853	0.4	299650
Mo 202.032	0.0604	ppb	0.1716	284.0	12.0193
Na 330.237	11332.1	ppb	149.145	1.3	591.229
Ni 231.604	12.3884	ppb	0.7315	5.9	35.2469
Pb 220.353	0.5694	ppb	1.3317	233.9	24.6748
Sb 206.834	-2.5471	ppb	2.8997	113.8	3.5408
Se 196.026	3.9133	ppb	3.1214	79.8	8.2657
Sn 189.925	-2.6550	ppb	2.7914	105.1	-15.3442
Sr 216.596	119.916	ppb	0.7500	0.6	1377.47
Ti 334.941	0.1753	ppb	0.0066	3.8	29.5766
Tl 190.794	2.0335	ppb	3.0026	147.7	-14.8424
V 292.401	-0.3083	ppb	0.1898	61.6	-15.3917
Zn 206.200	65.1035	ppb	1.1652	1.8	100.847

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90391-c-3-a (Samp) 5/21/2013, 7:05:50 PM Rack 2, Tube 34
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0136	0.4245	0.2431
Al 308.215	26.8524	26.1299	27.2224
As 188.980	-0.6555u	2.2060	-0.9188u
B 249.678	263.101	262.344	262.704
Ba 389.178	77.8051	77.8449	78.0366
Be 313.042	0.0166	0.0150	0.0187
Ca 370.602	102916	102870	102691
Cd 226.502	1.2610	1.3491	1.2850
Co 228.615	23.1644	22.2903	21.5786
Cr 267.716	0.2398	0.0092	0.1495
Cu 324.754	0.7132	1.1157	0.5342
Fe 271.441	47.6392	47.8747	48.0991
K 766.491	4300.94	4303.23	4305.66
Mg 279.078	18530.7	18469.7	18443.7
Mn 257.610	2242.44	2237.88	2233.58
Mo 202.032	0.1181	-0.2475u	-0.4793u
Na 330.237	15745.1	15648.1	15893.7
Ni 231.604	10.1602	8.2289	7.6341
Pb 220.353	-1.6423u	-0.3351u	1.0827
Sb 206.834	1.5086	-4.1084u	-2.8760u
Se 196.026	6.2284	7.7214	7.1489
Sn 189.925	-0.0396	0.8242	0.1051
Sr 216.596	223.828	222.913	223.248
Ti 334.941	0.1644	0.1866	0.1351
Tl 190.794	3.5337	2.5926u	1.3283u
V 292.401	0.1627	-0.0343u	-0.4339u
Zn 206.200	10.2618	10.0375	8.8038

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2271	ppb	0.2059	90.7	-29.0652
Al 308.215	26.7349	ppb	0.5557	2.1	358.357
As 188.980	0.2106	ppb	1.7331	823.1	-7.0659
B 249.678	262.716	ppb	0.3788	0.1	3713.72
Ba 389.178	77.8955	ppb	0.1238	0.2	1689.06
Be 313.042	0.0168	ppb	0.0019	11.1	-159.889
Ca 370.602	102825	ppb	118.9	0.1	245156
Cd 226.502	1.2984	ppb	0.0456	3.5	69.6855
Co 228.615	22.3445	ppb	0.7943	3.6	287.435
Cr 267.716	0.1328	ppb	0.1162	87.5	21.9983
Cu 324.754	0.7877	ppb	0.2978	37.8	181.057
Fe 271.441	47.8710	ppb	0.2300	0.5	106.969
K 766.491	4303.27	ppb	2.3602	0.1	151086
Mg 279.078	18481.4	ppb	44.6543	0.2	38953.6
Mn 257.610	2237.97	ppb	4.4305	0.2	557732
Mo 202.032	-0.2029	ppb	0.3011	148.4	10.0844
Na 330.237	15762.3	ppb	123.741	0.8	805.003
Ni 231.604	8.6744	ppb	1.3207	15.2	24.7039
Pb 220.353	-0.2982	ppb	1.3629	457.0	23.3806
Sb 206.834	-1.8253	ppb	2.9522	161.7	4.2896
Se 196.026	7.0329	ppb	0.7532	10.7	10.0642
Sn 189.925	0.2966	ppb	0.4626	156.0	-12.7040
Sr 216.596	223.330	ppb	0.4629	0.2	2549.24
Ti 334.941	0.1620	ppb	0.0258	15.9	73.8303
Tl 190.794	2.4849	ppb	1.1066	44.5	-15.8210
V 292.401	-0.1018	ppb	0.3040	298.5	-9.8087
Zn 206.200	9.7011	ppb	0.7851	8.1	19.6254

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90391-c-4-a (Samp) 5/21/2013, 7:11:16 PM Rack 2, Tube 35
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1505	0.0270u	0.2957
Al 308.215	265.568	269.219	269.057
As 188.980	9.0591	1.6715	6.6803
B 249.678	245.126	244.663	246.812
Ba 389.178	58.9775	60.1328	58.7568
Be 313.042	0.0212	0.0169	0.0130
Ca 370.602	164974	164702	164960
Cd 226.502	1.0923	0.9588	1.1326
Co 228.615	3.0353	3.4653	3.1779
Cr 267.716	1.1115	1.1940	1.3337
Cu 324.754	0.6520	0.9366	1.7733
Fe 271.441	236.965	244.140	244.053
K 766.491	1937.06	1939.34	1945.89
Mg 279.078	8425.23	8441.06	8450.92
Mn 257.610	676.137	675.522	676.936
Mo 202.032	-0.0131u	-0.2046u	-0.3474u
Na 330.237	15785.8	15689.6	15859.1
Ni 231.604	4.1136	2.9682	3.6491
Pb 220.353	-0.9975u	-4.1145u	3.4768
Sb 206.834	-0.4574u	-5.1264u	-3.1632u
Se 196.026	3.1123	-1.9595u	-7.4683u
Sn 189.925	-2.0347u	-1.0406u	4.2855
Sr 216.596	251.687	250.276	250.446
Ti 334.941	6.5098	6.4427	6.5160
Tl 190.794	3.0964	2.4338	-0.3076u
V 292.401	0.7729	0.9263	1.1290
Zn 206.200	8.0792	7.6402	7.5816

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1577	ppb	0.1345	85.3	-42.9026
Al 308.215	267.948	ppb	2.0628	0.8	1883.26
As 188.980	5.8036	ppb	3.7710	65.0	-3.7022
B 249.678	245.534	ppb	1.1311	0.5	3491.05
Ba 389.178	59.2890	ppb	0.7390	1.2	1272.04
Be 313.042	0.0170	ppb	0.0041	24.2	-136.597
Ca 370.602	164879	ppb	153.1	0.1	393025
Cd 226.502	1.0612	ppb	0.0910	8.6	61.3765
Co 228.615	3.2262	ppb	0.2190	6.8	49.1931
Cr 267.716	1.2131	ppb	0.1123	9.3	67.8353
Cu 324.754	1.1206	ppb	0.5829	52.0	199.375
Fe 271.441	241.719	ppb	4.1177	1.7	435.781
K 766.491	1940.76	ppb	4.5831	0.2	68278.7
Mg 279.078	8439.07	ppb	12.9638	0.2	17810.8
Mn 257.610	676.199	ppb	0.7089	0.1	168560
Mo 202.032	-0.1883	ppb	0.1677	89.1	10.1834
Na 330.237	15778.2	ppb	84.9809	0.5	805.683
Ni 231.604	3.5770	ppb	0.5761	16.1	10.2805
Pb 220.353	-0.5451	ppb	3.8158	700.1	22.5870
Sb 206.834	-2.9156	ppb	2.3443	80.4	3.1272
Se 196.026	-2.1052	ppb	5.2918	251.4	5.1392
Sn 189.925	0.4034	ppb	3.3986	842.5	-12.5809
Sr 216.596	250.803	ppb	0.7704	0.3	2866.17
Ti 334.941	6.4895	ppb	0.0407	0.6	1808.49
Tl 190.794	1.7409	ppb	1.8047	103.7	-14.3401
V 292.401	0.9427	ppb	0.1786	18.9	17.6565
Zn 206.200	7.7670	ppb	0.2720	3.5	16.8114

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90391-c-5-a (Samp) 5/21/2013, 7:16:43 PM Rack 2, Tube 36
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2051	0.0049u	-0.1778u
Al 308.215	115.842	118.999	116.762
As 188.980	2.1737	4.0458	3.2717
B 249.678	250.020	252.585	250.588
Ba 389.178	47.2075	48.4850	47.3160
Be 313.042	-0.0051	-0.0076	-0.0080
Ca 370.602	182740	184256	184047
Cd 226.502	0.5232	0.5536	0.7582
Co 228.615	0.9492	0.9901	1.0655
Cr 267.716	0.4380	0.4020	0.4238
Cu 324.754	-0.1645u	1.1616	0.3499
Fe 271.441	82.0111	73.8826	81.5119
K 766.491	765.750	770.474	762.345
Mg 279.078	6383.91	6446.79	6370.79
Mn 257.610	518.496	522.654	517.820
Mo 202.032	0.2573	0.0371	0.0093
Na 330.237	13737.5	14220.9	13854.9
Ni 231.604	4.0820	2.2616	2.7458
Pb 220.353	-0.0653	-1.0960u	1.3724
Sb 206.834	-0.5372u	0.1672	-8.3905u
Se 196.026	5.9134	-0.0576	-0.1000
Sn 189.925	-0.3046u	-0.6538u	-3.0782u
Sr 216.596	293.145	298.119	293.282
Ti 334.941	0.7552	0.7275	0.6632
Tl 190.794	0.3293u	2.6987	-2.4072u
V 292.401	0.5848	0.3739	0.1056
Zn 206.200	4.8965	4.6248	4.8059

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0107	ppb	0.1915	1787.1	-57.0463
Al 308.215	117.201	ppb	1.6237	1.4	930.383
As 188.980	3.1638	ppb	0.9407	29.7	-5.2918
B 249.678	251.064	ppb	1.3472	0.5	3562.85
Ba 389.178	47.6695	ppb	0.7083	1.5	1021.30
Be 313.042	-0.0069	ppb	0.0015	22.3	-174.301
Ca 370.602	183681	ppb	821.8	0.4	437848
Cd 226.502	0.6117	ppb	0.1278	20.9	44.2174
Co 228.615	1.0016	ppb	0.0590	5.9	21.2838
Cr 267.716	0.4213	ppb	0.0181	4.3	28.4829
Cu 324.754	0.4490	ppb	0.6686	148.9	162.487
Fe 271.441	79.1352	ppb	4.5558	5.8	157.184
K 766.491	766.189	ppb	4.0825	0.5	27109.5
Mg 279.078	6400.50	ppb	40.6220	0.6	13516.3
Mn 257.610	519.656	ppb	2.6176	0.5	129542
Mo 202.032	0.1012	ppb	0.1359	134.2	12.4011
Na 330.237	13937.8	ppb	252.120	1.8	717.307
Ni 231.604	3.0298	ppb	0.9428	31.1	8.7282
Pb 220.353	0.0704	ppb	1.2398	1762.1	23.6466
Sb 206.834	-2.9202	ppb	4.7505	162.7	3.1048
Se 196.026	1.9186	ppb	3.4597	180.3	7.0973
Sn 189.925	-1.3455	ppb	1.5107	112.3	-14.1227
Sr 216.596	294.848	ppb	2.8331	1.0	3365.15
Ti 334.941	0.7153	ppb	0.0472	6.6	174.954
Tl 190.794	0.2069	ppb	2.5551	1234.8	-15.5941
V 292.401	0.3548	ppb	0.2402	67.7	2.0468
Zn 206.200	4.7757	ppb	0.1384	2.9	1244200

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90122-i-3-c (Samp) 5/21/2013, 7:33:00 PM Rack 2, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0434	0.1388	0.0757
Al 308.215	18.2327	19.8208	19.5212
As 188.980	5.5420	6.1656	-1.6602u
B 249.678	20.7243	22.2622	20.3233
Ba 389.178	74.4825	79.8412	76.1539
Be 313.042	-0.0271	-0.0387u	-0.0285
Ca 370.602	207691	220175	210702
Cd 226.502	0.1590	0.0791	0.1991
Co 228.615	0.8678	0.7830	0.5527
Cr 267.716	0.2792	0.2558	0.3855
Cu 324.754	0.6230	0.5483	0.4316
Fe 271.441	6311.95	6678.59	6439.83
K 766.491	2775.46	2899.33	2820.51
Mg 279.078	43728.8	46130.8	44616.7
Mn 257.610	3420.81	3610.33	3492.46
Mo 202.032	8.9330	9.8546	8.9699
Na 330.237	15835.4	16845.4	16081.9
Ni 231.604	3.4973	3.7368	3.4166
Pb 220.353	6.0338	2.6830	5.0999
Sb 206.834	-1.4512u	-4.6677u	0.4680
Se 196.026	1.1629	0.8838	12.9829
Sn 189.925	0.5647	1.1181	-1.4561u
Sr 216.596	367.731	386.336	374.403
Ti 334.941	-0.0860	-0.1758	-0.1765
Tl 190.794	8.6758	5.1549u	5.4603u
V 292.401	0.3137	0.2878	0.4060
Zn 206.200	8.7594	9.9614	8.1314

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0860	ppb	0.0485	56.4	-41.6622
Al 308.215	19.1916	ppb	0.8438	4.4	312.077
As 188.980	3.3491	ppb	4.3494	129.9	-5.0085
B 249.678	21.1033	ppb	1.0235	4.8	577.876
Ba 389.178	76.8259	ppb	2.7418	3.6	1737.41
Be 313.042	-0.0314	ppb	0.0063	20.1	-214.110
Ca 370.602	212856	ppb	6515	3.1	507063
Cd 226.502	0.1458	ppb	0.0611	41.9	47.5288
Co 228.615	0.7345	ppb	0.1630	22.2	17.3806
Cr 267.716	0.3068	ppb	0.0691	22.5	37.6255
Cu 324.754	0.5343	ppb	0.0965	18.1	169.522
Fe 271.441	6476.79	ppb	186.094	2.9	11106.0
K 766.491	2831.76	ppb	62.6970	2.2	99508.6
Mg 279.078	44825.4	ppb	1214.55	2.7	94464.1
Mn 257.610	3507.87	ppb	95.6965	2.7	874355
Mo 202.032	9.2525	ppb	0.5218	5.6	81.8470
Na 330.237	16254.2	ppb	526.594	3.2	826.856
Ni 231.604	3.5503	ppb	0.1665	4.7	10.3442
Pb 220.353	4.6056	ppb	1.7292	37.5	32.3944
Sb 206.834	-1.8836	ppb	2.5950	137.8	4.2483
Se 196.026	5.0098	ppb	6.9063	137.9	9.4139
Sn 189.925	0.0756	ppb	1.3550	1792.6	-12.8494
Sr 216.596	376.156	ppb	9.4256	2.5	4288.08
Ti 334.941	-0.1461	ppb	0.0520	35.6	106.846
Tl 190.794	6.4303	ppb	1.9506	30.3	-14.1470
V 292.401	0.3358	ppb	0.0621	18.5	0.2424
Zn 206.200	8.9507	ppb	0.9299	10.4	19.1760

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90122-i-3-cSD^5 (Samp) 5/21/2013, 7:38:25 PM Rack 2, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1799	0.0242	-0.1417u
Al 308.215	4.5112	4.6912	4.7779
As 188.980	-0.0294	6.8108	5.1959
B 249.678	-0.8922u	-0.5900u	-0.8208u
Ba 389.178	14.9858	14.7503	14.2395
Be 313.042	-0.0149u	-0.0116u	-0.0068
Ca 370.602	42932	43180	42604
Cd 226.502	0.1299	0.0611	0.1765
Co 228.615	-0.4430u	-0.1898u	-0.4759u
Cr 267.716	0.0341	-0.0699	-0.0383
Cu 324.754	0.8417	0.3285	0.1715
Fe 271.441	1340.13	1348.71	1332.67
K 766.491	511.306	510.852	505.746
Mg 279.078	9113.39	9115.41	9012.31
Mn 257.610	738.544	739.125	729.331
Mo 202.032	1.2010	2.1059	1.8959
Na 330.237	3089.01	3249.62	2991.00
Ni 231.604	0.3849	2.1043	0.4811
Pb 220.353	2.3551	0.3226	-0.2994u
Sb 206.834	-4.7436u	-3.1160u	-6.1410u
Se 196.026	3.6709	-0.7766u	10.1465
Sn 189.925	-0.0262u	0.7798	-0.3776u
Sr 216.596	78.2036	77.5425	76.5226
Ti 334.941	0.0291	-0.0103	-0.0780
Tl 190.794	6.8637	6.5998	0.9180u
V 292.401	0.1264	0.1227	0.0423
Zn 206.200	1.7060	2.8924	2.4517

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0208	ppb	0.1608	773.6	-44.9077
Al 308.215	4.6601	ppb	0.1360	2.9	219.137
As 188.980	3.9924	ppb	3.5754	89.6	-4.7602
B 249.678	-0.7676	ppb	0.1580	20.6	301.385
Ba 389.178	14.6585	ppb	0.3815	2.6	331.375
Be 313.042	-0.0111	ppb	0.0040	36.6	-231.064
Ca 370.602	42905	ppb	289.1	0.7	102218
Cd 226.502	0.1225	ppb	0.0581	47.4	30.1679
Co 228.615	-0.3696	ppb	0.1566	42.4	4.0571
Cr 267.716	-0.0247	ppb	0.0534	215.9	7.8155
Cu 324.754	0.4473	ppb	0.3505	78.4	162.855
Fe 271.441	1340.50	ppb	8.0286	0.6	2315.67
K 766.491	509.301	ppb	3.0873	0.6	18105.4
Mg 279.078	9080.37	ppb	58.9483	0.6	19161.9
Mn 257.610	735.667	ppb	5.4949	0.7	183382
Mo 202.032	1.7343	ppb	0.4736	27.3	24.7877
Na 330.237	3109.88	ppb	130.569	4.2	196.389
Ni 231.604	0.9901	ppb	0.9661	97.6	2.9833
Pb 220.353	0.7928	ppb	1.3883	175.1	24.9785
Sb 206.834	-4.6669	ppb	1.5139	32.4	1.2225
Se 196.026	4.3469	ppb	5.4928	126.4	8.3643
Sn 189.925	0.1253	ppb	0.5934	473.5	-12.8877
Sr 216.596	77.4229	ppb	0.8469	1.1	897.042
Ti 334.941	-0.0197	ppb	0.0542	274.9	-18.7817
Tl 190.794	4.7938	ppb	3.3592	70.1	-11.5319
V 292.401	0.0971	ppb	0.0475	48.9	-4.9303
Zn 206.200	2.3500	ppb	0.5997	25.5	8.9991

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90122-i-3-cPDS (Samp) **5/21/2013, 7:43:51 PM** **Rack 2, Tube 41****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.2590	50.8884	50.2989
Al 308.215	2050.39	2046.58	2045.02
As 188.980	2283.31	2299.81	2307.23
B 249.678	18.0990	17.2330	17.2890
Ba 389.178	2058.87	2056.68	2052.35
Be 313.042	49.9843	50.0191	49.8318
Ca 370.602	208451	207563	207718
Cd 226.502	49.7137	49.7125	49.6625
Co 228.615	504.382	501.029	501.656
Cr 267.716	197.166	197.124	197.031
Cu 324.754	256.410	255.740	256.908
Fe 271.441	7316.42	7323.80	7293.79
K 766.491	2796.81	2800.52	2786.28
Mg 279.078	43726.3	43827.3	43727.9
Mn 257.610	3935.32	3937.99	3932.65
Mo 202.032	8.9274	8.5376	9.3881
Na 330.237	16285.5	15820.3	15887.1
Ni 231.604	492.214	495.497	496.897
Pb 220.353	507.952	507.468	504.907
Sb 206.834	522.884	527.545	519.823
Se 196.026	2102.57	2110.56	2109.39
Sn 189.925	1.1432	0.0846	0.1680
Sr 216.596	368.170	369.999	370.653
Ti 334.941	-0.1708	-0.1565	-0.1055
Tl 190.794	2075.59	2084.01	2082.76
V 292.401	495.734	495.895	495.085
Zn 206.200	489.244	487.343	486.844

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.8154	ppb	0.4841	1.0	3857.57
Al 308.215	2047.33	ppb	2.7638	0.1	13110.8
As 188.980	2296.78	ppb	12.2428	0.5	1372.18
B 249.678	17.5403	ppb	0.4847	2.8	530.620
Ba 389.178	2055.97	ppb	3.3159	0.2	43580.8
Be 313.042	49.9451	ppb	0.0996	0.2	93285.0
Ca 370.602	207911	ppb	474.5	0.2	495235
Cd 226.502	49.6963	ppb	0.0292	0.1	1884.83
Co 228.615	502.356	ppb	1.7824	0.4	6273.33
Cr 267.716	197.107	ppb	0.0688	0.0	9626.72
Cu 324.754	256.352	ppb	0.5864	0.2	14200.4
Fe 271.441	7311.34	ppb	15.6403	0.2	12615.6
K 766.491	2794.54	ppb	7.3876	0.3	98203.7
Mg 279.078	43760.5	ppb	57.8675	0.1	92212.0
Mn 257.610	3935.32	ppb	2.6735	0.1	980841
Mo 202.032	8.9510	ppb	0.4257	4.8	78.5194
Na 330.237	15997.6	ppb	251.512	1.6	810.934
Ni 231.604	494.869	ppb	2.4035	0.5	1400.98
Pb 220.353	506.776	ppb	1.6361	0.3	925.833
Sb 206.834	523.417	ppb	3.8890	0.7	573.851
Se 196.026	2107.51	ppb	4.3170	0.2	1053.50
Sn 189.925	0.4652	ppb	0.5886	126.5	-12.5064
Sr 216.596	369.607	ppb	1.2870	0.3	4205.34
Ti 334.941	-0.1443	ppb	0.0343	23.8	102.987
Tl 190.794	2080.79	ppb	4.5412	0.2	1990.65
V 292.401	495.571	ppb	0.4291	0.1	13049.5
Zn 206.200	487.811	ppb	1.2664	0.3	719.497

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90122-a-3-b ms (Samp) 5/21/2013, 7:49:17 PM Rack 2, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.4417	50.5337	48.8656
Al 308.215	5086.27	5030.01	5079.53
As 188.980	116.098	110.300	118.931
B 249.678	201.681	200.324	202.494
Ba 389.178	157.492	155.650	156.669
Be 313.042	49.3142	48.9233	50.1044
Ca 370.602	203662	202102	202761
Cd 226.502	48.4439	48.0009	48.4914
Co 228.615	48.1314	47.5448	48.1825
Cr 267.716	96.5082	95.4810	96.3363
Cu 324.754	100.908	99.5521	99.5035
Fe 271.441	15460.8	15343.6	15479.2
K 766.491	8637.19	8593.69	8679.08
Mg 279.078	39742.8	39337.8	39743.2
Mn 257.610	3194.90	3166.97	3196.19
Mo 202.032	97.9861	97.1106	97.1138
Na 330.237	15493.0	15162.3	15678.4
Ni 231.604	96.3041	94.9596	95.5083
Pb 220.353	51.1815	49.0603	50.0087
Sb 206.834	53.5476	46.0393	46.9540
Se 196.026	106.294	96.4939	101.992
Sn 189.925	188.681	196.323	190.775
Sr 216.596	429.473	425.044	430.924
Ti 334.941	95.1742	94.4020	95.3793
Tl 190.794	47.3910	48.9946	50.5719
V 292.401	98.0013	96.6428	97.8438
Zn 206.200	93.1732	93.2993	94.1595

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.9470	ppb	0.9377	1.9	3782.26
Al 308.215	5065.27	ppb	30.7175	0.6	32210.2
As 188.980	115.110	ppb	4.3996	3.8	62.3232
B 249.678	201.500	ppb	1.0966	0.5	2901.48
Ba 389.178	156.603	ppb	0.9227	0.6	3424.03
Be 313.042	49.4473	ppb	0.6017	1.2	92354.3
Ca 370.602	202841	ppb	783.1	0.4	482654
Cd 226.502	48.3121	ppb	0.2705	0.6	1858.89
Co 228.615	47.9529	ppb	0.3544	0.7	605.531
Cr 267.716	96.1085	ppb	0.5502	0.6	4706.66
Cu 324.754	99.9879	ppb	0.7974	0.8	5630.78
Fe 271.441	15427.8	ppb	73.5620	0.5	26433.0
K 766.491	8636.66	ppb	42.6978	0.5	302972
Mg 279.078	39607.9	ppb	233.950	0.6	83471.6
Mn 257.610	3186.02	ppb	16.5098	0.5	794153
Mo 202.032	97.4035	ppb	0.5046	0.5	753.377
Na 330.237	15444.6	ppb	261.422	1.7	784.144
Ni 231.604	95.5907	ppb	0.6761	0.7	271.054
Pb 220.353	50.0835	ppb	1.0626	2.1	113.133
Sb 206.834	48.8469	ppb	4.0965	8.4	59.4092
Se 196.026	101.593	ppb	4.9122	4.8	57.3438
Sn 189.925	191.926	ppb	3.9491	2.1	157.158
Sr 216.596	428.480	ppb	3.0633	0.7	4876.17
Ti 334.941	94.9852	ppb	0.5154	0.5	26847.4
Tl 190.794	48.9858	ppb	1.5905	3.2	27.0318
V 292.401	97.4959	ppb	0.7431	0.8	2541.74
Zn 206.200	93.5440	ppb	0.5367	0.6	142.606

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90122-i-3-d msd (Samp) **5/21/2013, 7:54:52 PM** **Rack 2, Tube 43**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.0951	50.5214	50.0576
Al 308.215	5020.32	5014.57	5025.89
As 188.980	117.480	121.278	113.793
B 249.678	205.466	205.184	207.315
Ba 389.178	167.720	167.735	167.786
Be 313.042	48.4719	48.5423	48.5933
Ca 370.602	205637	205894	206744
Cd 226.502	47.9322	48.0245	48.3332
Co 228.615	47.5273	47.4158	47.8200
Cr 267.716	94.7124	95.2552	95.0301
Cu 324.754	99.7268	99.2949	100.678
Fe 271.441	12338.5	12323.3	12351.0
K 766.491	8468.58	8457.66	8494.79
Mg 279.078	44666.7	44655.9	44717.7
Mn 257.610	3588.89	3586.91	3585.04
Mo 202.032	103.360	102.846	102.628
Na 330.237	18624.3	18251.9	18428.3
Ni 231.604	95.9733	94.6790	97.5726
Pb 220.353	52.0831	48.6386	51.6820
Sb 206.834	51.1039	51.5488	48.1339
Se 196.026	107.813	105.197	109.272
Sn 189.925	186.431	186.745	184.793
Sr 216.596	443.681	445.565	443.719
Ti 334.941	93.3742	93.5019	93.6074
Tl 190.794	48.4217	43.3960	44.9096
V 292.401	96.5504	96.2023	96.8597
Zn 206.200	99.0348	99.5180	97.7953

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.2247	ppb	0.2577	0.5	3804.64
Al 308.215	5020.26	ppb	5.6604	0.1	31926.5
As 188.980	117.517	ppb	3.7427	3.2	63.6829
B 249.678	205.988	ppb	1.1575	0.6	2963.57
Ba 389.178	167.747	ppb	0.0347	0.0	3667.75
Be 313.042	48.5358	ppb	0.0609	0.1	90648.4
Ca 370.602	206092	ppb	579.5	0.3	490598
Cd 226.502	48.0966	ppb	0.2100	0.4	1841.26
Co 228.615	47.5877	ppb	0.2088	0.4	600.849
Cr 267.716	94.9992	ppb	0.2728	0.3	4653.68
Cu 324.754	99.9000	ppb	0.7078	0.7	5625.13
Fe 271.441	12337.6	ppb	13.8542	0.1	21144.3
K 766.491	8473.68	ppb	19.0800	0.2	297260
Mg 279.078	44680.1	ppb	33.0063	0.1	94156.1
Mn 257.610	3586.95	ppb	1.9276	0.1	894073
Mo 202.032	102.945	ppb	0.3756	0.4	795.796
Na 330.237	18434.8	ppb	186.316	1.0	928.750
Ni 231.604	96.0750	ppb	1.4495	1.5	272.356
Pb 220.353	50.8012	ppb	1.8836	3.7	114.495
Sb 206.834	50.2622	ppb	1.8565	3.7	60.7593
Se 196.026	107.428	ppb	2.0648	1.9	60.3223
Sn 189.925	185.990	ppb	1.0482	0.6	151.899
Sr 216.596	444.322	ppb	1.0775	0.2	5053.70
Ti 334.941	93.4945	ppb	0.1168	0.1	26450.4
Tl 190.794	45.5758	ppb	2.5782	5.7	23.3163
V 292.401	96.5375	ppb	0.3289	0.3	2515.50
Zn 206.200	98.7827	ppb	0.8886	0.9	150.964

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

mb 680-277332/1-a (Samp) 5/21/2013, 8:00:19 PM Rack 2, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4345	0.1135	0.1260
Al 308.215	2.8309	2.2666	5.2353
As 188.980	2.7716	-3.5879u	1.5246
B 249.678	-1.3385u	-0.7935u	-2.2098u
Ba 389.178	0.1818	0.1503	0.0979
Be 313.042	0.0065	0.0069	0.0004
Ca 370.602	-2.495u	4.241	-1.942u
Cd 226.502	0.0404	0.2216	0.1105
Co 228.615	0.1393	0.2326	-0.1496u
Cr 267.716	0.0707	0.2601	0.1389
Cu 324.754	0.5607	0.0087	0.7223
Fe 271.441	1.2813	-1.2732u	4.6791
K 766.491	0.3515	0.2895	0.4335
Mg 279.078	0.3178	3.6030	1.3501
Mn 257.610	0.1912	0.2002	0.2593
Mo 202.032	-0.4271u	0.3302	-0.3931u
Na 330.237	-1.1017u	40.6840	4.4208
Ni 231.604	0.4269	0.2040	-0.5882u
Pb 220.353	1.3814	-1.9244u	-1.9374u
Sb 206.834	-3.9263u	-3.7193u	-4.1125u
Se 196.026	-6.0076u	5.4598	3.6540
Sn 189.925	1.5311	1.2235	-2.1140u
Sr 216.596	-0.4795u	-0.7527u	0.1751
Ti 334.941	0.0242	0.0302	0.0321
Tl 190.794	0.1827	4.2581	2.3297
V 292.401	-0.2602u	0.1010	0.0556
Zn 206.200	-0.9082u	-0.0243u	-1.1234u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2247	ppb	0.1818	80.9	-28.8954
Al 308.215	3.4443	ppb	1.5765	45.8	211.125
As 188.980	0.2361	ppb	3.3699	1427.4	-7.0518
B 249.678	-1.4473	ppb	0.7144	49.4	294.315
Ba 389.178	0.1434	ppb	0.0424	29.6	1.1723
Be 313.042	0.0046	ppb	0.0036	79.2	-215.711
Ca 370.602	-0.0653	ppb	3.740	5726.4	14.02
Cd 226.502	0.1241	ppb	0.0914	73.6	25.9224
Co 228.615	0.0741	ppb	0.1993	269.0	9.7047
Cr 267.716	0.1566	ppb	0.0959	61.3	13.0421
Cu 324.754	0.4306	ppb	0.3742	86.9	161.449
Fe 271.441	1.5624	ppb	2.9861	191.1	24.2813
K 766.491	0.3582	ppb	0.0722	20.2	266.794
Mg 279.078	1.7570	ppb	1.6799	95.6	37.0217
Mn 257.610	0.2169	ppb	0.0370	17.1	74.2836
Mo 202.032	-0.1633	ppb	0.4277	262.0	10.3888
Na 330.237	14.6677	ppb	22.6993	154.8	47.9745
Ni 231.604	0.0142	ppb	0.5335	3754.3	0.1912
Pb 220.353	-0.8268	ppb	1.9124	231.3	21.9288
Sb 206.834	-3.9194	ppb	0.1967	5.0	2.0255
Se 196.026	1.0354	ppb	6.1659	595.5	6.5290
Sn 189.925	0.2135	ppb	2.0216	946.8	-12.8304
Sr 216.596	-0.3524	ppb	0.4768	135.3	14.3274
Ti 334.941	0.0288	ppb	0.0041	14.3	-46.0692
Tl 190.794	2.2568	ppb	2.0387	90.3	-12.8714
V 292.401	-0.0345	ppb	0.1968	570.0	-8.1364
Zn 206.200	-0.6853	ppb	0.5825	85.0	-4.4213

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

ics 680-277332/2-a (Samp) 5/21/2013, 8:05:44 PM Rack 2, Tube 45
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.2872	51.0603	50.7323
Al 308.215	4947.19	5012.08	5034.40
As 188.980	118.571	118.631	110.791
B 249.678	185.645	189.892	190.191
Ba 389.178	97.6801	99.2394	99.6841
Be 313.042	49.6175	50.1831	50.3434
Ca 370.602	4760	4839	4858
Cd 226.502	50.6336	51.2909	51.4343
Co 228.615	50.4492	51.5116	50.5246
Cr 267.716	100.188	101.438	101.132
Cu 324.754	98.8209	100.816	101.194
Fe 271.441	4843.27	4908.73	4915.28
K 766.491	5105.91	5160.93	5166.94
Mg 279.078	4913.93	5000.03	5017.69
Mn 257.610	510.424	517.808	519.277
Mo 202.032	99.1683	102.581	102.694
Na 330.237	4778.93	5128.17	4963.33
Ni 231.604	98.3152	100.976	101.625
Pb 220.353	51.4420	50.4582	49.5647
Sb 206.834	48.0895	51.2920	51.6359
Se 196.026	103.760	103.807	101.377
Sn 189.925	198.755	201.985	201.861
Sr 216.596	97.7355	99.6718	99.8759
Ti 334.941	97.7338	98.7826	99.2612
Tl 190.794	46.5306	43.6635	40.9582
V 292.401	100.351	101.161	100.870
Zn 206.200	99.2717	100.400	101.183

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.6933	ppb	0.3880	0.8	3843.21
Al 308.215	4997.89	ppb	45.3036	0.9	31784.6
As 188.980	115.998	ppb	4.5094	3.9	62.5682
B 249.678	188.576	ppb	2.5428	1.3	2747.77
Ba 389.178	98.8679	ppb	1.0524	1.1	2107.27
Be 313.042	50.0480	ppb	0.3813	0.8	93411.4
Ca 370.602	4819	ppb	51.99	1.1	11229
Cd 226.502	51.1196	ppb	0.4270	0.8	1929.37
Co 228.615	50.8284	ppb	0.5928	1.2	641.719
Cr 267.716	100.919	ppb	0.6517	0.6	4926.63
Cu 324.754	100.277	ppb	1.2753	1.3	5643.32
Fe 271.441	4889.09	ppb	39.8182	0.8	8397.62
K 766.491	5144.59	ppb	33.6384	0.7	180574
Mg 279.078	4977.21	ppb	55.5147	1.1	10515.8
Mn 257.610	515.836	ppb	4.7443	0.9	128589
Mo 202.032	101.481	ppb	2.0037	2.0	785.019
Na 330.237	4956.81	ppb	174.710	3.5	282.795
Ni 231.604	100.305	ppb	1.7538	1.7	284.163
Pb 220.353	50.4883	ppb	0.9390	1.9	113.224
Sb 206.834	50.3391	ppb	1.9558	3.9	60.7561
Se 196.026	102.981	ppb	1.3894	1.3	57.3059
Sn 189.925	200.867	ppb	1.8301	0.9	164.987
Sr 216.596	99.0944	ppb	1.1812	1.2	1133.36
Ti 334.941	98.5925	ppb	0.7813	0.8	27704.9
Tl 190.794	43.7175	ppb	2.7866	6.4	26.2584
V 292.401	100.794	ppb	0.4104	0.4	2627.39
Zn 206.200	100.285	ppb	0.9608	1.0	152.393

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90282-a-5-a (Samp) 5/21/2013, 8:11:10 PM Rack 2, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0862	0.1097	0.3167
Al 308.215	35.9423	32.7838	30.8390
As 188.980	3.0724	-1.9836u	2.6990
B 249.678	13.1966	12.1973	12.4445
Ba 389.178	14.2980	15.4071	14.8024
Be 313.042	0.0027	0.0073	0.0012
Ca 370.602	19675	19554	19521
Cd 226.502	0.1046	0.1285	-0.0624u
Co 228.615	1.3385	1.2481	1.6625
Cr 267.716	0.1707	0.0152	0.0237
Cu 324.754	0.2891	0.0013	-0.1533u
Fe 271.441	189.237	189.597	187.473
K 766.491	1627.16	1623.94	1620.34
Mg 279.078	5293.64	5298.89	5286.08
Mn 257.610	183.232	182.942	182.741
Mo 202.032	0.0977	0.4719	0.3930
Na 330.237	14256.1	14517.8	14265.8
Ni 231.604	0.7378	0.9433	-0.6218u
Pb 220.353	-2.5052u	0.7990	1.0346
Sb 206.834	-2.8594u	-0.9993u	2.4652
Se 196.026	-2.1909u	-5.4402u	-0.7910u
Sn 189.925	2.2196	2.3523	-2.3867u
Sr 216.596	88.3763	87.0626	87.2859
Ti 334.941	0.5347	0.4951	0.4164
Tl 190.794	3.7948	2.2529	1.6241
V 292.401	0.0888	0.1970	0.3856
Zn 206.200	2.6975	3.6425	2.6937

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1709	ppb	0.1268	74.2	-36.3420
Al 308.215	33.1884	ppb	2.5756	7.8	399.249
As 188.980	1.2626	ppb	2.8175	223.2	-6.4305
B 249.678	12.6128	ppb	0.5205	4.1	476.080
Ba 389.178	14.8358	ppb	0.5553	3.7	324.648
Be 313.042	0.0038	ppb	0.0032	84.8	-212.310
Ca 370.602	19583	ppb	81.25	0.4	46686
Cd 226.502	0.0569	ppb	0.1040	182.8	24.0040
Co 228.615	1.4164	ppb	0.2179	15.4	26.4342
Cr 267.716	0.0699	ppb	0.0874	125.2	9.9116
Cu 324.754	0.0457	ppb	0.2245	491.0	140.406
Fe 271.441	188.769	ppb	1.1370	0.6	344.873
K 766.491	1623.81	ppb	3.4099	0.2	57169.4
Mg 279.078	5292.87	ppb	6.4388	0.1	11187.1
Mn 257.610	182.972	ppb	0.2465	0.1	45651.4
Mo 202.032	0.3209	ppb	0.1972	61.5	14.0705
Na 330.237	14346.6	ppb	148.371	1.0	736.945
Ni 231.604	0.3531	ppb	0.8505	240.9	1.1546
Pb 220.353	-0.2239	ppb	1.9792	884.0	23.0431
Sb 206.834	-0.4645	ppb	2.7023	581.8	5.7520
Se 196.026	-2.8074	ppb	2.3851	85.0	4.6675
Sn 189.925	0.7284	ppb	2.6986	370.5	-12.3600
Sr 216.596	87.5750	ppb	0.7029	0.8	1008.62
Ti 334.941	0.4820	ppb	0.0602	12.5	104.344
Tl 190.794	2.5573	ppb	1.1169	43.7	-12.8495
V 292.401	0.2238	ppb	0.1502	67.1	-1.4454
Zn 206.200	3.0112	ppb	0.5467	18.2	9.8499

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90282-a-5-aSD^5 (Samp) 5/21/2013, 8:16:36 PM Rack 2, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2313	-0.2329u	0.0546
Al 308.215	12.0334	8.2915	9.6984
As 188.980	-5.2564u	1.7318	7.8398
B 249.678	-2.3459u	-3.4349u	-3.0944u
Ba 389.178	3.8994	3.3739	3.2400
Be 313.042	0.0017	0.0059	0.0065
Ca 370.602	4050	4063	4047
Cd 226.502	0.1002	0.0087	0.1120
Co 228.615	0.2576	0.2054	0.1347
Cr 267.716	-0.1590u	0.1117	0.0214
Cu 324.754	0.0197	0.9144	0.0287
Fe 271.441	40.2485	42.5899	36.6494
K 766.491	318.280	320.588	319.435
Mg 279.078	1106.79	1111.87	1107.78
Mn 257.610	38.0841	38.0692	38.1060
Mo 202.032	-0.0448u	0.2867	0.1495
Na 330.237	3178.13	2835.42	3035.88
Ni 231.604	-0.1080u	-1.6738u	0.0452
Pb 220.353	-2.2744u	0.7142	-1.7591u
Sb 206.834	0.2519	-0.8347u	-0.7241u
Se 196.026	-4.9534u	10.8336	6.0370
Sn 189.925	-1.0927u	4.4183	1.3341
Sr 216.596	18.2133	18.1218	18.2970
Ti 334.941	0.1347	0.1431	0.1430
Tl 190.794	2.3910	0.2164	-1.3275u
V 292.401	0.0794	-0.0033u	-0.1561u
Zn 206.200	-0.5862u	0.5192	1.0877

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0176	ppb	0.2343	1328.1	-45.4977
Al 308.215	10.0078	ppb	1.8900	18.9	252.715
As 188.980	1.4384	ppb	6.5530	455.6	-6.3289
B 249.678	-2.9584	ppb	0.5571	18.8	274.705
Ba 389.178	3.5044	ppb	0.3485	9.9	74.9238
Be 313.042	0.0047	ppb	0.0026	56.1	-214.532
Ca 370.602	4053	ppb	8.246	0.2	9674
Cd 226.502	0.0737	ppb	0.0565	76.8	24.1724
Co 228.615	0.1992	ppb	0.0617	31.0	11.2557
Cr 267.716	-0.0086	ppb	0.1378	1599.7	5.2197
Cu 324.754	0.3209	ppb	0.5140	160.1	155.455
Fe 271.441	39.8292	ppb	2.9923	7.5	89.7883
K 766.491	319.435	ppb	1.1540	0.4	11450.5
Mg 279.078	1108.82	ppb	2.6946	0.2	2369.95
Mn 257.610	38.0864	ppb	0.0185	0.0	9518.64
Mo 202.032	0.1305	ppb	0.1665	127.6	12.6267
Na 330.237	3016.48	ppb	172.179	5.7	192.277
Ni 231.604	-0.5789	ppb	0.9513	164.3	-1.4866
Pb 220.353	-1.1065	ppb	1.5976	144.4	21.4396
Sb 206.834	-0.4357	ppb	0.5980	137.3	5.7811
Se 196.026	3.9724	ppb	8.0935	203.7	7.9969
Sn 189.925	1.5532	ppb	2.7621	177.8	-11.6402
Sr 216.596	18.2107	ppb	0.0876	0.5	224.231
Ti 334.941	0.1402	ppb	0.0048	3.5	-9.9196
Tl 190.794	0.4266	ppb	1.8681	437.9	-14.6962
V 292.401	-0.0267	ppb	0.1195	447.5	-7.9833
Zn 206.200	0.3402	ppb	0.8512	250.2	5.9264

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90282-a-5-aPDS (Samp) 5/21/2013, 8:22:02 PM Rack 2, Tube 48

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.5908	49.5356	51.9684
Al 308.215	2028.94	2005.61	2068.42
As 188.980	2318.66	2280.05	2367.60
B 249.678	10.2359	9.2974	10.7373
Ba 389.178	2053.13	2025.63	2095.04
Be 313.042	50.5766	50.0079	51.5266
Ca 370.602	19428	19115	19745
Cd 226.502	51.8445	51.1211	52.6518
Co 228.615	528.979	519.073	543.568
Cr 267.716	205.011	202.408	209.248
Cu 324.754	255.951	253.841	260.805
Fe 271.441	1193.40	1176.64	1214.85
K 766.491	1611.96	1597.50	1632.34
Mg 279.078	5226.82	5171.00	5325.93
Mn 257.610	711.005	700.561	722.787
Mo 202.032	0.4646	0.1195u	-0.1906u
Na 330.237	14180.7	13939.7	14088.3
Ni 231.604	517.368	511.752	523.116
Pb 220.353	526.501	515.581	538.714
Sb 206.834	528.407	526.864	539.364
Se 196.026	2104.58	2087.33	2161.10
Sn 189.925	0.6045	2.2419	-1.7075u
Sr 216.596	88.9707	87.9121	90.1345
Ti 334.941	0.5415	0.5298	0.5559
Tl 190.794	2173.79	2154.81	2201.81
V 292.401	511.929	505.800	521.780
Zn 206.200	514.423	504.140	523.129

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.6982	ppb	1.2199	2.4	3847.56
Al 308.215	2034.32	ppb	31.7528	1.6	13026.9
As 188.980	2322.10	ppb	43.8732	1.9	1387.23
B 249.678	10.0902	ppb	0.7309	7.2	442.065
Ba 389.178	2057.93	ppb	34.9531	1.7	43522.7
Be 313.042	50.7037	ppb	0.7673	1.5	94641.3
Ca 370.602	19429	ppb	315.3	1.6	46269
Cd 226.502	51.8725	ppb	0.7658	1.5	1945.73
Co 228.615	530.540	ppb	12.3216	2.3	6625.37
Cr 267.716	205.556	ppb	3.4525	1.7	10022.6
Cu 324.754	256.865	ppb	3.5709	1.4	14226.1
Fe 271.441	1194.96	ppb	19.1559	1.6	2152.61
K 766.491	1613.93	ppb	17.5038	1.1	56823.2
Mg 279.078	5241.25	ppb	78.4678	1.5	11069.4
Mn 257.610	711.451	ppb	11.1200	1.6	177315
Mo 202.032	0.1312	ppb	0.3277	249.8	11.5510
Na 330.237	14069.6	ppb	121.587	0.9	719.770
Ni 231.604	517.412	ppb	5.6821	1.1	1464.65
Pb 220.353	526.932	ppb	11.5726	2.2	960.949
Sb 206.834	531.545	ppb	6.8155	1.3	582.698
Se 196.026	2117.67	ppb	38.5895	1.8	1057.70
Sn 189.925	0.3796	ppb	1.9843	522.7	-12.6692
Sr 216.596	89.0058	ppb	1.1116	1.2	1015.99
Ti 334.941	0.5424	ppb	0.0131	2.4	121.329
Tl 190.794	2176.80	ppb	23.6450	1.1	2088.36
V 292.401	513.170	ppb	8.0619	1.6	13514.4
Zn 206.200	513.897	ppb	9.5950	1.8	757.033

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90282-a-5-b ms (Samp) **5/21/2013, 8:38:20 PM** **Rack 2, Tube 51**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.6654	50.4045	49.7442
Al 308.215	4986.89	4981.92	4971.72
As 188.980	116.742	113.840	107.115
B 249.678	200.559	201.223	200.869
Ba 389.178	111.730	110.644	110.658
Be 313.042	49.4018	49.4497	49.3774
Ca 370.602	23978	23854	23810
Cd 226.502	50.1040	49.7581	49.8621
Co 228.615	50.5802	50.7843	51.3560
Cr 267.716	99.0809	98.9488	99.0195
Cu 324.754	97.7436	98.9013	98.5991
Fe 271.441	4985.97	4990.86	4981.13
K 766.491	6901.21	6893.91	6868.39
Mg 279.078	10176.9	10159.9	10162.9
Mn 257.610	687.780	685.979	685.969
Mo 202.032	98.5469	99.1789	100.203
Na 330.237	19373.0	19441.6	19527.8
Ni 231.604	99.5233	98.3848	99.3101
Pb 220.353	47.6660	48.0225	48.7415
Sb 206.834	44.9502	52.7492	49.4501
Se 196.026	98.4542	98.3615	101.847
Sn 189.925	191.075	195.224	193.193
Sr 216.596	185.373	184.461	184.940
Ti 334.941	97.7294	97.5381	97.3823
Tl 190.794	46.8199	40.7538	39.3553
V 292.401	99.6025	99.2820	98.7654
Zn 206.200	101.300	100.866	99.3720

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.9380	ppb	0.4059	0.8	3781.96
Al 308.215	4980.18	ppb	7.7318	0.2	31672.6
As 188.980	112.566	ppb	4.9382	4.4	60.5105
B 249.678	200.884	ppb	0.3321	0.2	2906.96
Ba 389.178	111.011	ppb	0.6233	0.6	2376.47
Be 313.042	49.4096	ppb	0.0368	0.1	92222.1
Ca 370.602	23881	ppb	87.05	0.4	56662
Cd 226.502	49.9081	ppb	0.1775	0.4	1884.80
Co 228.615	50.9068	ppb	0.4021	0.8	642.746
Cr 267.716	99.0164	ppb	0.0661	0.1	4834.94
Cu 324.754	98.4147	ppb	0.6005	0.6	5541.11
Fe 271.441	4985.99	ppb	4.8648	0.1	8563.44
K 766.491	6887.84	ppb	17.2314	0.3	241675
Mg 279.078	10166.6	ppb	9.0469	0.1	21451.5
Mn 257.610	686.576	ppb	1.0423	0.2	171172
Mo 202.032	99.3097	ppb	0.8360	0.8	768.460
Na 330.237	19447.5	ppb	77.5219	0.4	979.457
Ni 231.604	99.0727	ppb	0.6052	0.6	280.677
Pb 220.353	48.1433	ppb	0.5478	1.1	109.095
Sb 206.834	49.0498	ppb	3.9149	8.0	59.3714
Se 196.026	99.5542	ppb	1.9862	2.0	55.6475
Sn 189.925	193.164	ppb	2.0744	1.1	158.175
Sr 216.596	184.925	ppb	0.4562	0.2	2104.01
Ti 334.941	97.5499	ppb	0.1738	0.2	27434.1
Tl 190.794	42.3097	ppb	3.9681	9.4	24.6502
V 292.401	99.2166	ppb	0.4223	0.4	2586.26
Zn 206.200	100.512	ppb	1.0111	1.0	152.741

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90282-a-5-c msd (Samp) 5/21/2013, 8:43:45 PM Rack 2, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.4110	50.7885	50.6795
Al 308.215	5049.63	5047.51	5048.33
As 188.980	119.525	118.448	113.529
B 249.678	205.906	204.882	205.707
Ba 389.178	113.222	112.357	113.170
Be 313.042	49.8501	49.8972	49.9122
Ca 370.602	24464	24438	24381
Cd 226.502	50.4850	50.2500	50.7137
Co 228.615	52.2468	51.3625	52.1303
Cr 267.716	100.361	99.9207	99.9743
Cu 324.754	98.5539	101.323	101.303
Fe 271.441	5035.23	5053.97	5047.17
K 766.491	6993.87	6990.59	7020.27
Mg 279.078	10303.4	10327.3	10313.0
Mn 257.610	695.604	696.525	695.528
Mo 202.032	100.166	101.537	100.658
Na 330.237	19866.1	19520.5	19644.2
Ni 231.604	100.323	98.3595	98.4613
Pb 220.353	51.9349	51.5081	53.0119
Sb 206.834	50.8196	46.4961	49.8439
Se 196.026	107.137	104.871	94.6929
Sn 189.925	193.987	193.919	198.200
Sr 216.596	187.759	187.828	187.211
Ti 334.941	98.4365	98.3652	98.4148
Tl 190.794	40.3492	43.4930	46.6132
V 292.401	100.070	100.639	100.807
Zn 206.200	100.323	101.566	101.782

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.6263	ppb	0.1943	0.4	3834.74
Al 308.215	5048.49	ppb	1.0686	0.0	32104.5
As 188.980	117.167	ppb	3.1963	2.7	63.2747
B 249.678	205.498	ppb	0.5430	0.3	2966.62
Ba 389.178	112.916	ppb	0.4851	0.4	2417.21
Be 313.042	49.8865	ppb	0.0324	0.1	93114.3
Ca 370.602	24427	ppb	42.56	0.2	57962
Cd 226.502	50.4829	ppb	0.2319	0.5	1906.26
Co 228.615	51.9132	ppb	0.4804	0.9	655.265
Cr 267.716	100.085	ppb	0.2401	0.2	4887.08
Cu 324.754	100.393	ppb	1.5931	1.6	5649.73
Fe 271.441	5045.46	ppb	9.4895	0.2	8665.38
K 766.491	7001.58	ppb	16.2720	0.2	245662
Mg 279.078	10314.5	ppb	12.0401	0.1	21763.3
Mn 257.610	695.886	ppb	0.5552	0.1	173493
Mo 202.032	100.787	ppb	0.6944	0.7	779.719
Na 330.237	19676.9	ppb	175.132	0.9	990.464
Ni 231.604	99.0479	ppb	1.1053	1.1	280.608
Pb 220.353	52.1516	ppb	0.7749	1.5	116.227
Sb 206.834	49.0532	ppb	2.2676	4.6	59.3708
Se 196.026	102.234	ppb	6.6279	6.5	56.9806
Sn 189.925	195.369	ppb	2.4524	1.3	160.128
Sr 216.596	187.599	ppb	0.3377	0.2	2134.19
Ti 334.941	98.4055	ppb	0.0366	0.0	27675.4
Tl 190.794	43.4851	ppb	3.1320	7.2	25.7710
V 292.401	100.505	ppb	0.3860	0.4	2619.92
Zn 206.200	101.224	ppb	0.7873	0.8	152.785

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90282-a-6-a (Samp) 5/21/2013, 8:49:21 PM Rack 2, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0693u	0.3646	0.2789
Al 308.215	11.3660	14.0249	11.0864
As 188.980	5.2801	9.3583	-0.0998u
B 249.678	47.0558	48.4888	47.2153
Ba 389.178	17.1554	17.3252	15.8761
Be 313.042	-0.0050	-0.0114u	-0.0034
Ca 370.602	54530	56006	54992
Cd 226.502	0.5385	0.3302	0.4163
Co 228.615	0.2913	0.9268	0.0755
Cr 267.716	-0.0210	0.1027	0.1199
Cu 324.754	0.1105	0.3823	0.4718
Fe 271.441	78.5963	80.1108	75.1401
K 766.491	1932.11	1969.08	1941.77
Mg 279.078	7636.95	7839.45	7740.40
Mn 257.610	393.651	404.256	397.383
Mo 202.032	1.2304	1.2659	0.8626
Na 330.237	40630.1	41602.5	41119.7
Ni 231.604	0.4211	-0.1690u	2.3647
Pb 220.353	-1.4810u	-0.7632u	-1.1487u
Sb 206.834	-2.0699u	-5.7860u	-3.9888u
Se 196.026	0.1356	2.7419	-3.9064u
Sn 189.925	3.7118	1.2903	0.8149
Sr 216.596	362.294	374.662	365.949
Ti 334.941	0.1672	0.1862	0.1664
Tl 190.794	3.6137	2.2549	3.5493
V 292.401	0.1711	-0.2559u	-0.4155u
Zn 206.200	41.5570	42.3500	43.6273

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2376	ppb	0.1519	63.9	-43.2467
Al 308.215	12.1591	ppb	1.6219	13.3	266.454
As 188.980	4.8462	ppb	4.7439	97.9	-4.2819
B 249.678	47.5866	ppb	0.7854	1.7	928.943
Ba 389.178	16.7856	ppb	0.7922	4.7	371.555
Be 313.042	-0.0066	ppb	0.0042	63.8	-222.368
Ca 370.602	55176	ppb	755.1	1.4	131538
Cd 226.502	0.4283	ppb	0.1046	24.4	37.2921
Co 228.615	0.4312	ppb	0.4426	102.6	14.1167
Cr 267.716	0.0672	ppb	0.0769	114.4	11.1608
Cu 324.754	0.3215	ppb	0.1882	58.5	155.529
Fe 271.441	77.9491	ppb	2.5478	3.3	155.062
K 766.491	1947.65	ppb	19.1737	1.0	68520.2
Mg 279.078	7738.94	ppb	101.259	1.3	16339.6
Mn 257.610	398.430	ppb	5.3795	1.4	99350.4
Mo 202.032	1.1196	ppb	0.2233	19.9	20.1681
Na 330.237	41117.5	ppb	486.219	1.2	2023.80
Ni 231.604	0.8723	ppb	1.3257	152.0	2.6215
Pb 220.353	-1.1310	ppb	0.3592	31.8	21.4780
Sb 206.834	-3.9482	ppb	1.8584	47.1	1.9769
Se 196.026	-0.3430	ppb	3.3499	976.7	5.9441
Sn 189.925	1.9390	ppb	1.5536	80.1	-11.2612
Sr 216.596	367.635	ppb	6.3539	1.7	4172.32
Ti 334.941	0.1732	ppb	0.0112	6.5	26.5393
Tl 190.794	3.1393	ppb	0.7666	24.4	-12.5884
V 292.401	-0.1668	ppb	0.3033	181.8	-12.0690
Zn 206.200	42.5114	ppb	1.0446	2.5	67.6457

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90282-a-7-a (Samp) 5/21/2013, 8:54:48 PM Rack 2, Tube 54
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1930u	0.0873	0.0276
Al 308.215	167.306	157.726	171.547
As 188.980	0.3483	4.8065	1.7885
B 249.678	19.8175	17.9106	19.9293
Ba 389.178	18.4478	17.2048	18.7311
Be 313.042	0.0147	0.0129	0.0164
Ca 370.602	13265	12832	13629
Cd 226.502	-0.0119u	-0.0471u	-0.0598u
Co 228.615	0.5635	1.0987	1.2237
Cr 267.716	0.4918	0.5649	0.6710
Cu 324.754	0.1694	0.0695	0.2953
Fe 271.441	109.482	111.651	123.686
K 766.491	1942.96	1897.28	1991.76
Mg 279.078	7449.21	7213.53	7653.69
Mn 257.610	515.935	499.098	529.770
Mo 202.032	0.3436	0.1862	-0.1775u
Na 330.237	18923.9	18429.5	19774.2
Ni 231.604	0.1106	0.1940	1.2241
Pb 220.353	-2.2880u	-2.4901u	-1.0652u
Sb 206.834	-5.1335u	-4.6672u	-5.5375u
Se 196.026	0.4165	2.2878	-5.7228u
Sn 189.925	4.3239	0.3451	-3.2677u
Sr 216.596	79.8161	77.9412	82.3420
Ti 334.941	3.0699	3.3566	3.5150
Tl 190.794	0.8129	2.1083	2.2979
V 292.401	0.7394	0.3423	0.6589
Zn 206.200	1.9146	0.4341	1.0106

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0260	ppb	0.1477	566.9	-49.5654
Al 308.215	165.526	ppb	7.0803	4.3	1235.86
As 188.980	2.3145	ppb	2.2752	98.3	-5.8008
B 249.678	19.2191	ppb	1.1346	5.9	561.689
Ba 389.178	18.1279	ppb	0.8119	4.5	399.264
Be 313.042	0.0147	ppb	0.0018	11.9	-194.763
Ca 370.602	13242	ppb	398.9	3.0	31583
Cd 226.502	-0.0396	ppb	0.0248	62.7	20.2054
Co 228.615	0.9619	ppb	0.3507	36.5	20.8601
Cr 267.716	0.5759	ppb	0.0901	15.6	36.1041
Cu 324.754	0.1781	ppb	0.1131	63.5	147.633
Fe 271.441	114.939	ppb	7.6519	6.7	218.455
K 766.491	1944.00	ppb	47.2456	2.4	68392.2
Mg 279.078	7438.81	ppb	220.268	3.0	15705.0
Mn 257.610	514.934	ppb	15.3603	3.0	128372
Mo 202.032	0.1174	ppb	0.2673	227.6	12.5221
Na 330.237	19042.5	ppb	680.152	3.6	962.731
Ni 231.604	0.5095	ppb	0.6202	121.7	1.5958
Pb 220.353	-1.9478	ppb	0.7710	39.6	20.0541
Sb 206.834	-5.1127	ppb	0.4355	8.5	0.7409
Se 196.026	-1.0062	ppb	4.1905	416.5	5.6440
Sn 189.925	0.4671	ppb	3.7973	813.0	-12.5928
Sr 216.596	80.0331	ppb	2.2084	2.8	922.784
Ti 334.941	3.3138	ppb	0.2256	6.8	910.347
Tl 190.794	1.7397	ppb	0.8082	46.5	-14.1075
V 292.401	0.5802	ppb	0.2099	36.2	7.9936
Zn 206.200	1.1198	ppb	0.7462	66.8	7.0729

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90282-a-8-a (Samp) 5/21/2013, 9:00:13 PM Rack 2, Tube 55
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0256u	-0.0995u	0.3958
Al 308.215	50.8284	53.4201	51.7862
As 188.980	4.3231	0.7557	0.9595
B 249.678	6.1667	6.6424	5.7705
Ba 389.178	33.0159	31.0720	31.7397
Be 313.042	0.0266	0.0216	0.0191
Ca 370.602	9615	9709	9619
Cd 226.502	0.3037	0.4406	0.0436
Co 228.615	2.6223	2.9540	3.3875
Cr 267.716	0.0319	0.2046	0.1870
Cu 324.754	0.2579	-0.0255u	-0.1938u
Fe 271.441	104.540	100.705	100.479
K 766.491	1920.73	1932.73	1919.82
Mg 279.078	7093.72	7136.90	7066.21
Mn 257.610	325.963	328.330	325.595
Mo 202.032	0.6230	0.0934	0.0882
Na 330.237	24408.7	24465.0	24296.7
Ni 231.604	0.9038	1.1932	-0.4618u
Pb 220.353	-0.5634u	-1.8254u	1.5103
Sb 206.834	-5.1674u	-5.3542u	-1.0522u
Se 196.026	3.9197	-3.2965u	0.7405
Sn 189.925	0.9407	-1.4826u	2.2313
Sr 216.596	106.251	106.976	105.818
Ti 334.941	0.5745	0.6091	0.5980
Tl 190.794	1.7883	3.0717	1.3531
V 292.401	0.2873	0.0696	-0.1674u
Zn 206.200	3.8596	4.6246	4.7282

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0902	ppb	0.2672	296.1	-42.7368
Al 308.215	52.0116	ppb	1.3105	2.5	518.260
As 188.980	2.0128	ppb	2.0034	99.5	-5.9823
B 249.678	6.1932	ppb	0.4366	7.0	393.092
Ba 389.178	31.9425	ppb	0.9877	3.1	690.496
Be 313.042	0.0224	ppb	0.0038	16.9	-182.115
Ca 370.602	9648	ppb	53.22	0.6	23011
Cd 226.502	0.2626	ppb	0.2016	76.8	31.3229
Co 228.615	2.9880	ppb	0.3837	12.8	46.0419
Cr 267.716	0.1412	ppb	0.0951	67.3	14.1713
Cu 324.754	0.0129	ppb	0.2283	1775.4	138.575
Fe 271.441	101.908	ppb	2.2821	2.2	196.463
K 766.491	1924.43	ppb	7.2030	0.4	67706.1
Mg 279.078	7098.94	ppb	35.6338	0.5	14991.7
Mn 257.610	326.629	ppb	1.4846	0.5	81456.4
Mo 202.032	0.2682	ppb	0.3073	114.6	13.6738
Na 330.237	24390.1	ppb	85.6630	0.4	1219.83
Ni 231.604	0.5451	ppb	0.8839	162.2	1.6960
Pb 220.353	-0.2928	ppb	1.6843	575.2	22.9535
Sb 206.834	-3.8580	ppb	2.4316	63.0	2.0885
Se 196.026	0.4546	ppb	3.6166	795.6	6.3224
Sn 189.925	0.5631	ppb	1.8855	334.8	-12.5074
Sr 216.596	106.348	ppb	0.5848	0.5	1219.30
Ti 334.941	0.5939	ppb	0.0177	3.0	143.190
Tl 190.794	2.0710	ppb	0.8935	43.1	-13.5185
V 292.401	0.0632	ppb	0.2274	360.1	-5.7273
Zn 206.200	4.4042	ppb	0.4744	10.8	7148795

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

mb 680-277275/1-a (Samp) 5/21/2013, 9:05:39 PM Rack 2, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0513	0.1621	0.4512
Al 308.215	5.7655	3.4298	3.0640
As 188.980	2.5613	2.2640	4.4842
B 249.678	-6.0687u	-6.1081u	-5.6281u
Ba 389.178	0.2590	0.1091	0.0740
Be 313.042	0.0010	0.0002	-0.0010u
Ca 370.602	0.8116	-4.095u	-2.159u
Cd 226.502	0.1713	0.0696	0.0964
Co 228.615	0.3311	-0.3558u	-0.2849u
Cr 267.716	0.1655	0.0776	0.0477
Cu 324.754	0.4247	0.8140	-0.0781u
Fe 271.441	-2.6429u	4.1269	0.4206
K 766.491	1.4683	1.0873	2.0044
Mg 279.078	1.3980	2.9705	1.7675
Mn 257.610	0.0816	0.0541	0.0834
Mo 202.032	-0.6884u	-0.4762u	-0.1550u
Na 330.237	135.255	210.966	190.462
Ni 231.604	-0.4449u	-0.0506u	0.5591
Pb 220.353	-0.4163u	-0.4056u	1.0509
Sb 206.834	3.5673	-2.8654u	-3.6948u
Se 196.026	2.2423	-0.7647u	-1.3489u
Sn 189.925	0.6914	-2.0117u	0.7865
Sr 216.596	0.2496	-0.4421u	-0.4561u
Ti 334.941	0.0176	0.0476	0.0269
Tl 190.794	-0.8623u	1.7136	1.7736
V 292.401	-0.2453u	-0.1998u	0.0514
Zn 206.200	0.0310	-0.0752u	1.4973

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2215	ppb	0.2065	93.2	-29.1460
Al 308.215	4.0864	ppb	1.4655	35.9	215.146
As 188.980	3.1032	ppb	1.2052	38.8	-5.3302
B 249.678	-5.9350	ppb	0.2665	4.5	236.227
Ba 389.178	0.1474	ppb	0.0983	66.7	1.2525
Be 313.042	0.0001	ppb	0.0010	1425.3	-224.119
Ca 370.602	-1.814	ppb	2.471	136.2	9.999
Cd 226.502	0.1124	ppb	0.0527	46.9	25.4805
Co 228.615	-0.1032	ppb	0.3778	366.2	7.5045
Cr 267.716	0.0970	ppb	0.0612	63.1	10.1393
Cu 324.754	0.3869	ppb	0.4472	115.6	159.043
Fe 271.441	0.6349	ppb	3.3900	534.0	22.6644
K 766.491	1.5200	ppb	0.4608	30.3	307.517
Mg 279.078	2.0453	ppb	0.8222	40.2	37.6312
Mn 257.610	0.0730	ppb	0.0164	22.5	38.4286
Mo 202.032	-0.4399	ppb	0.2685	61.0	8.2798
Na 330.237	178.895	ppb	39.1585	21.9	55.8636
Ni 231.604	0.0212	ppb	0.5058	2386.8	0.2109
Pb 220.353	0.0763	ppb	0.8440	1105.7	23.5361
Sb 206.834	-0.9976	ppb	3.9750	398.4	5.1827
Se 196.026	0.0429	ppb	1.9270	4489.7	6.0361
Sn 189.925	-0.1779	ppb	1.5888	892.9	-13.1772
Sr 216.596	-0.2162	ppb	0.4034	186.6	15.8671
Ti 334.941	0.0307	ppb	0.0153	49.9	-45.5409
Tl 190.794	0.8750	ppb	1.5048	172.0	-14.2067
V 292.401	-0.1312	ppb	0.1597	121.7	-10.6323
Zn 206.200	0.4844	ppb	0.8788	181.4	6.1329

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

ics 680-277275/2-a (Samp) 5/21/2013, 9:11:04 PM Rack 2, Tube 57
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.7393	49.2042	49.1106
Al 308.215	4970.13	4815.77	4792.45
As 188.980	116.005	109.801	109.623
B 249.678	186.759	181.493	181.160
Ba 389.178	96.8345	94.8936	94.6029
Be 313.042	50.8306	49.4094	49.1886
Ca 370.602	4773	4647	4623
Cd 226.502	50.5448	48.6845	48.8977
Co 228.615	50.6323	48.6785	48.6343
Cr 267.716	99.5728	96.5232	96.2160
Cu 324.754	99.8495	95.9761	96.1927
Fe 271.441	4840.59	4692.84	4676.27
K 766.491	4844.78	4766.48	4730.73
Mg 279.078	4937.76	4785.60	4766.01
Mn 257.610	511.420	495.900	494.059
Mo 202.032	100.158	96.7648	96.8266
Na 330.237	4878.81	4754.05	4705.36
Ni 231.604	98.7717	95.8273	94.1763
Pb 220.353	53.1382	47.6965	46.2828
Sb 206.834	52.5776	48.5346	51.8324
Se 196.026	100.471	95.9971	96.2695
Sn 189.925	196.592	192.466	190.008
Sr 216.596	98.4229	95.2198	94.9619
Ti 334.941	97.9288	94.8531	94.5914
Tl 190.794	42.5227	42.2430	41.6531
V 292.401	99.4418	97.0173	96.5116
Zn 206.200	97.1028	95.5757	94.2884

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.0180	ppb	1.4914	3.0	3791.43
Al 308.215	4859.45	ppb	96.5591	2.0	30909.2
As 188.980	111.810	ppb	3.6342	3.3	60.0500
B 249.678	183.137	ppb	3.1411	1.7	2677.57
Ba 389.178	95.4437	ppb	1.2132	1.3	2034.30
Be 313.042	49.8095	ppb	0.8911	1.8	92965.9
Ca 370.602	4681	ppb	80.78	1.7	10909
Cd 226.502	49.3757	ppb	1.0181	2.1	1864.31
Co 228.615	49.3150	ppb	1.1410	2.3	622.897
Cr 267.716	97.4373	ppb	1.8557	1.9	4756.86
Cu 324.754	97.3394	ppb	2.1764	2.2	5482.01
Fe 271.441	4736.57	ppb	90.4662	1.9	8136.32
K 766.491	4780.66	ppb	58.3362	1.2	167818
Mg 279.078	4829.79	ppb	94.0131	1.9	10205.3
Mn 257.610	500.460	ppb	9.5364	1.9	124757
Mo 202.032	97.9165	ppb	1.9415	2.0	757.852
Na 330.237	4779.41	ppb	89.4641	1.9	274.364
Ni 231.604	96.2584	ppb	2.3278	2.4	272.706
Pb 220.353	49.0391	ppb	3.6195	7.4	110.647
Sb 206.834	50.9815	ppb	2.1516	4.2	61.4576
Se 196.026	97.5791	ppb	2.5079	2.6	54.6189
Sn 189.925	193.022	ppb	3.3272	1.7	158.034
Sr 216.596	96.2015	ppb	1.9281	2.0	1100.83
Ti 334.941	95.7911	ppb	1.8559	1.9	26916.2
Tl 190.794	42.1396	ppb	0.4439	1.1	24.7621
V 292.401	97.6569	ppb	1.5663	1.6	2545.50
Zn 206.200	95.6556	ppb	1.4089	1.5	145.613

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680-90322-a-1-b (Samp) **5/21/2013, 9:16:30 PM** **Rack 2, Tube 58**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0108u	0.4594	-0.1886u
Al 308.215	18.5931	20.7657	21.1913
As 188.980	4.6637	7.1280	3.5274
B 249.678	5.0040	5.2908	4.9412
Ba 389.178	8.4962	9.6741	8.7879
Be 313.042	0.0096	0.0021	0.0149
Ca 370.602	6048	6099	6080
Cd 226.502	0.7287	0.6527	0.5413
Co 228.615	1.6118	1.3321	1.4236
Cr 267.716	0.2192	-0.1080u	0.2562
Cu 324.754	-0.1397u	0.0486	0.2883
Fe 271.441	36.2223	40.7485	37.8224
K 766.491	1276.47	1287.88	1282.57
Mg 279.078	2484.97	2499.97	2484.04
Mn 257.610	147.062	148.306	147.668
Mo 202.032	0.2881	0.8342	0.1276
Na 330.237	18606.5	18846.0	18553.9
Ni 231.604	0.2807	0.5074	0.6053
Pb 220.353	0.9504	2.7043	-0.1849u
Sb 206.834	-1.5514u	-5.3506u	0.6540
Se 196.026	8.8427	-0.8281u	5.2108
Sn 189.925	1.9729	-0.5736u	0.1878
Sr 216.596	38.9337	39.6514	39.1694
Ti 334.941	0.2560	0.2445	0.3186
Tl 190.794	2.9116	0.2401	3.4848
V 292.401	0.0507	0.4005	-0.0910u
Zn 206.200	3.0447	2.2211	1.8214

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0867	ppb	0.3348	386.3	-40.6761
Al 308.215	20.1834	ppb	1.3935	6.9	317.065
As 188.980	5.1064	ppb	1.8407	36.0	-4.1264
B 249.678	5.0787	ppb	0.1864	3.7	378.745
Ba 389.178	8.9861	ppb	0.6134	6.8	194.099
Be 313.042	0.0089	ppb	0.0065	72.9	-207.891
Ca 370.602	6076	ppb	26.04	0.4	14497
Cd 226.502	0.6409	ppb	0.0943	14.7	45.1024
Co 228.615	1.4558	ppb	0.1426	9.8	26.9218
Cr 267.716	0.1225	ppb	0.2004	163.7	12.3531
Cu 324.754	0.0657	ppb	0.2145	326.5	141.458
Fe 271.441	38.2644	ppb	2.2952	6.0	87.3092
K 766.491	1282.31	ppb	5.7070	0.4	45199.6
Mg 279.078	2489.66	ppb	8.9415	0.4	5278.82
Mn 257.610	147.679	ppb	0.6221	0.4	36833.5
Mo 202.032	0.4167	ppb	0.3704	88.9	14.8091
Na 330.237	18668.8	ppb	155.678	0.8	944.797
Ni 231.604	0.4645	ppb	0.1665	35.8	1.4665
Pb 220.353	1.1566	ppb	1.4556	125.8	25.4908
Sb 206.834	-2.0827	ppb	3.0373	145.8	4.0002
Se 196.026	4.4085	ppb	4.8850	110.8	8.2407
Sn 189.925	0.5290	ppb	1.3071	247.1	-12.5413
Sr 216.596	39.2515	ppb	0.3658	0.9	461.833
Ti 334.941	0.2730	ppb	0.0399	14.6	32.5133
Tl 190.794	2.2122	ppb	1.7318	78.3	-13.1254
V 292.401	0.1200	ppb	0.2530	210.8	-4.2706
Zn 206.200	2.3624	ppb	0.6238	26.4	8.8852

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680-90322-a-2-b (Samp) 5/21/2013, 9:21:56 PM Rack 2, Tube 59
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3907	-0.0736u	0.0617
Al 308.215	44.0565	42.4008	43.9792
As 188.980	2.0910	0.1682	3.9279
B 249.678	19.6851	19.3535	19.1044
Ba 389.178	21.1931	21.6437	20.9286
Be 313.042	0.0044	0.0098	0.0110
Ca 370.602	18376	18345	18310
Cd 226.502	0.1396	0.0417	0.1577
Co 228.615	0.6780	0.4778	-0.3193u
Cr 267.716	0.3844	0.5578	0.2847
Cu 324.754	0.2136	0.3035	0.5254
Fe 271.441	1553.40	1552.16	1545.73
K 766.491	1919.66	1918.64	1923.47
Mg 279.078	10351.8	10340.3	10312.8
Mn 257.610	349.121	348.456	347.931
Mo 202.032	0.5593	0.6883	0.7141
Na 330.237	38179.2	38156.1	38366.6
Ni 231.604	0.8609	0.7993	0.6074
Pb 220.353	-0.4463u	-1.4316u	-2.2458u
Sb 206.834	-1.5416u	-2.4098u	-3.0919u
Se 196.026	3.8792	0.6498	4.1919
Sn 189.925	-1.4151u	-0.7202u	1.2248
Sr 216.596	130.001	130.752	129.773
Ti 334.941	0.5950	0.6524	0.6355
Tl 190.794	1.0633	1.0562	-1.2878u
V 292.401	-0.1399u	-0.0984u	0.0001u
Zn 206.200	3.7665	1.4523	3.5894

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1263	ppb	0.2388	189.1	-41.0082
Al 308.215	43.4788	ppb	0.9344	2.1	464.370
As 188.980	2.0624	ppb	1.8800	91.2	-5.9132
B 249.678	19.3810	ppb	0.2913	1.5	561.934
Ba 389.178	21.2552	ppb	0.3616	1.7	474.136
Be 313.042	0.0084	ppb	0.0035	41.6	-207.036
Ca 370.602	18344	ppb	32.66	0.2	43652
Cd 226.502	0.1130	ppb	0.0624	55.2	30.2956
Co 228.615	0.2788	ppb	0.5276	189.2	12.1956
Cr 267.716	0.4090	ppb	0.1382	33.8	27.9088
Cu 324.754	0.3475	ppb	0.1605	46.2	157.420
Fe 271.441	1550.43	ppb	4.1162	0.3	2675.02
K 766.491	1920.59	ppb	2.5433	0.1	67571.7
Mg 279.078	10335.0	ppb	20.0449	0.2	21812.7
Mn 257.610	348.503	ppb	0.5966	0.2	86938.4
Mo 202.032	0.6539	ppb	0.0829	12.7	16.5391
Na 330.237	38234.0	ppb	115.436	0.3	1885.02
Ni 231.604	0.7559	ppb	0.1322	17.5	2.3249
Pb 220.353	-1.3746	ppb	0.9011	65.6	21.0341
Sb 206.834	-2.3478	ppb	0.7770	33.1	3.7509
Se 196.026	2.9070	ppb	1.9610	67.5	7.5541
Sn 189.925	-0.3035	ppb	1.3684	450.8	-13.2664
Sr 216.596	130.175	ppb	0.5122	0.4	1489.68
Ti 334.941	0.6276	ppb	0.0295	4.7	166.496
Tl 190.794	0.2772	ppb	1.3554	488.9	-15.3569
V 292.401	-0.0794	ppb	0.0719	90.6	-9.6358
Zn 206.200	2.9361	ppb	1.2880	43.8	0.8765

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90322-a-3-b (Samp) 5/21/2013, 9:27:23 PM Rack 2, Tube 60
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0261u	0.0428u	-0.0066u
Al 308.215	69.9936	68.5519	68.4436
As 188.980	-1.7942u	3.4783	1.1379
B 249.678	8.1644	7.3453	7.7361
Ba 389.178	18.7769	18.0501	18.4134
Be 313.042	0.0105	0.0206	0.0148
Ca 370.602	10977	10914	10973
Cd 226.502	0.2826	0.2949	0.1398
Co 228.615	-0.1572u	0.5373	0.1398
Cr 267.716	0.6612	0.4781	0.4427
Cu 324.754	0.1384	0.4598	0.0412
Fe 271.441	60.4699	66.1114	68.2231
K 766.491	2593.45	2565.65	2577.68
Mg 279.078	6346.09	6327.24	6338.84
Mn 257.610	28.0054	27.8623	28.0650
Mo 202.032	-0.1921u	-0.1302u	0.1256
Na 330.237	15929.4	15973.7	15923.9
Ni 231.604	-0.9426u	-0.5667u	-1.0656u
Pb 220.353	-1.4298u	0.7951	1.4846
Sb 206.834	-6.2906u	-1.6617u	-0.8058u
Se 196.026	-1.7591u	3.0325	-4.7492u
Sn 189.925	2.8656	1.6404	-0.6951u
Sr 216.596	105.565	104.776	103.787
Ti 334.941	1.1875	1.0785	1.1938
Tl 190.794	4.1302	1.4025	0.0693
V 292.401	0.2546	0.3646	0.3630
Zn 206.200	3.2319	1.8524	2.9323

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0033	ppb	0.0355	1060.5	-50.7183
Al 308.215	68.9963	ppb	0.8653	1.3	625.605
As 188.980	0.9407	ppb	2.6417	280.8	-6.6271
B 249.678	7.7486	ppb	0.4097	5.3	413.279
Ba 389.178	18.4135	ppb	0.3634	2.0	402.607
Be 313.042	0.0153	ppb	0.0051	33.2	-193.950
Ca 370.602	10955	ppb	35.54	0.3	26124
Cd 226.502	0.2391	ppb	0.0862	36.1	30.3611
Co 228.615	0.1733	ppb	0.3484	201.0	10.9733
Cr 267.716	0.5273	ppb	0.1172	22.2	31.5242
Cu 324.754	0.2132	ppb	0.2191	102.8	149.538
Fe 271.441	64.9348	ppb	4.0083	6.2	132.755
K 766.491	2578.93	ppb	13.9431	0.5	90646.6
Mg 279.078	6337.39	ppb	9.5050	0.1	13391.2
Mn 257.610	27.9776	ppb	0.1042	0.4	7046.13
Mo 202.032	-0.0656	ppb	0.1684	256.9	11.1302
Na 330.237	15942.3	ppb	27.3003	0.2	813.697
Ni 231.604	-0.8583	ppb	0.2599	30.3	-2.2770
Pb 220.353	0.2833	ppb	1.5231	537.6	23.9108
Sb 206.834	-2.9193	ppb	2.9508	101.1	3.1093
Se 196.026	-1.1586	ppb	3.9255	338.8	5.4469
Sn 189.925	1.2703	ppb	1.8089	142.4	-11.8831
Sr 216.596	104.709	ppb	0.8910	0.9	1200.96
Ti 334.941	1.1533	ppb	0.0648	5.6	297.759
Tl 190.794	1.8673	ppb	2.0700	110.9	-13.2904
V 292.401	0.3274	ppb	0.0631	19.3	1.3441
Zn 206.200	2.6722	ppb	0.7256	27.2	9.3397

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90322-a-4-b (Samp) 5/21/2013, 9:43:42 PM Rack 3, Tube 3
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2333	0.1974	0.2875
Al 308.215	5.3183	5.9629	6.8746
As 188.980	1.5253	2.6210	3.8557
B 249.678	5.3059	5.5536	4.9195
Ba 389.178	8.5542	8.8672	8.6446
Be 313.042	0.0097	0.0089	0.0132
Ca 370.602	3963	3956	3993
Cd 226.502	0.2818	0.3616	0.2165
Co 228.615	0.1872	0.3992	0.4000
Cr 267.716	-0.0757u	-0.0479u	0.1206
Cu 324.754	0.0673	0.2898	-0.1020u
Fe 271.441	230.757	236.858	225.429
K 766.491	1284.16	1285.11	1295.88
Mg 279.078	2684.50	2682.48	2700.93
Mn 257.610	63.3874	63.3039	63.8589
Mo 202.032	-0.3648u	-0.3937u	-0.6163u
Na 330.237	19899.1	19681.3	19920.9
Ni 231.604	-0.1616u	0.2481	-0.5237u
Pb 220.353	4.4382	-3.3501u	-0.6690u
Sb 206.834	-7.7151u	0.4396	-3.3198u
Se 196.026	1.6853	1.7200	-2.1251u
Sn 189.925	-0.5612u	-0.6227u	-3.2787u
Sr 216.596	40.9169	41.1117	41.1648
Ti 334.941	-0.0024	0.0362	-0.0102
Tl 190.794	1.8603	-0.9551u	0.2302
V 292.401	-0.1484u	-0.0631u	0.1967
Zn 206.200	4.8019	4.6033	6.2158

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2394	ppb	0.0453	18.9	-29.4272
Al 308.215	6.0519	ppb	0.7820	12.9	227.567
As 188.980	2.6673	ppb	1.1659	43.7	-5.5855
B 249.678	5.2597	ppb	0.3196	6.1	380.837
Ba 389.178	8.6887	ppb	0.1611	1.9	188.537
Be 313.042	0.0106	ppb	0.0023	21.8	-205.419
Ca 370.602	3970	ppb	19.42	0.5	9466
Cd 226.502	0.2866	ppb	0.0727	25.4	32.5930
Co 228.615	0.3288	ppb	0.1227	37.3	12.8856
Cr 267.716	-0.0010	ppb	0.1062	10958.5	6.0388
Cu 324.754	0.0851	ppb	0.1965	231.0	142.557
Fe 271.441	231.015	ppb	5.7191	2.5	417.003
K 766.491	1288.38	ppb	6.5116	0.5	45412.5
Mg 279.078	2689.30	ppb	10.1188	0.4	5701.03
Mn 257.610	63.5168	ppb	0.2993	0.5	15868.5
Mo 202.032	-0.4583	ppb	0.1376	30.0	8.1271
Na 330.237	19833.7	ppb	132.515	0.7	1000.73
Ni 231.604	-0.1458	ppb	0.3861	264.9	-0.2564
Pb 220.353	0.1397	ppb	3.9566	2832.5	23.6635
Sb 206.834	-3.5317	ppb	4.0815	115.6	2.4519
Se 196.026	0.4268	ppb	2.2100	517.9	6.2439
Sn 189.925	-1.4875	ppb	1.5515	104.3	-14.3288
Sr 216.596	41.0644	ppb	0.1305	0.3	482.180
Ti 334.941	0.0078	ppb	0.0248	316.8	-41.2596
Tl 190.794	0.3785	ppb	1.4135	373.5	-14.7881
V 292.401	-0.0049	ppb	0.1798	3631.8	-7.4050
Zn 206.200	5.2070	ppb	0.8793	575.8	13.0682

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90332-c-5-d (Samp) 5/21/2013, 9:49:08 PM Rack 3, Tube 4
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1964	0.0703u	0.0574u
Al 308.215	4.7657	5.7890	4.5388
As 188.980	-1.8274u	-2.3447u	1.9269
B 249.678	19.8791	19.0794	19.6402
Ba 389.178	46.5829	46.0839	46.5690
Be 313.042	-0.0042	-0.0254u	-0.0188u
Ca 370.602	87651	87766	87618
Cd 226.502	0.0373	0.1771	-0.0128u
Co 228.615	0.5714	-0.1771u	0.3679
Cr 267.716	2.9331	2.6521	2.7312
Cu 324.754	-0.1816u	-0.5854u	-0.0767u
Fe 271.441	4.2142	6.7653	4.4238
K 766.491	682.881	685.661	685.018
Mg 279.078	26014.3	26026.6	25989.3
Mn 257.610	6.6984	6.7046	6.7097
Mo 202.032	-0.0592u	0.5443	0.3217
Na 330.237	6739.26	6771.73	6718.58
Ni 231.604	0.9458	0.6222	0.2013
Pb 220.353	-1.5060u	1.1166	0.6150
Sb 206.834	0.2978	-1.9823u	-3.7361u
Se 196.026	3.2498	3.7930	4.5640
Sn 189.925	0.3577	-2.7958u	-1.1854u
Sr 216.596	106.914	105.393	107.077
Ti 334.941	-0.2812	-0.1938	-0.2169
Tl 190.794	-0.2463u	-0.2005u	3.3838
V 292.401	0.7724	0.2445	0.1083
Zn 206.200	0.8575	1.0671	3.0539

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1080	ppb	0.0768	71.1	-43.3464
Al 308.215	5.0312	ppb	0.6660	13.2	221.259
As 188.980	-0.7484	ppb	2.3312	311.5	-7.6430
B 249.678	19.5329	ppb	0.4105	2.1	565.891
Ba 389.178	46.4119	ppb	0.2842	0.6	1041.32
Be 313.042	-0.0161	ppb	0.0109	67.4	-225.313
Ca 370.602	87679	ppb	77.58	0.1	209007
Cd 226.502	0.0672	ppb	0.0984	146.5	24.1083
Co 228.615	0.2540	ppb	0.3870	152.4	11.9487
Cr 267.716	2.7721	ppb	0.1449	5.2	140.675
Cu 324.754	-0.2812	ppb	0.2686	95.5	122.404
Fe 271.441	5.1344	ppb	1.4162	27.6	30.4294
K 766.491	684.520	ppb	1.4553	0.2	24246.9
Mg 279.078	26010.1	ppb	18.9955	0.1	54858.9
Mn 257.610	6.7042	ppb	0.0057	0.1	1919.74
Mo 202.032	0.2689	ppb	0.3052	113.5	13.6838
Na 330.237	6743.19	ppb	26.7875	0.4	371.452
Ni 231.604	0.5898	ppb	0.3733	63.3	1.8203
Pb 220.353	0.0752	ppb	1.3921	1851.0	23.5347
Sb 206.834	-1.8068	ppb	2.0227	111.9	4.3266
Se 196.026	3.8690	ppb	0.6604	17.1	7.9378
Sn 189.925	-1.2078	ppb	1.5769	130.6	-14.0472
Sr 216.596	106.461	ppb	0.9291	0.9	1229.09
Ti 334.941	-0.2307	ppb	0.0453	19.6	-1.8613
Tl 190.794	0.9790	ppb	2.0828	212.7	-14.1169
V 292.401	0.3751	ppb	0.3507	93.5	2.6848
Zn 206.200	1.6595	ppb	1.2121	73.0	7.8454

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90322-a-6-b (Samp) 5/21/2013, 9:54:34 PM Rack 3, Tube 5
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0040u	0.4917	0.4257
Al 308.215	8.8271	8.7163	9.3754
As 188.980	-0.1092u	4.3639	-0.9537u
B 249.678	3.0089	2.9814	2.5896
Ba 389.178	7.5331	7.8050	6.6963
Be 313.042	-0.0032u	0.0048	-0.0022u
Ca 370.602	6313	6325	6289
Cd 226.502	-0.1369u	0.2612	0.3039
Co 228.615	0.4877	1.0303	1.3430
Cr 267.716	0.1160	0.0820	0.1024
Cu 324.754	0.2062	0.5311	0.7011
Fe 271.441	178.324	181.550	178.142
K 766.491	987.208	986.284	985.719
Mg 279.078	1482.54	1489.32	1479.97
Mn 257.610	29.6706	29.7451	29.5677
Mo 202.032	-1.0243u	-0.2209u	-0.3545u
Na 330.237	13741.1	13733.7	13851.2
Ni 231.604	0.7426	0.4875	1.0494
Pb 220.353	-1.8534u	1.3626	0.5971
Sb 206.834	-0.8699u	-1.7050u	-5.6180u
Se 196.026	9.2785	4.8251	11.5415
Sn 189.925	1.1068	-0.1217u	-0.3123u
Sr 216.596	34.5724	34.7560	34.7063
Ti 334.941	0.1505	0.1630	0.1723
Tl 190.794	-0.4164u	0.0262u	1.7678
V 292.401	0.0223	-0.0395u	0.2260
Zn 206.200	0.9382	1.8029	2.0200

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3045	ppb	0.2691	88.4	-24.2930
Al 308.215	8.9729	ppb	0.3529	3.9	246.004
As 188.980	1.1003	ppb	2.8577	259.7	-6.5280
B 249.678	2.8600	ppb	0.2345	8.2	349.845
Ba 389.178	7.3448	ppb	0.5779	7.9	157.181
Be 313.042	-0.0002	ppb	0.0044	2295.6	-223.978
Ca 370.602	6309	ppb	18.65	0.3	15042
Cd 226.502	0.1428	ppb	0.2431	170.3	27.1090
Co 228.615	0.9537	ppb	0.4328	45.4	20.6857
Cr 267.716	0.1001	ppb	0.0171	17.1	10.7003
Cu 324.754	0.4795	ppb	0.2514	52.4	164.177
Fe 271.441	179.339	ppb	1.9173	1.1	328.661
K 766.491	986.404	ppb	0.7517	0.1	34828.0
Mg 279.078	1483.94	ppb	4.8298	0.3	3160.82
Mn 257.610	29.6611	ppb	0.0890	0.3	7423.29
Mo 202.032	-0.5333	ppb	0.4305	80.7	7.5581
Na 330.237	13775.3	ppb	65.7728	0.5	709.495
Ni 231.604	0.7598	ppb	0.2813	37.0	2.3054
Pb 220.353	0.0354	ppb	1.6800	4746.4	23.4699
Sb 206.834	-2.7310	ppb	2.5349	92.8	3.3175
Se 196.026	8.5484	ppb	3.4172	40.0	10.2678
Sn 189.925	0.2243	ppb	0.7702	343.4	-12.8130
Sr 216.596	34.6783	ppb	0.0950	0.3	410.349
Ti 334.941	0.1619	ppb	0.0109	6.8	-2.9156
Tl 190.794	0.4592	ppb	1.1546	251.4	-14.6588
V 292.401	0.0696	ppb	0.1389	199.6	-5.3977
Zn 206.200	1.5870	ppb	0.5723	36.1	747646

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90322-a-7-d (Samp) **5/21/2013, 10:00:01 PM** **Rack 3, Tube 6**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2857	0.2685	-0.2259u
Al 308.215	20.3757	22.8677	21.9292
As 188.980	3.2444	2.9066	7.3704
B 249.678	6.8672	7.3957	6.7382
Ba 389.178	39.9078	39.7300	38.9806
Be 313.042	0.0228	0.0163	0.0205
Ca 370.602	11952	12049	12078
Cd 226.502	0.1794	0.3050	0.3119
Co 228.615	-0.2663u	0.5152	0.3902
Cr 267.716	0.6018	0.6225	0.7834
Cu 324.754	0.1347	0.2456	-0.3508u
Fe 271.441	26.0785	25.8628	19.0331
K 766.491	2161.51	2165.58	2171.88
Mg 279.078	8025.80	8040.58	8049.79
Mn 257.610	65.2414	65.5544	65.6018
Mo 202.032	0.0238	0.0579	-0.3609u
Na 330.237	41094.5	41003.7	40756.8
Ni 231.604	0.8324	1.5371	0.4559
Pb 220.353	1.3671	-2.5556u	-1.9059u
Sb 206.834	-0.6225u	-5.8614u	-4.2691u
Se 196.026	9.1678	-3.9420u	11.1817
Sn 189.925	-2.7534u	-0.1128u	-3.3541u
Sr 216.596	167.372	167.925	168.958
Ti 334.941	0.2210	0.2892	0.2802
Tl 190.794	1.8237	1.2310	2.7722
V 292.401	0.0529	-0.0582u	-0.1681u
Zn 206.200	3.9681	4.4743	4.8684

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1094	ppb	0.2906	265.5	-45.3891
Al 308.215	21.7242	ppb	1.2586	5.8	326.750
As 188.980	4.5071	ppb	2.4854	55.1	-4.4866
B 249.678	7.0004	ppb	0.3484	5.0	403.646
Ba 389.178	39.5395	ppb	0.4921	1.2	853.239
Be 313.042	0.0199	ppb	0.0033	16.7	-187.740
Ca 370.602	12026	ppb	65.92	0.5	28681
Cd 226.502	0.2654	ppb	0.0746	28.1	31.0935
Co 228.615	0.2130	ppb	0.4198	197.0	11.4498
Cr 267.716	0.6693	ppb	0.0994	14.9	39.0290
Cu 324.754	0.0098	ppb	0.3172	3227.4	138.372
Fe 271.441	23.6582	ppb	4.0069	16.9	62.1185
K 766.491	2166.32	ppb	5.2239	0.2	76184.6
Mg 279.078	8038.72	ppb	12.1052	0.2	16976.8
Mn 257.610	65.4659	ppb	0.1959	0.3	16400.3
Mo 202.032	-0.0931	ppb	0.2326	249.8	10.9232
Na 330.237	40951.7	ppb	174.749	0.4	2016.11
Ni 231.604	0.9418	ppb	0.5488	58.3	2.8171
Pb 220.353	-1.0315	ppb	2.1025	203.8	21.5798
Sb 206.834	-3.5843	ppb	2.6857	74.9	2.3917
Se 196.026	5.4692	ppb	8.2123	150.2	8.7469
Sn 189.925	-2.0734	ppb	1.7243	83.2	-14.8367
Sr 216.596	168.085	ppb	0.8051	0.5	1916.10
Ti 334.941	0.2635	ppb	0.0371	14.1	53.2474
Tl 190.794	1.9423	ppb	0.7774	40.0	-13.2693
V 292.401	-0.0578	ppb	0.1105	191.3	-8.9924
Zn 206.200	4.4369	ppb	0.4513	10.2	794.9178

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90322-a-7-dSD^5 (Samp) 5/21/2013, 10:05:27 PM Rack 3, Tube 7**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0379u	-0.0342u	0.0329
Al 308.215	5.1956	6.2333	5.8481
As 188.980	-0.4467u	1.8893	0.6615
B 249.678	-6.2368u	-6.7374u	-5.9829u
Ba 389.178	8.6287	9.0128	8.3053
Be 313.042	0.0091	0.0035	0.0030
Ca 370.602	2480	2480	2474
Cd 226.502	0.0060	0.0684	0.0683
Co 228.615	0.4519	0.5705	0.2620
Cr 267.716	-0.0159u	0.1345	0.1614
Cu 324.754	-0.0686u	0.8263	-0.0521u
Fe 271.441	4.6228	3.3251	3.6295
K 766.491	442.816	440.784	439.380
Mg 279.078	1671.36	1671.00	1668.31
Mn 257.610	13.7023	13.6285	13.6131
Mo 202.032	-0.3889u	-0.0524u	-0.0193u
Na 330.237	8146.93	8280.77	8173.10
Ni 231.604	-0.8558u	1.0010	-0.0547u
Pb 220.353	-0.9405u	0.9469	-0.2354u
Sb 206.834	-5.9593u	-4.9025u	-1.3111u
Se 196.026	1.9932	0.3063	4.3140
Sn 189.925	4.3207	-0.9635u	1.6585
Sr 216.596	34.5198	34.9844	34.4452
Ti 334.941	0.1005	0.0743	0.0807
Tl 190.794	-2.1165u	1.7275	2.5592
V 292.401	-0.0730u	0.1838	-0.1010u
Zn 206.200	0.9655	1.2410	1.5714

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0131	ppb	0.0398	304.8	-48.7281
Al 308.215	5.7590	ppb	0.5245	9.1	225.824
As 188.980	0.7014	ppb	1.1685	166.6	-6.7724
B 249.678	-6.3190	ppb	0.3839	6.1	231.253
Ba 389.178	8.6490	ppb	0.3542	4.1	184.971
Be 313.042	0.0052	ppb	0.0034	65.2	-214.674
Ca 370.602	2478	ppb	3.518	0.1	5921
Cd 226.502	0.0476	ppb	0.0360	75.6	23.0650
Co 228.615	0.4281	ppb	0.1556	36.4	14.1203
Cr 267.716	0.0933	ppb	0.0955	102.3	10.1606
Cu 324.754	0.2352	ppb	0.5120	217.7	150.730
Fe 271.441	3.8591	ppb	0.6786	17.6	28.2659
K 766.491	440.993	ppb	1.7273	0.4	15711.2
Mg 279.078	1670.22	ppb	1.6671	0.1	3553.71
Mn 257.610	13.6480	ppb	0.0477	0.3	3435.00
Mo 202.032	-0.1535	ppb	0.2045	133.2	10.4630
Na 330.237	8200.27	ppb	70.9350	0.9	441.510
Ni 231.604	0.0302	ppb	0.9313	3085.3	0.2364
Pb 220.353	-0.0763	ppb	0.9537	1249.9	23.2671
Sb 206.834	-4.0576	ppb	2.4366	60.0	1.8760
Se 196.026	2.2045	ppb	2.0122	91.3	7.1128
Sn 189.925	1.6719	ppb	2.6421	158.0	-11.5339
Sr 216.596	34.6498	ppb	0.2921	0.8	409.526
Ti 334.941	0.0851	ppb	0.0137	16.1	-23.2809
Tl 190.794	0.7234	ppb	2.4943	344.8	-14.3725
V 292.401	0.0033	ppb	0.1570	4801.0	-7.1768
Zn 206.200	1.2593	ppb	0.3033	24.1	74.2673

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680-90322-a-7-dPDS (Samp) 5/21/2013, 10:10:53 PM Rack 3, Tube 8
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	48.6512	49.5582	48.9637
Al 308.215	1939.59	1985.20	1950.05
As 188.980	2204.40	2251.16	2244.88
B 249.678	985.473	1012.35	1003.14
Ba 389.178	1976.16	2024.94	1992.62
Be 313.042	49.6078	50.9172	50.1073
Ca 370.602	16617	17067	16733
Cd 226.502	49.6126	50.6393	49.9023
Co 228.615	492.381	513.120	500.063
Cr 267.716	195.526	200.469	197.813
Cu 324.754	245.615	252.620	248.332
Fe 271.441	978.885	997.819	991.030
K 766.491	7548.03	7684.76	7589.87
Mg 279.078	12847.5	13153.1	12978.7
Mn 257.610	564.465	579.386	570.896
Mo 202.032	514.503	528.127	521.924
Na 330.237	44964.7	45754.8	45266.6
Ni 231.604	486.712	497.031	492.891
Pb 220.353	496.845	508.783	498.298
Sb 206.834	501.216	521.377	510.208
Se 196.026	2011.87	2085.10	2042.61
Sn 189.925	1016.27	1036.52	1023.11
Sr 216.596	662.753	673.913	661.249
Ti 334.941	975.860	1001.35	985.139
Tl 190.794	2047.44	2109.83	2078.34
V 292.401	487.148	500.047	492.794
Zn 206.200	485.552	497.033	493.228

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.0577	ppb	0.4608	0.9	3694.05
Al 308.215	1958.28	ppb	23.8912	1.2	12623.2
As 188.980	2233.48	ppb	25.3796	1.1	1333.87
B 249.678	1000.32	ppb	13.6593	1.4	13260.4
Ba 389.178	1997.91	ppb	24.8137	1.2	42274.1
Be 313.042	50.2108	ppb	0.6608	1.3	93634.8
Ca 370.602	16806	ppb	233.6	1.4	40162
Cd 226.502	50.0514	ppb	0.5293	1.1	1877.60
Co 228.615	501.855	ppb	10.4852	2.1	6275.58
Cr 267.716	197.936	ppb	2.4738	1.2	9653.27
Cu 324.754	248.856	ppb	3.5318	1.4	13802.6
Fe 271.441	989.245	ppb	9.5923	1.0	1796.72
K 766.491	7607.55	ppb	70.0579	0.9	266902
Mg 279.078	12993.1	ppb	153.296	1.2	27411.4
Mn 257.610	571.582	ppb	7.4842	1.3	142536
Mo 202.032	521.518	ppb	6.8210	1.3	3987.43
Na 330.237	45328.7	ppb	398.717	0.9	2215.72
Ni 231.604	492.211	ppb	5.1928	1.1	1393.31
Pb 220.353	501.309	ppb	6.5138	1.3	914.023
Sb 206.834	510.934	ppb	10.0997	2.0	552.905
Se 196.026	2046.53	ppb	36.7720	1.8	1022.34
Sn 189.925	1025.30	ppb	10.3023	1.0	895.597
Sr 216.596	665.972	ppb	6.9184	1.0	7506.13
Ti 334.941	987.450	ppb	12.9014	1.3	277792
Tl 190.794	2078.53	ppb	31.1954	1.5	1993.35
V 292.401	493.330	ppb	6.4660	1.3	12908.1
Zn 206.200	491.938	ppb	5.8483	1.2	724.896

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90322-a-7-e ms (Samp) 5/21/2013, 10:16:20 PM Rack 3, Tube 9
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.4060	51.0143	50.9524
Al 308.215	5148.14	5118.38	5117.61
As 188.980	112.370	120.185	115.186
B 249.678	219.548	217.534	217.430
Ba 389.178	138.045	138.090	137.234
Be 313.042	52.1937	51.9179	51.9281
Ca 370.602	17351	17240	17166
Cd 226.502	51.2298	50.7557	51.1422
Co 228.615	51.3456	50.8685	50.7492
Cr 267.716	101.951	101.851	101.494
Cu 324.754	102.310	101.282	101.801
Fe 271.441	4949.56	4906.16	4919.82
K 766.491	7597.79	7568.04	7555.68
Mg 279.078	12860.8	12794.9	12772.8
Mn 257.610	581.066	577.950	576.942
Mo 202.032	102.416	101.620	102.151
Na 330.237	45779.1	45620.9	45502.8
Ni 231.604	101.674	99.8781	99.9052
Pb 220.353	49.2615	51.4631	50.5543
Sb 206.834	42.9291	48.9546	50.0062
Se 196.026	106.939	110.823	103.911
Sn 189.925	203.046	198.349	197.679
Sr 216.596	271.857	269.856	268.803
Ti 334.941	99.5971	99.3899	98.6651
Tl 190.794	42.7255	41.7259	45.7647
V 292.401	101.950	101.484	101.756
Zn 206.200	105.124	102.063	103.075

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.1242	ppb	0.2460	0.5	3868.58
Al 308.215	5128.04	ppb	17.4078	0.3	32607.4
As 188.980	115.914	ppb	3.9579	3.4	62.5185
B 249.678	218.170	ppb	1.1940	0.5	3130.81
Ba 389.178	137.790	ppb	0.4814	0.3	2948.87
Be 313.042	52.0132	ppb	0.1564	0.3	97088.3
Ca 370.602	17253	ppb	92.99	0.5	40865
Cd 226.502	51.0426	ppb	0.2523	0.5	1926.51
Co 228.615	50.9878	ppb	0.3156	0.6	643.710
Cr 267.716	101.765	ppb	0.2404	0.2	4968.86
Cu 324.754	101.798	ppb	0.5142	0.5	5726.76
Fe 271.441	4925.18	ppb	22.1933	0.5	8459.41
K 766.491	7573.84	ppb	21.6450	0.3	265720
Mg 279.078	12809.5	ppb	45.8204	0.4	27024.1
Mn 257.610	578.652	ppb	2.1499	0.4	144308
Mo 202.032	102.062	ppb	0.4051	0.4	789.449
Na 330.237	45634.3	ppb	138.672	0.3	2238.46
Ni 231.604	100.486	ppb	1.0292	1.0	284.675
Pb 220.353	50.4263	ppb	1.1064	2.2	113.129
Sb 206.834	47.2966	ppb	3.8188	8.1	57.4895
Se 196.026	107.224	ppb	3.4644	3.2	59.4287
Sn 189.925	199.692	ppb	2.9245	1.5	163.965
Sr 216.596	270.172	ppb	1.5511	0.6	3064.97
Ti 334.941	99.2174	ppb	0.4894	0.5	27913.2
Tl 190.794	43.4054	ppb	2.1034	4.8	25.8657
V 292.401	101.730	ppb	0.2343	0.2	2651.72
Zn 206.200	103.421	ppb	1.5598	1.5	156.984

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90322-a-7-f msd (Samp) 5/21/2013, 10:21:46 PM Rack 3, Tube 10**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.6550	50.5455	50.6478
Al 308.215	5063.62	5057.44	5061.59
As 188.980	110.678	122.329	114.377
B 249.678	210.316	209.459	211.371
Ba 389.178	136.473	136.070	137.338
Be 313.042	51.2874	51.2942	51.4265
Ca 370.602	16989	16984	16981
Cd 226.502	50.5232	50.5081	50.7089
Co 228.615	50.2207	49.7864	49.6809
Cr 267.716	100.347	100.219	100.438
Cu 324.754	101.208	99.8714	100.352
Fe 271.441	4876.06	4853.71	4871.78
K 766.491	7484.63	7480.58	7470.57
Mg 279.078	12718.6	12687.5	12721.3
Mn 257.610	575.717	575.456	576.649
Mo 202.032	99.8539	100.494	100.534
Na 330.237	45492.4	45170.7	45163.8
Ni 231.604	99.0993	99.3514	100.140
Pb 220.353	50.8447	48.6099	50.5333
Sb 206.834	55.3452	50.5807	47.9054
Se 196.026	103.902	100.470	111.199
Sn 189.925	198.141	198.716	195.237
Sr 216.596	267.170	265.033	266.980
Ti 334.941	98.0603	97.8912	98.0124
Tl 190.794	43.9808	38.4487	41.6725
V 292.401	99.8398	100.088	99.7350
Zn 206.200	103.669	103.666	99.7797

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.6161	ppb	0.0612	0.1	3829.72
Al 308.215	5060.88	ppb	3.1516	0.1	32182.7
As 188.980	115.795	ppb	5.9534	5.1	62.4459
B 249.678	210.382	ppb	0.9575	0.5	3030.07
Ba 389.178	136.627	ppb	0.6478	0.5	2923.96
Be 313.042	51.3360	ppb	0.0784	0.2	95821.4
Ca 370.602	16985	ppb	4.239	0.0	40230
Cd 226.502	50.5801	ppb	0.1119	0.2	1909.20
Co 228.615	49.8960	ppb	0.2861	0.6	630.124
Cr 267.716	100.335	ppb	0.1096	0.1	4899.11
Cu 324.754	100.477	ppb	0.6770	0.7	5654.25
Fe 271.441	4867.18	ppb	11.8599	0.2	8359.97
K 766.491	7478.59	ppb	7.2342	0.1	262382
Mg 279.078	12709.2	ppb	18.7665	0.1	26812.7
Mn 257.610	575.941	ppb	0.6272	0.1	143631
Mo 202.032	100.294	ppb	0.3815	0.4	775.968
Na 330.237	45275.6	ppb	187.729	0.4	2221.24
Ni 231.604	99.5301	ppb	0.5427	0.5	281.969
Pb 220.353	49.9960	ppb	1.2104	2.4	112.365
Sb 206.834	51.2771	ppb	3.7685	7.3	61.7897
Se 196.026	105.190	ppb	5.4797	5.2	58.4179
Sn 189.925	197.365	ppb	1.8648	0.9	161.903
Sr 216.596	266.394	ppb	1.1829	0.4	3022.36
Ti 334.941	97.9879	ppb	0.0871	0.1	27566.8
Tl 190.794	41.3673	ppb	2.7787	6.7	23.9019
V 292.401	99.8876	ppb	0.1813	0.2	2603.54
Zn 206.200	102.371	ppb	2.2445	2.2	155.446

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680-90322-a-10-b (Samp) 5/21/2013, 10:27:12 PM Rack 3, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0831u	0.1211u	0.0681u
Al 308.215	5.1420	4.3952	3.7324
As 188.980	108.187	112.983	109.233
B 249.678	14.0691	13.2377	12.4527
Ba 389.178	14.4111	13.7051	14.0148
Be 313.042	-0.0050	0.0066	0.0043
Ca 370.602	65745	64607	64746
Cd 226.502	-0.6333	-0.8815	-0.8955
Co 228.615	3.0261	2.5978	3.5511
Cr 267.716	-0.6217	-0.6018	-0.5440
Cu 324.754	-0.0401	-0.3259	-0.1371
Fe 271.441	90644.3	88895.8	89517.3
K 766.491	1898.28	1867.76	1879.40
Mg 279.078	32461.8	31900.6	32088.5
Mn 257.610	1922.51	1885.19	1895.38
Mo 202.032	8.9431	9.2739	9.1334
Na 330.237	67408.7	66161.1	66604.6
Ni 231.604	-1.1521u	-0.8097u	0.1017
Pb 220.353	3.2533	5.3808	6.2323
Sb 206.834	0.0291	-2.8455u	-6.4028u
Se 196.026	-8.8310u	-1.7840	0.0525
Sn 189.925	1.2533	0.0954	-0.5054u
Sr 216.596	562.281	551.122	553.691
Ti 334.941	-0.3367	-0.3601	-0.2648
Tl 190.794	3.4680u	3.9778u	0.4112u
V 292.401	1.0565	0.7186	1.1093
Zn 206.200	-4.9494	-3.6879	-1.8838

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0354	ppb	0.1060	299.7	-60.9513
Al 308.215	4.4232	ppb	0.7052	15.9	218.661
As 188.980	110.134	ppb	2.5219	2.3	61.3813
B 249.678	13.2532	ppb	0.8083	6.1	368.970
Ba 389.178	14.0436	ppb	0.3539	2.5	487.576
Be 313.042	0.0020	ppb	0.0061	307.9	-210.249
Ca 370.602	65033	ppb	620.6	1.0	149609
Cd 226.502	-0.8034	ppb	0.1475	18.4	273.260
Co 228.615	3.0584	ppb	0.4775	15.6	43.3025
Cr 267.716	-0.5892	ppb	0.0403	6.8	7.6669
Cu 324.754	-0.1677	ppb	0.1454	86.7	157.991
Fe 271.441	89685.8	ppb	886.359	1.0	153509
K 766.491	1881.81	ppb	15.4057	0.8	66212.5
Mg 279.078	32150.3	ppb	285.618	0.9	67787.4
Mn 257.610	1901.03	ppb	19.2861	1.0	474173
Mo 202.032	9.1168	ppb	0.1660	1.8	76.4302
Na 330.237	66724.8	ppb	632.413	0.9	3230.15
Ni 231.604	-0.6201	ppb	0.6481	104.5	0.3988
Pb 220.353	4.9554	ppb	1.5344	31.0	32.6446
Sb 206.834	-3.0731	ppb	3.2220	104.8	5.0060
Se 196.026	-3.5208	ppb	4.6895	133.2	5.2672
Sn 189.925	0.2811	ppb	0.8939	318.0	-12.7196
Sr 216.596	555.698	ppb	5.8439	1.1	6333.29
Ti 334.941	-0.3206	ppb	0.0496	15.5	6.4593
Tl 190.794	2.6190	ppb	1.9289	73.7	-19.6714
V 292.401	0.9615	ppb	0.2120	22.0	16.4023
Zn 206.200	-3.5070	ppb	1.5408	43.9	0.3531

680-90332-ag-8-c (Samp) 5/21/2013, 10:32:39 PM Rack 3, Tube 12

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3665	-0.0338u	0.2369
Al 308.215	68.1767	58.6482	67.3863
As 188.980	5.7096	11.2085	-3.9007u
B 249.678	6.7726	4.8889	6.0649
Ba 389.178	111.334	102.717	111.860
Be 313.042	-0.0209	-0.0214	-0.0226
Ca 370.602	163350	152357	166506
Cd 226.502	0.0911	0.0811	-0.1243u
Co 228.615	-0.0233u	0.1406	0.1347
Cr 267.716	0.4685	0.2637	0.2748
Cu 324.754	-0.1685u	-0.0160u	-0.5072u
Fe 271.441	553.333	513.901	567.225
K 766.491	691.840	650.682	695.666
Mg 279.078	71259.9	66353.4	72228.1
Mn 257.610	22.7506	21.0571	23.1967
Mo 202.032	1.4410	0.8158	1.0101
Na 330.237	13050.0	12335.8	13292.7
Ni 231.604	0.6834	1.0005	1.7190
Pb 220.353	1.0327	0.4017	3.0467
Sb 206.834	-2.9578u	-2.9905u	-0.2389u
Se 196.026	8.5484	-3.7504u	6.0789
Sn 189.925	2.1777	-0.5768u	-2.2135u
Sr 216.596	158.867	146.985	158.867
Ti 334.941	0.1657	0.1220	0.1679
Tl 190.794	-2.2434u	-0.5365u	3.1185
V 292.401	0.6195	0.4288	0.3696
Zn 206.200	5.3363	4.0163	5.3472

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1899	ppb	0.2043	107.6	-40.0452
Al 308.215	64.7370	ppb	5.2879	8.2	598.808
As 188.980	4.3391	ppb	7.6473	176.2	-4.5736
B 249.678	5.9088	ppb	0.9515	16.1	388.838
Ba 389.178	108.637	ppb	5.1332	4.7	2462.16
Be 313.042	-0.0216	ppb	0.0009	4.1	-212.214
Ca 370.602	160738	ppb	7427	4.6	383120
Cd 226.502	0.0160	ppb	0.1216	761.6	24.4202
Co 228.615	0.0840	ppb	0.0930	110.7	9.7993
Cr 267.716	0.3357	ppb	0.1151	34.3	22.2309
Cu 324.754	-0.2305	ppb	0.2514	109.1	125.383
Fe 271.441	544.819	ppb	27.6624	5.1	954.011
K 766.491	679.396	ppb	24.9404	3.7	24067.3
Mg 279.078	69947.1	ppb	3149.69	4.5	147472
Mn 257.610	22.3348	ppb	1.1288	5.1	6201.44
Mo 202.032	1.0890	ppb	0.3200	29.4	19.9082
Na 330.237	12892.8	ppb	497.407	3.9	666.933
Ni 231.604	1.1343	ppb	0.5306	46.8	3.3736
Pb 220.353	1.4937	ppb	1.3814	92.5	26.0619
Sb 206.834	-2.0624	ppb	1.5793	76.6	4.0265
Se 196.026	3.6257	ppb	6.5061	179.4	7.8244
Sn 189.925	-0.2042	ppb	2.2192	1086.8	-13.1221
Sr 216.596	154.907	ppb	6.8600	4.4	1783.88
Ti 334.941	0.1519	ppb	0.0259	17.0	304.100
Tl 190.794	0.1128	ppb	2.7393	2427.7	-15.0057
V 292.401	0.4726	ppb	0.1306	27.6	5.7266
Zn 206.200	4.8999	ppb	0.7653	15.6	12.6492

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2402u	0.0109u	0.1035u
Al 308.215	52.0036	48.8553	48.6714
As 188.980	-2.2958u	2.0924	5.0694
B 249.678	8.9341	8.9637	7.8775
Ba 389.178	149.492	148.165	149.814
Be 313.042	-0.0225	-0.0240	-0.0229
Ca 370.602	142748	142486	142191
Cd 226.502	-0.0460u	0.0755	-0.2365u
Co 228.615	-0.5812u	0.1140	0.1301
Cr 267.716	0.3696	0.4265	0.2987
Cu 324.754	0.0207	0.0214	-0.0056u
Fe 271.441	151.620	145.761	143.717
K 766.491	1144.08	1145.51	1143.86
Mg 279.078	71736.9	71577.5	71746.7
Mn 257.610	5.1254	5.0651	5.0613
Mo 202.032	0.5948	1.0657	0.5095
Na 330.237	11669.8	11964.0	11509.5
Ni 231.604	1.5941	1.0886	1.9265
Pb 220.353	1.5632	-0.1180u	2.1240
Sb 206.834	-0.4970u	-4.1081u	-3.9752u
Se 196.026	-2.1742u	4.8709	1.7519
Sn 189.925	-0.0889u	0.6163	-0.4654u
Sr 216.596	411.039	411.497	412.530
Ti 334.941	0.1377	0.0613	0.0778
Tl 190.794	-0.1061u	-2.3424u	1.5945
V 292.401	0.1829	0.1600	-0.0837u
Zn 206.200	4.2385	4.9084	1.9609

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1182	ppb	0.1153	97.6	-57.4692
Al 308.215	49.8435	ppb	1.8730	3.8	504.667
As 188.980	1.6220	ppb	3.7051	228.4	-6.2159
B 249.678	8.5918	ppb	0.6187	7.2	424.080
Ba 389.178	149.157	ppb	0.8743	0.6	3322.46
Be 313.042	-0.0231	ppb	0.0007	3.2	-221.397
Ca 370.602	142475	ppb	278.8	0.2	339612
Cd 226.502	-0.0690	ppb	0.1573	227.9	20.0572
Co 228.615	-0.1123	ppb	0.4061	361.5	7.3777
Cr 267.716	0.3649	ppb	0.0641	17.6	23.4709
Cu 324.754	0.0122	ppb	0.0154	126.7	138.564
Fe 271.441	147.033	ppb	4.1021	2.8	273.212
K 766.491	1144.48	ppb	0.8961	0.1	40368.7
Mg 279.078	71687.0	ppb	95.0086	0.1	151140
Mn 257.610	5.0839	ppb	0.0360	0.7	1917.46
Mo 202.032	0.7233	ppb	0.2996	41.4	17.1417
Na 330.237	11714.4	ppb	230.487	2.0	610.397
Ni 231.604	1.5364	ppb	0.4219	27.5	4.5029
Pb 220.353	1.1898	ppb	1.1667	98.1	25.5174
Sb 206.834	-2.8601	ppb	2.0476	71.6	3.1613
Se 196.026	1.4829	ppb	3.5302	238.1	6.7538
Sn 189.925	0.0207	ppb	0.5491	2652.1	-12.9315
Sr 216.596	411.689	ppb	0.7635	0.2	4678.99
Ti 334.941	0.0923	ppb	0.0402	43.5	295.211
Tl 190.794	-0.2847	ppb	1.9745	693.6	-15.3459
V 292.401	0.0864	ppb	0.1478	171.1	-4.3649
Zn 206.200	3.7026	ppb	1.5451	41.7	10.8569

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0644u	0.0503u	-0.0181u
Al 308.215	78.5642	75.0956	73.5103
As 188.980	2.4989	-0.0589u	6.4489
B 249.678	-1.2815u	-2.2338u	-2.6253u
Ba 389.178	67.4816	65.6484	64.1498
Be 313.042	-0.0167	-0.0141	-0.0165
Ca 370.602	104342	100038	98767
Cd 226.502	0.2734	0.1276	-0.0221
Co 228.615	0.7270	1.6134	0.5671
Cr 267.716	7.7129	7.5556	7.5694
Cu 324.754	0.5301	0.6570	0.5867
Fe 271.441	544.931	524.533	517.929
K 766.491	568.801	550.638	546.902
Mg 279.078	48762.8	46796.6	46328.6
Mn 257.610	25.1355	24.0809	23.7080
Mo 202.032	1.0386	0.4537	0.5708
Na 330.237	8806.85	8445.08	8238.73
Ni 231.604	3.4445	2.9904	2.1936
Pb 220.353	3.7904	-2.6847u	-1.6159u
Sb 206.834	-2.7115u	-5.0440u	1.2408
Se 196.026	-3.0323u	6.0129	3.7252
Sn 189.925	0.4970	-1.6212u	3.5397
Sr 216.596	131.396	127.679	125.849
Ti 334.941	0.8447	0.8012	0.7239
Tl 190.794	2.5255	-3.2158u	3.4184
V 292.401	0.2825	0.2993	0.3690
Zn 206.200	7.6228	7.8433	6.1036

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0322	ppb	0.0441	137.1	-50.4566
Al 308.215	75.7233	ppb	2.5848	3.4	668.239
As 188.980	2.9630	ppb	3.2786	110.7	-5.4003
B 249.678	-2.0469	ppb	0.6912	33.8	285.879
Ba 389.178	65.7599	ppb	1.6687	2.5	1501.71
Be 313.042	-0.0157	ppb	0.0014	9.0	-220.847
Ca 370.602	101049	ppb	2921	2.9	240846
Cd 226.502	0.1263	ppb	0.1477	117.0	28.1916
Co 228.615	0.9692	ppb	0.5636	58.2	20.8852
Cr 267.716	7.6126	ppb	0.0871	1.1	376.845
Cu 324.754	0.5913	ppb	0.0636	10.8	170.457
Fe 271.441	529.131	ppb	14.0759	2.7	927.312
K 766.491	555.447	ppb	11.7144	2.1	19722.9
Mg 279.078	47296.0	ppb	1291.64	2.7	99726.5
Mn 257.610	24.3081	ppb	0.7404	3.0	6493.64
Mo 202.032	0.6877	ppb	0.3095	45.0	16.8495
Na 330.237	8496.89	ppb	287.580	3.4	455.571
Ni 231.604	2.8761	ppb	0.6332	22.0	8.3033
Pb 220.353	-0.1701	ppb	3.4713	2041.2	23.1022
Sb 206.834	-2.1716	ppb	3.1770	146.3	3.9910
Se 196.026	2.2353	ppb	4.7031	210.4	7.1342
Sn 189.925	0.8051	ppb	2.5942	322.2	-12.2566
Sr 216.596	128.308	ppb	2.8263	2.2	1477.23
Ti 334.941	0.7899	ppb	0.0611	7.7	381.456
Tl 190.794	0.9094	ppb	3.6003	395.9	-14.2361
V 292.401	0.3170	ppb	0.0459	14.5	1.0419
Zn 206.200	7.1899	ppb	0.9472	13.2	15.9779

680-90332-k-11-c (Samp) 5/21/2013, 11:00:02 PM Rack 3, Tube 17

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3121	0.0899u	0.4563
Al 308.215	57.8935	57.2680	58.3245
As 188.980	3.6963	2.0145	-1.5257u
B 249.678	0.1001	-0.0089u	0.2556
Ba 389.178	115.371	115.597	115.825
Be 313.042	-0.0204u	-0.0222u	-0.0227u
Ca 370.602	118516	118593	118426
Cd 226.502	0.0160	0.0907	0.0132
Co 228.615	0.7612	0.8748	0.5913
Cr 267.716	0.5842	0.4583	0.3887
Cu 324.754	-0.1882u	0.0909	-0.2264u
Fe 271.441	189.813	194.712	200.034
K 766.491	729.262	732.978	733.524
Mg 279.078	73166.0	73082.8	73111.6
Mn 257.610	44.4109	44.4154	44.3876
Mo 202.032	0.3208	-0.0136u	0.6734
Na 330.237	18590.0	18906.7	18705.2
Ni 231.604	1.1128	3.7183	1.2505
Pb 220.353	-0.3434u	3.1700	3.5217
Sb 206.834	-1.3679u	-1.5953u	-2.2921u
Se 196.026	1.4437	4.0299	-3.7043u
Sn 189.925	-0.6110u	-1.9477u	-4.0110u
Sr 216.596	182.844	183.290	182.772
Ti 334.941	0.0115	0.0238	0.3310
Tl 190.794	0.3127	-0.8934u	0.1400
V 292.401	-0.0852u	0.3446	0.3414
Zn 206.200	1.3050	4.5626	2.8073

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2861	ppb	0.1846	64.5	-33.8359
Al 308.215	57.8287	ppb	0.5312	0.9	555.009
As 188.980	1.3950	ppb	2.6655	191.1	-6.3508
B 249.678	0.1156	ppb	0.1329	115.0	314.303
Ba 389.178	115.598	ppb	0.2268	0.2	2616.55
Be 313.042	-0.0218	ppb	0.0012	5.5	-228.152
Ca 370.602	118511	ppb	83.32	0.1	282491
Cd 226.502	0.0400	ppb	0.0440	110.0	24.2129
Co 228.615	0.7424	ppb	0.1427	19.2	18.0538
Cr 267.716	0.4770	ppb	0.0991	20.8	29.2373
Cu 324.754	-0.1079	ppb	0.1732	160.6	131.978
Fe 271.441	194.853	ppb	5.1121	2.6	355.181
K 766.491	731.921	ppb	2.3193	0.3	25908.3
Mg 279.078	73120.1	ppb	42.2384	0.1	154160
Mn 257.610	44.4046	ppb	0.0150	0.0	11726.3
Mo 202.032	0.3269	ppb	0.3436	105.1	14.1159
Na 330.237	18734.0	ppb	160.315	0.9	947.878
Ni 231.604	2.0272	ppb	1.4662	72.3	5.8929
Pb 220.353	2.1161	ppb	2.1372	101.0	27.1752
Sb 206.834	-1.7518	ppb	0.4816	27.5	4.3652
Se 196.026	0.5898	ppb	3.9372	667.6	6.3204
Sn 189.925	-2.1899	ppb	1.7129	78.2	-14.8991
Sr 216.596	182.969	ppb	0.2804	0.2	2095.72
Ti 334.941	0.1221	ppb	0.1810	148.2	309.851
Tl 190.794	-0.1469	ppb	0.6522	444.0	-15.2702
V 292.401	0.2003	ppb	0.2472	123.4	-1.3262
Zn 206.200	2.8917	ppb	1.6304	56.4	9.6742

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90332-k-12-c (Samp) 5/21/2013, 11:05:28 PM Rack 3, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0195u	-0.3143u	-0.0941u
Al 308.215	8204.62	8187.76	8199.33
As 188.980	22.1053	13.5514	18.2255
B 249.678	30.2869	30.0042	29.5230
Ba 389.178	243.395	242.362	242.163
Be 313.042	1.9479	1.9494	1.9416
Ca 370.602	427363	426801	424617
Cd 226.502	0.9331	0.9066	1.1275
Co 228.615	5.3789	5.3302	5.7775
Cr 267.716	16.3998	16.7103	16.6003
Cu 324.754	9.6636	9.9828	9.4711
Fe 271.441	12816.6	12840.5	12805.1
K 766.491	2604.54	2604.61	2616.16
Mg 279.078	212629	212897	212259
Mn 257.610	2757.71	2759.86	2752.12
Mo 202.032	1.3813	0.7446	1.2066
Na 330.237	8165.32	8274.19	8215.84
Ni 231.604	21.2565	20.7266	21.8196
Pb 220.353	11.6876	13.9168	10.8536
Sb 206.834	-5.0185u	-4.8488u	-1.1251u
Se 196.026	-5.0794u	0.4588	-0.9592
Sn 189.925	3.3646	1.3977	-3.4994u
Sr 216.596	300.103	300.679	301.442
Ti 334.941	76.6914	75.5429	76.6376
Tl 190.794	4.1385u	4.4811u	3.7053u
V 292.401	28.6924	27.7329	28.0890
Zn 206.200	60.8360	63.3009	63.4534

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1426	ppb	0.1533	107.4	-62.1085
Al 308.215	8197.24	ppb	8.6259	0.1	52009.6
As 188.980	17.9607	ppb	4.2831	23.8	3.9406
B 249.678	29.9380	ppb	0.3862	1.3	684.051
Ba 389.178	242.640	ppb	0.6613	0.3	5651.12
Be 313.042	1.9463	ppb	0.0042	0.2	3556.87
Ca 370.602	426260	ppb	1450	0.3	1015348
Cd 226.502	0.9890	ppb	0.1206	12.2	100.820
Co 228.615	5.4955	ppb	0.2454	4.5	79.0827
Cr 267.716	16.5701	ppb	0.1574	1.0	828.372
Cu 324.754	9.7058	ppb	0.2584	2.7	674.243
Fe 271.441	12820.7	ppb	18.0292	0.1	21963.9
K 766.491	2608.44	ppb	6.6877	0.3	91680.8
Mg 279.078	212595	ppb	320.611	0.2	448110
Mn 257.610	2756.56	ppb	3.9958	0.1	688676
Mo 202.032	1.1108	ppb	0.3290	29.6	19.3728
Na 330.237	8218.45	ppb	54.4801	0.7	437.787
Ni 231.604	21.2675	ppb	0.5466	2.6	60.6356
Pb 220.353	12.1527	ppb	1.5837	13.0	45.7671
Sb 206.834	-3.6641	ppb	2.2005	60.1	2.7907
Se 196.026	-1.8600	ppb	2.8769	154.7	5.8544
Sn 189.925	0.4210	ppb	3.5347	839.7	-12.4496
Sr 216.596	300.741	ppb	0.6715	0.2	3462.99
Ti 334.941	76.2907	ppb	0.6481	0.8	22371.8
Tl 190.794	4.1083	ppb	0.3888	9.5	-15.6268
V 292.401	28.1714	ppb	0.4851	1.7	738.083
Zn 206.200	62.5301	ppb	1.4691	2.3	981826

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90332-k-13-c (Samp) 5/21/2013, 11:10:54 PM Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3210	-0.1316u	0.2351
Al 308.215	130.164	129.994	132.207
As 188.980	3.4769	2.3299	0.3496
B 249.678	70.4136	70.5264	70.8129
Ba 389.178	119.428	119.584	120.814
Be 313.042	-0.0349u	-0.0318u	-0.0302u
Ca 370.602	169223	169751	169685
Cd 226.502	0.0253	0.0786	0.1331
Co 228.615	0.1589	-0.4514u	0.0546
Cr 267.716	0.3333	0.3879	0.6684
Cu 324.754	-0.2781u	-0.1651u	-0.0696u
Fe 271.441	628.523	622.293	628.025
K 766.491	852.395	854.935	852.829
Mg 279.078	82454.4	82741.9	82798.8
Mn 257.610	32.6259	32.7843	32.7353
Mo 202.032	0.3453	0.8645	1.1280
Na 330.237	14691.0	14969.2	15041.8
Ni 231.604	2.1212	2.9534	0.9834
Pb 220.353	-1.0551u	-0.6311u	2.3755
Sb 206.834	-0.5192u	1.3533	-1.5554u
Se 196.026	10.9337	10.2077	-5.9286u
Sn 189.925	0.6615	0.3526	-1.2202u
Sr 216.596	162.147	162.872	162.425
Ti 334.941	1.4088	1.0216	1.6521
Tl 190.794	0.0397u	-0.7000u	-5.6293u
V 292.401	0.7172	0.4963	0.5139
Zn 206.200	3.2894	1.8053	3.0681

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1415	ppb	0.2404	169.9	-44.2930
Al 308.215	130.788	ppb	1.2313	0.9	1016.33
As 188.980	2.0521	ppb	1.5820	77.1	-5.9445
B 249.678	70.5843	ppb	0.2059	0.3	1225.92
Ba 389.178	119.942	ppb	0.7591	0.6	2731.69
Be 313.042	-0.0323	ppb	0.0024	7.3	-229.864
Ca 370.602	169553	ppb	287.5	0.2	404129
Cd 226.502	0.0790	ppb	0.0539	68.2	27.1635
Co 228.615	-0.0793	ppb	0.3264	411.7	7.8116
Cr 267.716	0.4632	ppb	0.1798	38.8	28.5492
Cu 324.754	-0.1709	ppb	0.1044	61.1	128.669
Fe 271.441	626.280	ppb	3.4623	0.6	1093.40
K 766.491	853.386	ppb	1.3585	0.2	30165.7
Mg 279.078	82665.1	ppb	184.617	0.2	174280
Mn 257.610	32.7152	ppb	0.0811	0.2	8899.85
Mo 202.032	0.7793	ppb	0.3983	51.1	17.5420
Na 330.237	14900.7	ppb	185.175	1.2	763.447
Ni 231.604	2.0193	ppb	0.9889	49.0	5.8804
Pb 220.353	0.2297	ppb	1.8703	814.1	23.8165
Sb 206.834	-0.2405	ppb	1.4743	613.1	6.0011
Se 196.026	5.0709	ppb	9.5328	188.0	8.5452
Sn 189.925	-0.0687	ppb	1.0091	1469.6	-12.9974
Sr 216.596	162.481	ppb	0.3659	0.2	1870.31
Ti 334.941	1.3608	ppb	0.3180	23.4	701.877
Tl 190.794	-2.0965	ppb	3.0818	147.0	-17.1605
V 292.401	0.5758	ppb	0.1228	21.3	8.6532
Zn 206.200	2.7209	ppb	0.8997	29.4	944684

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90332-ag-14-c (Samp) 5/21/2013, 11:16:21 PM Rack 3, Tube 20**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.7247	0.0798u	0.4110
Al 308.215	1164.51	1224.07	1124.20
As 188.980	8.3267	4.2047	12.0959
B 249.678	24.5946	26.9634	22.1712
Ba 389.178	103.321	108.279	99.4631
Be 313.042	0.0581	0.0520	0.0492
Ca 370.602	124668	130391	121457
Cd 226.502	-0.0624	0.0568	0.0223
Co 228.615	5.6835	6.7129	5.5978
Cr 267.716	2.3083	2.9827	2.5085
Cu 324.754	2.5760	2.8625	2.1076
Fe 271.441	3626.30	3794.42	3512.91
K 766.491	2280.29	2360.45	2228.33
Mg 279.078	69205.4	72346.1	67216.2
Mn 257.610	122.241	127.872	118.932
Mo 202.032	-0.3972u	0.6205	0.6128
Na 330.237	7954.30	8401.86	7727.50
Ni 231.604	11.5475	10.4658	8.8949
Pb 220.353	3.8950	6.6519	4.6162
Sb 206.834	-0.2922u	0.1437	-0.1788u
Se 196.026	4.1266	4.5109	1.6350
Sn 189.925	-3.9764u	1.3515	-0.6108u
Sr 216.596	421.623	440.195	408.864
Ti 334.941	14.1371	16.1824	12.9571
Tl 190.794	3.5883	-0.1505u	3.2929
V 292.401	6.4805	7.0943	6.5380
Zn 206.200	7.0110	7.7048	6.9922

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4052	ppb	0.3225	79.6	-35.3494
Al 308.215	1170.93	ppb	50.2445	4.3	7591.55
As 188.980	8.2091	ppb	3.9469	48.1	-2.1648
B 249.678	24.5764	ppb	2.3962	9.7	626.477
Ba 389.178	103.688	ppb	4.4193	4.3	2360.75
Be 313.042	0.0531	ppb	0.0045	8.6	-84.3977
Ca 370.602	125505	ppb	4526	3.6	298955
Cd 226.502	0.0056	ppb	0.0613	1097.3	33.8158
Co 228.615	5.9981	ppb	0.6205	10.3	83.8730
Cr 267.716	2.5998	ppb	0.3463	13.3	133.669
Cu 324.754	2.5153	ppb	0.3811	15.2	276.957
Fe 271.441	3644.54	ppb	141.638	3.9	6259.81
K 766.491	2289.69	ppb	66.5618	2.9	80508.7
Mg 279.078	69589.3	ppb	2586.38	3.7	146716
Mn 257.610	123.015	ppb	4.5202	3.7	31289.8
Mo 202.032	0.2787	ppb	0.5854	210.0	13.5536
Na 330.237	8027.89	ppb	343.149	4.3	432.045
Ni 231.604	10.3027	ppb	1.3338	12.9	29.3935
Pb 220.353	5.0543	ppb	1.4297	28.3	32.4320
Sb 206.834	-0.1091	ppb	0.2261	207.3	6.2483
Se 196.026	3.4241	ppb	1.5613	45.6	7.7677
Sn 189.925	-1.0786	ppb	2.6946	249.8	-13.9149
Sr 216.596	423.560	ppb	15.7553	3.7	4812.45
Ti 334.941	14.4255	ppb	1.6319	11.3	4318.85
Tl 190.794	2.2436	ppb	2.0785	92.6	-13.2369
V 292.401	6.7043	ppb	0.3390	5.1	170.335
Zn 206.200	7.2360	ppb	0.4061	5.6	16.3754

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400-74918-e-9-b (Samp) 5/21/2013, 11:21:58 PM Rack 3, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5365	0.0535	0.0979
Al 308.215	2.2961	3.9777	4.9780
As 188.980	2.7137	2.1163	3.2472
B 249.678	-10.4633u	-10.5248u	-10.4795u
Ba 389.178	-0.1844u	-0.1989u	-0.3072u
Be 313.042	0.0036	0.0047	0.0026
Ca 370.602	3.121	6.198	-1.885u
Cd 226.502	0.3150	0.1992	0.2406
Co 228.615	-0.1001u	0.8026	-0.0910u
Cr 267.716	0.1030	-0.0319u	0.2018
Cu 324.754	0.5812	0.6396	0.4440
Fe 271.441	0.1628	-0.3583u	9.2393
K 766.491	1.1156	0.5364	0.9349
Mg 279.078	1.6523	0.7801	1.4844
Mn 257.610	0.0651	0.0810	0.0754
Mo 202.032	0.0711	-0.2794u	0.2495
Na 330.237	36.1799	54.4608	30.2992
Ni 231.604	-0.8455u	-0.7443u	0.1425
Pb 220.353	-1.1930u	0.5211	-0.7638u
Sb 206.834	-3.3938u	0.5088	-3.2308u
Se 196.026	7.5147	-3.0140u	-4.3460u
Sn 189.925	2.6342	-0.0993u	0.6424
Sr 216.596	-0.7501u	-0.1733u	-0.3383u
Ti 334.941	0.0478	-0.0027u	0.0738
Tl 190.794	3.3499	2.9207	1.3518
V 292.401	-0.0696u	-0.0995u	0.0418
Zn 206.200	0.5792	1.0345	0.7541

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2293	ppb	0.2670	116.4	-28.5263
Al 308.215	3.7506	ppb	1.3553	36.1	213.087
As 188.980	2.6924	ppb	0.5658	21.0	-5.5769
B 249.678	-10.4892	ppb	0.0319	0.3	177.275
Ba 389.178	-0.2301	ppb	0.0671	29.2	-6.7282
Be 313.042	0.0036	ppb	0.0010	28.2	-217.534
Ca 370.602	2.478	ppb	4.079	164.6	20.23
Cd 226.502	0.2516	ppb	0.0587	23.3	30.6341
Co 228.615	0.2038	ppb	0.5186	254.4	11.3164
Cr 267.716	0.0910	ppb	0.1173	128.9	9.8446
Cu 324.754	0.5550	ppb	0.1004	18.1	168.278
Fe 271.441	3.0146	ppb	5.3970	179.0	26.7866
K 766.491	0.8623	ppb	0.2963	34.4	284.463
Mg 279.078	1.3056	ppb	0.4628	35.4	36.0721
Mn 257.610	0.0739	ppb	0.0081	10.9	38.6331
Mo 202.032	0.0137	ppb	0.2691	1960.8	11.7388
Na 330.237	40.3133	ppb	12.6000	31.3	49.1988
Ni 231.604	-0.4825	ppb	0.5436	112.7	-1.2146
Pb 220.353	-0.4786	ppb	0.8919	186.4	22.5481
Sb 206.834	-2.0386	ppb	2.2076	108.3	4.0526
Se 196.026	0.0516	ppb	6.4975	12598.4	6.0404
Sn 189.925	1.0591	ppb	1.4136	133.5	-12.0810
Sr 216.596	-0.4206	ppb	0.2970	70.6	13.5591
Ti 334.941	0.0396	ppb	0.0389	98.2	-43.0287
Tl 190.794	2.5408	ppb	1.0518	41.4	-12.5966
V 292.401	-0.0425	ppb	0.0745	175.4	-8.3757
Zn 206.200	0.7893	ppb	0.2297	29.1	6.5792

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90369-c-1-b (Samp) **5/21/2013, 11:27:25 PM** **Rack 3, Tube 22**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1544u	-0.0681u	0.1352
Al 308.215	69.5591	68.5616	70.8369
As 188.980	3.6145	6.0568	1.8496
B 249.678	1.1671	1.5813	1.5546
Ba 389.178	19.2461	19.7529	19.9029
Be 313.042	0.0218	0.0134	0.0158
Ca 370.602	12351	12390	12475
Cd 226.502	0.1448	0.2102	0.2291
Co 228.615	7.1591	7.1414	6.8099
Cr 267.716	0.3561	0.4223	0.1052
Cu 324.754	0.0565	0.4816	0.4311
Fe 271.441	73.4698	72.3667	68.0929
K 766.491	1484.72	1487.55	1489.82
Mg 279.078	4055.35	4074.16	4073.30
Mn 257.610	108.350	108.806	109.051
Mo 202.032	-0.7353u	0.0323	0.3824
Na 330.237	27561.5	27313.8	27640.7
Ni 231.604	2.4077	1.5851	2.9079
Pb 220.353	-1.7684u	-2.5691u	0.8265
Sb 206.834	-3.4230u	-3.4925u	1.6025
Se 196.026	5.1023	6.6645	7.5607
Sn 189.925	0.9929	-0.8311u	-0.7116u
Sr 216.596	102.246	102.950	103.440
Ti 334.941	1.1772	1.1999	1.1736
Tl 190.794	0.2449	-0.2995u	-0.1254u
V 292.401	0.1610	-0.2094u	0.0342
Zn 206.200	5.8830	6.9242	6.9398

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0291	ppb	0.1487	511.0	-52.7277
Al 308.215	69.6525	ppb	1.1405	1.6	629.761
As 188.980	3.8403	ppb	2.1127	55.0	-4.8857
B 249.678	1.4344	ppb	0.2318	16.2	331.533
Ba 389.178	19.6340	ppb	0.3442	1.8	423.012
Be 313.042	0.0170	ppb	0.0044	25.6	-191.339
Ca 370.602	12406	ppb	63.48	0.5	29583
Cd 226.502	0.1947	ppb	0.0442	22.7	28.6491
Co 228.615	7.0368	ppb	0.1967	2.8	96.5620
Cr 267.716	0.2945	ppb	0.1672	56.8	20.7364
Cu 324.754	0.3231	ppb	0.2322	71.9	155.574
Fe 271.441	71.3098	ppb	2.8400	4.0	144.720
K 766.491	1487.36	ppb	2.5514	0.2	52386.9
Mg 279.078	4067.60	ppb	10.6238	0.3	8605.52
Mn 257.610	108.736	ppb	0.3560	0.3	27145.6
Mo 202.032	-0.1069	ppb	0.5717	535.0	10.8155
Na 330.237	27505.3	ppb	170.554	0.6	1369.60
Ni 231.604	2.3002	ppb	0.6679	29.0	6.6630
Pb 220.353	-1.1703	ppb	1.7751	151.7	21.3408
Sb 206.834	-1.7710	ppb	2.9217	165.0	4.3472
Se 196.026	6.4425	ppb	1.2441	19.3	9.2412
Sn 189.925	-0.1833	ppb	1.0203	556.8	-13.1664
Sr 216.596	102.879	ppb	0.6005	0.6	1180.43
Ti 334.941	1.1836	ppb	0.0143	1.2	295.153
Tl 190.794	-0.0600	ppb	0.2781	463.5	-15.2648
V 292.401	-0.0047	ppb	0.1882	3987.9	-7.5046
Zn 206.200	6.5823	ppb	0.6957	9.2	1540634

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90369-c-2-b (Samp) 5/21/2013, 11:32:51 PM Rack 3, Tube 23
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1975	0.2110	0.2268
Al 308.215	35.4421	30.4383	36.2008
As 188.980	5.3544	-2.7526u	6.8347
B 249.678	1.2613	0.7056	1.7254
Ba 389.178	12.5917	12.4599	13.7626
Be 313.042	0.0086	0.0062	0.0003
Ca 370.602	3115	3050	3214
Cd 226.502	0.0787	0.1561	0.0924
Co 228.615	1.0271	1.0099	1.2570
Cr 267.716	0.1369	0.2596	0.0116
Cu 324.754	0.4479	0.1511	-0.1698u
Fe 271.441	66.3251	66.1152	70.3831
K 766.491	1280.66	1263.31	1310.36
Mg 279.078	1141.58	1116.74	1178.39
Mn 257.610	44.6870	43.7870	46.1927
Mo 202.032	-0.1107u	-0.4407u	-0.2827u
Na 330.237	14382.6	14172.2	14700.1
Ni 231.604	2.7545	2.4044	1.0131
Pb 220.353	1.6064	0.9487	2.1665
Sb 206.834	-3.4865u	-1.4027u	-0.4561u
Se 196.026	8.1967	4.5692	-0.2186u
Sn 189.925	-0.0837u	-3.0335u	0.3834
Sr 216.596	115.055	112.371	118.272
Ti 334.941	0.5739	0.5182	0.6479
Tl 190.794	-0.2333u	-1.0547u	0.3865
V 292.401	0.4449	0.2301	-0.2013u
Zn 206.200	3.9575	3.3171	2.9111

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2118	ppb	0.0146	6.9	-35.0424
Al 308.215	34.0271	ppb	3.1310	9.2	404.461
As 188.980	3.1455	ppb	5.1613	164.1	-5.3030
B 249.678	1.2308	ppb	0.5106	41.5	328.902
Ba 389.178	12.9381	ppb	0.7171	5.5	274.486
Be 313.042	0.0050	ppb	0.0043	84.8	-215.439
Ca 370.602	3126	ppb	82.47	2.6	7463
Cd 226.502	0.1091	ppb	0.0413	37.8	25.5020
Co 228.615	1.0980	ppb	0.1379	12.6	22.4923
Cr 267.716	0.1360	ppb	0.1240	91.2	12.5027
Cu 324.754	0.1431	ppb	0.3089	215.9	145.690
Fe 271.441	67.6078	ppb	2.4058	3.6	137.469
K 766.491	1284.78	ppb	23.7917	1.9	45286.2
Mg 279.078	1145.57	ppb	31.0178	2.7	2447.30
Mn 257.610	44.8889	ppb	1.2155	2.7	11213.7
Mo 202.032	-0.2780	ppb	0.1651	59.4	9.5103
Na 330.237	14418.3	ppb	265.723	1.8	740.423
Ni 231.604	2.0573	ppb	0.9211	44.8	5.9755
Pb 220.353	1.5739	ppb	0.6096	38.7	26.2106
Sb 206.834	-1.7818	ppb	1.5504	87.0	4.3360
Se 196.026	4.1825	ppb	4.2210	100.9	8.1031
Sn 189.925	-0.9113	ppb	1.8527	203.3	-13.8205
Sr 216.596	115.232	ppb	2.9545	2.6	1318.81
Ti 334.941	0.5800	ppb	0.0651	11.2	113.096
Tl 190.794	-0.3005	ppb	0.7230	240.6	-15.4091
V 292.401	0.1579	ppb	0.3291	208.4	-3.1222
Zn 206.200	3.3952	ppb	0.5276	15.5	10.3994

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

CRI (Samp) **5/21/2013, 11:38:18 PM** **Rack 3, Tube 24**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.0161	10.4319	10.1688
Al 308.215	220.590	220.388	216.086
As 188.980	25.8841	29.3928	24.9234
B 249.678	87.3004	88.8899	87.0617
Ba 389.178	9.3244	9.7870	10.6343
Be 313.042	4.1687	4.2046	4.1003
Ca 370.602	497.7	506.3	498.3
Cd 226.502	5.2431	5.2401	5.0464
Co 228.615	10.1050	10.4115	9.9741
Cr 267.716	10.1507	10.4464	10.0081
Cu 324.754	20.9465	20.8715	20.8303
Fe 271.441	58.7708	56.0364	58.0559
K 766.491	1000.93	1010.94	986.091
Mg 279.078	517.944	520.718	514.850
Mn 257.610	10.8620	10.9323	10.6787
Mo 202.032	9.6409	10.0320	10.3385
Na 330.237	1047.83	832.794	889.141
Ni 231.604	39.7506	41.8076	40.0088
Pb 220.353	10.5990	7.8455	8.6729
Sb 206.834	16.8316	20.9154	18.4826
Se 196.026	20.7687	27.9997	28.0217
Sn 189.925	51.2095	52.7748	49.7170
Sr 216.596	10.2653	10.2367	9.6328
Ti 334.941	10.0229	10.1512	9.9383
Tl 190.794	26.4683	30.6939	29.5060
V 292.401	10.2538	10.3352	10.2972
Zn 206.200	21.9540	21.3924	20.7453

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.2056	ppb	0.2103	2.1	736.819
Al 308.215	219.021	ppb	2.5442	1.2	1572.70
As 188.980	26.7334	ppb	2.3526	8.8	8.8582
B 249.678	87.7507	ppb	0.9938	1.1	1448.87
Ba 389.178	9.9153	ppb	0.6643	6.7	209.135
Be 313.042	4.1579	ppb	0.0530	1.3	7554.37
Ca 370.602	500.8	ppb	4.791	1.0	1206
Cd 226.502	5.1765	ppb	0.1127	2.2	213.147
Co 228.615	10.1635	ppb	0.2245	2.2	135.428
Cr 267.716	10.2018	ppb	0.2235	2.2	502.605
Cu 324.754	20.8828	ppb	0.0589	0.3	1283.82
Fe 271.441	57.6210	ppb	1.4181	2.5	121.879
K 766.491	999.317	ppb	12.5003	1.3	35280.7
Mg 279.078	517.837	ppb	2.9353	0.6	1124.63
Mn 257.610	10.8243	ppb	0.1309	1.2	2721.60
Mo 202.032	10.0038	ppb	0.3496	3.5	87.8945
Na 330.237	923.255	ppb	111.503	12.1	91.4173
Ni 231.604	40.5223	ppb	1.1205	2.8	114.845
Pb 220.353	9.0391	ppb	1.4128	15.6	39.4653
Sb 206.834	18.7432	ppb	2.0543	11.0	26.4943
Se 196.026	25.5967	ppb	4.1812	16.3	18.7275
Sn 189.925	51.2338	ppb	1.5290	3.0	32.3828
Sr 216.596	10.0449	ppb	0.3572	3.6	130.610
Ti 334.941	10.0375	ppb	0.1072	1.1	2771.87
Tl 190.794	28.8894	ppb	2.1793	7.5	12.8582
V 292.401	10.2954	ppb	0.0408	0.4	261.935
Zn 206.200	21.3639	ppb	0.6048	2.8	26.6660

mb 680-277403/1-a (Samp) 5/21/2013, 11:54:38 PM Rack 3, Tube 27

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2446	-0.0784u	0.4931
Al 308.215	1.0775	2.6199	1.9260
As 188.980	5.6454	-3.7407u	1.9231
B 249.678	-5.3761u	-5.1373u	-5.6520u
Ba 389.178	0.7208	-0.0157u	0.2444
Be 313.042	0.0073	0.0017	0.0067
Ca 370.602	0.7919	-8.742u	-6.363u
Cd 226.502	0.1925	0.0361	0.0799
Co 228.615	-0.1077u	0.2797	-0.3632u
Cr 267.716	0.1281	-0.0652u	0.0725
Cu 324.754	0.6092	0.1736	0.1687
Fe 271.441	-2.4457u	4.0657	4.1048
K 766.491	-0.3482u	-0.3195u	-0.2054u
Mg 279.078	-0.2740u	-0.5438u	2.2612
Mn 257.610	0.0345	0.0336	0.0308
Mo 202.032	0.5148	-0.4338u	-0.4512u
Na 330.237	-184.073u	-104.918u	32.4209
Ni 231.604	-0.2600u	-0.5370u	-0.0581u
Pb 220.353	-1.1740u	0.0638	1.5404
Sb 206.834	-0.3824u	-1.1666u	-2.8647u
Se 196.026	5.3813	1.5293	6.2517
Sn 189.925	0.1820	-1.2799u	-4.0887u
Sr 216.596	-0.3843u	-0.4841u	-0.1940u
Ti 334.941	0.0139	-0.0499u	0.0552
Tl 190.794	-0.0590u	1.4359	-0.3450u
V 292.401	0.0410	-0.0610u	0.0334
Zn 206.200	-0.0670u	0.5902	-0.0132u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2198	ppb	0.2866	130.4	-29.2723
Al 308.215	1.8745	ppb	0.7725	41.2	201.208
As 188.980	1.2759	ppb	4.7264	370.4	-6.4274
B 249.678	-5.3885	ppb	0.2576	4.8	243.300
Ba 389.178	0.3165	ppb	0.3735	118.0	4.8273
Be 313.042	0.0052	ppb	0.0031	58.5	-214.471
Ca 370.602	-4.771	ppb	4.962	104.0	2.886
Cd 226.502	0.1028	ppb	0.0807	78.4	25.1299
Co 228.615	-0.0638	ppb	0.3237	507.7	7.9853
Cr 267.716	0.0451	ppb	0.0995	220.4	7.6089
Cu 324.754	0.3172	ppb	0.2529	79.7	155.228
Fe 271.441	1.9083	ppb	3.7707	197.6	24.8486
K 766.491	-0.2910	ppb	0.0756	26.0	244.039
Mg 279.078	0.4811	ppb	1.5475	321.6	34.3353
Mn 257.610	0.0330	ppb	0.0019	5.9	28.4407
Mo 202.032	-0.1234	ppb	0.5528	448.0	10.6930
Na 330.237	-85.5234	ppb	109.542	128.1	43.1528
Ni 231.604	-0.2850	ppb	0.2404	84.4	-0.6557
Pb 220.353	0.1434	ppb	1.3590	947.7	23.6550
Sb 206.834	-1.4712	ppb	1.2689	86.2	4.6661
Se 196.026	4.3875	ppb	2.5132	57.3	8.1933
Sn 189.925	-1.7289	ppb	2.1705	125.5	-14.5517
Sr 216.596	-0.3541	ppb	0.1474	41.6	14.3128
Ti 334.941	0.0064	ppb	0.0529	824.8	-52.3703
Tl 190.794	0.3440	ppb	0.9564	278.0	-14.7200
V 292.401	0.0044	ppb	0.0568	1277.9	-7.1094
Zn 206.200	0.1700	ppb	0.3649	534.6	794.6731

ics 680-277403/2-a (Samp) 5/22/2013, 12:00:04 AM Rack 3, Tube 28
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	48.5495	47.3721	49.6369
Al 308.215	4808.58	4707.20	4802.15
As 188.980	108.258	104.963	115.361
B 249.678	179.918	175.815	181.018
Ba 389.178	94.1164	91.6736	93.5687
Be 313.042	49.0475	48.3528	49.0184
Ca 370.602	4584	4523	4590
Cd 226.502	48.7301	47.4113	48.7925
Co 228.615	48.5004	47.3300	48.6276
Cr 267.716	95.6567	94.0800	95.8313
Cu 324.754	95.8932	96.3964	96.7570
Fe 271.441	4653.07	4564.08	4651.52
K 766.491	4744.79	4686.08	4734.59
Mg 279.078	4789.94	4689.43	4788.01
Mn 257.610	491.625	483.027	491.453
Mo 202.032	96.2595	94.2755	96.3873
Na 330.237	4687.10	4680.40	4818.37
Ni 231.604	95.7666	94.2330	95.6825
Pb 220.353	48.6159	51.5429	49.0921
Sb 206.834	47.8906	47.8808	49.6950
Se 196.026	98.8166	98.2346	101.016
Sn 189.925	190.224	187.727	189.480
Sr 216.596	94.6720	92.9057	94.4423
Ti 334.941	94.0928	92.2578	94.0901
Tl 190.794	36.2063	38.1040	44.1545
V 292.401	95.9589	94.2327	95.6556
Zn 206.200	94.1651	95.0919	94.6787

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.5195	ppb	1.1327	2.3	3676.44
Al 308.215	4772.64	ppb	56.7642	1.2	30360.5
As 188.980	109.528	ppb	5.3139	4.9	58.6773
B 249.678	178.917	ppb	2.7420	1.5	2623.08
Ba 389.178	93.1196	ppb	1.2819	1.4	1984.81
Be 313.042	48.8062	ppb	0.3929	0.8	91088.8
Ca 370.602	4566	ppb	37.38	0.8	10640
Cd 226.502	48.3113	ppb	0.7801	1.6	1824.56
Co 228.615	48.1526	ppb	0.7153	1.5	608.417
Cr 267.716	95.1893	ppb	0.9647	1.0	4647.24
Cu 324.754	96.3488	ppb	0.4338	0.5	5427.58
Fe 271.441	4622.89	ppb	50.9392	1.1	7941.57
K 766.491	4721.82	ppb	31.3724	0.7	165756
Mg 279.078	4755.79	ppb	57.4789	1.2	10049.5
Mn 257.610	488.702	ppb	4.9151	1.0	121827
Mo 202.032	95.6408	ppb	1.1840	1.2	740.509
Na 330.237	4728.62	ppb	77.7911	1.6	271.977
Ni 231.604	95.2274	ppb	0.8622	0.9	269.785
Pb 220.353	49.7503	ppb	1.5706	3.2	111.912
Sb 206.834	48.4888	ppb	1.0446	2.2	58.7650
Se 196.026	99.3557	ppb	1.4669	1.5	55.4975
Sn 189.925	189.144	ppb	1.2818	0.7	154.598
Sr 216.596	94.0067	ppb	0.9604	1.0	1076.12
Ti 334.941	93.4802	ppb	1.0586	1.1	26265.7
Tl 190.794	39.4883	ppb	4.1510	10.5	22.2211
V 292.401	95.2824	ppb	0.9216	1.0	2483.40
Zn 206.200	94.6452	ppb	0.4643	0.5	144.129

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90332-c-6-d (Samp) 5/22/2013, 12:05:31 AM Rack 3, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0524u	-0.0316u	0.4682
Al 308.215	5.3219	6.8903	6.9198
As 188.980	-3.4862u	3.3362	-4.8046u
B 249.678	91.6322	91.4787	92.5697
Ba 389.178	112.983	113.268	115.454
Be 313.042	-0.0382u	-0.0384u	-0.0312u
Ca 370.602	164210	165018	165012
Cd 226.502	0.3101	-0.0434u	-0.0227
Co 228.615	-0.7507u	-0.0108u	0.1323
Cr 267.716	0.1567	0.0762	0.1712
Cu 324.754	-0.0596u	-0.0049u	0.5477
Fe 271.441	11.5447	10.1318	9.7543
K 766.491	828.622	827.563	828.576
Mg 279.078	78730.1	78872.4	78990.7
Mn 257.610	10.7297	10.8137	10.7921
Mo 202.032	0.8962	1.2147	0.5747
Na 330.237	15329.2	15491.6	15636.1
Ni 231.604	1.5312	1.7501	1.3659
Pb 220.353	-0.3001u	2.0081	1.2410
Sb 206.834	-0.0857u	-1.0524u	-4.2702u
Se 196.026	9.0247	-2.7334u	10.2169
Sn 189.925	-0.6966u	-1.0018u	-0.1005u
Sr 216.596	159.629	160.597	160.425
Ti 334.941	-0.9308	-0.9588	-0.9123
Tl 190.794	1.2028	-0.3573u	1.6582
V 292.401	-0.1652u	-0.2498u	-0.1543u
Zn 206.200	2.8957	3.5378	3.6744

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1281	ppb	0.2947	230.1	-45.2851
Al 308.215	6.3774	ppb	0.9142	14.3	229.877
As 188.980	-1.6515	ppb	4.3695	264.6	-8.1853
B 249.678	91.8936	ppb	0.5906	0.6	1502.55
Ba 389.178	113.902	ppb	1.3517	1.2	2593.72
Be 313.042	-0.0360	ppb	0.0041	11.4	-238.059
Ca 370.602	164747	ppb	464.7	0.3	392708
Cd 226.502	0.0813	ppb	0.1984	243.9	25.2666
Co 228.615	-0.2097	ppb	0.4740	226.0	6.1360
Cr 267.716	0.1347	ppb	0.0512	38.0	12.3049
Cu 324.754	0.1611	ppb	0.3359	208.6	146.698
Fe 271.441	10.4770	ppb	0.9438	9.0	39.4918
K 766.491	828.254	ppb	0.5985	0.1	29284.8
Mg 279.078	78864.4	ppb	130.460	0.2	166269
Mn 257.610	10.7785	ppb	0.0436	0.4	3398.01
Mo 202.032	0.8952	ppb	0.3200	35.7	18.4600
Na 330.237	15485.6	ppb	153.514	1.0	791.758
Ni 231.604	1.5491	ppb	0.1927	12.4	4.5357
Pb 220.353	0.9830	ppb	1.1755	119.6	25.1505
Sb 206.834	-1.8028	ppb	2.1909	121.5	4.2944
Se 196.026	5.5027	ppb	7.1576	130.1	8.7505
Sn 189.925	-0.5996	ppb	0.4584	76.5	-13.4696
Sr 216.596	160.217	ppb	0.5167	0.3	1844.06
Ti 334.941	-0.9339	ppb	0.0234	2.5	38.2006
Tl 190.794	0.8346	ppb	1.0570	126.6	-14.2661
V 292.401	-0.1897	ppb	0.0523	27.5	-11.6248
Zn 206.200	3.3693	ppb	0.4158	12.3	10.3560

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90332-c-7-b (Samp) 5/22/2013, 12:10:58 AM Rack 3, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0844u	0.0714u	0.4880
Al 308.215	5.8192	6.2672	5.1496
As 188.980	4.2773	-0.8457u	0.2911
B 249.678	18.9751	19.2756	17.6299
Ba 389.178	99.4977	100.432	97.3805
Be 313.042	-0.0258u	-0.0317u	-0.0225u
Ca 370.602	102653	103110	101266
Cd 226.502	0.0167	0.0335	0.1719
Co 228.615	-0.7560u	0.0726	-0.1293u
Cr 267.716	0.3254	-0.1642u	0.0934
Cu 324.754	0.1571	-0.5995u	-0.5039u
Fe 271.441	5.2882	4.6053	5.0899
K 766.491	1797.17	1807.17	1774.78
Mg 279.078	57982.9	58634.4	57471.7
Mn 257.610	-1.5493	-1.4954	-1.4809
Mo 202.032	0.3618	0.7252	0.4905
Na 330.237	8293.25	8279.04	8187.85
Ni 231.604	4.9716	3.9506	3.9254
Pb 220.353	2.9692	0.5617	-0.5845u
Sb 206.834	-1.0041u	-7.8849u	-1.0417u
Se 196.026	2.9750	3.0294	7.0416
Sn 189.925	1.2826	-1.9621u	3.7543
Sr 216.596	379.209	382.930	375.704
Ti 334.941	-0.7313	-0.6880	-0.6972
Tl 190.794	0.3299	4.0251	2.6355
V 292.401	0.1968	0.2451	0.1391
Zn 206.200	0.2477	4.0383	1.8674

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2146	ppb	0.2369	110.4	-48.3508
Al 308.215	5.7453	ppb	0.5624	9.8	225.830
As 188.980	1.2409	ppb	2.6904	216.8	-6.4485
B 249.678	18.6269	ppb	0.8764	4.7	554.163
Ba 389.178	99.1034	ppb	1.5634	1.6	2231.42
Be 313.042	-0.0267	ppb	0.0046	17.4	-241.242
Ca 370.602	102343	ppb	960.0	0.9	243961
Cd 226.502	0.0740	ppb	0.0852	115.1	24.7556
Co 228.615	-0.2709	ppb	0.4321	159.5	5.3836
Cr 267.716	0.0849	ppb	0.2449	288.5	9.6906
Cu 324.754	-0.3154	ppb	0.4120	130.6	120.536
Fe 271.441	4.9945	ppb	0.3513	7.0	30.1017
K 766.491	1793.04	ppb	16.5830	0.9	63101.0
Mg 279.078	58029.7	ppb	582.766	1.0	122352
Mn 257.610	-1.5086	ppb	0.0360	2.4	154.013
Mo 202.032	0.5258	ppb	0.1843	35.0	15.6428
Na 330.237	8253.38	ppb	57.1917	0.7	444.055
Ni 231.604	4.2825	ppb	0.5969	13.9	12.2722
Pb 220.353	0.9821	ppb	1.8137	184.7	25.1465
Sb 206.834	-3.3102	ppb	3.9619	119.7	2.6723
Se 196.026	4.3486	ppb	2.3323	53.6	8.1742
Sn 189.925	1.0249	ppb	2.8669	279.7	-12.0612
Sr 216.596	379.281	ppb	3.6140	1.0	4308.86
Ti 334.941	-0.7055	ppb	0.0228	3.2	9.0385
Tl 190.794	2.3302	ppb	1.8664	80.1	-12.8014
V 292.401	0.1937	ppb	0.0531	27.4	-1.6293
Zn 206.200	2.0511	ppb	1.9920	92.7	844265

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90328-a-1-a (Samp) 5/22/2013, 12:16:24 AM Rack 3, Tube 31

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0071u	-0.0240u	-0.0167u
Al 308.215	13.8349	13.7458	13.8986
As 188.980	17.0460	19.8236	18.5314
B 249.678	519.775	522.684	525.360
Ba 389.178	732.750	734.263	735.729
Be 313.042	-0.0369u	-0.0471u	-0.0394u
Ca 370.602	227334	229130	227198
Cd 226.502	-0.2572	-0.1200	-0.0695
Co 228.615	-0.0902u	0.2314	-0.0122u
Cr 267.716	0.7474	0.6157	0.8187
Cu 324.754	-0.6868u	-0.3337u	-0.5183u
Fe 271.441	20954.0	20972.8	20942.6
K 766.491	17880.2	17912.9	17900.5
Mg 279.078	46910.6	46914.3	46908.3
Mn 257.610	1343.97	1344.54	1342.24
Mo 202.032	0.4317	-0.1757u	-0.4129u
Na 330.237	77502.3	78112.2	77774.1
Ni 231.604	1.4982	2.2264	0.5523
Pb 220.353	2.9486	3.0689	0.9578
Sb 206.834	-3.1474u	-3.9735u	1.7183
Se 196.026	1.1976	-0.1131	7.8839
Sn 189.925	-2.8682u	-2.9046u	-1.7770u
Sr 216.596	923.455	923.260	924.631
Ti 334.941	-0.2078	-0.1428	-0.1743
Tl 190.794	7.3066	1.3592u	-0.2793u
V 292.401	-0.1181u	0.5281	-0.0612u
Zn 206.200	-0.7497	-0.5463	1.1864

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0159	ppb	0.0085	53.3	-85.0126
Al 308.215	13.8265	ppb	0.0768	0.6	276.933
As 188.980	18.4670	ppb	1.3899	7.5	4.4666
B 249.678	522.606	ppb	2.7937	0.5	7050.92
Ba 389.178	734.247	ppb	1.4891	0.2	15660.6
Be 313.042	-0.0411	ppb	0.0053	12.9	-233.149
Ca 370.602	227887	ppb	1079	0.5	541965
Cd 226.502	-0.1489	ppb	0.0971	65.2	81.8070
Co 228.615	0.0430	ppb	0.1678	390.0	8.5787
Cr 267.716	0.7273	ppb	0.1030	14.2	53.1281
Cu 324.754	-0.5129	ppb	0.1766	34.4	116.482
Fe 271.441	20956.4	ppb	15.2280	0.1	35886.2
K 766.491	17897.9	ppb	16.4997	0.1	627581
Mg 279.078	46911.1	ppb	3.0251	0.0	98897.7
Mn 257.610	1343.58	ppb	1.1970	0.1	335225
Mo 202.032	-0.0523	ppb	0.4356	833.3	10.1314
Na 330.237	77796.2	ppb	305.565	0.4	3781.68
Ni 231.604	1.4256	ppb	0.8394	58.9	4.6541
Pb 220.353	2.3251	ppb	1.1856	51.0	27.8487
Sb 206.834	-1.8009	ppb	3.0756	170.8	4.8335
Se 196.026	2.9895	ppb	4.2891	143.5	7.9571
Sn 189.925	-2.5166	ppb	0.6408	25.5	-15.1180
Sr 216.596	923.782	ppb	0.7415	0.1	10475.1
Ti 334.941	-0.1749	ppb	0.0325	18.6	105.601
Tl 190.794	2.7955	ppb	3.9917	142.8	-15.3003
V 292.401	0.1163	ppb	0.3578	307.7	-4.2120
Zn 206.200	-0.0365	ppb	1.0639	597.4	744860

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680-90328-a-2-a (Samp) 5/22/2013, 12:21:51 AM Rack 3, Tube 32
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1735u	-0.0784u	0.0321u
Al 308.215	5.3605	7.7275	9.7709
As 188.980	8.4413	13.1866	15.2377
B 249.678	461.155	476.535	475.831
Ba 389.178	786.442	809.375	806.548
Be 313.042	-0.0305	-0.0416u	-0.0414u
Ca 370.602	211995	215941	214359
Cd 226.502	-0.2078	0.2198	-0.1117
Co 228.615	-0.1231u	0.2856	-0.4592u
Cr 267.716	0.0080	-0.1011	-0.0745
Cu 324.754	-0.6191u	-0.2341u	-0.5542u
Fe 271.441	18563.7	19090.9	19013.2
K 766.491	28184.3	29078.1	29040.3
Mg 279.078	44953.6	45708.5	45390.7
Mn 257.610	1157.96	1193.27	1186.76
Mo 202.032	0.0707u	-0.3522u	0.4456
Na 330.237	102310x	105667x	104945x
Ni 231.604	0.4509	1.9877	1.8154
Pb 220.353	2.5121	2.7486	1.1713
Sb 206.834	1.2972	-4.9334u	3.3343
Se 196.026	1.8478	-2.0037u	3.8165
Sn 189.925	0.7160	0.2069	-1.7219u
Sr 216.596	878.655	904.634	898.666
Ti 334.941	-0.2864	-0.2134	-0.2705
Tl 190.794	-0.8652u	5.0938	2.1824u
V 292.401	0.0455	0.1135	0.0016u
Zn 206.200	1.7296	-0.8402	0.4920

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0733b	ppb	0.1029	140.5	-88.6410
Al 308.215	7.6196b	ppb	2.2072	29.0	237.726
As 188.980	12.2885b	ppb	3.4861	28.4	0.7000
B 249.678	471.173b	ppb	8.6833	1.8	6387.85
Ba 389.178	800.788b	ppb	12.5047	1.6	17061.0
Be 313.042	-0.0378b	ppb	0.0064	16.8	-235.415
Ca 370.602	214098b	ppb	1986	0.9	509220
Cd 226.502	-0.0332b	ppb	0.2243	675.1	79.4219
Co 228.615	-0.0989b	ppb	0.3730	377.0	6.8816
Cr 267.716	-0.0559b	ppb	0.0569	101.8	14.1954
Cu 324.754	-0.4691b	ppb	0.2061	43.9	118.217
Fe 271.441	18889.3b	ppb	284.605	1.5	32348.4
K 766.491	28767.6b	ppb	505.478	1.8	1008568
Mg 279.078	45350.9b	ppb	379.015	0.8	95611.3
Mn 257.610	1179.33b	ppb	18.7885	1.6	294284
Mo 202.032	0.0547b	ppb	0.3992	729.8	11.0563
Na 330.237	104307xb	ppb	1767.29	1.7	5056.87
Ni 231.604	1.4180b	ppb	0.8420	59.4	4.5863
Pb 220.353	2.1440b	ppb	0.8506	39.7	27.4881
Sb 206.834	-0.1007b	ppb	4.3074	4278.9	6.6084
Se 196.026	1.2202b	ppb	2.9604	242.6	7.0255
Sn 189.925	-0.2664b	ppb	1.2860	482.8	-13.1209
Sr 216.596	893.985b	ppb	13.6075	1.5	10136.5
Ti 334.941	-0.2568b	ppb	0.0384	14.9	73.2150
Tl 190.794	2.1370b	ppb	2.9798	139.4	-15.6005
V 292.401	0.0536b	ppb	0.0564	105.3	-6.0541
Zn 206.200	0.4605b	ppb	1.2852	379.1	8.0063

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680-90328-a-3-a (Samp) 5/22/2013, 12:27:28 AM Rack 3, Tube 33
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0151u	0.0956u	-0.0042u
Al 308.215	11.4989	7.3917	10.2323
As 188.980	-2.5671u	4.9572	-1.7581u
B 249.678	378.690	378.327	378.890
Ba 389.178	1004.87	1005.40	1004.36
Be 313.042	-0.0095u	-0.0080u	-0.0074u
Ca 370.602	104887	104890	104623
Cd 226.502	-0.1309	-0.2917	-0.1390
Co 228.615	0.0757	-0.3624u	-0.4807u
Cr 267.716	-0.0204	-0.1841u	-0.0211
Cu 324.754	0.1740	0.0479	-0.1445u
Fe 271.441	9703.91	9699.71	9682.64
K 766.491	109033x	109128x	108934x
Mg 279.078	32536.6	32593.7	32492.9
Mn 257.610	247.521	247.777	246.604
Mo 202.032	0.1456	0.4196	0.1501
Na 330.237	168383x	169388x	168039x
Ni 231.604	1.1303	0.7751	-0.4038u
Pb 220.353	-1.0124u	4.1486	0.6133
Sb 206.834	-0.6434u	-3.3211u	-5.2362u
Se 196.026	4.3408	2.1959	1.1559
Sn 189.925	1.2354	-0.7472u	-0.6954u
Sr 216.596	542.539	542.726	539.448
Ti 334.941	-0.1221	-0.1781	-0.2084
Tl 190.794	0.3195u	1.7395	0.4989u
V 292.401	0.1276	0.3544	0.2615
Zn 206.200	0.1051	-0.0851	1.0217

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0355b	ppb	0.0529	149.0	-67.9102
Al 308.215	9.7076b	ppb	2.1032	21.7	250.891
As 188.980	0.2107b	ppb	4.1305	1960.6	-6.8031
B 249.678	378.636b	ppb	0.2857	0.1	5202.03
Ba 389.178	1004.88b	ppb	0.5188	0.1	21333.5
Be 313.042	-0.0083b	ppb	0.0011	13.5	-228.775
Ca 370.602	104800b	ppb	153.0	0.1	249234
Cd 226.502	-0.1872b	ppb	0.0906	48.4	44.3508
Co 228.615	-0.2558b	ppb	0.2931	114.6	5.3123
Cr 267.716	-0.0752b	ppb	0.0943	125.4	8.0578
Cu 324.754	0.0258b	ppb	0.1604	621.9	142.394
Fe 271.441	9695.42b	ppb	11.2674	0.1	16614.2
K 766.491	109032xb	ppb	97.0743	0.1	3821860
Mg 279.078	32541.1b	ppb	50.5742	0.2	68623.2
Mn 257.610	247.301b	ppb	0.6166	0.2	61944.9
Mo 202.032	0.2384b	ppb	0.1569	65.8	12.9412
Na 330.237	168603xb	ppb	700.854	0.4	8150.67
Ni 231.604	0.5005b	ppb	0.8031	160.4	1.7842
Pb 220.353	1.2498b	ppb	2.6387	211.1	25.6808
Sb 206.834	-3.0669b	ppb	2.3069	75.2	3.1762
Se 196.026	2.5642b	ppb	1.6241	63.3	7.4067
Sn 189.925	-0.0691b	ppb	1.1300	1635.6	-12.9725
Sr 216.596	541.571b	ppb	1.8413	0.3	6144.37
Ti 334.941	-0.1695b	ppb	0.0438	25.8	33.8640
Tl 190.794	0.8526b	ppb	0.7733	90.7	-15.0620
V 292.401	0.2478b	ppb	0.1140	46.0	-1.5864
Zn 206.200	0.3472b	ppb	0.5918	170.4	6.9120

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90328-a-4-a (Samp) 5/22/2013, 12:32:56 AM Rack 3, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1149u	-0.0097u	0.2089u
Al 308.215	8.5343	9.4414	6.7283
As 188.980	9.0941	8.6563	-0.1495
B 249.678	379.633	380.414	380.211
Ba 389.178	1010.04	1010.08	1006.46
Be 313.042	-0.0012	-0.0101u	-0.0116u
Ca 370.602	105595	105323	105019
Cd 226.502	-0.1968	-0.0864	-0.0781
Co 228.615	-0.3552u	-0.7589u	-0.0315u
Cr 267.716	-0.1157	0.0980	-0.0428
Cu 324.754	-0.2441u	-0.2077u	-0.1398u
Fe 271.441	9715.71	9711.87	9701.08
K 766.491	109699x	109759x	109707x
Mg 279.078	32737.9	32721.9	32647.0
Mn 257.610	247.958	248.102	247.661
Mo 202.032	0.5740	0.3874	-0.2249u
Na 330.237	170708x	171515x	170523x
Ni 231.604	0.1493	1.6243	1.6291
Pb 220.353	-0.4082u	3.3499	-0.5600u
Sb 206.834	-4.0575u	2.2989	1.6328
Se 196.026	3.6053	3.1558	-6.5437u
Sn 189.925	-2.2724u	1.9655	-3.9520u
Sr 216.596	544.340	542.949	542.834
Ti 334.941	-0.2115	-0.2196	-0.2001
Tl 190.794	1.1931	2.3331	1.1736
V 292.401	0.3725	0.2281	-0.3747u
Zn 206.200	0.5202	2.0514	0.7543

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0281b	ppb	0.1652	587.6	-68.6946
Al 308.215	8.2346b	ppb	1.3811	16.8	241.587
As 188.980	5.8670b	ppb	5.2150	88.9	-3.4061
B 249.678	380.086b	ppb	0.4052	0.1	5220.79
Ba 389.178	1008.86b	ppb	2.0764	0.2	21418.1
Be 313.042	-0.0076b	ppb	0.0056	73.3	-227.608
Ca 370.602	105312b	ppb	288.3	0.3	250454
Cd 226.502	-0.1204b	ppb	0.0663	55.0	46.8599
Co 228.615	-0.3819b	ppb	0.3644	95.4	3.7398
Cr 267.716	-0.0202b	ppb	0.1086	538.7	10.7893
Cu 324.754	-0.1972b	ppb	0.0529	26.8	130.166
Fe 271.441	9709.55b	ppb	7.5854	0.1	16638.4
K 766.491	109722xb	ppb	32.6648	0.0	3846034
Mg 279.078	32702.2b	ppb	48.5355	0.1	68963.0
Mn 257.610	247.907b	ppb	0.2246	0.1	62097.4
Mo 202.032	0.2455b	ppb	0.4179	170.2	12.9948
Na 330.237	170915xb	ppb	527.917	0.3	8261.82
Ni 231.604	1.1342b	ppb	0.8529	75.2	3.5781
Pb 220.353	0.7939b	ppb	2.2149	279.0	24.8699
Sb 206.834	-0.0419b	ppb	3.4935	8333.0	6.4423
Se 196.026	0.0725b	ppb	5.7342	7909.9	6.1697
Sn 189.925	-1.4196b	ppb	3.0496	214.8	-14.1682
Sr 216.596	543.374b	ppb	0.8382	0.2	6164.78
Ti 334.941	-0.2104b	ppb	0.0098	4.7	22.9220
Tl 190.794	1.5666b	ppb	0.6639	42.4	-14.3737
V 292.401	0.0753b	ppb	0.3964	526.6	-6.1578
Zn 206.200	1.1086b	ppb	0.8248	74.4	8.0276

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90328-a-5-a (Samp) 5/22/2013, 12:38:23 AM Rack 3, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0945u	0.0980u	0.0951u
Al 308.215	12.8753	12.4787	14.3616
As 188.980	4.3303	1.0911	1.9373
B 249.678	310.145	310.659	311.284
Ba 389.178	633.468	635.801	635.763
Be 313.042	-0.0367u	-0.0296u	-0.0283u
Ca 370.602	166300	170247	168599
Cd 226.502	-0.0051	-0.0715	-0.0445
Co 228.615	0.1375	-0.3195u	-0.6066u
Cr 267.716	0.1465	0.3471	-0.1384u
Cu 324.754	-0.1905u	0.1629	0.0645
Fe 271.441	3747.11	3751.81	3759.31
K 766.491	22481.5	22498.4	22538.8
Mg 279.078	38481.3	38454.3	38459.2
Mn 257.610	557.293	557.858	558.408
Mo 202.032	-0.1127u	-0.1735u	-0.3893u
Na 330.237	88770.9	88678.0	88928.8
Ni 231.604	0.5142	-0.7348u	0.3319
Pb 220.353	0.9063	-0.5113u	1.3541
Sb 206.834	-3.4856u	-5.0851u	-3.1225u
Se 196.026	7.6768	1.3547	5.3549
Sn 189.925	-2.5782u	-3.0188u	5.0825
Sr 216.596	783.481	783.818	783.157
Ti 334.941	-0.1912	-0.1089	-0.1715
Tl 190.794	6.8319	-2.8462u	-0.6866u
V 292.401	-0.1061u	0.2421	-0.1881u
Zn 206.200	1.6104	1.9373	2.2405

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0958	ppb	0.0019	1.9	-73.3464
Al 308.215	13.2385	ppb	0.9926	7.5	273.174
As 188.980	2.4529	ppb	1.6800	68.5	-5.6184
B 249.678	310.696	ppb	0.5700	0.2	4330.06
Ba 389.178	635.011	ppb	1.3365	0.2	13520.0
Be 313.042	-0.0315	ppb	0.0045	14.4	-236.603
Ca 370.602	168382	ppb	1982	1.2	401157
Cd 226.502	-0.0404	ppb	0.0334	82.7	31.6210
Co 228.615	-0.2629	ppb	0.3753	142.7	5.3964
Cr 267.716	0.1184	ppb	0.2440	206.1	16.0668
Cu 324.754	0.0123	ppb	0.1824	1482.1	139.715
Fe 271.441	3752.74	ppb	6.1561	0.2	6443.95
K 766.491	22506.3	ppb	29.4314	0.1	789107
Mg 279.078	38464.9	ppb	14.3653	0.0	81103.9
Mn 257.610	557.853	ppb	0.5578	0.1	139349
Mo 202.032	-0.2252	ppb	0.1454	64.5	9.7192
Na 330.237	88792.6	ppb	126.792	0.1	4315.18
Ni 231.604	0.0371	ppb	0.6746	1818.6	0.3398
Pb 220.353	0.5830	ppb	0.9738	167.0	24.5670
Sb 206.834	-3.8977	ppb	1.0442	26.8	2.1418
Se 196.026	4.7955	ppb	3.1980	66.7	8.5570
Sn 189.925	-0.1715	ppb	4.5554	2656.2	-13.0626
Sr 216.596	783.485	ppb	0.3303	0.0	8878.35
Ti 334.941	-0.1572	ppb	0.0430	27.3	69.2638
Tl 190.794	1.0997	ppb	5.0803	462.0	-14.9698
V 292.401	-0.0173	ppb	0.2284	1317.8	-7.8621
Zn 206.200	1.9294	ppb	0.3152	6016.3	846266

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90328-a-6-a (Samp) 5/22/2013, 12:43:49 AM Rack 3, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0539u	-0.0801u	0.0389u
Al 308.215	7.5605	8.7560	9.1099
As 188.980	6.0792	6.0371	3.9377
B 249.678	302.227	303.264	303.813
Ba 389.178	616.651	618.018	617.895
Be 313.042	-0.0366u	-0.0380u	-0.0295u
Ca 370.602	166211	166958	167110
Cd 226.502	0.0264	-0.0922	-0.2048
Co 228.615	0.0070u	0.0591	-0.2816u
Cr 267.716	-0.2119u	-0.0254	0.1868
Cu 324.754	-0.3937u	-0.2014u	-0.2909u
Fe 271.441	3592.02	3600.02	3587.82
K 766.491	22008.5	22038.1	22019.0
Mg 279.078	37653.5	37618.2	37685.4
Mn 257.610	545.262	546.083	546.338
Mo 202.032	-0.3589u	-0.0004u	-0.2785u
Na 330.237	87060.2	87063.8	87013.2
Ni 231.604	-0.4309u	1.2606	0.4437
Pb 220.353	-0.1586u	-1.7135u	1.3161
Sb 206.834	-3.6359u	-3.6462u	-5.7282u
Se 196.026	8.4746	1.5000	6.8283
Sn 189.925	2.5425	0.8272	-2.9834u
Sr 216.596	765.158	765.865	765.721
Ti 334.941	-0.2249	-0.1717	-0.2549
Tl 190.794	0.6444u	4.3411	1.3892
V 292.401	-0.2262u	-0.2588u	0.1328
Zn 206.200	0.8176	0.7462	1.8323

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0042	ppb	0.0734	1736.2	-79.6593
Al 308.215	8.4755	ppb	0.8119	9.6	243.088
As 188.980	5.3514	ppb	1.2244	22.9	-3.8823
B 249.678	303.101	ppb	0.8053	0.3	4231.95
Ba 389.178	617.521	ppb	0.7561	0.1	13148.1
Be 313.042	-0.0347	ppb	0.0046	13.1	-242.777
Ca 370.602	166759	ppb	481.3	0.3	397299
Cd 226.502	-0.0902	ppb	0.1156	128.2	29.2721
Co 228.615	-0.0718	ppb	0.1835	255.5	7.7812
Cr 267.716	-0.0168	ppb	0.1995	1185.8	9.3572
Cu 324.754	-0.2953	ppb	0.0962	32.6	122.786
Fe 271.441	3593.29	ppb	6.2000	0.2	6171.09
K 766.491	22021.9	ppb	15.0253	0.1	772129
Mg 279.078	37652.3	ppb	33.6019	0.1	79391.2
Mn 257.610	545.894	ppb	0.5625	0.1	136362
Mo 202.032	-0.2126	ppb	0.1881	88.5	9.8239
Na 330.237	87045.7	ppb	28.2216	0.0	4231.24
Ni 231.604	0.4245	ppb	0.8459	199.3	1.4326
Pb 220.353	-0.1853	ppb	1.5150	817.5	23.1971
Sb 206.834	-4.3368	ppb	1.2051	27.8	1.6624
Se 196.026	5.6009	ppb	3.6457	65.1	8.9531
Sn 189.925	0.1288	ppb	2.8283	2196.3	-12.7976
Sr 216.596	765.581	ppb	0.3735	0.0	8676.13
Ti 334.941	-0.2172	ppb	0.0421	19.4	48.7991
Tl 190.794	2.1249	ppb	1.9551	92.0	-13.9539
V 292.401	-0.1174	ppb	0.2173	185.0	-10.4951
Zn 206.200	1.1321	ppb	0.6975	61.6	744439

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90328-a-7-a (Samp) 5/22/2013, 1:00:10 AM Rack 3, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0335u	0.1018u	-0.1329u
Al 308.215	20.0308	19.4396	19.3815
As 188.980	-0.3508	12.8287	1.9457
B 249.678	355.806	355.076	356.376
Ba 389.178	1220.91	1213.37	1213.30
Be 313.042	-0.0202u	-0.0241u	-0.0214u
Ca 370.602	172502	171127	171334
Cd 226.502	-0.0920	-0.0979	0.0672
Co 228.615	-0.1115u	-0.1515u	-0.4236u
Cr 267.716	0.0057	0.1645	-0.1053
Cu 324.754	-0.3146u	-0.1850u	-0.1432u
Fe 271.441	12575.7	12513.1	12498.7
K 766.491	77131.0x	76962.9x	76722.1x
Mg 279.078	49852.1	49731.0	49675.1
Mn 257.610	765.350	762.421	761.416
Mo 202.032	0.1219	0.0065u	-0.0703u
Na 330.237	196752x	195662x	196749x
Ni 231.604	-0.0506	0.6370	-0.0811
Pb 220.353	-0.2184u	1.7112	-0.8802u
Sb 206.834	-0.8279u	4.0073	-5.2420u
Se 196.026	-0.1204	3.0285	-5.6503u
Sn 189.925	1.3515	-5.1207u	-0.5869u
Sr 216.596	823.347	821.600	820.588
Ti 334.941	-0.3691	-0.3882	-0.3630
Tl 190.794	4.4653	-2.4240u	3.6822
V 292.401	0.3839	0.6909	0.6978
Zn 206.200	1.3309	-0.6718	0.9144

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0215b	ppb	0.1178	547.5	-83.3807
Al 308.215	19.6173b	ppb	0.3593	1.8	313.546
As 188.980	4.8079b	ppb	7.0405	146.4	-3.9652
B 249.678	355.753b	ppb	0.6514	0.2	4902.10
Ba 389.178	1215.86b	ppb	4.3734	0.4	25838.9
Be 313.042	-0.0219b	ppb	0.0020	9.3	-232.824
Ca 370.602	171654b	ppb	741.7	0.4	408427
Cd 226.502	-0.0409b	ppb	0.0937	229.0	58.7421
Co 228.615	-0.2289b	ppb	0.1698	74.2	5.5305
Cr 267.716	0.0216b	ppb	0.1356	627.5	16.1984
Cu 324.754	-0.2143b	ppb	0.0894	41.7	130.132
Fe 271.441	12529.2b	ppb	40.9132	0.3	21463.8
K 766.491	76938.7xb	ppb	205.535	0.3	2696982
Mg 279.078	49752.7b	ppb	90.4618	0.2	104895
Mn 257.610	763.062b	ppb	2.0437	0.3	190598
Mo 202.032	0.0194b	ppb	0.0967	498.9	11.1208
Na 330.237	196388xb	ppb	628.416	0.3	9485.71
Ni 231.604	0.1684b	ppb	0.4061	241.1	0.9076
Pb 220.353	0.2042b	ppb	1.3464	659.3	23.9407
Sb 206.834	-0.6876b	ppb	4.6262	672.9	5.8194
Se 196.026	-0.9141b	ppb	4.3935	480.7	5.8248
Sn 189.925	-1.4520b	ppb	3.3217	228.8	-14.1573
Sr 216.596	821.845b	ppb	1.3956	0.2	9315.27
Ti 334.941	-0.3735b	ppb	0.0132	3.5	52.7284
Tl 190.794	1.9078b	ppb	3.7719	197.7	-14.9159
V 292.401	0.5908b	ppb	0.1793	30.3	7.4946
Zn 206.200	0.5245b	ppb	1.0568	201.5	744575

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90328-a-8-a (Samp) 5/22/2013, 1:05:37 AM Rack 3, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3706u	-0.1331u	0.0029u
Al 308.215	11.5797	9.0946	9.0680
As 188.980	0.9851	3.2337	7.5594
B 249.678	354.995	355.673	356.651
Ba 389.178	1207.17	1201.07	1196.69
Be 313.042	-0.0154	-0.0179u	-0.0144
Ca 370.602	171301	171350	169245
Cd 226.502	0.0185	-0.0896	0.0645
Co 228.615	-0.2607u	-0.6576u	-0.0125u
Cr 267.716	0.1704	-0.0332	-0.0638
Cu 324.754	-0.1749u	-0.0626	0.2144
Fe 271.441	12465.5	12388.1	12357.1
K 766.491	76439.2x	76265.2x	76010.2x
Mg 279.078	49554.8	49367.6	49288.0
Mn 257.610	761.963	757.862	755.421
Mo 202.032	-0.5720u	-0.4291u	-0.0262u
Na 330.237	196788x	194464x	194438x
Ni 231.604	0.8320	1.7450	2.4734
Pb 220.353	0.3536	-0.8860u	0.1161
Sb 206.834	-2.9750u	-4.9110u	0.4487
Se 196.026	1.6488	5.2336	7.6699
Sn 189.925	3.4581	-4.7756u	-1.2039u
Sr 216.596	815.591	810.250	809.219
Ti 334.941	-0.3655	-0.3720	-0.3720
Tl 190.794	-1.6152u	0.1899u	-0.3740u
V 292.401	-0.2433u	0.0979	0.3443
Zn 206.200	0.2825	0.5542	0.7731

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0802b	ppb	0.2606	325.1	-75.1763
Al 308.215	9.9141b	ppb	1.4425	14.5	252.137
As 188.980	3.9261b	ppb	3.3414	85.1	-4.4980
B 249.678	355.773b	ppb	0.8329	0.2	4902.52
Ba 389.178	1201.65b	ppb	5.2610	0.4	25537.2
Be 313.042	-0.0159b	ppb	0.0018	11.5	-221.708
Ca 370.602	170632b	ppb	1202	0.7	405998
Cd 226.502	-0.0022b	ppb	0.0791	3589.8	59.7803
Co 228.615	-0.3103b	ppb	0.3254	104.9	4.5328
Cr 267.716	0.0245b	ppb	0.1273	520.2	16.2693
Cu 324.754	-0.0077b	ppb	0.2004	2597.9	141.419
Fe 271.441	12403.6b	ppb	55.8059	0.4	21248.8
K 766.491	76238.2xb	ppb	215.757	0.3	2672431
Mg 279.078	49403.5b	ppb	136.972	0.3	104159
Mn 257.610	758.415b	ppb	3.3058	0.4	189436
Mo 202.032	-0.3424b	ppb	0.2830	82.6	8.3694
Na 330.237	195230xb	ppb	1349.73	0.7	9430.07
Ni 231.604	1.6835b	ppb	0.8225	48.9	5.1928
Pb 220.353	-0.1388b	ppb	0.6579	474.2	23.3297
Sb 206.834	-2.4791b	ppb	2.7141	109.5	3.8876
Se 196.026	4.8508b	ppb	3.0287	62.4	8.6853
Sn 189.925	-0.8405b	ppb	4.1289	491.2	-13.6164
Sr 216.596	811.686b	ppb	3.4204	0.4	9200.46
Ti 334.941	-0.3698b	ppb	0.0038	1.0	51.8900
Tl 190.794	-0.5998b	ppb	0.9235	154.0	-17.3269
V 292.401	0.0663b	ppb	0.2951	445.1	-6.2665
Zn 206.200	0.5366b	ppb	0.2458	45.8	744624

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90365-k-1-a (Samp) **5/22/2013, 1:11:04 AM** **Rack 3, Tube 41**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4643	0.3465	-0.2612u
Al 308.215	319.069	319.659	318.835
As 188.980	-1.3383u	5.8404	6.7606
B 249.678	181.217	181.136	180.773
Ba 389.178	57.1485	58.4895	58.0001
Be 313.042	0.0222	0.0311	0.0336
Ca 370.602	22061	22134	22202
Cd 226.502	1.4719	1.5111	1.4353
Co 228.615	68.6904	68.0070	68.8697
Cr 267.716	10.6663	10.8612	10.5889
Cu 324.754	621.100	618.186	617.732
Fe 271.441	12231.7	12224.5	12267.6
K 766.491	289048x	289321x	289967x
Mg 279.078	4664.15	4661.50	4680.61
Mn 257.610	165.809	166.057	166.756
Mo 202.032	12.3230	12.5146	12.5562
Na 330.237	162332x	161118x	161753x
Ni 231.604	14.8441	13.8358	13.5758
Pb 220.353	159.718	154.981	156.246
Sb 206.834	9.8926	14.1635	9.5696
Se 196.026	10.0201	6.6087	5.3696
Sn 189.925	19.6397	19.0853	15.9944
Sr 216.596	147.162	145.927	146.227
Ti 334.941	9.3457	8.5437	9.1154
Tl 190.794	-0.0966u	-0.5489u	-2.2365u
V 292.401	4.2515	3.9683	3.9340
Zn 206.200	399.771	401.159	401.550

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1832b	ppb	0.3893	212.5	-38.1962
Al 308.215	319.188b	ppb	0.4247	0.1	2208.94
As 188.980	3.7542b	ppb	4.4342	118.1	-4.6088
B 249.678	181.042b	ppb	0.2360	0.1	2641.41
Ba 389.178	57.8794b	ppb	0.6786	1.2	1248.84
Be 313.042	0.0290b	ppb	0.0060	20.7	-196.820
Ca 370.602	22132b	ppb	70.82	0.3	52029
Cd 226.502	1.4728b	ppb	0.0379	2.6	113.518
Co 228.615	68.5224b	ppb	0.4552	0.7	862.854
Cr 267.716	10.7055b	ppb	0.1403	1.3	533.614
Cu 324.754	619.006b	ppb	1.8275	0.3	34105.3
Fe 271.441	12241.3b	ppb	23.0981	0.2	20981.9
K 766.491	289446xb	ppb	472.208	0.2	10145425
Mg 279.078	4668.75b	ppb	10.3532	0.2	9873.87
Mn 257.610	166.207b	ppb	0.4912	0.3	41504.1
Mo 202.032	12.4646b	ppb	0.1244	1.0	106.030
Na 330.237	161734xb	ppb	607.163	0.4	7816.85
Ni 231.604	14.0852b	ppb	0.6699	4.8	40.2914
Pb 220.353	156.982b	ppb	2.4528	1.6	302.704
Sb 206.834	11.2086b	ppb	2.5641	22.9	18.5866
Se 196.026	7.3328b	ppb	2.4083	32.8	9.7692
Sn 189.925	18.2398b	ppb	1.9642	10.8	3.2120
Sr 216.596	146.439b	ppb	0.6444	0.4	1677.48
Ti 334.941	9.0016b	ppb	0.4129	4.6	2488.66
Tl 190.794	-0.9607b	ppb	1.1278	117.4	-16.7930
V 292.401	4.0513b	ppb	0.1743	4.3	95.6434
Zn 206.200	400.826b	ppb	0.9348	0.2	592.227

680-90395-b-1-a (Samp) 5/22/2013, 1:16:32 AM Rack 3, Tube 42
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1373u	0.0214u	-0.1209u
Al 308.215	5.2562	7.0024	7.5448
As 188.980	0.2692	0.0869	0.3266
B 249.678	257.445	257.038	257.522
Ba 389.178	161.391	160.727	162.911
Be 313.042	-0.0229	-0.0303u	-0.0207
Ca 370.602	157322	157630	157936
Cd 226.502	0.0606	-0.2200	0.0207
Co 228.615	-0.3678u	-0.3586u	-0.5782u
Cr 267.716	2.7655	2.7228	2.9216
Cu 324.754	0.1862	-0.3642u	-0.0283
Fe 271.441	10678.4	10721.7	10713.1
K 766.491	14747.1	14771.2	14783.5
Mg 279.078	42441.5	42525.6	42409.8
Mn 257.610	587.926	588.929	588.846
Mo 202.032	0.3240	-0.4226u	-0.3538u
Na 330.237	83499.9	83502.9	83908.5
Ni 231.604	3.1111	4.5870	1.6288
Pb 220.353	0.1568	1.1674	-2.0565u
Sb 206.834	-2.2225u	-1.8201u	1.9426
Se 196.026	11.8286	7.7261	1.2192
Sn 189.925	0.1130	0.8687	-2.5241u
Sr 216.596	705.339	705.661	705.722
Ti 334.941	-0.3370	-0.4030	-0.3584
Tl 190.794	1.4378	-0.3161u	-0.0942u
V 292.401	-0.2478u	0.0392	-0.1097u
Zn 206.200	-0.2497	1.5077	1.9093

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0789	ppb	0.0873	110.6	-83.0270
Al 308.215	6.6011	ppb	1.1959	18.1	231.252
As 188.980	0.2276	ppb	0.1252	55.0	-6.7652
B 249.678	257.335	ppb	0.2603	0.1	3630.34
Ba 389.178	161.676	ppb	1.1198	0.7	3531.13
Be 313.042	-0.0246	ppb	0.0050	20.4	-226.593
Ca 370.602	157629	ppb	307.0	0.2	375104
Cd 226.502	-0.0463	ppb	0.1518	328.0	53.3261
Co 228.615	-0.4348	ppb	0.1242	28.6	2.9947
Cr 267.716	2.8033	ppb	0.1046	3.7	148.645
Cu 324.754	-0.0687	ppb	0.2774	403.5	137.528
Fe 271.441	10704.4	ppb	22.8826	0.2	18340.9
K 766.491	14767.3	ppb	18.5079	0.1	517853
Mg 279.078	42459.0	ppb	59.8557	0.1	89523.5
Mn 257.610	588.567	ppb	0.5566	0.1	147056
Mo 202.032	-0.1508	ppb	0.4126	273.6	9.9204
Na 330.237	83637.1	ppb	235.023	0.3	4065.37
Ni 231.604	3.1090	ppb	1.4791	47.6	9.1896
Pb 220.353	-0.2441	ppb	1.6489	675.6	23.1026
Sb 206.834	-0.7000	ppb	2.2974	328.2	5.7924
Se 196.026	6.9247	ppb	5.3499	77.3	9.6629
Sn 189.925	-0.5141	ppb	1.7812	346.5	-13.3731
Sr 216.596	705.574	ppb	0.2062	0.0	8001.05
Ti 334.941	-0.3661	ppb	0.0337	9.2	29.7052
Tl 190.794	0.3425	ppb	0.9550	278.8	-16.0906
V 292.401	-0.1061	ppb	0.1435	135.3	-10.2860
Zn 206.200	1.0558	ppb	1.1483	108.8	8.0431

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90395-a-2-a (Samp) 5/22/2013, 1:21:59 AM Rack 3, Tube 43

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0369u	0.0455u	0.2907u
Al 308.215	5.6104	4.6425	7.9085
As 188.980	6.5355	-0.4336	3.6440
B 249.678	253.119	255.545	254.074
Ba 389.178	158.413	158.905	158.428
Be 313.042	-0.0239u	-0.0242u	-0.0279u
Ca 370.602	155762	156048	155122
Cd 226.502	-0.0654	-0.1011	-0.0296
Co 228.615	-0.4504u	0.0340	-0.0437u
Cr 267.716	0.1731	0.1852	0.1108
Cu 324.754	-0.2446u	-0.1782u	-0.5700u
Fe 271.441	10531.9	10555.2	10500.2
K 766.491	14426.1	14440.3	14424.6
Mg 279.078	41904.7	41999.4	41844.0
Mn 257.610	581.040	582.690	579.645
Mo 202.032	0.0683u	0.7106	0.1512
Na 330.237	82566.5	82318.6	82379.1
Ni 231.604	4.3413	1.7339	3.3949
Pb 220.353	-0.8044u	-1.3276u	-3.3944u
Sb 206.834	0.4148	-7.7440u	-5.0420u
Se 196.026	2.7339	9.3001	2.0155
Sn 189.925	-0.5081u	-2.6926u	-2.4921u
Sr 216.596	695.037	696.650	693.788
Ti 334.941	-0.4103	-0.3498	-0.3694
Tl 190.794	2.1248	0.3630u	1.6836
V 292.401	0.2482	-0.0155u	0.0750
Zn 206.200	2.3642	2.0937	1.3389

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0998	ppb	0.1704	170.8	-68.9311
Al 308.215	6.0538	ppb	1.6775	27.7	227.808
As 188.980	3.2486	ppb	3.5013	107.8	-4.9561
B 249.678	254.246	ppb	1.2224	0.5	3590.59
Ba 389.178	158.582	ppb	0.2796	0.2	3464.21
Be 313.042	-0.0253	ppb	0.0023	9.0	-228.461
Ca 370.602	155644	ppb	473.8	0.3	370383
Cd 226.502	-0.0654	ppb	0.0357	54.6	52.0502
Co 228.615	-0.1534	ppb	0.2602	169.6	6.4855
Cr 267.716	0.1564	ppb	0.0399	25.5	19.5301
Cu 324.754	-0.3310	ppb	0.2097	63.4	123.094
Fe 271.441	10529.1	ppb	27.6379	0.3	18041.0
K 766.491	14430.3	ppb	8.6668	0.1	506043
Mg 279.078	41916.0	ppb	78.3272	0.2	88379.2
Mn 257.610	581.125	ppb	1.5242	0.3	145197
Mo 202.032	0.3100	ppb	0.3494	112.7	13.4435
Na 330.237	82421.4	ppb	129.244	0.2	4006.97
Ni 231.604	3.1567	ppb	1.3199	41.8	9.3207
Pb 220.353	-1.8421	ppb	1.3695	74.3	20.2568
Sb 206.834	-4.1237	ppb	4.1562	100.8	2.0570
Se 196.026	4.6832	ppb	4.0145	85.7	8.5470
Sn 189.925	-1.8976	ppb	1.2075	63.6	-14.6004
Sr 216.596	695.158	ppb	1.4350	0.2	7883.23
Ti 334.941	-0.3765	ppb	0.0309	8.2	24.4432
Tl 190.794	1.3905	ppb	0.9168	65.9	-15.0580
V 292.401	0.1026	ppb	0.1339	130.6	-4.7114
Zn 206.200	1.9323	ppb	0.5314	27.5	9.3152

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90395-b-4-a (Samp) 5/22/2013, 1:27:26 AM Rack 3, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0775u	0.3273u	-0.1693u
Al 308.215	8.9160	9.1149	6.4873
As 188.980	5.0131	0.4481	-0.5168
B 249.678	670.044	672.368	673.698
Ba 389.178	77.9039	78.4803	76.2957
Be 313.042	-0.0311u	-0.0362u	-0.0238
Ca 370.602	203213	202165	201781
Cd 226.502	-0.1543	-0.2407	-0.1977
Co 228.615	-0.3094u	-0.3310u	-0.9732u
Cr 267.716	-0.1040	-0.1183	-0.2097
Cu 324.754	-0.0787	-0.2382u	-0.1054
Fe 271.441	27539.2	27584.6	27545.3
K 766.491	16019.0	16022.1	16066.0
Mg 279.078	45939.8	45987.1	45918.0
Mn 257.610	846.604	848.891	846.906
Mo 202.032	-0.1948u	0.0173u	0.5567
Na 330.237	194139x	194621x	195868x
Ni 231.604	2.0711	4.1786	4.8678
Pb 220.353	1.3369	2.7251	2.4029
Sb 206.834	1.3039	-2.6137u	3.6469
Se 196.026	5.4881	3.1073	3.5509
Sn 189.925	0.9364	-0.8767u	2.6330
Sr 216.596	691.402	693.487	689.118
Ti 334.941	-0.3198	-0.3444	-0.2544
Tl 190.794	0.8640u	0.0059u	2.4206u
V 292.401	0.1845	0.0993	0.6531
Zn 206.200	1.6636	0.9270	0.7633

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0785b	ppb	0.2483	316.4	-69.3618
Al 308.215	8.1727b	ppb	1.4630	17.9	241.157
As 188.980	1.6481b	ppb	2.9538	179.2	-5.4534
B 249.678	672.036b	ppb	1.8492	0.3	8976.72
Ba 389.178	77.5600b	ppb	1.1322	1.5	1782.82
Be 313.042	-0.0304b	ppb	0.0063	20.6	-234.387
Ca 370.602	202386b	ppb	741.2	0.4	480768
Cd 226.502	-0.1976b	ppb	0.0432	21.9	100.068
Co 228.615	-0.5378b	ppb	0.3772	70.1	1.0753
Cr 267.716	-0.1440b	ppb	0.0573	39.8	12.0728
Cu 324.754	-0.1408b	ppb	0.0854	60.7	139.043
Fe 271.441	27556.4b	ppb	24.6044	0.1	47181.2
K 766.491	16035.7b	ppb	26.3029	0.2	562312
Mg 279.078	45948.3b	ppb	35.3063	0.1	96877.5
Mn 257.610	847.467b	ppb	1.2424	0.1	211636
Mo 202.032	0.1264b	ppb	0.3875	306.5	11.1467
Na 330.237	194876xb	ppb	892.168	0.5	9408.82
Ni 231.604	3.7058b	ppb	1.4570	39.3	11.2551
Pb 220.353	2.1550b	ppb	0.7265	33.7	27.4310
Sb 206.834	0.7791b	ppb	3.1631	406.0	7.7698
Se 196.026	4.0488b	ppb	1.2661	31.3	8.3984
Sn 189.925	0.8976b	ppb	1.7552	195.6	-12.0620
Sr 216.596	691.336b	ppb	2.1851	0.3	7852.46
Ti 334.941	-0.3062b	ppb	0.0465	15.2	56.0229
Tl 190.794	1.0968b	ppb	1.2241	111.6	-16.5644
V 292.401	0.3123b	ppb	0.2982	95.5	0.1174
Zn 206.200	1.1180b	ppb	0.4796	42.9	9.8438

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90395-a-5-a (Samp) **5/22/2013, 1:32:53 AM** **Rack 3, Tube 45**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0135u	0.0917u	0.1875u
Al 308.215	7.1038	6.5001	6.9943
As 188.980	5.1675	8.4700	4.7166
B 249.678	678.365	680.999	681.514
Ba 389.178	55.9638	56.5095	55.6437
Be 313.042	-0.0432u	-0.0466u	-0.0378u
Ca 370.602	202093	201700	201604
Cd 226.502	0.0476	0.0264	0.0924
Co 228.615	-0.0919u	-0.0674u	-0.0745u
Cr 267.716	0.1053	-0.2040u	-0.1139
Cu 324.754	-0.3482u	-0.6199u	-0.3607u
Fe 271.441	903.729	917.842	914.771
K 766.491	16272.1	16276.6	16247.8
Mg 279.078	46114.1	46123.1	46172.2
Mn 257.610	827.454	828.302	828.856
Mo 202.032	-0.5011u	-0.1604u	-0.7811u
Na 330.237	195166x	194901x	195741x
Ni 231.604	4.3529	3.7039	5.9846
Pb 220.353	3.4634	1.7235	-0.3886u
Sb 206.834	-5.4470u	1.7704	-4.2058u
Se 196.026	-6.9270u	-0.9385u	-0.6467u
Sn 189.925	-0.4304u	1.9280	2.7881
Sr 216.596	685.672	684.505	683.087
Ti 334.941	-0.3822	-0.4409	-0.4193
Tl 190.794	1.2292u	0.4717u	-0.3352u
V 292.401	-0.3837u	-0.3592u	-0.0440u
Zn 206.200	1.8530	2.3953	2.4364

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0886b	ppb	0.1005	113.5	-68.3157
Al 308.215	6.8660b	ppb	0.3216	4.7	232.843
As 188.980	6.1181b	ppb	2.0493	33.5	-3.4949
B 249.678	680.293b	ppb	1.6893	0.2	9117.94
Ba 389.178	56.0390b	ppb	0.4378	0.8	1293.80
Be 313.042	-0.0426b	ppb	0.0044	10.4	-256.791
Ca 370.602	201799b	ppb	259.3	0.1	480989
Cd 226.502	0.0554b	ppb	0.0337	60.7	25.7768
Co 228.615	-0.0779b	ppb	0.0126	16.2	7.8055
Cr 267.716	-0.0709b	ppb	0.1591	224.4	9.1878
Cu 324.754	-0.4429b	ppb	0.1534	34.6	113.811
Fe 271.441	912.114b	ppb	7.4221	0.8	1582.56
K 766.491	16265.5b	ppb	15.4967	0.1	570365
Mg 279.078	46136.5b	ppb	31.2656	0.1	97269.6
Mn 257.610	828.204b	ppb	0.7062	0.1	206760
Mo 202.032	-0.4809b	ppb	0.3108	64.6	7.9197
Na 330.237	195269xb	ppb	429.412	0.2	9435.18
Ni 231.604	4.6805b	ppb	1.1751	25.1	13.4188
Pb 220.353	1.5994b	ppb	1.9290	120.6	26.4385
Sb 206.834	-2.6275b	ppb	3.8589	146.9	3.4458
Se 196.026	-2.8374b	ppb	3.5447	124.9	4.8178
Sn 189.925	1.4286b	ppb	1.6664	116.6	-11.5907
Sr 216.596	684.421b	ppb	1.2946	0.2	7763.00
Ti 334.941	-0.4141b	ppb	0.0297	7.2	23.3855
Tl 190.794	0.4552b	ppb	0.7823	171.8	-15.8361
V 292.401	-0.2623b	ppb	0.1895	72.2	-14.9561
Zn 206.200	2.2282b	ppb	0.3256	14.6	8.7772

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90395-b-7-a (Samp) 5/22/2013, 1:38:20 AM Rack 3, Tube 46
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1102u	0.0025u	0.0772u
Al 308.215	6.1474	7.5306	10.1419
As 188.980	56.3016	46.8948	56.4776
B 249.678	488.226	487.192	488.422
Ba 389.178	424.835	423.452	422.661
Be 313.042	-0.0476u	-0.0524u	-0.0453u
Ca 370.602	253540	253647	253198
Cd 226.502	-0.5592	-0.0859	-0.0994
Co 228.615	-0.6550u	-0.0790u	-0.5891u
Cr 267.716	0.0733	-0.0395	0.0831
Cu 324.754	-0.4365u	-0.3745u	-0.2676u
Fe 271.441	9158.61	9140.76	9153.81
K 766.491	9860.94	9799.02	9793.43
Mg 279.078	41042.3	40954.1	41045.9
Mn 257.610	1017.22	1016.29	1016.76
Mo 202.032	0.0161u	0.5337	0.6023
Na 330.237	109961x	109108x	109713x
Ni 231.604	0.4037	1.6171	0.8441
Pb 220.353	0.9606	1.7488	0.1637
Sb 206.834	-0.5524u	-2.9159u	-1.2846u
Se 196.026	8.0855	-7.5537u	1.5727
Sn 189.925	0.2616	3.6148	1.4892
Sr 216.596	1604.80	1606.00	1607.48
Ti 334.941	-0.2097	-0.2465	-0.1739
Tl 190.794	3.1582	1.4499u	-0.4330u
V 292.401	0.2540	0.2275	0.5910
Zn 206.200	0.2169	1.5877	-0.2939

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0633b	ppb	0.0552	87.2	-112.110
Al 308.215	7.9400b	ppb	2.0284	25.5	239.881
As 188.980	53.2247b	ppb	5.4826	10.3	25.0161
B 249.678	487.947b	ppb	0.6607	0.1	6617.49
Ba 389.178	423.649b	ppb	1.1003	0.3	9064.36
Be 313.042	-0.0484b	ppb	0.0036	7.4	-240.048
Ca 370.602	253462b	ppb	234.7	0.1	603637
Cd 226.502	-0.2482b	ppb	0.2695	108.6	40.8044
Co 228.615	-0.4410b	ppb	0.3153	71.5	2.9428
Cr 267.716	0.0389b	ppb	0.0682	175.0	15.8608
Cu 324.754	-0.3595b	ppb	0.0855	23.8	121.078
Fe 271.441	9151.06b	ppb	9.2372	0.1	15682.5
K 766.491	9817.80b	ppb	37.4641	0.4	344372
Mg 279.078	41014.1b	ppb	51.9625	0.1	86470.8
Mn 257.610	1016.76b	ppb	0.4631	0.0	253716
Mo 202.032	0.3841b	ppb	0.3205	83.4	14.0800
Na 330.237	109594xb	ppb	438.844	0.4	5313.75
Ni 231.604	0.9550b	ppb	0.6143	64.3	3.0583
Pb 220.353	0.9577b	ppb	0.7926	82.8	25.3392
Sb 206.834	-1.5843b	ppb	1.2099	76.4	4.7638
Se 196.026	0.7015b	ppb	7.8559	1119.9	6.6703
Sn 189.925	1.7885b	ppb	1.6966	94.9	-11.2791
Sr 216.596	1606.09b	ppb	1.3403	0.1	18171.5
Ti 334.941	-0.2101b	ppb	0.0363	17.3	64.9039
Tl 190.794	1.3917b	ppb	1.7963	129.1	-15.6074
V 292.401	0.3575b	ppb	0.2027	56.7	1.7951
Zn 206.200	0.5036b	ppb	0.9730	193.2	7.40854

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90395-a-8-a (Samp) 5/22/2013, 1:43:47 AM Rack 3, Tube 47

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0131u	-0.0666u	0.0473u
Al 308.215	5.3036	7.3021	7.4924
As 188.980	53.1464	60.9040	52.6399
B 249.678	491.298	492.331	493.196
Ba 389.178	413.458	411.473	412.969
Be 313.042	-0.0376	-0.0476u	-0.0465u
Ca 370.602	255945	253982	255989
Cd 226.502	-0.0893	-0.1112	-0.1429
Co 228.615	-0.1914u	-0.0824u	-0.0137u
Cr 267.716	0.0470	0.0976	0.0823
Cu 324.754	-0.1825u	-0.4735u	-0.3112u
Fe 271.441	8767.60	8726.36	8760.70
K 766.491	9917.23	9862.05	9858.91
Mg 279.078	41499.1	41405.5	41514.1
Mn 257.610	1024.47	1021.05	1024.57
Mo 202.032	0.9559	0.3055	0.6002
Na 330.237	111260x	110467x	110806x
Ni 231.604	1.4320	1.8674	2.1259
Pb 220.353	-0.4457u	-0.3134u	0.4589
Sb 206.834	-0.2120u	-5.4768u	0.2428
Se 196.026	-1.2971u	5.0837	-5.8674u
Sn 189.925	-0.3976u	1.9988	1.5531
Sr 216.596	1621.86	1619.62	1624.37
Ti 334.941	-0.2110	-0.2812	-0.2062
Tl 190.794	2.5446	4.7938	-1.4692u
V 292.401	-0.0597u	0.0504	0.0887
Zn 206.200	1.7534	1.4158	0.6799

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0021b	ppb	0.0584	2805.1	-118.024
Al 308.215	6.6994b	ppb	1.2125	18.1	232.100
As 188.980	55.5634b	ppb	4.6320	8.3	26.4095
B 249.678	492.275b	ppb	0.9505	0.2	6674.03
Ba 389.178	412.633b	ppb	1.0338	0.3	8832.01
Be 313.042	-0.0439b	ppb	0.0055	12.5	-230.848
Ca 370.602	255305b	ppb	1146	0.4	608056
Cd 226.502	-0.1145b	ppb	0.0269	23.5	44.4841
Co 228.615	-0.0958b	ppb	0.0896	93.5	7.2548
Cr 267.716	0.0756b	ppb	0.0260	34.3	17.6043
Cu 324.754	-0.3224b	ppb	0.1458	45.2	122.995
Fe 271.441	8751.55b	ppb	22.0873	0.3	14998.9
K 766.491	9879.39b	ppb	32.8039	0.3	346531
Mg 279.078	41472.9b	ppb	58.8280	0.1	87437.7
Mn 257.610	1023.36b	ppb	2.0012	0.2	255364
Mo 202.032	0.6205b	ppb	0.3257	52.5	15.9051
Na 330.237	110844xb	ppb	398.128	0.4	5373.99
Ni 231.604	1.8085b	ppb	0.3507	19.4	5.4649
Pb 220.353	-0.1001b	ppb	0.4886	488.1	23.4583
Sb 206.834	-1.8154b	ppb	3.1791	175.1	4.5009
Se 196.026	-0.6936b	ppb	5.5005	793.1	5.9768
Sn 189.925	1.0514b	ppb	1.2745	121.2	-11.9307
Sr 216.596	1621.95b	ppb	2.3797	0.1	18350.4
Ti 334.941	-0.2328b	ppb	0.0420	18.0	60.3887
Tl 190.794	1.9564b	ppb	3.1727	162.2	-15.0512
V 292.401	0.0265b	ppb	0.0770	291.1	-6.9870
Zn 206.200	1.2830b	ppb	0.5489	42.8	81852

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90485-a-1-a (Samp) 5/22/2013, 1:49:14 AM Rack 3, Tube 48

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0589u	0.1581u	0.1295u
Al 308.215	30.8235	30.6637	32.5003
As 188.980	4.5429	-1.4442u	-1.9761u
B 249.678	434.067	433.776	435.812
Ba 389.178	99.4948	99.8394	101.006
Be 313.042	-0.0279u	-0.0280u	-0.0287u
Ca 370.602	138954	138799	138443
Cd 226.502	0.0224	0.0721	0.1946
Co 228.615	3.0719	2.9698	3.3643
Cr 267.716	0.0822	0.1324	0.0891
Cu 324.754	0.1730	0.4141	0.5407
Fe 271.441	133.660	137.912	136.175
K 766.491	33754.4	33760.1	33719.4
Mg 279.078	29075.7	29097.4	29099.5
Mn 257.610	674.018	674.577	673.984
Mo 202.032	0.7288	0.7095	0.9248
Na 330.237	34593.2	34714.6	34733.0
Ni 231.604	13.3808	13.0020	11.9479
Pb 220.353	-0.1405u	1.0898	1.1198
Sb 206.834	-3.2243u	-0.1929u	-5.0832u
Se 196.026	-1.8432u	-1.5623u	-3.6368u
Sn 189.925	0.5204	0.8327	2.2027
Sr 216.596	671.535	672.332	673.786
Ti 334.941	0.5545	0.5443	0.5938
Tl 190.794	0.6706u	2.2975	-2.6609u
V 292.401	0.4834	-0.1028u	0.2337
Zn 206.200	3.7499	4.2263	3.6597

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0762	ppb	0.1179	154.7	-69.0904
Al 308.215	31.3292	ppb	1.0174	3.2	387.671
As 188.980	0.3742	ppb	3.6200	967.4	-6.9656
B 249.678	434.551	ppb	1.1009	0.3	5937.99
Ba 389.178	100.113	ppb	0.7920	0.8	2184.07
Be 313.042	-0.0282	ppb	0.0005	1.6	-234.653
Ca 370.602	138732	ppb	262.0	0.2	330706
Cd 226.502	0.0964	ppb	0.0886	91.9	25.4857
Co 228.615	3.1353	ppb	0.2048	6.5	47.8924
Cr 267.716	0.1012	ppb	0.0272	26.9	13.9408
Cu 324.754	0.3759	ppb	0.1868	49.7	158.519
Fe 271.441	135.916	ppb	2.1383	1.6	254.687
K 766.491	33744.6	ppb	22.0353	0.1	1183015
Mg 279.078	29090.9	ppb	13.1713	0.0	61342.1
Mn 257.610	674.193	ppb	0.3329	0.0	168240
Mo 202.032	0.7877	ppb	0.1192	15.1	17.6330
Na 330.237	34680.3	ppb	75.9946	0.2	1714.56
Ni 231.604	12.7769	ppb	0.7425	5.8	36.3173
Pb 220.353	0.6897	ppb	0.7191	104.3	24.7810
Sb 206.834	-2.8335	ppb	2.4684	87.1	3.1869
Se 196.026	-2.3474	ppb	1.1254	47.9	5.0180
Sn 189.925	1.1853	ppb	0.8948	75.5	-11.8928
Sr 216.596	672.551	ppb	1.1413	0.2	7621.73
Ti 334.941	0.5642	ppb	0.0262	4.6	233.381
Tl 190.794	0.1024	ppb	2.5276	2468.5	-15.9177
V 292.401	0.2048	ppb	0.2941	143.6	-1.9059
Zn 206.200	3.8786	ppb	0.3045	6127.8	7941136

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90485-a-2-a (Samp) 5/22/2013, 2:05:36 AM Rack 3, Tube 51
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2520u	0.0095u	0.0516u
Al 308.215	6.6687	7.1647	5.7255
As 188.980	2.0245	0.8562	5.0769
B 249.678	418.469	420.329	418.108
Ba 389.178	95.8989	96.0618	94.4213
Be 313.042	-0.0270u	-0.0309u	-0.0274u
Ca 370.602	136224	135806	135176
Cd 226.502	-0.0144u	0.1680	0.0984
Co 228.615	2.4265	2.8885	2.9173
Cr 267.716	0.0100	0.0355	0.0904
Cu 324.754	0.4060	0.2415	0.4208
Fe 271.441	33.2225	33.4928	36.8859
K 766.491	32809.1	32808.6	32727.4
Mg 279.078	28496.0	28441.6	28235.7
Mn 257.610	655.229	654.241	650.224
Mo 202.032	0.7778	0.7437	0.6641
Na 330.237	33874.9	34189.6	33741.3
Ni 231.604	12.2432	11.7442	12.0747
Pb 220.353	-3.3767u	0.3565	-1.0457u
Sb 206.834	0.4403	1.6769	-1.9655u
Se 196.026	2.7941	2.5315	-6.0059u
Sn 189.925	1.4498	0.3684	-0.7072u
Sr 216.596	666.326	668.777	663.703
Ti 334.941	-0.1372	-0.1658	-0.1854
Tl 190.794	6.0709	2.5016	-0.8117u
V 292.401	0.3082	0.3114	0.3665
Zn 206.200	8.0258	8.6208	7.7971

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1043	ppb	0.1296	124.2	-66.5627
Al 308.215	6.5196	ppb	0.7311	11.2	230.813
As 188.980	2.6525	ppb	2.1793	82.2	-5.6003
B 249.678	418.969	ppb	1.1920	0.3	5736.41
Ba 389.178	95.4607	ppb	0.9038	0.9	2083.95
Be 313.042	-0.0284	ppb	0.0021	7.5	-236.159
Ca 370.602	135736	ppb	527.7	0.4	323569
Cd 226.502	0.0840	ppb	0.0921	109.6	24.6970
Co 228.615	2.7441	ppb	0.2754	10.0	42.9990
Cr 267.716	0.0453	ppb	0.0411	90.7	11.0816
Cu 324.754	0.3561	ppb	0.0996	28.0	157.394
Fe 271.441	34.5337	ppb	2.0415	5.9	81.1244
K 766.491	32781.7	ppb	46.9882	0.1	1149264
Mg 279.078	28391.1	ppb	137.308	0.5	59867.3
Mn 257.610	653.232	ppb	2.6507	0.4	163011
Mo 202.032	0.7285	ppb	0.0584	8.0	17.1872
Na 330.237	33935.3	ppb	230.143	0.7	1678.74
Ni 231.604	12.0207	ppb	0.2539	2.1	34.1746
Pb 220.353	-1.3553	ppb	1.8858	139.1	21.1378
Sb 206.834	0.0506	ppb	1.8522	3660.6	6.2978
Se 196.026	-0.2268	ppb	5.0066	2207.8	6.0651
Sn 189.925	0.3703	ppb	1.0785	291.2	-12.6167
Sr 216.596	666.269	ppb	2.5376	0.4	7550.47
Ti 334.941	-0.1628	ppb	0.0242	14.9	25.8406
Tl 190.794	2.5869	ppb	3.4421	133.1	-13.4813
V 292.401	0.3287	ppb	0.0328	10.0	1.3636
Zn 206.200	8.1479	ppb	0.4252	5.2	17.3512

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680-90485-a-3-a (Samp) 5/22/2013, 2:11:03 AM Rack 3, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2626u	0.3203	0.0703u
Al 308.215	32.3799	31.8414	31.4177
As 188.980	8.9921	5.3553	6.1192
B 249.678	625.691	628.606	632.721
Ba 389.178	139.632	139.612	138.714
Be 313.042	-0.0270	-0.0295u	-0.0342u
Ca 370.602	170694	170232	170567
Cd 226.502	-0.1483	-0.4290	-0.3644
Co 228.615	-0.5619u	-0.5339u	-0.3000u
Cr 267.716	0.1230	0.2317	-0.0509
Cu 324.754	-0.2382u	-0.2233u	-0.3319u
Fe 271.441	19750.9	19730.4	19801.9
K 766.491	13115.2	13121.2	13158.4
Mg 279.078	34625.5	34599.7	34671.6
Mn 257.610	1174.47	1175.53	1177.42
Mo 202.032	0.7564	0.4483	-0.4631u
Na 330.237	47782.6	47688.7	47725.0
Ni 231.604	1.0399	2.1056	1.5466
Pb 220.353	-0.0535	1.3497	0.8263
Sb 206.834	-1.2818u	-3.5189u	3.7593
Se 196.026	2.9991	0.2844	5.2267
Sn 189.925	0.8109	2.2740	-2.0524u
Sr 216.596	619.201	617.899	620.205
Ti 334.941	0.5173	0.5327	0.5442
Tl 190.794	0.7330u	3.0035	2.2139u
V 292.401	-0.0609u	0.1860	-0.1806u
Zn 206.200	-1.0151	-1.6524u	-0.1803

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0427	ppb	0.2924	685.5	-66.8613
Al 308.215	31.8797	ppb	0.4823	1.5	391.048
As 188.980	6.8222	ppb	1.9177	28.1	-2.5587
B 249.678	629.006	ppb	3.5317	0.6	8429.75
Ba 389.178	139.319	ppb	0.5248	0.4	3051.58
Be 313.042	-0.0302	ppb	0.0037	12.1	-228.689
Ca 370.602	170498	ppb	238.5	0.1	405239
Cd 226.502	-0.3139	ppb	0.1470	46.8	71.9319
Co 228.615	-0.4653	ppb	0.1438	30.9	2.2799
Cr 267.716	0.1013	ppb	0.1425	140.7	21.0767
Cu 324.754	-0.2645	ppb	0.0589	22.3	129.736
Fe 271.441	19761.1	ppb	36.8289	0.2	33840.4
K 766.491	13131.6	ppb	23.4092	0.2	460522
Mg 279.078	34632.3	ppb	36.4601	0.1	73018.1
Mn 257.610	1175.81	ppb	1.4973	0.1	293314
Mo 202.032	0.2472	ppb	0.6341	256.5	12.4786
Na 330.237	47732.1	ppb	47.3459	0.1	2336.60
Ni 231.604	1.5640	ppb	0.5330	34.1	5.0190
Pb 220.353	0.7075	ppb	0.7091	100.2	24.9314
Sb 206.834	-0.3471	ppb	3.7280	1073.9	6.3628
Se 196.026	2.8367	ppb	2.4751	87.3	7.8323
Sn 189.925	0.3442	ppb	2.2006	639.4	-12.6199
Sr 216.596	619.102	ppb	1.1562	0.2	7030.66
Ti 334.941	0.5314	ppb	0.0135	2.5	250.599
Tl 190.794	1.9835	ppb	1.1526	58.1	-15.7869
V 292.401	-0.0185	ppb	0.1869	1012.7	-7.7027
Zn 206.200	-0.9493	ppb	0.7383	77.8	6.0308

680-90485-a-3-aSD^5 (Samp) 5/22/2013, 2:16:30 AM Rack 3, Tube 53
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1274u	0.0112u	0.2494
Al 308.215	7.3608	6.0536	7.0311
As 188.980	0.8600	6.5231	6.9812
B 249.678	134.365	132.561	129.813
Ba 389.178	27.3495	27.9376	26.7389
Be 313.042	-0.0054	-0.0065u	-0.0042
Ca 370.602	35729	34994	34613
Cd 226.502	0.0560	-0.0335	0.1418
Co 228.615	0.0483	-0.2684u	-0.2248u
Cr 267.716	-0.0005	-0.1098u	-0.1013u
Cu 324.754	-0.2065u	0.1215	-0.4802u
Fe 271.441	4237.54	4130.63	4092.39
K 766.491	2353.55	2322.78	2301.79
Mg 279.078	7256.20	7093.03	7014.10
Mn 257.610	252.181	247.086	243.901
Mo 202.032	-0.2088u	-0.0956u	0.2501
Na 330.237	9249.25	9059.91	9227.91
Ni 231.604	-0.0789u	1.5285	0.5630
Pb 220.353	-3.6478u	0.2241	-2.1656u
Sb 206.834	-1.0052u	-4.6349u	-4.4722u
Se 196.026	-0.3115u	0.9281	-1.2345u
Sn 189.925	-1.9936u	1.2751	0.9986
Sr 216.596	131.509	128.596	127.192
Ti 334.941	0.2041	0.1520	0.0709
Tl 190.794	-1.2999u	1.9431	1.6640
V 292.401	-0.2830u	-0.3922u	-0.3549u
Zn 206.200	1.7444	-0.1766	-0.2497

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0444	ppb	0.1906	429.3	-47.7725
Al 308.215	6.8152	ppb	0.6798	10.0	232.520
As 188.980	4.7881	ppb	3.4095	71.2	-4.2054
B 249.678	132.246	ppb	2.2923	1.7	2019.56
Ba 389.178	27.3420	ppb	0.5994	2.2	598.475
Be 313.042	-0.0054	ppb	0.0011	21.2	-223.436
Ca 370.602	35112	ppb	567.3	1.6	83461
Cd 226.502	0.0548	ppb	0.0877	160.0	36.4175
Co 228.615	-0.1483	ppb	0.1716	115.7	6.7819
Cr 267.716	-0.0705	ppb	0.0608	86.2	4.2174
Cu 324.754	-0.1884	ppb	0.3012	159.9	128.842
Fe 271.441	4153.52	ppb	75.2359	1.8	7129.85
K 766.491	2326.04	ppb	26.0329	1.1	81782.7
Mg 279.078	7121.11	ppb	123.468	1.7	15040.4
Mn 257.610	247.723	ppb	4.1767	1.7	61810.7
Mo 202.032	-0.0181	ppb	0.2390	1319.2	11.2780
Na 330.237	9179.03	ppb	103.705	1.1	487.408
Ni 231.604	0.6709	ppb	0.8091	120.6	2.1424
Pb 220.353	-1.8631	ppb	1.9536	104.9	20.1424
Sb 206.834	-3.3707	ppb	2.0503	60.8	2.7158
Se 196.026	-0.2060	ppb	1.0852	526.8	5.9986
Sn 189.925	0.0934	ppb	1.8126	1941.4	-12.9175
Sr 216.596	129.099	ppb	2.2020	1.7	1480.53
Ti 334.941	0.1424	ppb	0.0671	47.1	17.7978
Tl 190.794	0.7691	ppb	1.7972	233.7	-14.8672
V 292.401	-0.3434	ppb	0.0555	16.2	-16.2733
Zn 206.200	0.4393	ppb	1.1308	257.4	644867

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90485-a-3-aPDS (Samp) 5/22/2013, 2:22:08 AM Rack 3, Tube 54**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	45.5515	44.5416	45.4997
Al 308.215	1859.44	1803.56	1855.26
As 188.980	2077.79	1998.78	2079.96
B 249.678	1519.38	1488.36	1530.61
Ba 389.178	1900.41	1848.30	1898.83
Be 313.042	45.7036	44.4165	45.6843
Ca 370.602	173161	170355	173598
Cd 226.502	44.2896	42.9442	44.4998
Co 228.615	447.422	436.938	450.328
Cr 267.716	176.779	171.610	176.521
Cu 324.754	229.690	224.731	230.647
Fe 271.441	20662.6	20074.3	20663.0
K 766.491	17967.3	17573.0	17976.8
Mg 279.078	39367.4	38237.0	39274.4
Mn 257.610	1637.96	1595.23	1637.02
Mo 202.032	449.035	437.161	449.812
Na 330.237	53011.6	51590.8	53108.0
Ni 231.604	445.472	430.689	442.094
Pb 220.353	451.943	437.005	452.117
Sb 206.834	474.786	462.151	476.828
Se 196.026	1906.12	1854.33	1899.83
Sn 189.925	884.622	859.851	885.247
Sr 216.596	1042.69	1015.38	1044.86
Ti 334.941	852.095	827.976	852.509
Tl 190.794	1850.89	1802.63	1844.86
V 292.401	442.869	431.416	443.091
Zn 206.200	435.196	420.370	434.300

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	45.1976	ppb	0.5687	1.3	3384.48
Al 308.215	1839.42	ppb	31.1252	1.7	11862.8
As 188.980	2052.18	ppb	46.2582	2.3	1225.55
B 249.678	1512.79	ppb	21.8827	1.4	19868.9
Ba 389.178	1882.51	ppb	29.6428	1.6	39920.8
Be 313.042	45.2681	ppb	0.7376	1.6	84451.5
Ca 370.602	172371	ppb	1759	1.0	409789
Cd 226.502	43.9112	ppb	0.8440	1.9	1711.69
Co 228.615	444.896	ppb	7.0435	1.6	5563.37
Cr 267.716	174.970	ppb	2.9123	1.7	8543.60
Cu 324.754	228.356	ppb	3.1759	1.4	12682.4
Fe 271.441	20466.6	ppb	339.798	1.7	35120.7
K 766.491	17839.0	ppb	230.439	1.3	625517
Mg 279.078	38959.6	ppb	627.487	1.6	82131.9
Mn 257.610	1623.40	ppb	24.4017	1.5	404864
Mo 202.032	445.336	ppb	7.0905	1.6	3405.59
Na 330.237	52570.1	ppb	849.465	1.6	2559.90
Ni 231.604	439.418	ppb	7.7460	1.8	1244.33
Pb 220.353	447.022	ppb	8.6752	1.9	817.888
Sb 206.834	471.255	ppb	7.9499	1.7	511.357
Se 196.026	1886.76	ppb	28.2626	1.5	943.388
Sn 189.925	876.573	ppb	14.4858	1.7	763.872
Sr 216.596	1034.31	ppb	16.4277	1.6	11691.3
Ti 334.941	844.193	ppb	14.0465	1.7	237610
Tl 190.794	1832.79	ppb	26.2934	1.4	1753.34
V 292.401	439.125	ppb	6.6775	1.5	11492.4
Zn 206.200	429.955	ppb	8.3134	1.9	636.220

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90485-a-3-b ms (Samp) 5/22/2013, 2:27:36 AM Rack 3, Tube 55**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.5252	51.1147	50.1890
Al 308.215	5141.18	5157.09	5152.23
As 188.980	122.516	120.327	121.812
B 249.678	853.669	855.929	859.513
Ba 389.178	236.825	234.870	236.019
Be 313.042	49.9312	49.9035	49.8327
Ca 370.602	177175	177771	178420
Cd 226.502	48.7913	48.7891	48.6644
Co 228.615	47.6484	48.2916	47.9251
Cr 267.716	96.6389	96.6289	96.3650
Cu 324.754	99.3106	99.7527	100.427
Fe 271.441	24804.4	24851.3	24839.9
K 766.491	18724.1	18730.3	18804.2
Mg 279.078	40328.4	39864.1	39857.5
Mn 257.610	1692.79	1697.84	1699.36
Mo 202.032	98.5626	98.0301	98.9792
Na 330.237	54487.2	54386.5	54367.3
Ni 231.604	97.0235	94.1468	96.5004
Pb 220.353	48.5736	49.3558	46.5773
Sb 206.834	55.0122	46.9493	55.9772
Se 196.026	103.760	102.932	103.612
Sn 189.925	194.676	192.889	192.053
Sr 216.596	714.946	715.509	713.327
Ti 334.941	95.7216	95.8864	95.7929
Tl 190.794	47.4856	42.3022	40.6898
V 292.401	97.0379	97.4549	97.6865
Zn 206.200	98.7373	95.1101	95.5040

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.2763	ppb	0.7983	1.6	3787.22
Al 308.215	5150.17	ppb	8.1561	0.2	32747.1
As 188.980	121.552	ppb	1.1173	0.9	66.4474
B 249.678	856.370	ppb	2.9469	0.3	11366.3
Ba 389.178	235.904	ppb	0.9826	0.4	5113.56
Be 313.042	49.8891	ppb	0.0508	0.1	93167.7
Ca 370.602	177788	ppb	622.5	0.4	422334
Cd 226.502	48.7483	ppb	0.0727	0.1	1904.37
Co 228.615	47.9550	ppb	0.3226	0.7	605.201
Cr 267.716	96.5443	ppb	0.1554	0.2	4724.27
Cu 324.754	99.8301	ppb	0.5622	0.6	5625.20
Fe 271.441	24831.9	ppb	24.4187	0.1	42527.0
K 766.491	18752.9	ppb	44.6000	0.2	657549
Mg 279.078	40016.7	ppb	270.030	0.7	84358.8
Mn 257.610	1696.66	ppb	3.4401	0.2	423138
Mo 202.032	98.5239	ppb	0.4757	0.5	761.426
Na 330.237	54413.6	ppb	64.4376	0.1	2655.04
Ni 231.604	95.8903	ppb	1.5323	1.6	272.113
Pb 220.353	48.1689	ppb	1.4328	3.0	109.381
Sb 206.834	52.6462	ppb	4.9572	9.4	63.7339
Se 196.026	103.435	ppb	0.4412	0.4	57.9425
Sn 189.925	193.206	ppb	1.3399	0.7	158.294
Sr 216.596	714.594	ppb	1.1327	0.2	8105.71
Ti 334.941	95.8003	ppb	0.0827	0.1	27076.3
Tl 190.794	43.4925	ppb	3.5508	8.2	23.3716
V 292.401	97.3931	ppb	0.3286	0.3	2538.55
Zn 206.200	96.4505	ppb	1.9902	2.1	148.809

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90485-a-3-c msd (Samp) 5/22/2013, 2:33:03 AM Rack 3, Tube 56**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.6134	50.5287	49.7658
Al 308.215	5194.46	5205.46	5073.00
As 188.980	118.394	120.147	113.806
B 249.678	837.918	840.089	823.062
Ba 389.178	234.162	233.171	227.956
Be 313.042	50.2042	50.1986	48.9562
Ca 370.602	172637	173373	171554
Cd 226.502	48.8587	48.7069	47.5031
Co 228.615	48.2552	48.0689	46.9062
Cr 267.716	97.1782	97.1349	94.9345
Cu 324.754	100.169	100.666	98.0172
Fe 271.441	24463.2	24490.4	23869.9
K 766.491	18471.3	18517.4	18093.6
Mg 279.078	39493.2	39569.3	38725.8
Mn 257.610	1671.98	1672.51	1633.01
Mo 202.032	97.6783	98.7284	95.7243
Na 330.237	53054.8	53468.8	52183.9
Ni 231.604	98.6221	98.4537	93.6686
Pb 220.353	51.2681	51.5238	48.0787
Sb 206.834	53.0859	51.5383	49.0752
Se 196.026	102.347	97.4366	103.764
Sn 189.925	196.929	193.288	188.876
Sr 216.596	701.430	703.944	687.337
Ti 334.941	97.1145	96.9058	94.7196
Tl 190.794	42.8975	42.5111	39.8874
V 292.401	97.7360	97.9568	96.0805
Zn 206.200	92.1551	96.0374	94.6774

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.3027	ppb	0.4668	0.9	3789.84
Al 308.215	5157.64	ppb	73.5094	1.4	32794.2
As 188.980	117.449	ppb	3.2744	2.8	63.9690
B 249.678	833.690	ppb	9.2674	1.1	11073.5
Ba 389.178	231.763	ppb	3.3339	1.4	5023.43
Be 313.042	49.7863	ppb	0.7189	1.4	92974.0
Ca 370.602	172521	ppb	915.3	0.5	409812
Cd 226.502	48.3562	ppb	0.7427	1.5	1888.11
Co 228.615	47.7434	ppb	0.7310	1.5	602.635
Cr 267.716	96.4158	ppb	1.2831	1.3	4717.69
Cu 324.754	99.6174	ppb	1.4078	1.4	5613.32
Fe 271.441	24274.5	ppb	350.629	1.4	41573.1
K 766.491	18360.8	ppb	232.526	1.3	643805
Mg 279.078	39262.8	ppb	466.587	1.2	82770.1
Mn 257.610	1659.17	ppb	22.6519	1.4	413788
Mo 202.032	97.3770	ppb	1.5245	1.6	752.710
Na 330.237	52902.5	ppb	655.818	1.2	2582.56
Ni 231.604	96.9148	ppb	2.8125	2.9	275.000
Pb 220.353	50.2902	ppb	1.9195	3.8	113.148
Sb 206.834	51.2331	ppb	2.0227	3.9	62.2092
Se 196.026	101.183	ppb	3.3206	3.3	56.8118
Sn 189.925	193.031	ppb	4.0327	2.1	158.136
Sr 216.596	697.570	ppb	8.9510	1.3	7912.87
Ti 334.941	96.2466	ppb	1.3266	1.4	27198.4
Tl 190.794	41.7653	ppb	1.6378	3.9	21.7831
V 292.401	97.2578	ppb	1.0255	1.1	2535.21
Zn 206.200	94.2900	ppb	1.9699	2.1	145.591

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

mb 680-277361/1-a (Samp) **5/22/2013, 2:38:30 AM** **Rack 3, Tube 57**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2510	0.1688	0.7711
Al 308.215	0.1199	-0.0138u	1.1935
As 188.980	1.6305	1.6317	-0.5469u
B 249.678	14.6770	14.4967	12.3506
Ba 389.178	0.4013	0.4517	0.0389
Be 313.042	0.0186	0.0011	0.0119
Ca 370.602	19.69	18.86	31.01
Cd 226.502	0.0713	0.0114	-0.0202u
Co 228.615	0.2459	0.1379	0.3576
Cr 267.716	-0.0235u	0.0643	0.2707
Cu 324.754	0.2382	-0.2647u	0.1948
Fe 271.441	2.3140	2.6157	5.7383
K 766.491	3.5824	3.9509	5.2847
Mg 279.078	1.7647	5.8898	8.8736
Mn 257.610	0.2605	0.3604	0.3514
Mo 202.032	0.2499	0.1342	-0.4053u
Na 330.237	-178.303u	-189.240u	-192.709u
Ni 231.604	-0.5478u	-0.1724u	-0.3394u
Pb 220.353	-1.6522u	1.3755	-2.2988u
Sb 206.834	-1.4882u	-0.6819u	-0.0441u
Se 196.026	-0.1952u	-2.6944u	0.5532
Sn 189.925	0.6934	2.4861	-3.1197u
Sr 216.596	0.4353	-0.2315u	-0.1338u
Ti 334.941	0.0618	0.0305	0.0688
Tl 190.794	1.4414	2.7959	2.6987
V 292.401	0.2684	-0.0089u	0.0904
Zn 206.200	-0.4774u	-0.3858u	-0.7845u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3970	ppb	0.3266	82.3	-15.6754
Al 308.215	0.4332	ppb	0.6619	152.8	192.066
As 188.980	0.9051	ppb	1.2575	138.9	-6.6501
B 249.678	13.8414	ppb	1.2943	9.4	492.220
Ba 389.178	0.2973	ppb	0.2252	75.7	4.4346
Be 313.042	0.0105	ppb	0.0088	83.9	-204.623
Ca 370.602	23.19	ppb	6.790	29.3	69.54
Cd 226.502	0.0208	ppb	0.0465	222.9	22.0947
Co 228.615	0.2471	ppb	0.1099	44.5	11.8577
Cr 267.716	0.1038	ppb	0.1510	145.5	10.4685
Cu 324.754	0.0561	ppb	0.2787	496.9	140.904
Fe 271.441	3.5560	ppb	1.8959	53.3	27.7174
K 766.491	4.2727	ppb	0.8956	21.0	403.999
Mg 279.078	5.5094	ppb	3.5697	64.8	44.9303
Mn 257.610	0.3241	ppb	0.0553	17.0	101.018
Mo 202.032	-0.0071	ppb	0.3497	4927.2	11.5796
Na 330.237	-186.751	ppb	7.5187	4.0	38.2899
Ni 231.604	-0.3532	ppb	0.1881	53.3	-0.8488
Pb 220.353	-0.8585	ppb	1.9615	228.5	21.8721
Sb 206.834	-0.7381	ppb	0.7237	98.1	5.4575
Se 196.026	-0.7788	ppb	1.7006	218.4	5.6282
Sn 189.925	0.0199	ppb	2.8630	14369.4	-13.0020
Sr 216.596	0.0234	ppb	0.3601	1542.1	18.5702
Ti 334.941	0.0537	ppb	0.0204	38.1	-39.0357
Tl 190.794	2.3120	ppb	0.7555	32.7	-12.8181
V 292.401	0.1166	ppb	0.1405	120.5	-4.1750
Zn 206.200	-0.5492	ppb	0.2988	38.0	-4.6204

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

llcs 680-277361/2-a (Samp) 5/22/2013, 2:43:57 AM Rack 3, Tube 58
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.3594	10.5823	10.2099
Al 308.215	209.507	208.231	210.173
As 188.980	23.7242	23.7797	27.2448
B 249.678	103.130	101.993	102.940
Ba 389.178	10.2142	9.7783	10.6911
Be 313.042	4.1717	4.1421	4.1555
Ca 370.602	504.9	503.4	510.7
Cd 226.502	5.4110	5.2683	5.2620
Co 228.615	10.4646	10.9717	10.2357
Cr 267.716	10.3106	10.1501	10.3809
Cu 324.754	21.0400	19.8847	20.7909
Fe 271.441	55.3944	55.1014	54.3013
K 766.491	1079.48	1069.57	1080.52
Mg 279.078	526.532	518.521	523.880
Mn 257.610	10.9853	10.9243	10.9806
Mo 202.032	10.4699	9.7890	10.0968
Na 330.237	888.132	723.686	989.138
Ni 231.604	40.6301	40.0456	42.3392
Pb 220.353	7.5797	10.8130	10.8691
Sb 206.834	21.3388	22.9661	18.7854
Se 196.026	27.9151	20.0817	23.4576
Sn 189.925	51.2991	52.0207	50.7385
Sr 216.596	9.9791	9.8455	9.6619
Ti 334.941	10.0059	9.9802	10.0568
Tl 190.794	26.8619	28.5999	24.5418
V 292.401	10.7169	10.1288	10.3818
Zn 206.200	21.6371	19.2873	21.9053

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.3839	ppb	0.1874	1.8	750.508
Al 308.215	209.304	ppb	0.9869	0.5	1511.23
As 188.980	24.9162	ppb	2.0168	8.1	7.7669
B 249.678	102.687	ppb	0.6088	0.6	1642.22
Ba 389.178	10.2279	ppb	0.4566	4.5	215.756
Be 313.042	4.1564	ppb	0.0148	0.4	7551.66
Ca 370.602	506.3	ppb	3.894	0.8	1220
Cd 226.502	5.3138	ppb	0.0843	1.6	218.221
Co 228.615	10.5574	ppb	0.3766	3.6	140.335
Cr 267.716	10.2806	ppb	0.1183	1.2	506.444
Cu 324.754	20.5719	ppb	0.6080	3.0	1266.76
Fe 271.441	54.9324	ppb	0.5658	1.0	117.342
K 766.491	1076.52	ppb	6.0436	0.6	37986.8
Mg 279.078	522.978	ppb	4.0810	0.8	1135.46
Mn 257.610	10.9634	ppb	0.0339	0.3	2756.29
Mo 202.032	10.1185	ppb	0.3410	3.4	88.7694
Na 330.237	866.985	ppb	133.984	15.5	88.7153
Ni 231.604	41.0050	ppb	1.1919	2.9	116.211
Pb 220.353	9.7539	ppb	1.8832	19.3	40.7366
Sb 206.834	21.0301	ppb	2.1074	10.0	28.9624
Se 196.026	23.8181	ppb	3.9291	16.5	17.8444
Sn 189.925	51.3528	ppb	0.6428	1.3	32.4883
Sr 216.596	9.8288	ppb	0.1593	1.6	128.159
Ti 334.941	10.0143	ppb	0.0390	0.4	2765.37
Tl 190.794	26.6679	ppb	2.0360	7.6	10.7111
V 292.401	10.4091	ppb	0.2950	2.8	264.909
Zn 206.200	20.9432	ppb	1.4404	6.9	26.0500

ics 680-277361/3-a (Samp) 5/22/2013, 2:49:24 AM Rack 3, Tube 59
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	20.2263	20.1867	20.6241
Al 308.215	1983.58	1985.92	1993.84
As 188.980	44.5718	51.3068	46.7375
B 249.678	77.6979	76.7688	77.6422
Ba 389.178	39.5188	39.9603	39.9831
Be 313.042	20.2428	20.2822	20.3771
Ca 370.602	1920	1924	1922
Cd 226.502	20.6177	20.3792	20.3942
Co 228.615	20.1482	20.3672	20.7038
Cr 267.716	39.6598	39.7418	39.9599
Cu 324.754	40.3160	40.1384	40.4861
Fe 271.441	1956.15	1959.83	1970.70
K 766.491	2035.25	2039.46	2054.69
Mg 279.078	2021.36	2019.49	2025.89
Mn 257.610	206.816	207.249	207.904
Mo 202.032	38.9537	39.6328	39.8518
Na 330.237	1829.88	2016.36	1870.08
Ni 231.604	40.2328	40.2004	40.8782
Pb 220.353	17.4777	18.7770	19.9507
Sb 206.834	23.3629	22.0521	18.2679
Se 196.026	41.3864	46.1275	40.2542
Sn 189.925	80.2168	79.3808	81.1761
Sr 216.596	39.6640	38.9331	39.8613
Ti 334.941	38.9733	39.0420	39.1712
Tl 190.794	17.5777	18.4294	18.7056
V 292.401	40.0343	40.2893	40.5689
Zn 206.200	40.5556	39.6024	40.0646

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.3457	ppb	0.2419	1.2	1514.85
Al 308.215	1987.78	ppb	5.3765	0.3	12755.4
As 188.980	47.5387	ppb	3.4383	7.2	21.3958
B 249.678	77.3696	ppb	0.5211	0.7	1312.03
Ba 389.178	39.8207	ppb	0.2617	0.7	847.647
Be 313.042	20.3007	ppb	0.0690	0.3	37756.9
Ca 370.602	1922	ppb	2.193	0.1	4486
Cd 226.502	20.4637	ppb	0.1336	0.7	785.142
Co 228.615	20.4064	ppb	0.2799	1.4	262.914
Cr 267.716	39.7872	ppb	0.1551	0.4	1945.61
Cu 324.754	40.3135	ppb	0.1739	0.4	2351.11
Fe 271.441	1962.23	ppb	7.5611	0.4	3383.29
K 766.491	2043.13	ppb	10.2269	0.5	71866.8
Mg 279.078	2022.25	ppb	3.2904	0.2	4292.40
Mn 257.610	207.323	ppb	0.5478	0.3	51694.4
Mo 202.032	39.4794	ppb	0.4682	1.2	312.501
Na 330.237	1905.44	ppb	98.1391	5.2	137.764
Ni 231.604	40.4371	ppb	0.3823	0.9	114.648
Pb 220.353	18.7351	ppb	1.2370	6.6	56.7331
Sb 206.834	21.2276	ppb	2.6457	12.5	29.2458
Se 196.026	42.5894	ppb	3.1160	7.3	27.2251
Sn 189.925	80.2579	ppb	0.8983	1.1	58.1041
Sr 216.596	39.4861	ppb	0.4890	1.2	462.639
Ti 334.941	39.0622	ppb	0.1004	0.3	10944.2
Tl 190.794	18.2376	ppb	0.5879	3.2	2.1963
V 292.401	40.2975	ppb	0.2674	0.7	1046.32
Zn 206.200	40.0742	ppb	0.4767	1.2	641560

190-765-a-1-a (Samp) 5/22/2013, 2:54:51 AM Rack 3, Tube 60
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0156u	0.4920	0.4145
Al 308.215	70.9234	71.0429	72.3134
As 188.980	-0.7314u	2.9678	3.4041
B 249.678	51.8115	50.4130	50.7754
Ba 389.178	21.7468	22.9628	22.6944
Be 313.042	-0.0040	0.0068	-0.0010
Ca 370.602	37029	36917	37055
Cd 226.502	0.0887	-0.0197u	0.0662
Co 228.615	-0.5961u	-0.5640u	-0.4844u
Cr 267.716	0.4453	0.5913	0.3635
Cu 324.754	74.8653	73.5209	73.7819
Fe 271.441	25.0799	25.7290	25.4313
K 766.491	1798.12	1797.91	1809.55
Mg 279.078	8883.27	8845.83	8889.10
Mn 257.610	29.9308	29.8916	30.0939
Mo 202.032	1.3847	0.9013	1.5211
Na 330.237	26471.4	26444.8	26502.5
Ni 231.604	1.6460	2.0570	1.5077
Pb 220.353	3.9481	3.5949	3.1475
Sb 206.834	-0.7423u	-6.6812u	-0.0277u
Se 196.026	2.8289	1.8744	-3.3229u
Sn 189.925	4.0067	2.5252	3.8914
Sr 216.596	157.204	156.950	158.370
Ti 334.941	2.0953	2.1435	2.0996
Tl 190.794	0.4466	6.4189	2.0732
V 292.401	0.1624	0.3421	0.0583
Zn 206.200	32.0179	32.0496	31.7522

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3074	ppb	0.2556	83.2	-29.8889
Al 308.215	71.4266	ppb	0.7703	1.1	641.097
As 188.980	1.8802	ppb	2.2722	120.9	-6.0645
B 249.678	51.0000	ppb	0.7258	1.4	973.197
Ba 389.178	22.4680	ppb	0.6388	2.8	494.301
Be 313.042	0.0006	ppb	0.0056	934.6	-213.651
Ca 370.602	37001	ppb	73.28	0.2	88210
Cd 226.502	0.0451	ppb	0.0572	126.9	23.0219
Co 228.615	-0.5482	ppb	0.0575	10.5	1.9550
Cr 267.716	0.4667	ppb	0.1154	24.7	28.7540
Cu 324.754	74.0560	ppb	0.7129	1.0	4201.12
Fe 271.441	25.4134	ppb	0.3249	1.3	65.0069
K 766.491	1801.86	ppb	6.6577	0.4	63410.0
Mg 279.078	8872.73	ppb	23.4831	0.3	18735.3
Mn 257.610	29.9721	ppb	0.1073	0.4	7565.39
Mo 202.032	1.2690	ppb	0.3257	25.7	21.3096
Na 330.237	26472.9	ppb	28.8736	0.1	1319.79
Ni 231.604	1.7369	ppb	0.2857	16.4	5.0676
Pb 220.353	3.5635	ppb	0.4012	11.3	29.7453
Sb 206.834	-2.4837	ppb	3.6526	147.1	3.5586
Se 196.026	0.4601	ppb	3.3108	719.5	6.2509
Sn 189.925	3.4744	ppb	0.8241	23.7	-9.9142
Sr 216.596	157.508	ppb	0.7570	0.5	1799.43
Ti 334.941	2.1128	ppb	0.0267	1.3	578.362
Tl 190.794	2.9796	ppb	3.0876	103.6	-12.2172
V 292.401	0.1876	ppb	0.1436	76.5	-2.6227
Zn 206.200	31.9399	ppb	0.1633	0.5	521.680

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

190-765-a-1-aSD^5 (Samp) **5/22/2013, 3:11:14 AM** **Rack 4, Tube 3**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1907	0.4144	-0.1798u
Al 308.215	19.2066	17.8856	16.4266
As 188.980	3.2383	2.4437	2.0094
B 249.678	4.4504	3.8167	4.1152
Ba 389.178	5.0457	4.5689	5.0640
Be 313.042	0.0060	0.0037	0.0119
Ca 370.602	7662	7669	7655
Cd 226.502	-0.1115u	0.0731	0.0980
Co 228.615	-0.4120u	0.3007	-0.5367u
Cr 267.716	0.2747	0.0275	0.3194
Cu 324.754	15.0565	14.6541	14.9504
Fe 271.441	2.7776	7.2055	8.3126
K 766.491	342.509	342.183	339.589
Mg 279.078	1846.18	1846.93	1837.20
Mn 257.610	6.3231	6.3713	6.4202
Mo 202.032	0.1456	0.4067	0.6078
Na 330.237	5277.44	5126.49	5197.24
Ni 231.604	1.1920	0.0997	-0.3945u
Pb 220.353	1.6472	-1.4980u	-1.6712u
Sb 206.834	0.0075	-3.9726u	-2.5392u
Se 196.026	9.7890	2.7680	8.0416
Sn 189.925	-0.4731u	-0.0286u	-1.2458u
Sr 216.596	32.1676	32.5879	32.6492
Ti 334.941	0.5010	0.5140	0.5460
Tl 190.794	2.7869	-1.5343u	3.3260
V 292.401	0.2378	0.5137	0.3166
Zn 206.200	6.4682	7.6127	7.0164

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1418	ppb	0.3001	211.7	-36.7811
Al 308.215	17.8396	ppb	1.3906	7.8	302.226
As 188.980	2.5638	ppb	0.6232	24.3	-5.6541
B 249.678	4.1274	ppb	0.3171	7.7	366.472
Ba 389.178	4.8929	ppb	0.2807	5.7	105.979
Be 313.042	0.0072	ppb	0.0042	58.9	-208.857
Ca 370.602	7662	ppb	7.446	0.1	18278
Cd 226.502	0.0199	ppb	0.1144	576.3	22.0690
Co 228.615	-0.2160	ppb	0.4518	209.1	6.0830
Cr 267.716	0.2072	ppb	0.1572	75.9	15.6262
Cu 324.754	14.8870	ppb	0.2085	1.4	954.647
Fe 271.441	6.0986	ppb	2.9288	48.0	32.0042
K 766.491	341.427	ppb	1.6001	0.5	12221.4
Mg 279.078	1843.44	ppb	5.4149	0.3	3918.93
Mn 257.610	6.3715	ppb	0.0486	0.8	1623.83
Mo 202.032	0.3867	ppb	0.2317	59.9	14.5816
Na 330.237	5200.39	ppb	75.5262	1.5	297.236
Ni 231.604	0.2991	ppb	0.8118	271.4	0.9976
Pb 220.353	-0.5073	ppb	1.8679	368.2	22.4980
Sb 206.834	-2.1681	ppb	2.0159	93.0	3.9085
Se 196.026	6.8662	ppb	3.6551	53.2	9.4257
Sn 189.925	-0.5825	ppb	0.6159	105.7	-13.5304
Sr 216.596	32.4682	ppb	0.2622	0.8	385.455
Ti 334.941	0.5203	ppb	0.0232	4.5	100.155
Tl 190.794	1.5262	ppb	2.6642	174.6	-13.5868
V 292.401	0.3560	ppb	0.1421	39.9	2.0488
Zn 206.200	7.0324	ppb	0.5725	8.1	15.7161

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

190-765-a-1-aPDS (Samp) 5/22/2013, 3:16:42 AM Rack 4, Tube 4**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.1615	49.4048	49.5308
Al 308.215	2012.93	2016.85	2016.89
As 188.980	2253.48	2268.38	2254.76
B 249.678	974.132	980.645	985.557
Ba 389.178	1959.75	1964.89	1962.88
Be 313.042	49.1220	49.1420	49.0642
Ca 370.602	41686	41935	41995
Cd 226.502	49.9313	50.0096	49.7310
Co 228.615	502.309	503.791	503.918
Cr 267.716	196.299	197.408	196.527
Cu 324.754	315.886	321.888	319.848
Fe 271.441	983.610	984.964	990.552
K 766.491	7078.33	7080.00	7083.99
Mg 279.078	13764.9	13798.3	13773.1
Mn 257.610	534.373	536.003	536.185
Mo 202.032	476.772	479.286	481.068
Na 330.237	31803.3	31651.9	31640.6
Ni 231.604	497.303	494.507	492.544
Pb 220.353	506.009	503.640	502.935
Sb 206.834	511.231	507.761	516.849
Se 196.026	2053.04	2035.98	2055.63
Sn 189.925	947.955	960.645	954.658
Sr 216.596	629.036	629.524	630.104
Ti 334.941	911.542	912.474	912.159
Tl 190.794	2097.23	2086.52	2093.41
V 292.401	488.882	489.664	490.915
Zn 206.200	519.455	525.661	524.425

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.3657	ppb	0.1877	0.4	3719.19
Al 308.215	2015.56	ppb	2.2777	0.1	12979.1
As 188.980	2258.87	ppb	8.2556	0.4	1349.13
B 249.678	980.112	ppb	5.7312	0.6	12998.8
Ba 389.178	1962.51	ppb	2.5869	0.1	41527.3
Be 313.042	49.1094	ppb	0.0404	0.1	91590.8
Ca 370.602	41872	ppb	163.9	0.4	99899
Cd 226.502	49.8906	ppb	0.1437	0.3	1871.70
Co 228.615	503.339	ppb	0.8947	0.2	6293.55
Cr 267.716	196.744	ppb	0.5855	0.3	9594.69
Cu 324.754	319.207	ppb	3.0519	1.0	17661.3
Fe 271.441	986.376	ppb	3.6801	0.4	1791.96
K 766.491	7080.77	ppb	2.9089	0.0	248438
Mg 279.078	13778.8	ppb	17.4237	0.1	29068.1
Mn 257.610	535.520	ppb	0.9976	0.2	133559
Mo 202.032	479.042	ppb	2.1588	0.5	3663.54
Na 330.237	31698.6	ppb	90.8568	0.3	1560.75
Ni 231.604	494.785	ppb	2.3920	0.5	1400.60
Pb 220.353	504.195	ppb	1.6104	0.3	919.255
Sb 206.834	511.947	ppb	4.5859	0.9	554.588
Se 196.026	2048.21	ppb	10.6761	0.5	1023.17
Sn 189.925	954.419	ppb	6.3484	0.7	832.790
Sr 216.596	629.555	ppb	0.5348	0.1	7099.56
Ti 334.941	912.058	ppb	0.4739	0.1	256587
Tl 190.794	2092.39	ppb	5.4290	0.3	2006.80
V 292.401	489.821	ppb	1.0255	0.2	12822.6
Zn 206.200	523.180	ppb	3.2848	0.6	774.622

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

190-765-a-1-b ms (Samp) **5/22/2013, 3:22:10 AM** **Rack 4, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.1876	20.8845	21.2859
Al 308.215	2118.59	2125.72	2122.94
As 188.980	44.8840	52.4341	53.9509
B 249.678	142.502	142.374	141.614
Ba 389.178	62.1885	61.3946	60.7087
Be 313.042	20.7934	20.7970	20.7862
Ca 370.602	38888	39039	39163
Cd 226.502	20.5595	20.6849	20.6818
Co 228.615	20.5248	20.8764	19.9213
Cr 267.716	40.8147	41.0451	40.7729
Cu 324.754	115.737	114.600	116.176
Fe 271.441	2016.77	2011.97	2022.85
K 766.491	4030.69	4026.93	4033.33
Mg 279.078	11045.5	11082.7	11055.1
Mn 257.610	239.686	240.345	240.366
Mo 202.032	42.2147	41.9608	41.6263
Na 330.237	28984.4	28703.7	29011.1
Ni 231.604	42.0830	42.0003	40.8918
Pb 220.353	22.4635	22.5305	19.6218
Sb 206.834	19.0650	16.3764	16.1879
Se 196.026	45.2324	47.5190	39.0030
Sn 189.925	79.7823	84.6430	79.2199
Sr 216.596	200.150	199.971	199.724
Ti 334.941	41.7147	41.8020	41.6858
Tl 190.794	22.5234	19.3654	18.2661
V 292.401	40.9549	41.2065	41.7515
Zn 206.200	72.6191	73.0558	72.6681

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.1193	ppb	0.2093	1.0	1566.73
Al 308.215	2122.42	ppb	3.5935	0.2	13606.7
As 188.980	50.4230	ppb	4.8565	9.6	23.1286
B 249.678	142.164	ppb	0.4800	0.3	2150.69
Ba 389.178	61.4306	ppb	0.7405	1.2	1326.10
Be 313.042	20.7922	ppb	0.0055	0.0	38686.0
Ca 370.602	39030	ppb	137.7	0.4	92935
Cd 226.502	20.6421	ppb	0.0715	0.3	791.885
Co 228.615	20.4409	ppb	0.4831	2.4	263.337
Cr 267.716	40.8776	ppb	0.1466	0.4	1999.37
Cu 324.754	115.504	ppb	0.8131	0.7	6476.68
Fe 271.441	2017.20	ppb	5.4522	0.3	3477.38
K 766.491	4030.32	ppb	3.2160	0.1	141518
Mg 279.078	11061.1	ppb	19.2892	0.2	23344.5
Mn 257.610	240.132	ppb	0.3866	0.2	59947.9
Mo 202.032	41.9339	ppb	0.2951	0.7	331.212
Na 330.237	28899.8	ppb	170.285	0.6	1435.34
Ni 231.604	41.6584	ppb	0.6652	1.6	118.105
Pb 220.353	21.5386	ppb	1.6603	7.7	61.7262
Sb 206.834	17.2097	ppb	1.6094	9.4	24.8894
Se 196.026	43.9181	ppb	4.4075	10.0	27.8935
Sn 189.925	81.2151	ppb	2.9819	3.7	58.9791
Sr 216.596	199.948	ppb	0.2137	0.1	2277.12
Ti 334.941	41.7342	ppb	0.0605	0.1	11734.7
Tl 190.794	20.0516	ppb	2.2100	11.0	3.8994
V 292.401	41.3043	ppb	0.4072	1.0	1072.30
Zn 206.200	72.7810	ppb	0.2392	0.3	714.024

190-765-a-1-c msd (Samp) 5/22/2013, 3:27:38 AM Rack 4, Tube 6
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	21.0354	20.3983	21.1044
Al 308.215	2117.36	2120.26	2120.42
As 188.980	52.0284	52.2078	46.9397
B 249.678	132.992	131.315	133.065
Ba 389.178	62.1700	61.0332	61.7558
Be 313.042	20.7708	20.7644	20.7696
Ca 370.602	37797	37763	37798
Cd 226.502	20.6196	20.3857	20.7794
Co 228.615	19.8806	20.3701	20.7865
Cr 267.716	40.6281	41.4567	40.9086
Cu 324.754	113.532	113.350	112.335
Fe 271.441	2016.31	2007.43	2012.49
K 766.491	3969.92	3970.42	3955.44
Mg 279.078	10717.1	10739.3	10770.0
Mn 257.610	238.963	239.169	239.212
Mo 202.032	41.4761	41.5752	41.6878
Na 330.237	28078.1	27727.6	27705.2
Ni 231.604	42.1450	40.9248	40.9048
Pb 220.353	19.4464	24.4024	22.4323
Sb 206.834	25.5657	16.1614	25.0245
Se 196.026	51.4338	35.0686	45.2298
Sn 189.925	80.0397	78.7401	82.2733
Sr 216.596	194.133	194.038	194.016
Ti 334.941	41.5837	41.6922	41.5674
Tl 190.794	17.6331	20.3174	19.3662
V 292.401	41.0118	41.1387	41.0016
Zn 206.200	69.1180	70.0619	70.4049

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.8460	ppb	0.3893	1.9	1546.07
Al 308.215	2119.35	ppb	1.7217	0.1	13587.3
As 188.980	50.3920	ppb	2.9911	5.9	23.1099
B 249.678	132.457	ppb	0.9895	0.7	2025.06
Ba 389.178	61.6530	ppb	0.5753	0.9	1330.04
Be 313.042	20.7683	ppb	0.0034	0.0	38641.0
Ca 370.602	37786	ppb	19.58	0.1	89971
Cd 226.502	20.5949	ppb	0.1980	1.0	790.123
Co 228.615	20.3457	ppb	0.4534	2.2	262.161
Cr 267.716	40.9978	ppb	0.4214	1.0	2005.21
Cu 324.754	113.072	ppb	0.6451	0.6	6343.26
Fe 271.441	2012.08	ppb	4.4501	0.2	3468.60
K 766.491	3965.26	ppb	8.5031	0.2	139238
Mg 279.078	10742.1	ppb	26.5301	0.2	22672.2
Mn 257.610	239.115	ppb	0.1330	0.1	59691.7
Mo 202.032	41.5797	ppb	0.1060	0.3	328.512
Na 330.237	27837.0	ppb	209.096	0.8	1384.26
Ni 231.604	41.3248	ppb	0.7104	1.7	117.161
Pb 220.353	22.0937	ppb	2.4953	11.3	62.7141
Sb 206.834	22.2505	ppb	5.2803	23.7	30.3369
Se 196.026	43.9107	ppb	8.2620	18.8	27.8895
Sn 189.925	80.3510	ppb	1.7871	2.2	58.2124
Sr 216.596	194.062	ppb	0.0618	0.0	2210.58
Ti 334.941	41.6144	ppb	0.0678	0.2	11699.7
Tl 190.794	19.1055	ppb	1.3610	7.1	2.9867
V 292.401	41.0507	ppb	0.0764	0.2	1065.67
Zn 206.200	69.8616	ppb	0.6655	1.0	107.750

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

190-766-a-1-a (Samp) **5/22/2013, 3:33:06 AM** **Rack 4, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1749	0.1990	0.2743
Al 308.215	33.1505	32.1670	31.8299
As 188.980	0.0578	2.0115	4.9702
B 249.678	10.4130	10.0057	9.9002
Ba 389.178	13.3179	12.8107	12.6729
Be 313.042	0.0014	0.0007	-0.0074u
Ca 370.602	27160	27070	26947
Cd 226.502	0.0327	-0.1419u	-0.0094u
Co 228.615	-0.6375u	0.3905	-0.0721u
Cr 267.716	0.3831	0.1885	0.0838
Cu 324.754	32.4832	32.5437	33.2392
Fe 271.441	10.3470	8.0318	4.1692
K 766.491	1224.28	1224.01	1220.11
Mg 279.078	8199.46	8161.61	8137.49
Mn 257.610	0.2265	0.2274	0.2228
Mo 202.032	1.0012	0.7519	1.0256
Na 330.237	14295.4	14150.5	14094.2
Ni 231.604	0.3217	-1.1530u	0.2301
Pb 220.353	-0.5838u	0.1979	0.8729
Sb 206.834	0.0503	-3.1566u	-2.2703u
Se 196.026	-0.4979u	3.7728	-0.5284u
Sn 189.925	0.8634	1.1427	-0.1166u
Sr 216.596	101.374	99.3259	100.160
Ti 334.941	0.1996	0.0796	0.1367
Tl 190.794	3.0907	-1.4626u	0.8411
V 292.401	-0.0281u	0.4112	0.1640
Zn 206.200	10.2106	10.5055	11.0221

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2160	ppb	0.0518	24.0	-34.3878
Al 308.215	32.3825	ppb	0.6862	2.1	394.237
As 188.980	2.3465	ppb	2.4732	105.4	-5.7846
B 249.678	10.1063	ppb	0.2708	2.7	443.863
Ba 389.178	12.9338	ppb	0.3397	2.6	291.028
Be 313.042	-0.0018	ppb	0.0049	274.7	-220.126
Ca 370.602	27059	ppb	107.2	0.4	64512
Cd 226.502	-0.0395	ppb	0.0911	230.4	19.9106
Co 228.615	-0.1064	ppb	0.5148	483.9	7.4220
Cr 267.716	0.2185	ppb	0.1519	69.5	16.3072
Cu 324.754	32.7553	ppb	0.4201	1.3	1935.05
Fe 271.441	7.5160	ppb	3.1211	41.5	34.4429
K 766.491	1222.80	ppb	2.3350	0.2	43113.7
Mg 279.078	8166.19	ppb	31.2365	0.4	17246.5
Mn 257.610	0.2256	ppb	0.0025	1.1	148.294
Mo 202.032	0.9262	ppb	0.1514	16.3	18.6960
Na 330.237	14180.0	ppb	103.807	0.7	728.937
Ni 231.604	-0.2004	ppb	0.8263	412.3	-0.4161
Pb 220.353	0.1623	ppb	0.7290	449.0	23.6877
Sb 206.834	-1.7922	ppb	1.6560	92.4	4.3066
Se 196.026	0.9155	ppb	2.4746	270.3	6.4695
Sn 189.925	0.6298	ppb	0.6613	105.0	-12.4439
Sr 216.596	100.286	ppb	1.0297	1.0	1152.75
Ti 334.941	0.1386	ppb	0.0600	43.3	20.6835
Tl 190.794	0.8230	ppb	2.2767	276.6	-14.2584
V 292.401	0.1824	ppb	0.2202	120.7	-2.6295
Zn 206.200	10.5794	ppb	0.4108	3.9	20.9072

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

190-768-a-1-a (Samp) **5/22/2013, 3:38:34 AM** **Rack 4, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1471u	0.1176	0.1239
Al 308.215	19.4003	19.6906	20.9784
As 188.980	3.8094	2.2003	0.1935
B 249.678	6.3939	6.4234	6.6576
Ba 389.178	10.6068	11.6027	10.7313
Be 313.042	-0.0001	-0.0016	0.0038
Ca 370.602	26766	26779	26697
Cd 226.502	4.5004	4.4375	4.5352
Co 228.615	-0.1859u	0.0369	-0.1944u
Cr 267.716	0.0871	0.2802	0.0086
Cu 324.754	197.629	198.430	198.396
Fe 271.441	31.4525	32.4569	31.8152
K 766.491	1262.41	1262.79	1260.98
Mg 279.078	7806.72	7807.82	7802.19
Mn 257.610	4.2066	4.2549	4.2089
Mo 202.032	0.6407	0.8432	0.9445
Na 330.237	8356.90	8375.74	8182.52
Ni 231.604	-0.4543u	1.0891	0.2173
Pb 220.353	1.7861	1.9184	1.5172
Sb 206.834	-1.9271u	-3.9184u	-5.6372u
Se 196.026	-0.5578u	3.8790	-3.8819u
Sn 189.925	-0.1466u	-1.1904u	3.3384
Sr 216.596	99.5743	100.059	98.5064
Ti 334.941	0.0512	0.0379	0.0068
Tl 190.794	2.0619	-1.0619u	-3.5058u
V 292.401	-0.2960u	-0.1911u	0.2631
Zn 206.200	1142.85	1150.77	1153.66

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0315	ppb	0.1547	491.3	-48.4798
Al 308.215	20.0231	ppb	0.8400	4.2	316.139
As 188.980	2.0677	ppb	1.8116	87.6	-5.9515
B 249.678	6.4917	ppb	0.1445	2.2	397.049
Ba 389.178	10.9803	ppb	0.5426	4.9	248.902
Be 313.042	0.0007	ppb	0.0028	388.7	-214.804
Ca 370.602	26748	ppb	43.93	0.2	63769
Cd 226.502	4.4910	ppb	0.0495	1.1	187.737
Co 228.615	-0.1145	ppb	0.1312	114.6	7.3211
Cr 267.716	0.1253	ppb	0.1398	111.5	11.6250
Cu 324.754	198.152	ppb	0.4532	0.2	11009.9
Fe 271.441	31.9082	ppb	0.5086	1.6	76.1847
K 766.491	1262.06	ppb	0.9558	0.1	44489.9
Mg 279.078	7805.58	ppb	2.9866	0.0	16486.3
Mn 257.610	4.2235	ppb	0.0273	0.6	1141.27
Mo 202.032	0.8095	ppb	0.1547	19.1	17.8051
Na 330.237	8305.05	ppb	106.535	1.3	438.537
Ni 231.604	0.2841	ppb	0.7739	272.4	0.9568
Pb 220.353	1.7405	ppb	0.2045	11.7	26.4966
Sb 206.834	-3.8276	ppb	1.8567	48.5	2.1106
Se 196.026	-0.1869	ppb	3.8937	2083.1	5.9232
Sn 189.925	0.6671	ppb	2.3715	355.5	-12.4132
Sr 216.596	99.3799	ppb	0.7944	0.8	1142.49
Ti 334.941	0.0320	ppb	0.0228	71.3	-10.4832
Tl 190.794	-0.8352	ppb	2.7908	334.1	-15.8679
V 292.401	-0.0747	ppb	0.2972	398.0	-9.3452
Zn 206.200	1149.09	ppb	5.5937	0.5	1687.09

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

190-767-a-1-a (Samp) **5/22/2013, 3:44:02 AM** **Rack 4, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1799	0.1222	0.3649
Al 308.215	54.9032	55.6721	56.2085
As 188.980	3.9456	0.8424	3.7405
B 249.678	5.3507	5.6281	4.9182
Ba 389.178	10.9257	12.6936	12.3091
Be 313.042	-0.0071u	-0.0098u	0.0012
Ca 370.602	27146	27075	27059
Cd 226.502	2.7598	2.9353	2.7266
Co 228.615	-0.3275u	0.3472	0.2067
Cr 267.716	0.2662	0.0453	0.2204
Cu 324.754	9.7195	9.6010	9.4306
Fe 271.441	281.847	275.989	275.167
K 766.491	1163.56	1160.38	1161.05
Mg 279.078	7983.78	7971.77	7950.86
Mn 257.610	2.4834	2.4978	2.4673
Mo 202.032	0.5779	0.6853	0.2699
Na 330.237	7392.92	7647.99	7366.21
Ni 231.604	-0.0077u	0.9978	1.8533
Pb 220.353	8.5093	10.8354	10.0800
Sb 206.834	-1.5687u	1.2006	-0.0641u
Se 196.026	3.3898	8.0484	5.7927
Sn 189.925	0.5807	1.7427	2.7213
Sr 216.596	98.3739	98.8543	97.7468
Ti 334.941	0.0527	-0.0426	0.0138
Tl 190.794	-0.7344u	0.8772	-0.3124u
V 292.401	0.0731	0.2956	0.2031
Zn 206.200	727.880	731.209	723.195

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2223	ppb	0.1268	57.0	-33.7783
Al 308.215	55.5946	ppb	0.6561	1.2	540.914
As 188.980	2.8428	ppb	1.7355	61.0	-5.4792
B 249.678	5.2990	ppb	0.3578	6.8	381.292
Ba 389.178	11.9762	ppb	0.9298	7.8	270.665
Be 313.042	-0.0053	ppb	0.0058	109.5	-225.792
Ca 370.602	27093	ppb	46.19	0.2	64577
Cd 226.502	2.8073	ppb	0.1121	4.0	126.179
Co 228.615	0.0754	ppb	0.3560	471.9	9.6900
Cr 267.716	0.1773	ppb	0.1166	65.7	14.2182
Cu 324.754	9.5837	ppb	0.1452	1.5	663.761
Fe 271.441	277.668	ppb	3.6426	1.3	496.805
K 766.491	1161.66	ppb	1.6763	0.1	40971.0
Mg 279.078	7968.80	ppb	16.6597	0.2	16830.5
Mn 257.610	2.4829	ppb	0.0153	0.6	709.795
Mo 202.032	0.5110	ppb	0.2156	42.2	15.5159
Na 330.237	7469.04	ppb	155.549	2.1	401.214
Ni 231.604	0.9478	ppb	0.9315	98.3	2.8405
Pb 220.353	9.8082	ppb	1.1866	12.1	40.8515
Sb 206.834	-0.1441	ppb	1.3864	962.3	6.0983
Se 196.026	5.7437	ppb	2.3297	40.6	8.8690
Sn 189.925	1.6815	ppb	1.0716	63.7	-11.5144
Sr 216.596	98.3250	ppb	0.5553	0.6	1130.74
Ti 334.941	0.0080	ppb	0.0479	601.4	-16.4059
Tl 190.794	-0.0565	ppb	0.8357	1478.8	-15.1247
V 292.401	0.1906	ppb	0.1117	58.6	-2.2883
Zn 206.200	727.428	ppb	4.0260	0.6	1070.02

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

560-39958-b-2-a (Samp) **5/22/2013, 3:49:30 AM** **Rack 4, Tube 10**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0124u	-0.0197u	0.0612
Al 308.215	14.5671	14.9902	15.3224
As 188.980	0.4243	-0.9053u	0.7308
B 249.678	16.9296	16.6024	18.1091
Ba 389.178	45.6067	47.2105	46.7648
Be 313.042	0.0053	0.0058	0.0006
Ca 370.602	9323	9472	9581
Cd 226.502	-0.1248u	-0.0306	0.0430
Co 228.615	-0.2383u	0.1415	0.2041
Cr 267.716	0.0627	0.0785	0.0807
Cu 324.754	2.4074	1.9238	2.4156
Fe 271.441	445.813	454.486	468.996
K 766.491	2462.86	2501.04	2512.53
Mg 279.078	2441.60	2472.11	2506.43
Mn 257.610	60.7100	61.6492	62.2828
Mo 202.032	0.4114	-0.5141u	0.5482
Na 330.237	18826.1	19058.7	18876.7
Ni 231.604	-0.6260u	0.4433	-0.0527u
Pb 220.353	0.1551	-0.0337u	4.6154
Sb 206.834	-1.5350u	3.5942	-2.8231u
Se 196.026	2.8919	-2.0593u	1.2462
Sn 189.925	0.6296	-0.8212u	-0.8085u
Sr 216.596	73.4442	75.2394	75.6057
Ti 334.941	0.0280	0.0308	0.0555
Tl 190.794	0.7604	-0.3956u	1.8525
V 292.401	0.0335	0.4442	0.1147
Zn 206.200	-0.0814u	0.7279	-0.6543u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0097	ppb	0.0447	460.5	-48.6318
Al 308.215	14.9599	ppb	0.3786	2.5	284.029
As 188.980	0.0833	ppb	0.8697	1044.1	-7.1313
B 249.678	17.2137	ppb	0.7925	4.6	535.293
Ba 389.178	46.5274	ppb	0.8279	1.8	988.302
Be 313.042	0.0039	ppb	0.0028	72.6	-216.057
Ca 370.602	9459	ppb	129.6	1.4	22534
Cd 226.502	-0.0374	ppb	0.0841	224.7	21.2920
Co 228.615	0.0358	ppb	0.2394	669.3	9.2028
Cr 267.716	0.0740	ppb	0.0098	13.2	9.7204
Cu 324.754	2.2490	ppb	0.2816	12.5	261.373
Fe 271.441	456.432	ppb	11.7132	2.6	802.734
K 766.491	2492.14	ppb	26.0032	1.0	87604.6
Mg 279.078	2473.38	ppb	32.4339	1.3	5245.96
Mn 257.610	61.5474	ppb	0.7913	1.3	15376.6
Mo 202.032	0.1485	ppb	0.5779	389.1	12.7423
Na 330.237	18920.5	ppb	122.336	0.6	956.800
Ni 231.604	-0.0785	ppb	0.5351	681.9	-0.0610
Pb 220.353	1.5789	ppb	2.6313	166.7	26.2232
Sb 206.834	-0.2546	ppb	3.3948	1333.3	5.9872
Se 196.026	0.6929	ppb	2.5215	363.9	6.3768
Sn 189.925	-0.3334	ppb	0.8340	250.2	-13.3039
Sr 216.596	74.7631	ppb	1.1568	1.5	863.059
Ti 334.941	0.0381	ppb	0.0151	39.8	-33.6400
Tl 190.794	0.7391	ppb	1.1242	152.1	-14.4480
V 292.401	0.1974	ppb	0.2175	110.2	-2.1806
Zn 206.200	-0.0026	ppb	0.6945	26546.8	7544663

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90429-a-1-a (Samp) **5/22/2013, 3:55:09 AM** **Rack 4, Tube 11**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1570u	0.0373u	-0.1066u
Al 308.215	516.797	513.134	518.948
As 188.980	7.3066	2.5136	-0.2653u
B 249.678	61.3742	61.3986	60.2418
Ba 389.178	321.067	321.438	321.824
Be 313.042	-0.0018	-0.0085u	0.0017
Ca 370.602	37703	37624	37643
Cd 226.502	0.2917	0.3784	0.1993
Co 228.615	-0.2346u	-0.1615u	0.1624
Cr 267.716	0.7263	0.6031	0.8411
Cu 324.754	21.4116	21.4398	21.1000
Fe 271.441	114.915	113.779	108.435
K 766.491	2642.45	2645.21	2649.48
Mg 279.078	5643.56	5641.33	5638.87
Mn 257.610	4.3270	4.3188	4.3465
Mo 202.032	2.1916	1.3517	1.7645
Na 330.237	45672.2	46086.0	45989.2
Ni 231.604	2.6598	0.8010	0.7891
Pb 220.353	2.3438	-0.2572u	2.5019
Sb 206.834	-7.1040u	-2.7205u	0.2035
Se 196.026	-0.7003u	1.6693	-3.9213u
Sn 189.925	2.6552	3.5056	-1.6162u
Sr 216.596	420.155	421.117	419.619
Ti 334.941	0.0740	0.1353	0.1950
Tl 190.794	-1.0930u	1.9559	-0.0469u
V 292.401	2.5457	2.7813	2.8463
Zn 206.200	195.994	197.046	193.434

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0292	ppb	0.1320	451.4	-63.4039
Al 308.215	516.293	ppb	2.9398	0.6	3453.54
As 188.980	3.1850	ppb	3.8303	120.3	-5.2785
B 249.678	61.0049	ppb	0.6610	1.1	1102.59
Ba 389.178	321.443	ppb	0.3786	0.1	6807.74
Be 313.042	-0.0029	ppb	0.0051	179.6	-222.162
Ca 370.602	37657	ppb	41.45	0.1	89767
Cd 226.502	0.2898	ppb	0.0896	30.9	32.2349
Co 228.615	-0.0779	ppb	0.2113	271.2	7.7439
Cr 267.716	0.7235	ppb	0.1190	16.5	41.4855
Cu 324.754	21.3171	ppb	0.1886	0.9	1307.50
Fe 271.441	112.376	ppb	3.4602	3.1	213.925
K 766.491	2645.71	ppb	3.5399	0.1	92987.5
Mg 279.078	5641.25	ppb	2.3476	0.0	11924.1
Mn 257.610	4.3307	ppb	0.0142	0.3	1149.13
Mo 202.032	1.7693	ppb	0.4200	23.7	25.1141
Na 330.237	45915.8	ppb	216.464	0.5	2253.42
Ni 231.604	1.4166	ppb	1.0766	76.0	4.1634
Pb 220.353	1.5295	ppb	1.5493	101.3	26.1290
Sb 206.834	-3.2070	ppb	3.6780	114.7	2.7748
Se 196.026	-0.9841	ppb	2.8061	285.2	5.5279
Sn 189.925	1.5149	ppb	2.7447	181.2	-11.6433
Sr 216.596	420.297	ppb	0.7590	0.2	4764.58
Ti 334.941	0.1347	ppb	0.0605	44.9	5.8110
Tl 190.794	0.2720	ppb	1.5492	569.6	-14.8010
V 292.401	2.7244	ppb	0.1581	5.8	63.9583
Zn 206.200	195.491	ppb	1.8576	631.0	794.528

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90429-a-2-a (Samp) 5/22/2013, 4:00:37 AM Rack 4, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2104u	0.1598u	0.1440u
Al 308.215	970.511	959.154	963.201
As 188.980	1.7277	2.2189	3.0502
B 249.678	76.5536	76.8821	76.9190
Ba 389.178	303.996	300.115	303.734
Be 313.042	-0.0044u	-0.0070u	-0.0044u
Ca 370.602	36948	36532	36702
Cd 226.502	0.0339	-0.0193u	0.0136
Co 228.615	0.1282	-0.1123u	0.6077
Cr 267.716	0.4777	0.3526	0.5651
Cu 324.754	90.7201	90.7723	89.9968
Fe 271.441	131.599	126.747	135.049
K 766.491	3016.32	2995.89	2992.27
Mg 279.078	5932.66	5874.88	5902.41
Mn 257.610	6.8622	6.8675	6.9422
Mo 202.032	1.5924	2.1340	1.2570
Na 330.237	51453.3	51110.2	51075.2
Ni 231.604	0.3974	-0.2352u	-0.5017u
Pb 220.353	19.1518	20.4797	19.8736
Sb 206.834	-3.9518u	0.4128	-6.9472u
Se 196.026	-0.0613u	4.0348	-1.6581u
Sn 189.925	1.7488	2.1983	-0.9506u
Sr 216.596	415.972	413.322	413.664
Ti 334.941	0.2361	0.2270	0.2363
Tl 190.794	-0.7224u	1.5605	2.8510
V 292.401	2.5964	2.6611	2.5149
Zn 206.200	163.059	159.882	160.932

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1714	ppb	0.0347	20.3	-52.2017
Al 308.215	964.289	ppb	5.7557	0.6	6285.59
As 188.980	2.3323	ppb	0.6685	28.7	-5.7901
B 249.678	76.7849	ppb	0.2012	0.3	1306.83
Ba 389.178	302.615	ppb	2.1690	0.7	6410.33
Be 313.042	-0.0052	ppb	0.0015	28.6	-227.454
Ca 370.602	36727	ppb	209.5	0.6	87551
Cd 226.502	0.0094	ppb	0.0268	285.2	21.8738
Co 228.615	0.2079	ppb	0.3666	176.4	11.3134
Cr 267.716	0.4651	ppb	0.1068	23.0	29.0059
Cu 324.754	90.4964	ppb	0.4335	0.5	5103.18
Fe 271.441	131.132	ppb	4.1704	3.2	246.066
K 766.491	3001.49	ppb	12.9640	0.4	105458
Mg 279.078	5903.32	ppb	28.9045	0.5	12476.3
Mn 257.610	6.8906	ppb	0.0447	0.6	1789.17
Mo 202.032	1.6612	ppb	0.4425	26.6	24.2893
Na 330.237	51212.9	ppb	208.940	0.4	2508.33
Ni 231.604	-0.1132	ppb	0.4618	408.1	-0.1659
Pb 220.353	19.8350	ppb	0.6648	3.4	58.7078
Sb 206.834	-3.4954	ppb	3.7012	105.9	2.4628
Se 196.026	0.7718	ppb	2.9365	380.5	6.4005
Sn 189.925	0.9988	ppb	1.7032	170.5	-12.0992
Sr 216.596	414.319	ppb	1.4416	0.3	4697.07
Ti 334.941	0.2331	ppb	0.0053	2.3	34.3186
Tl 190.794	1.2297	ppb	1.8095	147.2	-13.8796
V 292.401	2.5908	ppb	0.0732	2.8	60.4334
Zn 206.200	161.291	ppb	1.6185	1.0	241.480

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90429-a-3-a (Samp) 5/22/2013, 4:17:01 AM Rack 4, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0487u	0.0257u	0.0818u
Al 308.215	446.496	449.520	449.628
As 188.980	2.1948	4.8101	4.9918
B 249.678	63.9940	64.1926	63.9471
Ba 389.178	303.086	303.373	304.737
Be 313.042	-0.0017	-0.0009	0.0000
Ca 370.602	36532	36807	36941
Cd 226.502	0.4175	0.4719	0.5167
Co 228.615	0.3475	-0.1381u	0.1330
Cr 267.716	0.8298	0.7406	0.5767
Cu 324.754	15.0145	15.5737	15.0167
Fe 271.441	108.520	111.068	114.214
K 766.491	2634.95	2646.41	2647.41
Mg 279.078	5545.11	5553.22	5559.98
Mn 257.610	4.5920	4.6264	4.6412
Mo 202.032	1.8016	2.2174	1.3941
Na 330.237	45355.8	45449.5	45519.7
Ni 231.604	0.3122	0.9273	-0.6543u
Pb 220.353	2.2313	2.1542	2.9906
Sb 206.834	-0.4092u	-1.8149u	-9.4132u
Se 196.026	8.0692	7.1128	7.1272
Sn 189.925	1.1626	-0.4155u	-0.1372u
Sr 216.596	408.977	410.741	411.681
Ti 334.941	0.1499	0.1142	0.1747
Tl 190.794	3.5058	1.7346	4.2215
V 292.401	2.6185	2.5786	2.6975
Zn 206.200	591.984	591.329	594.932

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0521	ppb	0.0282	54.2	-61.2737
Al 308.215	448.548	ppb	1.7776	0.4	3025.28
As 188.980	3.9989	ppb	1.5651	39.1	-4.7899
B 249.678	64.0446	ppb	0.1303	0.2	1141.94
Ba 389.178	303.732	ppb	0.8820	0.3	6433.07
Be 313.042	-0.0008	ppb	0.0008	99.6	-218.583
Ca 370.602	36760	ppb	208.1	0.6	87630
Cd 226.502	0.4687	ppb	0.0497	10.6	38.8372
Co 228.615	0.1142	ppb	0.2434	213.2	10.1390
Cr 267.716	0.7157	ppb	0.1284	17.9	41.0888
Cu 324.754	15.2016	ppb	0.3223	2.1	971.961
Fe 271.441	111.267	ppb	2.8523	2.6	212.055
K 766.491	2642.92	ppb	6.9233	0.3	92889.5
Mg 279.078	5552.77	ppb	7.4451	0.1	11737.6
Mn 257.610	4.6198	ppb	0.0252	0.5	1220.35
Mo 202.032	1.8044	ppb	0.4117	22.8	25.3823
Na 330.237	45441.7	ppb	82.2251	0.2	2227.85
Ni 231.604	0.1951	ppb	0.7973	408.7	0.7063
Pb 220.353	2.4587	ppb	0.4623	18.8	27.7810
Sb 206.834	-3.8791	ppb	4.8439	124.9	2.0487
Se 196.026	7.4364	ppb	0.5480	7.4	9.7090
Sn 189.925	0.2033	ppb	0.8424	414.4	-12.8061
Sr 216.596	410.466	ppb	1.3726	0.3	4653.58
Ti 334.941	0.1463	ppb	0.0304	20.8	8.6881
Tl 190.794	3.1540	ppb	1.2802	40.6	-12.0155
V 292.401	2.6315	ppb	0.0605	2.3	61.5050
Zn 206.200	592.748	ppb	1.9192	0.3	872.900

680-90429-a-4-a (Samp) 5/22/2013, 4:22:29 AM Rack 4, Tube 16

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0871u	0.1400u	0.2400u
Al 308.215	689.461	687.711	691.915
As 188.980	3.4895	-0.1309u	5.4214
B 249.678	61.7764	63.0047	63.4162
Ba 389.178	327.035	327.401	327.947
Be 313.042	-0.0078u	-0.0041	-0.0059u
Ca 370.602	38650	38580	38782
Cd 226.502	0.3727	0.3241	0.3016
Co 228.615	-0.2398u	0.3503	-0.0814u
Cr 267.716	0.9271	0.8695	1.0213
Cu 324.754	26.7696	27.0348	26.8244
Fe 271.441	125.416	125.823	123.260
K 766.491	2662.48	2674.50	2669.05
Mg 279.078	5787.64	5818.64	5829.31
Mn 257.610	2.7264	2.7517	2.8080
Mo 202.032	1.6107	1.6255	1.9204
Na 330.237	46676.8	46899.2	47132.2
Ni 231.604	0.0175	-0.8936u	-0.2186u
Pb 220.353	0.0651	-1.4195u	2.7036
Sb 206.834	-2.3176u	0.3193	-4.2546u
Se 196.026	-3.9139u	2.5940	6.0287
Sn 189.925	3.3502	4.8133	-0.4233u
Sr 216.596	429.352	430.540	432.506
Ti 334.941	0.1782	0.1539	0.2139
Tl 190.794	-3.1164u	3.4251	4.6811
V 292.401	2.9855	3.0720	2.7432
Zn 206.200	427.312	434.230	434.988

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1557	ppb	0.0777	49.9	-54.2111
Al 308.215	689.696	ppb	2.1116	0.3	4549.71
As 188.980	2.9267	ppb	2.8186	96.3	-5.4335
B 249.678	62.7324	ppb	0.8532	1.4	1124.94
Ba 389.178	327.461	ppb	0.4591	0.1	6935.38
Be 313.042	-0.0059	ppb	0.0018	31.2	-227.562
Ca 370.602	38671	ppb	102.7	0.3	92184
Cd 226.502	0.3328	ppb	0.0364	10.9	33.8358
Co 228.615	0.0097	ppb	0.3054	3148.6	8.8393
Cr 267.716	0.9393	ppb	0.0767	8.2	52.0091
Cu 324.754	26.8763	ppb	0.1400	0.5	1612.51
Fe 271.441	124.833	ppb	1.3774	1.1	235.259
K 766.491	2668.68	ppb	6.0193	0.2	93792.4
Mg 279.078	5811.87	ppb	21.6479	0.4	12283.7
Mn 257.610	2.7620	ppb	0.0418	1.5	759.831
Mo 202.032	1.7189	ppb	0.1747	10.2	24.7292
Na 330.237	46902.7	ppb	227.726	0.5	2299.21
Ni 231.604	-0.3649	ppb	0.4729	129.6	-0.8785
Pb 220.353	0.4497	ppb	2.0883	464.3	24.2108
Sb 206.834	-2.0843	ppb	2.2959	110.1	3.9904
Se 196.026	1.5696	ppb	5.0498	321.7	6.7955
Sn 189.925	2.5801	ppb	2.7019	104.7	-10.6985
Sr 216.596	430.799	ppb	1.5929	0.4	4883.23
Ti 334.941	0.1820	ppb	0.0302	16.6	19.8071
Tl 190.794	1.6632	ppb	4.1867	251.7	-13.4542
V 292.401	2.9336	ppb	0.1705	5.8	69.4662
Zn 206.200	432.177	ppb	4.2297	1.0	637.909

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

680-90429-a-5-a (Samp) 5/22/2013, 4:27:57 AM Rack 4, Tube 17
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0210u	0.1414u	0.0459u
Al 308.215	736.211	735.250	739.835
As 188.980	3.7614	3.7833	1.9670
B 249.678	66.0950	66.1941	66.0417
Ba 389.178	318.378	317.966	319.174
Be 313.042	-0.0068u	-0.0034	-0.0080u
Ca 370.602	37288	37102	37370
Cd 226.502	0.0112	0.1046	0.1129
Co 228.615	0.2610	-0.1179u	0.4103
Cr 267.716	0.6076	0.7220	0.7370
Cu 324.754	20.2311	20.0581	20.4178
Fe 271.441	123.258	126.840	133.614
K 766.491	2729.02	2734.59	2740.16
Mg 279.078	5610.40	5629.05	5662.25
Mn 257.610	4.9803	4.9010	5.0254
Mo 202.032	1.4229	1.8782	1.6826
Na 330.237	46231.2	46311.3	46498.4
Ni 231.604	1.6460	0.9031	1.2921
Pb 220.353	0.8986	0.5413	-0.6186u
Sb 206.834	-2.2497u	-6.9363u	-3.3613u
Se 196.026	0.5541	1.1818	-0.2879u
Sn 189.925	0.9540	1.3013	2.4381
Sr 216.596	420.703	419.246	422.290
Ti 334.941	0.2798	0.2674	0.2400
Tl 190.794	3.8008	3.7489	-2.1342u
V 292.401	3.0422	2.5830	2.6719
Zn 206.200	211.359	208.741	211.660

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0695	ppb	0.0635	91.5	-60.3744
Al 308.215	737.099	ppb	2.4178	0.3	4849.39
As 188.980	3.1706	ppb	1.0424	32.9	-5.2868
B 249.678	66.1103	ppb	0.0773	0.1	1168.66
Ba 389.178	318.506	ppb	0.6144	0.2	6745.64
Be 313.042	-0.0060	ppb	0.0024	39.8	-228.198
Ca 370.602	37253	ppb	137.4	0.4	88805
Cd 226.502	0.0762	ppb	0.0565	74.1	24.3561
Co 228.615	0.1845	ppb	0.2723	147.6	11.0228
Cr 267.716	0.6889	ppb	0.0708	10.3	39.8141
Cu 324.754	20.2357	ppb	0.1799	0.9	1248.16
Fe 271.441	127.904	ppb	5.2592	4.1	240.538
K 766.491	2734.59	ppb	5.5696	0.2	96102.5
Mg 279.078	5633.90	ppb	26.2649	0.5	11908.5
Mn 257.610	4.9689	ppb	0.0630	1.3	1308.05
Mo 202.032	1.6612	ppb	0.2284	13.8	24.2896
Na 330.237	46347.0	ppb	137.121	0.3	2274.04
Ni 231.604	1.2804	ppb	0.3716	29.0	3.7783
Pb 220.353	0.2738	ppb	0.7932	289.7	23.8991
Sb 206.834	-4.1824	ppb	2.4488	58.6	1.7236
Se 196.026	0.4827	ppb	0.7374	152.8	6.2564
Sn 189.925	1.5645	ppb	0.7762	49.6	-11.5993
Sr 216.596	420.746	ppb	1.5227	0.4	4769.63
Ti 334.941	0.2624	ppb	0.0204	7.8	41.6801
Tl 190.794	1.8052	ppb	3.4117	189.0	-13.3204
V 292.401	2.7657	ppb	0.2435	8.8	65.0665
Zn 206.200	210.587	ppb	1.6951	0.8	212.621

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90429-a-6-a (Samp) **5/22/2013, 4:33:25 AM** **Rack 4, Tube 18**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1312u	0.2548u	0.0979u
Al 308.215	8.1197	9.6002	6.9754
As 188.980	1.8652	7.8660	8.3928
B 249.678	55.7749	54.5639	54.8391
Ba 389.178	333.745	333.849	331.780
Be 313.042	-0.0072u	-0.0118u	-0.0044u
Ca 370.602	39015	38835	38632
Cd 226.502	0.1152	0.2859	0.0370
Co 228.615	-0.2320u	0.1647	-0.2701u
Cr 267.716	1.3684	0.9287	1.1761
Cu 324.754	3.2780	3.3415	3.4402
Fe 271.441	69.3490	62.1187	67.2375
K 766.491	2595.00	2594.71	2586.89
Mg 279.078	5814.75	5815.57	5796.25
Mn 257.610	2.3623	2.2989	2.3091
Mo 202.032	1.4762	2.1035	1.6166
Na 330.237	46229.1	46125.1	45967.8
Ni 231.604	-0.6677u	1.0675	-0.7652u
Pb 220.353	-3.3245u	-2.2679u	-0.6656u
Sb 206.834	-3.8784u	-3.1828u	-1.4993u
Se 196.026	-7.5207u	-3.5199u	2.0180
Sn 189.925	0.5785	-2.3860u	-3.6972u
Sr 216.596	431.830	431.098	429.566
Ti 334.941	0.0307	-0.0109	0.0007
Tl 190.794	2.4413	-1.9872u	1.2188
V 292.401	3.0102	2.8978	3.0474
Zn 206.200	143.238	141.299	143.791

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1613	ppb	0.0827	51.3	-53.8539
Al 308.215	8.2318	ppb	1.3160	16.0	241.690
As 188.980	6.0413	ppb	3.6262	60.0	-3.5647
B 249.678	55.0593	ppb	0.6348	1.2	1025.69
Ba 389.178	333.125	ppb	1.1658	0.3	7055.05
Be 313.042	-0.0078	ppb	0.0038	48.1	-231.025
Ca 370.602	38828	ppb	191.7	0.5	92561
Cd 226.502	0.1460	ppb	0.1273	87.1	26.7484
Co 228.615	-0.1125	ppb	0.2408	214.0	7.3158
Cr 267.716	1.1577	ppb	0.2204	19.0	62.6266
Cu 324.754	3.3532	ppb	0.0817	2.4	321.852
Fe 271.441	66.2350	ppb	3.7179	5.6	134.958
K 766.491	2592.20	ppb	4.6028	0.2	91111.7
Mg 279.078	5808.86	ppb	10.9259	0.2	12277.6
Mn 257.610	2.3234	ppb	0.0341	1.5	650.387
Mo 202.032	1.7321	ppb	0.3292	19.0	24.8332
Na 330.237	46107.4	ppb	131.559	0.3	2263.01
Ni 231.604	-0.1218	ppb	1.0311	846.5	-0.1923
Pb 220.353	-2.0860	ppb	1.3388	64.2	19.6863
Sb 206.834	-2.8535	ppb	1.2232	42.9	3.1599
Se 196.026	-3.0075	ppb	4.7900	159.3	4.5224
Sn 189.925	-1.8349	ppb	2.1905	119.4	-14.6112
Sr 216.596	430.831	ppb	1.1557	0.3	4883.58
Ti 334.941	0.0069	ppb	0.0215	313.1	-29.4404
Tl 190.794	0.5576	ppb	2.2871	410.2	-14.5194
V 292.401	2.9851	ppb	0.0778	2.6	70.8176
Zn 206.200	142.776	ppb	1.3088	0.9	214.375

680-90429-a-7-a (Samp) 5/22/2013, 4:38:53 AM Rack 4, Tube 19

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2118u	0.0939u	0.1123u
Al 308.215	1213.49	1210.16	1210.08
As 188.980	1.8140	4.2082	-0.8714u
B 249.678	66.5051	66.5741	66.1067
Ba 389.178	318.802	319.963	318.079
Be 313.042	-0.0047u	-0.0047u	-0.0012
Ca 370.602	37484	37476	37390
Cd 226.502	0.2451	0.2766	0.0163
Co 228.615	-0.6263u	0.1178	-0.1211u
Cr 267.716	0.7957	0.6933	0.8764
Cu 324.754	29.1290	29.2545	29.3867
Fe 271.441	237.095	247.824	243.292
K 766.491	2700.64	2708.20	2713.29
Mg 279.078	5646.31	5656.10	5636.22
Mn 257.610	6.3031	6.2689	6.3268
Mo 202.032	1.7644	1.6125	2.1230
Na 330.237	46458.0	46524.2	46588.8
Ni 231.604	-0.8326u	0.3583	0.1752
Pb 220.353	-0.8195u	2.2439	2.0245
Sb 206.834	-2.5177u	1.3409	-1.9225u
Se 196.026	4.7205	6.7585	4.0152
Sn 189.925	1.9064	3.0619	3.7831
Sr 216.596	421.668	421.067	419.765
Ti 334.941	0.3574	0.3460	0.3078
Tl 190.794	1.5669	0.9397	2.8763
V 292.401	2.7333	2.7306	2.6215
Zn 206.200	227.272	227.776	228.433

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1393	ppb	0.0634	45.5	-55.0160
Al 308.215	1211.24	ppb	1.9500	0.2	7846.79
As 188.980	1.7169	ppb	2.5412	148.0	-6.1566
B 249.678	66.3953	ppb	0.2523	0.4	1172.20
Ba 389.178	318.948	ppb	0.9506	0.3	6755.18
Be 313.042	-0.0036	ppb	0.0020	57.0	-223.527
Ca 370.602	37450	ppb	52.19	0.1	89267
Cd 226.502	0.1793	ppb	0.1421	79.2	28.5432
Co 228.615	-0.2099	ppb	0.3799	181.0	6.0954
Cr 267.716	0.7885	ppb	0.0917	11.6	44.7094
Cu 324.754	29.2567	ppb	0.1289	0.4	1743.17
Fe 271.441	242.737	ppb	5.3860	2.2	437.005
K 766.491	2707.38	ppb	6.3632	0.2	95148.9
Mg 279.078	5646.21	ppb	9.9401	0.2	11934.4
Mn 257.610	6.2996	ppb	0.0291	0.5	1640.07
Mo 202.032	1.8333	ppb	0.2621	14.3	25.5958
Na 330.237	46523.7	ppb	65.3997	0.1	2282.38
Ni 231.604	-0.0997	ppb	0.6413	643.2	-0.1251
Pb 220.353	1.1496	ppb	1.7088	148.6	25.4665
Sb 206.834	-1.0331	ppb	2.0774	201.1	5.1251
Se 196.026	5.1647	ppb	1.4245	27.6	8.5823
Sn 189.925	2.9172	ppb	0.9467	32.5	-10.4005
Sr 216.596	420.833	ppb	0.9728	0.2	4770.69
Ti 334.941	0.3371	ppb	0.0260	7.7	62.7766
Tl 190.794	1.7943	ppb	0.9881	55.1	-13.3389
V 292.401	2.6951	ppb	0.0638	2.4	63.1643
Zn 206.200	227.827	ppb	0.5823	0.3	228.863

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

680-90429-a-8-a (Samp) 5/22/2013, 4:44:31 AM Rack 4, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0907u	0.1010u	-0.0029u
Al 308.215	1175.07	1129.17	1196.08
As 188.980	3.0520	1.5247	5.2721
B 249.678	64.7821	62.2553	67.5070
Ba 389.178	317.455	307.592	323.951
Be 313.042	-0.0080u	-0.0039	-0.0056u
Ca 370.602	37952	36691	38464
Cd 226.502	0.1955	0.1964	0.3886
Co 228.615	0.2753	0.4298	0.0279
Cr 267.716	0.7567	0.6632	0.8369
Cu 324.754	28.8765	27.3936	28.6237
Fe 271.441	260.229	249.055	267.257
K 766.491	2678.53	2618.80	2712.55
Mg 279.078	5709.14	5515.98	5789.20
Mn 257.610	5.8805	5.7031	5.9817
Mo 202.032	1.4959	2.1099	1.5882
Na 330.237	46915.7	45229.8	47342.9
Ni 231.604	-0.9907u	0.9403	1.1817
Pb 220.353	-1.3165u	-0.1447u	1.2326
Sb 206.834	-5.4303u	-2.3127u	1.8020
Se 196.026	-5.3831u	13.5186	-0.5775u
Sn 189.925	3.7326	2.3450	1.8769
Sr 216.596	423.686	408.687	430.135
Ti 334.941	0.3444	0.2772	0.3563
Tl 190.794	1.4493	2.8720	4.9439
V 292.401	2.7079	2.9624	2.6878
Zn 206.200	351.531	341.606	356.857

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0629	ppb	0.0572	90.9	-60.8317
Al 308.215	1166.77	ppb	34.2166	2.9	7565.68
As 188.980	3.2829	ppb	1.8843	57.4	-5.2158
B 249.678	64.8481	ppb	2.6265	4.1	1152.15
Ba 389.178	316.333	ppb	8.2367	2.6	6699.96
Be 313.042	-0.0058	ppb	0.0020	34.7	-227.704
Ca 370.602	37702	ppb	912.6	2.4	89867
Cd 226.502	0.2602	ppb	0.1112	42.7	31.5823
Co 228.615	0.2444	ppb	0.2027	83.0	11.7624
Cr 267.716	0.7522	ppb	0.0869	11.6	42.9410
Cu 324.754	28.2980	ppb	0.7933	2.8	1690.56
Fe 271.441	258.847	ppb	9.1793	3.5	464.645
K 766.491	2669.96	ppb	47.4563	1.8	93837.3
Mg 279.078	5671.44	ppb	140.459	2.5	11987.6
Mn 257.610	5.8551	ppb	0.1410	2.4	1529.62
Mo 202.032	1.7313	ppb	0.3311	19.1	24.8173
Na 330.237	46496.1	ppb	1117.29	2.4	2280.20
Ni 231.604	0.3771	ppb	1.1907	315.8	1.2248
Pb 220.353	-0.0762	ppb	1.2759	1674.8	23.2845
Sb 206.834	-1.9804	ppb	3.6276	183.2	4.1039
Se 196.026	2.5193	ppb	9.8240	389.9	7.2687
Sn 189.925	2.6515	ppb	0.9651	36.4	-10.6358
Sr 216.596	420.836	ppb	11.0042	2.6	4770.74
Ti 334.941	0.3260	ppb	0.0426	13.1	59.7716
Tl 190.794	3.0884	ppb	1.7574	56.9	-12.0879
V 292.401	2.7860	ppb	0.1531	5.5	65.5832
Zn 206.200	349.998	ppb	7.7495	2.2	517.658

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

640-43593-1-1-a (Samp) 5/22/2013, 4:50:00 AM Rack 4, Tube 21
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0998u	-0.0726u	-0.0253u
Al 308.215	81.7625	85.1337	83.2141
As 188.980	2.6887	9.3729	6.3501
B 249.678	138.885	143.554	142.508
Ba 389.178	5.4306	4.2845	5.4971
Be 313.042	-0.0047u	-0.0020u	-0.0041u
Ca 370.602	27700	28126	28008
Cd 226.502	-0.1316u	0.0430	0.2376
Co 228.615	0.4021	0.8076	0.2749
Cr 267.716	0.0747	0.2212	0.0130
Cu 324.754	2.3050	2.1540	1.8847
Fe 271.441	550.352	560.610	557.519
K 766.491	9836.24	9979.05	9957.05
Mg 279.078	10608.1	10769.8	10746.5
Mn 257.610	16.8527	17.1252	17.0231
Mo 202.032	1.5535	1.3973	2.1818
Na 330.237	68036.2	68990.7	69178.1
Ni 231.604	2.9638	2.8694	4.6429
Pb 220.353	-0.4420u	-0.6987u	-1.2882u
Sb 206.834	-6.5016u	-1.1275u	-0.9562u
Se 196.026	-7.9557u	-1.5355u	3.3163
Sn 189.925	6.7977	0.1308	2.5721
Sr 216.596	566.649	574.213	573.026
Ti 334.941	0.4729	0.4245	0.5223
Tl 190.794	0.6569	-0.4616u	3.3434
V 292.401	2.4518	2.4251	2.4286
Zn 206.200	4.0995	5.4897	5.3376

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0006	ppb	0.0890	13717.6	-72.4770
Al 308.215	83.3701	ppb	1.6910	2.0	716.760
As 188.980	6.1372	ppb	3.3472	54.5	-3.4937
B 249.678	141.649	ppb	2.4504	1.7	2145.93
Ba 389.178	5.0707	ppb	0.6817	13.4	131.549
Be 313.042	-0.0036	ppb	0.0014	39.0	-230.009
Ca 370.602	27945	ppb	220.3	0.8	66591
Cd 226.502	0.0497	ppb	0.1847	371.9	24.6726
Co 228.615	0.4949	ppb	0.2782	56.2	14.8857
Cr 267.716	0.1030	ppb	0.1070	103.8	11.8015
Cu 324.754	2.1146	ppb	0.2129	10.1	254.055
Fe 271.441	556.160	ppb	5.2621	0.9	973.497
K 766.491	9924.11	ppb	76.8926	0.8	348098
Mg 279.078	10708.1	ppb	87.4432	0.8	22604.4
Mn 257.610	17.0003	ppb	0.1377	0.8	4351.02
Mo 202.032	1.7109	ppb	0.4153	24.3	24.6463
Na 330.237	68735.0	ppb	612.412	0.9	3351.72
Ni 231.604	3.4920	ppb	0.9978	28.6	10.0470
Pb 220.353	-0.8096	ppb	0.4338	53.6	21.9617
Sb 206.834	-2.8618	ppb	3.1534	110.2	3.1532
Se 196.026	-2.0583	ppb	5.6542	274.7	5.0003
Sn 189.925	3.1669	ppb	3.3730	106.5	-10.1757
Sr 216.596	571.296	ppb	4.0675	0.7	6467.36
Ti 334.941	0.4732	ppb	0.0489	10.3	122.316
Tl 190.794	1.1796	ppb	1.9556	165.8	-13.9638
V 292.401	2.4352	ppb	0.0145	0.6	56.2794
Zn 206.200	4.9756	ppb	0.7625	15.3	12.7618

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

640-43593-1-1-b ms (Samp) 5/22/2013, 4:55:28 AM Rack 4, Tube 22**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	20.7561	20.7005	20.5761
Al 308.215	2149.54	2139.94	2139.36
As 188.980	50.9850	51.7357	48.0214
B 249.678	220.326	220.182	219.852
Ba 389.178	44.6619	43.8936	43.9563
Be 313.042	20.7779	20.7060	20.7345
Ca 370.602	29547	29325	29438
Cd 226.502	20.7002	20.5122	20.6196
Co 228.615	20.6400	20.3835	21.0191
Cr 267.716	40.9145	40.8067	40.7785
Cu 324.754	43.6432	43.6139	43.3786
Fe 271.441	2555.14	2545.04	2547.48
K 766.491	12118.7	12088.5	12143.6
Mg 279.078	12667.2	12618.5	12623.2
Mn 257.610	226.556	225.241	225.704
Mo 202.032	42.2159	42.2164	42.4929
Na 330.237	70392.4	69718.6	70106.2
Ni 231.604	42.1873	43.5014	42.8315
Pb 220.353	18.1593	22.3638	17.9849
Sb 206.834	19.2547	19.4583	21.3679
Se 196.026	45.1985	41.1401	45.7341
Sn 189.925	81.3051	82.4418	82.0629
Sr 216.596	604.073	603.024	601.339
Ti 334.941	40.6357	40.3157	40.4558
Tl 190.794	20.4377	12.0979	16.4066
V 292.401	43.3531	43.0473	43.2699
Zn 206.200	46.6584	48.1343	46.3766

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.6776	ppb	0.0922	0.4	1514.24
Al 308.215	2142.94	ppb	5.7184	0.3	13736.7
As 188.980	50.2474	ppb	1.9639	3.9	23.0377
B 249.678	220.120	ppb	0.2431	0.1	3159.13
Ba 389.178	44.1706	ppb	0.4266	1.0	965.597
Be 313.042	20.7395	ppb	0.0362	0.2	38578.8
Ca 370.602	29437	ppb	111.0	0.4	70036
Cd 226.502	20.6107	ppb	0.0943	0.5	792.208
Co 228.615	20.6809	ppb	0.3198	1.5	266.267
Cr 267.716	40.8332	ppb	0.0717	0.2	1997.97
Cu 324.754	43.5452	ppb	0.1450	0.3	2528.67
Fe 271.441	2549.22	ppb	5.2680	0.2	4387.94
K 766.491	12116.9	ppb	27.6222	0.2	424957
Mg 279.078	12636.3	ppb	26.8623	0.2	26665.1
Mn 257.610	225.834	ppb	0.6670	0.3	56400.7
Mo 202.032	42.3084	ppb	0.1598	0.4	334.036
Na 330.237	70072.4	ppb	338.157	0.5	3414.88
Ni 231.604	42.8401	ppb	0.6571	1.5	121.462
Pb 220.353	19.5027	ppb	2.4793	12.7	58.1009
Sb 206.834	20.0270	ppb	1.1658	5.8	27.9378
Se 196.026	44.0243	ppb	2.5121	5.7	27.9458
Sn 189.925	81.9366	ppb	0.5788	0.7	59.6289
Sr 216.596	602.812	ppb	1.3795	0.2	6821.74
Ti 334.941	40.4691	ppb	0.1604	0.4	11382.8
Tl 190.794	16.3141	ppb	4.1707	25.6	0.2816
V 292.401	43.2234	ppb	0.1581	0.4	1122.54
Zn 206.200	47.0565	ppb	0.9440	2.0	744308

640-43593-1-1-c msd (Samp) 5/22/2013, 5:00:56 AM Rack 4, Tube 23

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	21.1364	21.1337	20.9869
Al 308.215	2187.38	2188.63	2189.88
As 188.980	54.1774	50.9807	54.5996
B 249.678	226.168	227.542	227.818
Ba 389.178	45.2951	46.4815	45.6176
Be 313.042	21.1204	21.1273	21.1571
Ca 370.602	30227	30273	30247
Cd 226.502	21.0669	20.9123	21.1811
Co 228.615	21.1772	21.1737	21.4886
Cr 267.716	41.4617	41.0954	41.1759
Cu 324.754	44.6335	44.5998	44.5354
Fe 271.441	2620.59	2617.62	2624.18
K 766.491	12450.6	12494.4	12469.0
Mg 279.078	12981.6	13000.5	13001.8
Mn 257.610	230.297	230.554	230.189
Mo 202.032	42.8000	43.3896	43.7418
Na 330.237	72052.0	71863.2	72350.1
Ni 231.604	45.4703	44.5182	45.2641
Pb 220.353	19.3546	22.5503	21.0934
Sb 206.834	19.4146	18.6758	22.6162
Se 196.026	43.9824	43.5181	49.1501
Sn 189.925	80.9315	81.9570	81.4706
Sr 216.596	620.219	618.678	620.967
Ti 334.941	41.6031	41.9261	41.3361
Tl 190.794	21.7521	18.4806	14.2354
V 292.401	43.9827	44.4223	44.3040
Zn 206.200	47.7195	47.9012	48.5142

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.0857	ppb	0.0855	0.4	1544.82
Al 308.215	2188.63	ppb	1.2500	0.1	14025.5
As 188.980	53.2526	ppb	1.9788	3.7	24.8438
B 249.678	227.176	ppb	0.8838	0.4	3250.37
Ba 389.178	45.7980	ppb	0.6135	1.3	1000.95
Be 313.042	21.1349	ppb	0.0195	0.1	39318.7
Ca 370.602	30249	ppb	23.50	0.1	71968
Cd 226.502	21.0534	ppb	0.1349	0.6	808.808
Co 228.615	21.2798	ppb	0.1808	0.8	273.732
Cr 267.716	41.2443	ppb	0.1925	0.5	2018.06
Cu 324.754	44.5896	ppb	0.0499	0.1	2586.01
Fe 271.441	2620.80	ppb	3.2819	0.1	4510.53
K 766.491	12471.3	ppb	21.9922	0.2	437379
Mg 279.078	12994.6	ppb	11.3189	0.1	27420.4
Mn 257.610	230.347	ppb	0.1872	0.1	57528.3
Mo 202.032	43.3105	ppb	0.4759	1.1	341.672
Na 330.237	72088.4	ppb	245.486	0.3	3511.77
Ni 231.604	45.0842	ppb	0.5009	1.1	127.815
Pb 220.353	20.9994	ppb	1.5999	7.6	60.7635
Sb 206.834	20.2355	ppb	2.0946	10.4	28.1576
Se 196.026	45.5502	ppb	3.1262	6.9	28.7050
Sn 189.925	81.4530	ppb	0.5130	0.6	59.2015
Sr 216.596	619.955	ppb	1.1673	0.2	7015.21
Ti 334.941	41.6218	ppb	0.2955	0.7	11708.6
Tl 190.794	18.1560	ppb	3.7688	20.8	2.0525
V 292.401	44.2364	ppb	0.2275	0.5	1149.05
Zn 206.200	48.0450	ppb	0.4164	0.8	7548832

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

480-38428-m-1-a (Samp) 5/22/2013, 5:06:24 AM Rack 4, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7455	0.2752	0.2025
Al 308.215	1082.40	1067.28	1080.92
As 188.980	22.0275	21.0072	17.1908
B 249.678	33.5876	32.5525	31.9989
Ba 389.178	167.361	166.299	166.550
Be 313.042	0.0934	0.1033	0.0981
Ca 370.602	20089	19931	20046
Cd 226.502	0.1726	0.0052	0.0670
Co 228.615	-0.1147u	0.3125	0.0161
Cr 267.716	1.3759	1.2023	1.1256
Cu 324.754	1.1493	0.9709	1.2490
Fe 271.441	672.615	666.634	665.938
K 766.491	832.969	823.484	835.631
Mg 279.078	3544.84	3519.99	3534.60
Mn 257.610	251.517	249.955	250.900
Mo 202.032	1.5845	1.6375	1.6980
Na 330.237	42271.3	42022.2	42619.8
Ni 231.604	0.8875	-0.8284u	0.9761
Pb 220.353	-0.6864u	0.5831	-2.1099u
Sb 206.834	-1.3792u	0.7046	0.7995
Se 196.026	-2.0225u	-1.0445u	-5.5186u
Sn 189.925	0.3716	2.6576	1.3452
Sr 216.596	151.692	151.586	150.659
Ti 334.941	13.8778	14.4289	13.9916
Tl 190.794	-1.6971u	4.9988	1.5043
V 292.401	1.9141	1.8428	1.5092
Zn 206.200	3.1975	3.0805	1.7737

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4077	ppb	0.2948	72.3	-20.7684
Al 308.215	1076.87	ppb	8.3350	0.8	6997.19
As 188.980	20.0752	ppb	2.5495	12.7	4.8789
B 249.678	32.7130	ppb	0.8064	2.5	735.647
Ba 389.178	166.737	ppb	0.5548	0.3	3532.59
Be 313.042	0.0983	ppb	0.0050	5.1	-38.4738
Ca 370.602	20022	ppb	81.71	0.4	47706
Cd 226.502	0.0816	ppb	0.0846	103.7	26.2523
Co 228.615	0.0713	ppb	0.2189	307.1	9.9789
Cr 267.716	1.2346	ppb	0.1282	10.4	67.5955
Cu 324.754	1.1231	ppb	0.1409	12.5	199.696
Fe 271.441	668.396	ppb	3.6707	0.5	1165.51
K 766.491	830.695	ppb	6.3851	0.8	29370.4
Mg 279.078	3533.14	ppb	12.4863	0.4	7476.49
Mn 257.610	250.791	ppb	0.7870	0.3	62533.0
Mo 202.032	1.6400	ppb	0.0568	3.5	24.1011
Na 330.237	42304.4	ppb	300.172	0.7	2080.87
Ni 231.604	0.3451	ppb	1.0172	294.8	1.1429
Pb 220.353	-0.7378	ppb	1.3472	182.6	22.1547
Sb 206.834	0.0416	ppb	1.2314	2959.1	6.3041
Se 196.026	-2.8619	ppb	2.3522	82.2	4.6600
Sn 189.925	1.4582	ppb	1.1472	78.7	-11.7030
Sr 216.596	151.312	ppb	0.5678	0.4	1727.96
Ti 334.941	14.0994	ppb	0.2909	2.1	3925.20
Tl 190.794	1.6020	ppb	3.3490	209.1	-13.8930
V 292.401	1.7553	ppb	0.2162	12.3	38.6041
Zn 206.200	2.6839	ppb	0.7994	29.4	94158

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

480-38428-d-1-a (Samp) **5/22/2013, 5:22:59 AM** **Rack 4, Tube 27****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4700	0.1170	0.0006u
Al 308.215	898.869	904.601	907.824
As 188.980	20.9934	16.5713	17.1246
B 249.678	30.4733	30.7154	30.0543
Ba 389.178	166.736	168.061	166.927
Be 313.042	0.0817	0.0854	0.0825
Ca 370.602	20251	20383	20258
Cd 226.502	-0.0465u	-0.0014	-0.0372
Co 228.615	-0.1921u	0.2716	-0.4184u
Cr 267.716	1.0207	1.0067	1.1317
Cu 324.754	1.0210	0.9675	0.7464
Fe 271.441	604.329	606.138	601.667
K 766.491	766.152	767.074	767.201
Mg 279.078	3548.58	3559.94	3540.07
Mn 257.610	254.776	255.534	254.148
Mo 202.032	1.4899	1.3760	1.2601
Na 330.237	42191.7	42112.5	41906.9
Ni 231.604	0.9092	1.7123	0.7457
Pb 220.353	0.3597	-0.5979u	0.8351
Sb 206.834	-4.4301u	0.1197	-0.4278u
Se 196.026	12.0832	-6.2609u	5.3564
Sn 189.925	4.3556	1.2950	0.3407
Sr 216.596	153.794	154.582	153.785
Ti 334.941	11.4628	11.9234	11.7751
Tl 190.794	3.0737	7.1219	-2.0106u
V 292.401	1.5765	1.5813	1.6242
Zn 206.200	3.2848	4.2365	5.5605

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1959	ppb	0.2445	124.8	-37.1314
Al 308.215	903.765	ppb	4.5358	0.5	5902.90
As 188.980	18.2298	ppb	2.4093	13.2	3.7690
B 249.678	30.4143	ppb	0.3345	1.1	705.978
Ba 389.178	167.241	ppb	0.7163	0.4	3543.20
Be 313.042	0.0832	ppb	0.0019	2.3	-66.4821
Ca 370.602	20297	ppb	74.13	0.4	48366
Cd 226.502	-0.0284	ppb	0.0238	83.9	21.9730
Co 228.615	-0.1130	ppb	0.3518	311.3	7.6262
Cr 267.716	1.0531	ppb	0.0685	6.5	58.7425
Cu 324.754	0.9116	ppb	0.1455	16.0	188.067
Fe 271.441	604.044	ppb	2.2491	0.4	1055.35
K 766.491	766.809	ppb	0.5726	0.1	27131.2
Mg 279.078	3549.53	ppb	9.9669	0.3	7511.01
Mn 257.610	254.820	ppb	0.6941	0.3	63536.7
Mo 202.032	1.3753	ppb	0.1149	8.4	22.0869
Na 330.237	42070.3	ppb	146.999	0.3	2069.64
Ni 231.604	1.1224	ppb	0.5174	46.1	3.3415
Pb 220.353	0.1990	ppb	0.7299	366.8	23.8209
Sb 206.834	-1.5794	ppb	2.4839	157.3	4.5543
Se 196.026	3.7262	ppb	9.2800	249.0	7.9319
Sn 189.925	1.9971	ppb	2.0975	105.0	-11.2253
Sr 216.596	154.054	ppb	0.4577	0.3	1758.90
Ti 334.941	11.7204	ppb	0.2351	2.0	3256.00
Tl 190.794	2.7283	ppb	4.5761	167.7	-12.8068
V 292.401	1.5940	ppb	0.0262	1.6	34.3759
Zn 206.200	4.3606	ppb	1.1429	26.2	7148634

E05212013.vvq. All Data Report 5/22/2013, 9:34:14 AM

560-39958-b-1-a (Samp) 5/22/2013, 5:28:28 AM Rack 4, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1271	-0.0446u	0.2359
Al 308.215	7.8906	7.2675	6.2908
As 188.980	3.3475	-5.5490u	0.3816
B 249.678	17.1385	17.2610	17.5917
Ba 389.178	47.0452	47.0264	46.6166
Be 313.042	-0.0060u	0.0003	0.0015
Ca 370.602	8554	8619	8698
Cd 226.502	0.0994	0.0992	0.2752
Co 228.615	-0.0679u	0.0183	0.4731
Cr 267.716	-0.0440u	0.1841	-0.0104u
Cu 324.754	11.9698	11.6463	12.4868
Fe 271.441	21.1187	26.4854	22.6049
K 766.491	2442.48	2457.86	2461.67
Mg 279.078	2629.00	2640.25	2670.12
Mn 257.610	1.0450	1.0675	1.0888
Mo 202.032	0.3063	-0.3363u	-0.5495u
Na 330.237	17918.5	17965.3	18164.4
Ni 231.604	1.0447	0.6665	1.8206
Pb 220.353	-0.9864u	-3.0032u	0.0317
Sb 206.834	1.5042	2.7500	-3.8897u
Se 196.026	-0.1260u	6.4292	4.8462
Sn 189.925	3.9265	0.3509	-0.5233u
Sr 216.596	71.4510	72.6368	73.4988
Ti 334.941	-0.0625u	0.0139	0.0020
Tl 190.794	2.7131	1.8215	3.1291
V 292.401	0.0619	0.0584	0.3759
Zn 206.200	12.4031	13.4945	13.3397

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1061	ppb	0.1414	133.3	-41.4159
Al 308.215	7.1496	ppb	0.8064	11.3	234.583
As 188.980	-0.6066	ppb	4.5298	746.7	-7.5574
B 249.678	17.3304	ppb	0.2344	1.4	537.366
Ba 389.178	46.8961	ppb	0.2422	0.5	995.927
Be 313.042	-0.0014	ppb	0.0040	286.6	-226.062
Ca 370.602	8624	ppb	72.11	0.8	20569
Cd 226.502	0.1579	ppb	0.1015	64.3	27.1610
Co 228.615	0.1411	ppb	0.2907	205.9	10.5423
Cr 267.716	0.0432	ppb	0.1232	284.9	7.8342
Cu 324.754	12.0343	ppb	0.4239	3.5	798.116
Fe 271.441	23.4030	ppb	2.7709	11.8	61.6702
K 766.491	2454.00	ppb	10.1642	0.4	86267.9
Mg 279.078	2646.45	ppb	21.2515	0.8	5611.67
Mn 257.610	1.0671	ppb	0.0219	2.1	309.269
Mo 202.032	-0.1932	ppb	0.4455	230.6	10.1597
Na 330.237	18016.1	ppb	130.562	0.7	913.349
Ni 231.604	1.1773	ppb	0.5884	50.0	3.4835
Pb 220.353	-1.3193	ppb	1.5446	117.1	21.0529
Sb 206.834	0.1215	ppb	3.5292	2904.7	6.3878
Se 196.026	3.7165	ppb	3.4205	92.0	7.8605
Sn 189.925	1.2514	ppb	2.3576	188.4	-11.9002
Sr 216.596	72.5289	ppb	1.0281	1.4	837.591
Ti 334.941	-0.0155	ppb	0.0411	264.8	-47.9551
Tl 190.794	2.5546	ppb	0.6680	26.2	-12.5856
V 292.401	0.1654	ppb	0.1823	110.2	-2.9523
Zn 206.200	13.0791	ppb	0.5905	4.5	24.5669

E05212013.wvq. All Data Report 5/22/2013, 9:34:14 AM

CRI (Samp) 5/22/2013, 5:33:56 AM Rack 4, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.4424	9.9828	9.8944
Al 308.215	218.396	220.849	220.447
As 188.980	28.5936	24.4222	28.4841
B 249.678	86.5445	89.0819	87.5806
Ba 389.178	10.2419	10.7597	11.2462
Be 313.042	4.1255	4.1683	4.1280
Ca 370.602	489.3	495.0	498.3
Cd 226.502	5.0482	4.9698	5.1723
Co 228.615	10.6584	10.7495	10.0132
Cr 267.716	10.1980	10.1187	10.4499
Cu 324.754	20.5483	20.7363	20.8587
Fe 271.441	62.9091	49.6977	57.9356
K 766.491	990.170	1000.19	993.057
Mg 279.078	519.082	531.689	524.034
Mn 257.610	10.6657	10.8439	10.7326
Mo 202.032	9.7524	9.4980	10.2758
Na 330.237	932.582	825.089	894.755
Ni 231.604	40.3637	41.4541	39.8494
Pb 220.353	8.4856	8.9119	8.7344
Sb 206.834	17.3243	21.3916	15.4552
Se 196.026	16.2737	26.2548	19.3107
Sn 189.925	48.6711	51.2242	53.8453
Sr 216.596	9.5797	9.1937	10.0098
Ti 334.941	9.9069	10.0407	9.9369
Tl 190.794	25.9371	25.8348	25.1483
V 292.401	10.4418	10.5405	9.9667
Zn 206.200	21.2677	21.5634	20.7383

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.1065	ppb	0.2942	2.9	729.229
Al 308.215	219.897	ppb	1.3152	0.6	1578.24
As 188.980	27.1666	ppb	2.3773	8.8	9.1184
B 249.678	87.7357	ppb	1.2758	1.5	1448.67
Ba 389.178	10.7493	ppb	0.5022	4.7	226.783
Be 313.042	4.1406	ppb	0.0240	0.6	7522.07
Ca 370.602	494.2	ppb	4.539	0.9	1191
Cd 226.502	5.0634	ppb	0.1021	2.0	208.963
Co 228.615	10.4737	ppb	0.4014	3.8	139.301
Cr 267.716	10.2555	ppb	0.1730	1.7	505.226
Cu 324.754	20.7144	ppb	0.1564	0.8	1274.58
Fe 271.441	56.8475	ppb	6.6726	11.7	120.604
K 766.491	994.474	ppb	5.1605	0.5	35110.9
Mg 279.078	524.935	ppb	6.3517	1.2	1139.59
Mn 257.610	10.7474	ppb	0.0900	0.8	2702.50
Mo 202.032	9.8421	ppb	0.3966	4.0	86.6611
Na 330.237	884.142	ppb	54.5265	6.2	89.5388
Ni 231.604	40.5557	ppb	0.8194	2.0	114.940
Pb 220.353	8.7106	ppb	0.2141	2.5	38.8809
Sb 206.834	18.0570	ppb	3.0353	16.8	25.7567
Se 196.026	20.6131	ppb	5.1164	24.8	16.2529
Sn 189.925	51.2468	ppb	2.5872	5.0	32.3944
Sr 216.596	9.5944	ppb	0.4083	4.3	125.532
Ti 334.941	9.9615	ppb	0.0703	0.7	2750.52
Tl 190.794	25.6401	ppb	0.4289	1.7	9.7179
V 292.401	10.3163	ppb	0.3068	3.0	262.513
Zn 206.200	21.1898	ppb	0.4180	2.0	264.112

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Batch Number: 276285 Batch Start Date: 05/10/13 11:07 Batch Analyst: Boyuk, Brian

Batch Method: 3010A Batch End Date: 05/10/13 15:49

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00002	MS_LCS1_WK 00003	MS_LCS2_wk 00144
MB 680-276285/1		3010A, 6010C			50 mL	50 mL			
LCS 680-276285/2		3010A, 6010C			50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-90039-B-9 MS		3010A, 6010C	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-90039-B-9 MSD		3010A, 6010C	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-90122-A-1	25LM20098	3010A, 6010C	T	<2	50 mL	50 mL			
680-90122-A-2	25LM20099	3010A, 6010C	T	<2	50 mL	50 mL			
680-90122-A-4	25LM20102	3010A, 6010C	T	<2	50 mL	50 mL			
680-90122-A-6	25LM20105	3010A, 6010C	T	<2	50 mL	50 mL			

Batch Notes	
Lot # of hydrochloric acid	24317
Lot # of Nitric Acid	LO8022
Hot Block ID number	HB5
Pipette ID	ME8
ID number of the thermometer	MEPrep13
Digestion Tube/Cup Lot #	ML27KK03
Uncorrected Temperature	93 Degrees C

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.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Batch Number: 277276 Batch Start Date: 05/20/13 11:17 Batch Analyst: Kennedy, Michael

Batch Method: 3010A Batch End Date: 05/20/13 15:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00004	MS_LCS1_WK 00004	MS_LCS2_wk 00145
MB 680-277276/1		3010A, 6010C			50 mL	50 mL			
LCS 680-277276/2		3010A, 6010C			50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-90122-I-3	25LM20101	3010A, 6010C	T	<2	50 mL	50 mL			
680-90122-A-3 MS	25LM20101	3010A, 6010C	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-90122-I-3 MSD	25LM20101	3010A, 6010C	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL

Batch Notes	
Lot # of hydrochloric acid	24317
Lot # of Nitric Acid	L10022
Hot Block ID number	7
Oven, Bath or Block Temperature 1	93 Degrees C
Pipette ID	ME 8
ID number of the thermometer	MEPREP 13
Digestion Tube/Cup Lot #	ML27KK03

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: 680-90122-1

SDG No.: _____

Project: Seneca Army Depot - LTM Monitoring

Client Sample ID	Lab Sample ID
<u>25LM20098</u>	<u>680-90122-1</u>
<u>25LM20099</u>	<u>680-90122-2</u>
<u>25LM20101</u>	<u>680-90122-3</u>
<u>25LM20102</u>	<u>680-90122-4</u>
<u>25LM20105</u>	<u>680-90122-6</u>

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 25LM20098

Lab Sample ID: 680-90122-1

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/08/2013 10:22

Reporting Basis: WET

Date Received: 05/09/2013 08:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.19	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
16887-00-6	Chloride	ND	5.0	1.0	mg/L			5	300.0
14808-79-8	Sulfate	18	5.0	2.6	mg/L			5	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 25LM20099

Lab Sample ID: 680-90122-2

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/08/2013 12:50

Reporting Basis: WET

Date Received: 05/09/2013 08:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.18	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
16887-00-6	Chloride	16	5.0	1.0	mg/L			5	300.0
14808-79-8	Sulfate	27	5.0	2.6	mg/L			5	300.0

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: 25LM20101

Lab Sample ID: 680-90122-3

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/08/2013 15:30

Reporting Basis: WET

Date Received: 05/09/2013 08:20

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
16887-00-6	Chloride	1.8	5.0	1.0	mg/L	J		5	300.0
14808-79-8	Sulfate	160	5.0	2.6	mg/L			5	300.0

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: 25LM20102

Lab Sample ID: 680-90122-4

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/08/2013 15:30

Reporting Basis: WET

Date Received: 05/09/2013 08:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.027	0.050	0.010	mg/L	J		1	353.2
14797-65-0	Nitrite as N	ND	0.050	0.010	mg/L			1	353.2
16887-00-6	Chloride	1.7	5.0	1.0	mg/L	J		5	300.0
14808-79-8	Sulfate	150	5.0	2.6	mg/L			5	300.0

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: 25LM20105

Lab Sample ID: 680-90122-6

Lab Name: TestAmerica Savannah

Job No.: 680-90122-1

SDG ID.:

Matrix: Water

Date Sampled: 05/07/2013 13:26

Reporting Basis: WET

Date Received: 05/09/2013 08:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	ND	5.0	1.0	mg/L			5	300.0
14808-79-8	Sulfate	14	5.0	2.6	mg/L			5	300.0

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Analyst: RW Batch Start Date: 05/09/2013
 Reporting Units: mg/L Analytical Batch No.: 276215

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	15:44	Nitrate as N	0.515	0.499	103			NO3+NO2 ICV_00037
			Nitrite as N	0.479	0.500	96			NO3+NO2 ICV_00037
8	ICB	15:45	Nitrate as N	ND					
			Nitrite as N	ND					
11	CCV	15:49	Nitrate as N	0.494	0.497	99	90-110		NO3/NO2 LCS_00044
			Nitrite as N	0.497	0.500	99	90-110		NO3/NO2 LCS_00044
12	CCB	15:50	Nitrate as N	ND					
			Nitrite as N	ND					
22	CCV	16:05	Nitrate as N	0.493	0.497	99	90-110		NO3/NO2 LCS_00044
			Nitrite as N	0.514	0.500	103	90-110		NO3/NO2 LCS_00044
23	CCB	16:06	Nitrate as N	ND					
			Nitrite as N	ND					
33	CCV	16:23	Nitrate as N	0.472	0.497	95	90-110		NO3/NO2 LCS_00044
			Nitrite as N	0.507	0.500	101	90-110		NO3/NO2 LCS_00044
34	CCB	16:24	Nitrate as N	ND					
			Nitrite as N	0.0129				J	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
 SDG No.: _____
 Analyst: PAT Batch Start Date: 05/17/2013
 Reporting Units: mg/L Analytical Batch No.: 277184

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	11:58	Chloride	50.0	50.0	100	90-110		IC_Anion-5_00003
			Sulfate	50.9	50.0	102	90-110		IC_Anion-5_00003
15	CCV	19:22	Chloride	50.0	50.0	100	90-110		IC_Anion-5_00003
			Sulfate	49.6	50.0	99	90-110		IC_Anion-5_00003
16	CCB	19:35	Chloride	ND					
			Sulfate	ND					
27	CCV	21:51	Chloride	50.0	50.0	100	90-110		IC_Anion-5_00003
			Sulfate	49.9	50.0	100	90-110		IC_Anion-5_00003
28	CCB	22:03	Chloride	ND					
			Sulfate	ND					
35	CCV	23:30	Chloride	49.8	50.0	100	90-110		IC_Anion-5_00003
			Sulfate	50.2	50.0	100	90-110		IC_Anion-5_00003
36	CCB	23:43	Chloride	ND					
			Sulfate	ND					

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

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90122-1
SDG No.: _____
Analyst: PAT Batch Start Date: 05/20/2013
Reporting Units: mg/L Analytical Batch No.: 277433

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	16:00	Sulfate	48.3	50.0	97	90-110		Anion-4_00147
8	CCV	19:06	Sulfate	47.4	50.0	95	90-110		Anion-4_00147
9	CCB	19:18	Sulfate	ND					
20	CCV	21:35	Sulfate	47.1	50.0	94	90-110		Anion-4_00147
21	CCB	21:47	Sulfate	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.: 680-90122-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 277184 Date: 05/17/2013 12:10							
300.0	MB 680-277184/2	Chloride	ND		mg/L	5.0	5
300.0	MB 680-277184/2	Sulfate	ND		mg/L	5.0	5
Batch ID: 277433 Date: 05/20/2013 16:12							
300.0	MB 680-277433/2	Sulfate	ND		mg/L	5.0	5
Batch ID: 276215 Date: 05/09/2013 15:51							
353.2	MB 680-276215/13	Nitrate as N	ND		mg/L	0.050	1
353.2	MB 680-276215/13	Nitrite as N	ND		mg/L	0.050	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 277184 Date: 05/17/2013 17:55											
300.0	680-89899-I-2	Chloride	160		mg/L						
300.0	680-89899-I-2	Chloride	205		mg/L	50.0	93	90-110			
	MS										
300.0	680-89899-I-2	Sulfate	13		mg/L						
300.0	680-89899-I-2	Sulfate	62.1		mg/L	50.0	99	90-110			
	MS										
Batch ID: 277184 Date: 05/17/2013 21:26											
300.0	680-90122-3	Chloride	1.8	J	mg/L						
300.0	680-90122-3	Chloride	51.2		mg/L	50.0	99	90-110			
	MS										
Batch ID: 277433 Date: 05/20/2013 18:41											
300.0	680-90122-3	Sulfate	160		mg/L						
300.0	680-90122-3	Sulfate	192		mg/L	50.0	59	90-110			F
	MS										
Batch ID: 276215 Date: 05/09/2013 15:55											
353.2	680-90122-3	Nitrite as N	ND		mg/L						
353.2	680-90122-3	Nitrite as N	0.509		mg/L	0.500	102	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.: 680-90122-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 277184 Date: 05/17/2013 18:08											
300.0	680-89899-I-2 MSD	Chloride	205		mg/L	50.0	93	90-110	0	30	
300.0	680-89899-I-2 MSD	Sulfate	62.0		mg/L	50.0	99	90-110	0	30	
Batch ID: 277184 Date: 05/17/2013 21:39											
300.0	680-90122-3 MSD	Chloride	50.8		mg/L	50.0	98	90-110	1	30	
Batch ID: 277433 Date: 05/20/2013 18:54											
300.0	680-90122-3 MSD	Sulfate	202		mg/L	50.0	78	90-110	5	30	F
Batch ID: 276215 Date: 05/09/2013 15:56											
353.2	680-90122-3 MSD	Nitrite as N	0.508		mg/L	0.500	102	90-110	0	10	

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

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 277184 Date: 05/17/2013 22:41								
300.0	25LM20105	680-90122-6	Chloride	ND	mg/L			
300.0	25LM20105	680-90122-6 DU	Chloride	ND	mg/L	NC	30	
300.0	25LM20105	680-90122-6	Sulfate	14	mg/L			
300.0	25LM20105	680-90122-6 DU	Sulfate	13.5	mg/L	1	30	
Batch ID: 276215 Date: 05/09/2013 16:16								
353.2		680-90140-E-2	Nitrate as N	46	mg/L			
353.2		680-90140-E-2 DU	Nitrate as N	44.9	mg/L	3	10	
353.2		680-90140-E-2	Nitrite as N	1.8	mg/L			J
353.2		680-90140-E-2 DU	Nitrite as N	1.81	mg/L	0.7	10	J

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.: 680-90122-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 277184 Date: 05/17/2013 12:23			LCS Source: IC_Anion-ICV_00003								
300.0	LCS 680-277184/3	Chloride	48.7		mg/L	50.0	97	90-110	2	30	
300.0	LCS 680-277184/3	Sulfate	49.0		mg/L	50.0	98	90-110	2	30	
Batch ID: 277433 Date: 05/20/2013 16:25			LCS Source: Anion_ICV_00119								
300.0	LCS 680-277433/3	Sulfate	52.6		mg/L	50.0	105	90-110	0	30	
Batch ID: 276215 Date: 05/09/2013 15:52			LCS Source: NO3/NO2 LCS_00044								
353.2	LCS 680-276215/14	Nitrite as N	0.501		mg/L	0.500	100	90-110			

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

7A-IN
 LAB CONTROL SAMPLE DUPLICATE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 277184 Date: 05/17/2013 12:35			LCSD Source: IC_Anion-ICV_00003								
300.0	LCSD 680-277184/4	Chloride	47.6		mg/L	50.0	95	90-110	2	30	
300.0	LCSD 680-277184/4	Sulfate	47.8		mg/L	50.0	96	90-110	2	30	
Batch ID: 277433 Date: 05/20/2013 16:37			LCSD Source: Anion_ICV_00119								
300.0	LCSD 680-277433/4	Sulfate	52.6		mg/L	50.0	105	90-110	0	30	

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: 680-90122-1
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: 680-90122-1
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

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-90122-1
SDG Number: _____
Matrix: Water Instrument ID: ICG
Method: 300.0 MDL Date: 07/14/2009 08:26

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		5	2.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-90122-1
SDG Number: _____
Matrix: Water Instrument ID: ICG
Method: 300.0 XMDL Date: 07/14/2009 08:29

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		5	2.6

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-90122-1
SDG Number: _____
Matrix: Water Instrument ID: ICL
Method: 300.0 MDL Date: 07/14/2009 08:26

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		5	1
Sulfate		5	2.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-90122-1
SDG Number: _____
Matrix: Water Instrument ID: ICL
Method: 300.0 XMDL Date: 07/14/2009 08:29

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		5	1
Sulfate		5	2.6

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: LACHAT2 Method: 353.2

Start Date: 05/09/2013 15:29 End Date: 05/09/2013 16:51

Lab Sample ID	D / F	Type	Time	Analytes															
				N - N o 2	N O 3														
IC 680-276215/1			15:29	X	X														
IC 680-276215/2			15:34	X	X														
IC 680-276215/3			15:36	X	X														
IC 680-276215/4			15:39	X	X														
IC 680-276215/5			15:41	X	X														
IC 680-276215/6			15:43	X	X														
ICV 680-276215/7	1		15:44	X	X														
ICB 680-276215/8	1		15:45	X	X														
ZZZZZZ			15:46																
ZZZZZZ			15:48																
CCV 680-276215/11	1		15:49	X	X														
CCB 680-276215/12	1		15:50	X	X														
MB 680-276215/13	1	T	15:51	X	X														
LCS 680-276215/14	1	T	15:52	X	X														
680-90122-3	1	T	15:54	X	X														
680-90122-3 MS	1	T	15:55	X	X														
680-90122-3 MSD	1	T	15:56	X	X														
680-90122-1	1	T	15:57	X	X														
680-90122-2	1	T	15:58	X	X														
680-90122-4	1	T	16:00	X	X														
ZZZZZZ			16:02																
CCV 680-276215/22	1		16:05	X	X														
CCB 680-276215/23	1		16:06	X	X														
ZZZZZZ			16:07																
ZZZZZZ			16:08																
ZZZZZZ			16:11																
ZZZZZZ			16:13																
680-90140-E-2 DU	100	T	16:16	X	X														
ZZZZZZ			16:17																
ZZZZZZ			16:18																
ZZZZZZ			16:21																
ZZZZZZ			16:22																
CCV 680-276215/33	1		16:23	X	X														
CCB 680-276215/34	1		16:24	X	X														
ZZZZZZ			16:26																
ZZZZZZ			16:27																
ZZZZZZ			16:28																
ZZZZZZ			16:29																
ZZZZZZ			16:30																
CCV 680-276215/40			16:38																
CCB 680-276215/41			16:39																
ZZZZZZ			16:44																

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: LACHAT2 Method: 353.2

Start Date: 05/09/2013 15:29 End Date: 05/09/2013 16:51

Lab Sample ID	D / F	T y p e	Time	Analytes																
				N - N o 2	N O 3															
ZZZZZZ			16:47																	
CCV 680-276215/44			16:49																	
CCB 680-276215/45			16:51																	

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: ICG Method: 300.0

Start Date: 05/20/2013 16:00 End Date: 05/20/2013 21:47

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S O 4															
CCV 680-277433/1	5		16:00	X															
MB 680-277433/2	5	T	16:12	X															
LCS 680-277433/3	5	T	16:25	X															
LCSD 680-277433/4	5	T	16:37	X															
680-90122-3	5	T	18:29	X															
680-90122-3 MS	5	T	18:41	X															
680-90122-3 MSD	5	T	18:54	X															
CCV 680-277433/8	5		19:06	X															
CCB 680-277433/9	5		19:18	X															
ZZZZZZ			19:31																
ZZZZZZ			19:43																
ZZZZZZ			19:56																
ZZZZZZ			20:08																
ZZZZZZ			20:20																
ZZZZZZ			20:33																
ZZZZZZ			20:45																
ZZZZZZ			20:58																
ZZZZZZ			21:10																
ZZZZZZ			21:22																
CCV 680-277433/20	5		21:35	X															
CCB 680-277433/21	5		21:47	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Instrument ID: ICL Method: 300.0

Start Date: 05/17/2013 11:58 End Date: 05/17/2013 23:43

Lab Sample ID	D / F	Type	Time	Analytes															
				CL	SO														
CCV 680-277184/1	5		11:58	X	X														
MB 680-277184/2	5	T	12:10	X	X														
LCS 680-277184/3	5	T	12:23	X	X														
LCSD 680-277184/4	5	T	12:35	X	X														
ZZZZZZ			17:18																
ZZZZZZ			17:31																
ZZZZZZ			17:43																
680-89899-I-2 MS	5	T	17:55	X	X														
680-89899-I-2 MSD	5	T	18:08	X	X														
ZZZZZZ			18:20																
ZZZZZZ			18:33																
ZZZZZZ			18:45																
ZZZZZZ			18:57																
ZZZZZZ			19:10																
CCV 680-277184/15	5		19:22	X	X														
CCB 680-277184/16	5		19:35	X	X														
ZZZZZZ			19:47																
ZZZZZZ			19:59																
ZZZZZZ			20:12																
ZZZZZZ			20:24																
ZZZZZZ			20:37																
680-90122-1	5	T	20:49	X	X														
680-90122-2	5	T	21:01	X	X														
680-90122-3	5	T	21:14	X															
680-90122-3 MS	5	T	21:26	X															
680-90122-3 MSD	5	T	21:39	X															
CCV 680-277184/27	5		21:51	X	X														
CCB 680-277184/28	5		22:03	X	X														
680-90122-4	5	T	22:16	X	X														
680-90122-6	5	T	22:28	X	X														
680-90122-6 DU	5	T	22:41	X	X														
ZZZZZZ			22:53																
ZZZZZZ			23:06																
ZZZZZZ			23:18																
CCV 680-277184/35	5		23:30	X	X														
CCB 680-277184/36	5		23:43	X	X														

Prep Types

T = Total/NA

Original Run Filename: OM_5-9-2013_15-27-58.OMN Created: 5/9/2013 15:27:58
 Original Run Author's Signature: [rossje]
 Current Run Filename: OM_5-9-2013_15-27-58.OMN Last Modified: 5/9/2013 16:52:50
 Current Run Author's Signature: [rossje]
 Description: 353.2 NITRATE+NITRITE
 LACHAT 2

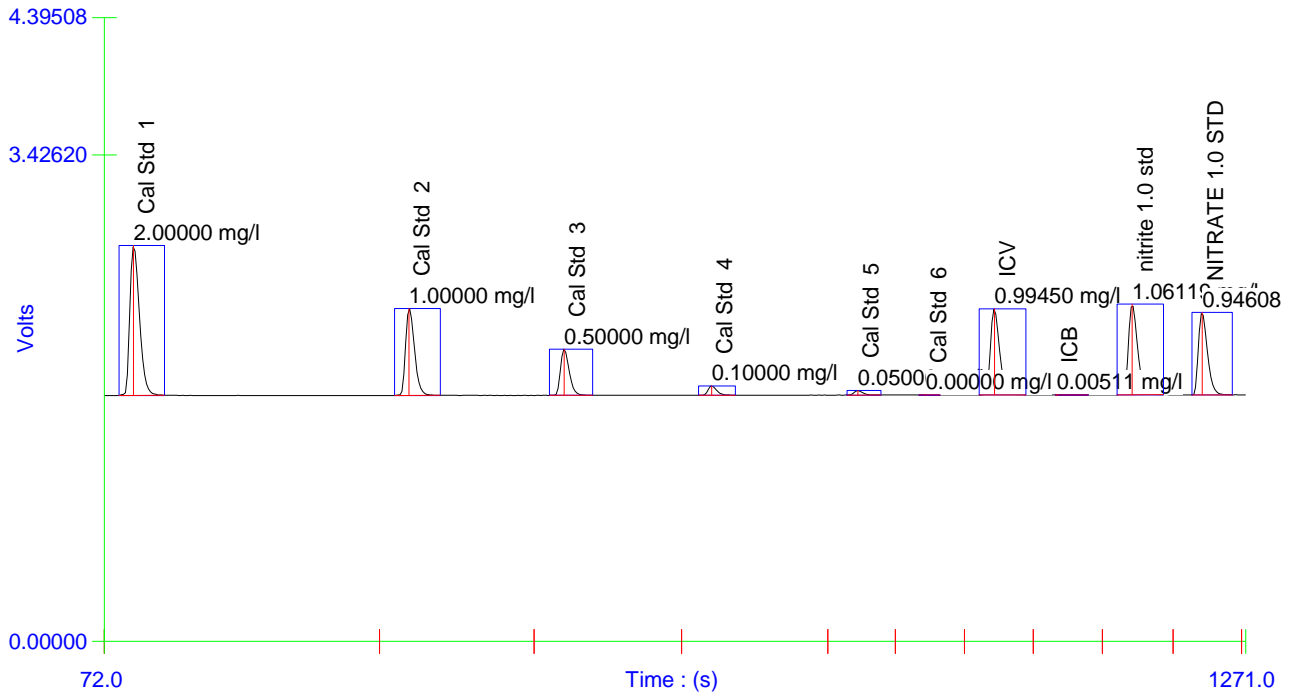
Sample	Cup No.	Channel 1		Channel 2		Detection Time	ADF	MDF
		NO3+NO2		NO2				
		Conc. (mg/l)	Area (V.s)	Conc. (mg/l)	Area (V.s)			
Cal Std 1	S5	2.00000	12.16674	1.00000	14.13415	5/9/2013@15:29:15		
Cal Std 2	S5	1.00000	6.63695	0.50000	7.00728	5/9/2013@15:34:04	2.00	
Cal Std 3	S5	0.50000	3.42658	0.25000	3.44739	5/9/2013@15:36:48	4.00	
Cal Std 4	S5	0.10000	0.68487	0.05000	0.67427	5/9/2013@15:39:22	20.00	
Cal Std 5	S5	0.05000	0.33155	0.02500	0.36671	5/9/2013@15:41:56	40.00	
Cal Std 6	S1	0.00000	-0.01984	0.00000	0.00475	5/9/2013@15:43:07		
ICV	S3	0.99450	6.57649	0.47926	6.74646	5/9/2013@15:44:20		
	Known Conc:	1.00000		0.50000				
	Calibration:	Table/Fig. : 1		Table/Fig. : 2				
ICB	S1	0.00511	-0.00199	0.00318	0.01958	5/9/2013@15:45:32		
	Known Conc:	0.00000		0.00000				
nitrite 1.0 std	S4	1.06119	6.97537	1.00555	14.18269	5/9/2013@15:46:45		
	Known Conc:	1.00000		1.00000				
NITRATE 1.0 STD	S6	0.94608	6.28397	0.00546	0.05174	5/9/2013@15:47:59		
	Known Conc:	1.00000		0.00000				
CCV	S2	0.99097	6.55528	0.49735	7.00203	5/9/2013@15:49:12		
	Known Conc:	1.00000		0.50000				
CCB	S1	0.00597	0.00446	0.00408	0.03225	5/9/2013@15:50:23		
	Known Conc:	0.00000		0.00000				
MB	S1	0.00497	-0.00302	0.00237	0.00820	5/9/2013@15:51:36		
	Known Conc:	0.00000		0.00000				
LCS	S2	0.98356	6.51062	0.50083	7.05127	5/9/2013@15:52:48		
	Known Conc:	1.00000		0.50000				
680-90122-A-3	1	0.01519	0.07284	0.00645	0.06578	5/9/2013@15:54:01		
680-90122-B-3 MS	2	0.98896	6.54314	0.50888	7.16498	5/9/2013@15:55:16		
680-90122-A-3 MSD	3	0.98733	6.53334	0.50816	7.15482	5/9/2013@15:56:28		
	Spiking Conc:	1.00000		0.50000				
680-90122-B-1	4	0.19801	1.39665	0.00523	0.04853	5/9/2013@15:57:41		
680-90122-B-2	5	0.18345	1.29341	0.00477	0.04206	5/9/2013@15:58:54		
680-90122-B-4	6	0.03475	0.21745	0.00818	0.09022	5/9/2013@16:00:08		
660-54239-o-1	7	6.33028	4.32891	3.12943	4.39643	5/9/2013@16:02:44	10.00	
660-54239-o-2	8	4.89917	25.09666	0.50163	7.06258	5/9/2013@16:03:56		
CCV	S2	1.00685	6.65072	0.51426	7.24095	5/9/2013@16:05:09		
	Known Conc:	1.00000		0.50000				
CCB	S1	0.01079	0.04021	0.00419	0.03379	5/9/2013@16:06:20		
	Known Conc:	0.00000		0.00000				
680-90063-e-3	9	0.24695	1.74096	0.00788	0.08597	5/9/2013@16:07:32		
680-90063-w-4	10	1.28998	8.31038	0.00294	0.01620	5/9/2013@16:08:45		
680-90063-m-1	11	4.02999	21.57704	0.00322	0.02018	5/9/2013@16:09:58		
680-90144-b-1	12	0.08488	0.58467	0.06440	0.88467	5/9/2013@16:11:10		
680-90140-e-2	13	47.94519	3.32513	1.79472	0.22824	5/9/2013@16:13:42	100.00	
680-90140-e-2 DU	13	46.65705	3.23947	1.80715	0.22999	5/9/2013@16:16:13	100.00	
680-90128-M-3	14	0.03648	0.23022	0.00333	0.02163	5/9/2013@16:17:24		
680-90128-M-7	15	0.01886	0.10003	0.00277	0.01379	5/9/2013@16:18:35		
680-90128-D-1	16	5.18239	3.58166	4.68191	6.59004	5/9/2013@16:21:15	10.00	
640-43522-A-1	17	0.03869	0.24647	0.00868	0.09725	5/9/2013@16:22:26		
CCV	S2	0.97821	6.47838	0.50663	7.13323	5/9/2013@16:23:39		
	Known Conc:	1.00000		0.50000				
CCB	S1	0.00291	-0.01829	0.01286	0.15634	5/9/2013@16:24:50		
	Known Conc:	0.00000		0.00000				
640-43522-A-2	18	0.01420	0.06553	-0.00050	-0.03244	5/9/2013@16:26:03		
640-43522-A-3	19	0.01574	0.07696	0.00608	0.06055	5/9/2013@16:27:16		
640-43522-A-4	20	0.01432	0.06639	0.00579	0.05642	5/9/2013@16:28:29		
640-43522-A-5	21	0.00488	-0.00367	0.00831	0.09208	5/9/2013@16:29:42		
640-43522-A-6	22	0.02531	0.14776	0.00541	0.05104	5/9/2013@16:30:55		
MB	S1	0.00318	-0.01633	0.00260	0.01137	5/9/2013@16:32:07		

	Known Conc:	0.00000		0.00000				
LCS	S2	0.96229	6.38219	0.49139	6.91778	5/9/2013@16:33:19		
	Known Conc:	1.00000		0.50000				
680-90128-m-5	23	0.02878	0.17342	0.01154	0.13775	5/9/2013@16:34:32		
680-90128-m-5 MS	24	0.99449	6.57644	0.51239	7.21454	5/9/2013@16:35:45		
680-90128-m-5 MSD	25	0.99639	6.58786	0.51301	7.22325	5/9/2013@16:36:57		
	Spiking Conc:	1.00000		0.50000				
CCV	S2	0.97809	6.47764	0.51273	7.21932	5/9/2013@16:38:09		
	Known Conc:	1.00000		0.50000				
CCB	S1	0.00867	0.02447	0.00443	0.03727	5/9/2013@16:39:21		
	Known Conc:	0.00000		0.00000				
640-43522-a-7	26	0.45386	3.15471	0.00677	0.07028	5/9/2013@16:40:33		
640-43522-A-8	27	0.08929	0.61677	0.00602	0.05964	5/9/2013@16:41:46		
660-54239-o-2	8	6.57062	8.44842	0.52976	1.47172	5/9/2013@16:44:26	5.00	
680-90063-m-1	11	4.84061	6.41746	0.01801	0.02555	5/9/2013@16:47:05	5.00	
CCV	S2	0.96929	6.42449	0.50781	7.14985	5/9/2013@16:49:51		
	Known Conc:	1.00000		0.50000				
CCB	S1	0.00575	0.00280	0.00378	0.02800	5/9/2013@16:51:03		
	Known Conc:	0.00000		0.00000				

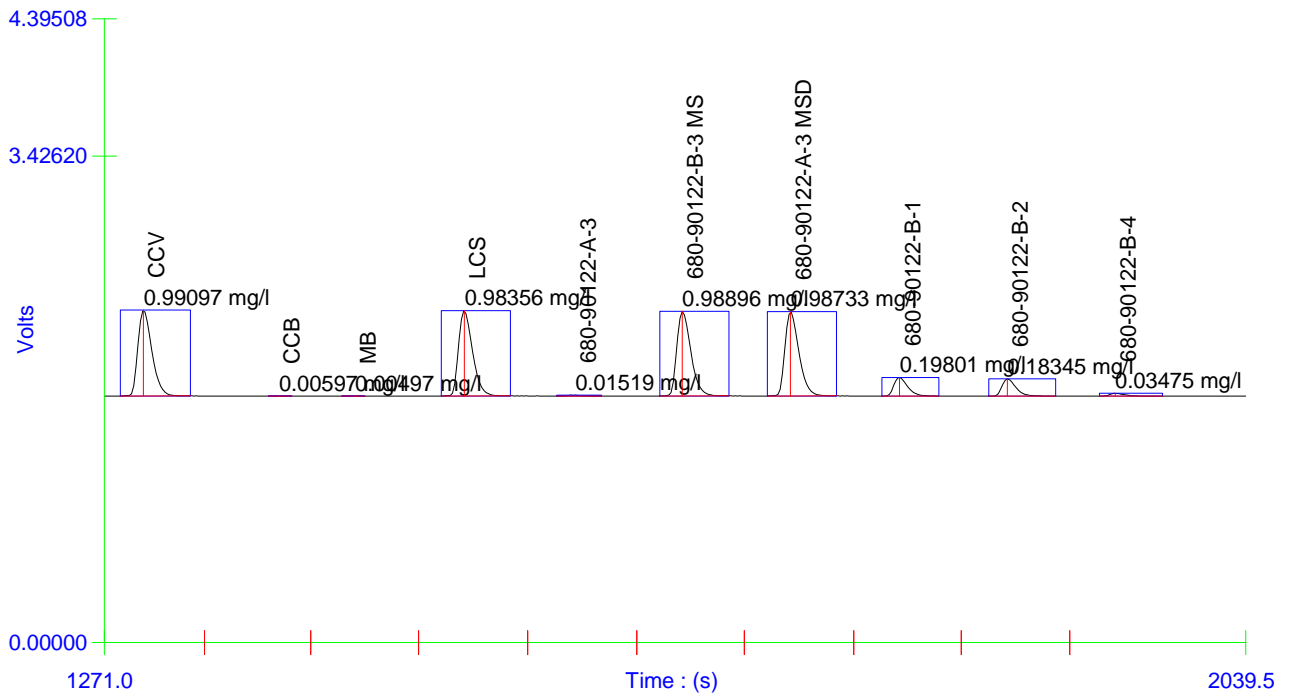
Analyte Properties Table for : OM_5-9-2013_15-27-58.OMN

Property	Channel 1	Channel 2
	NO3+NO2	NO2
Concentration Units	mg/l	mg/l
Calibration Fit Type	Second Order	First Order
Clear Calibration	No	No
Force through Zero	No	No
Calibration Weighting	None	None
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

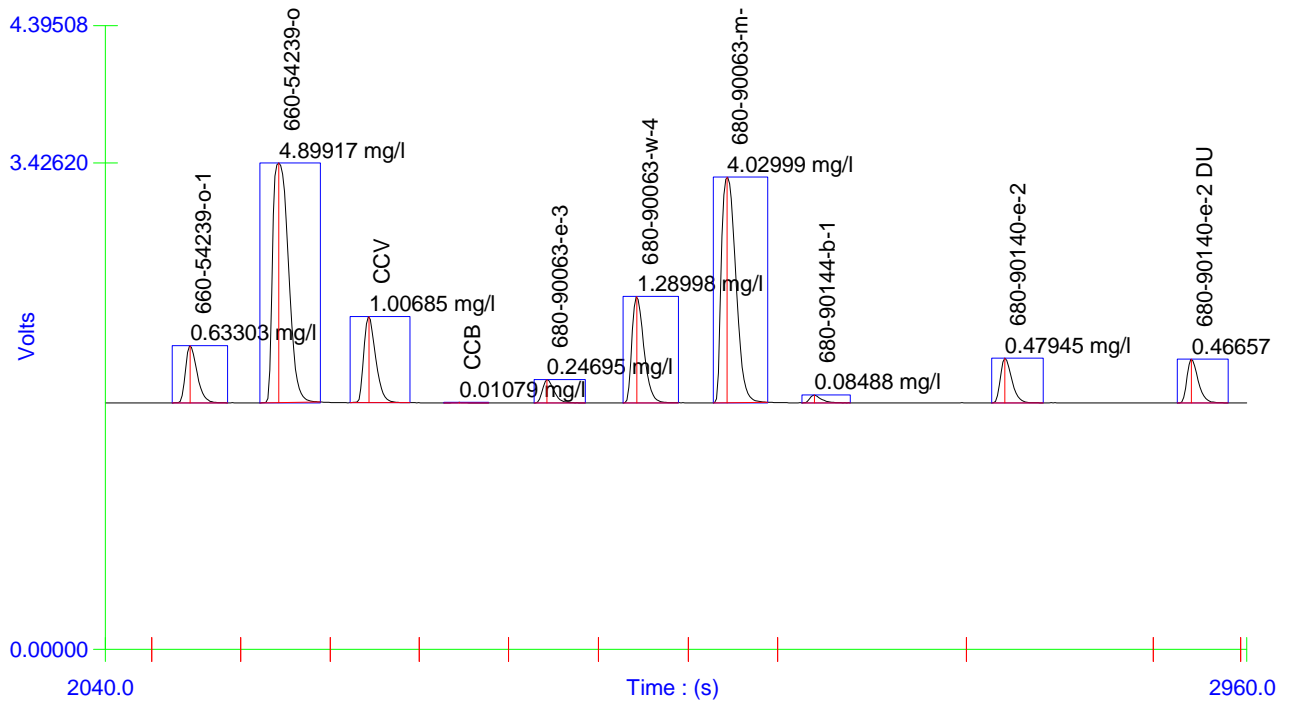
Channel 1 - Set: 1 / 6



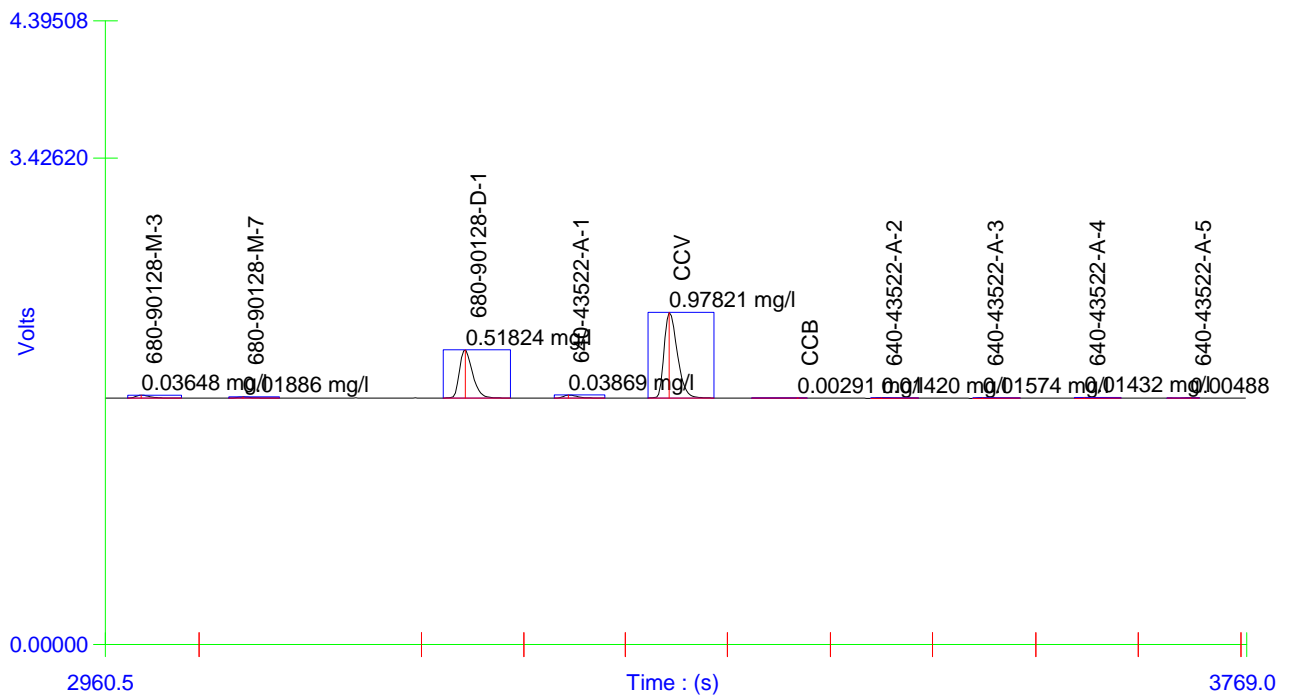
Channel 1 - Set: 2 / 6



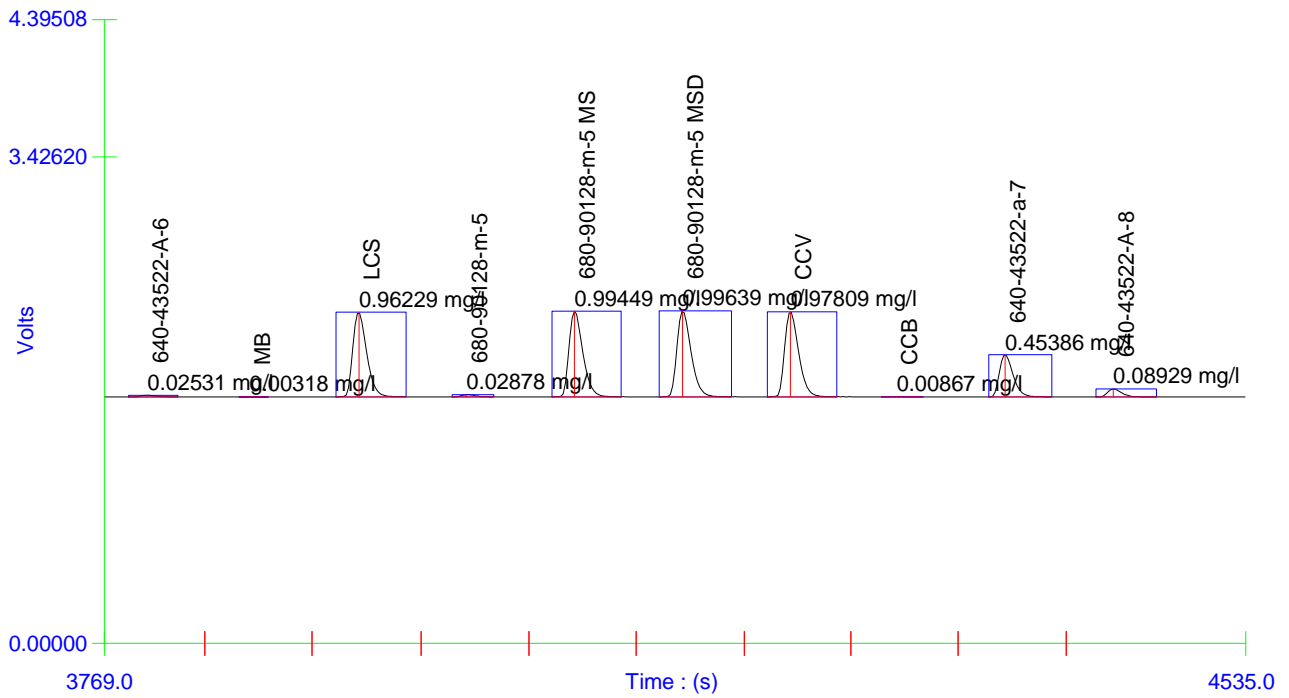
Channel 1 - Set: 3 / 6



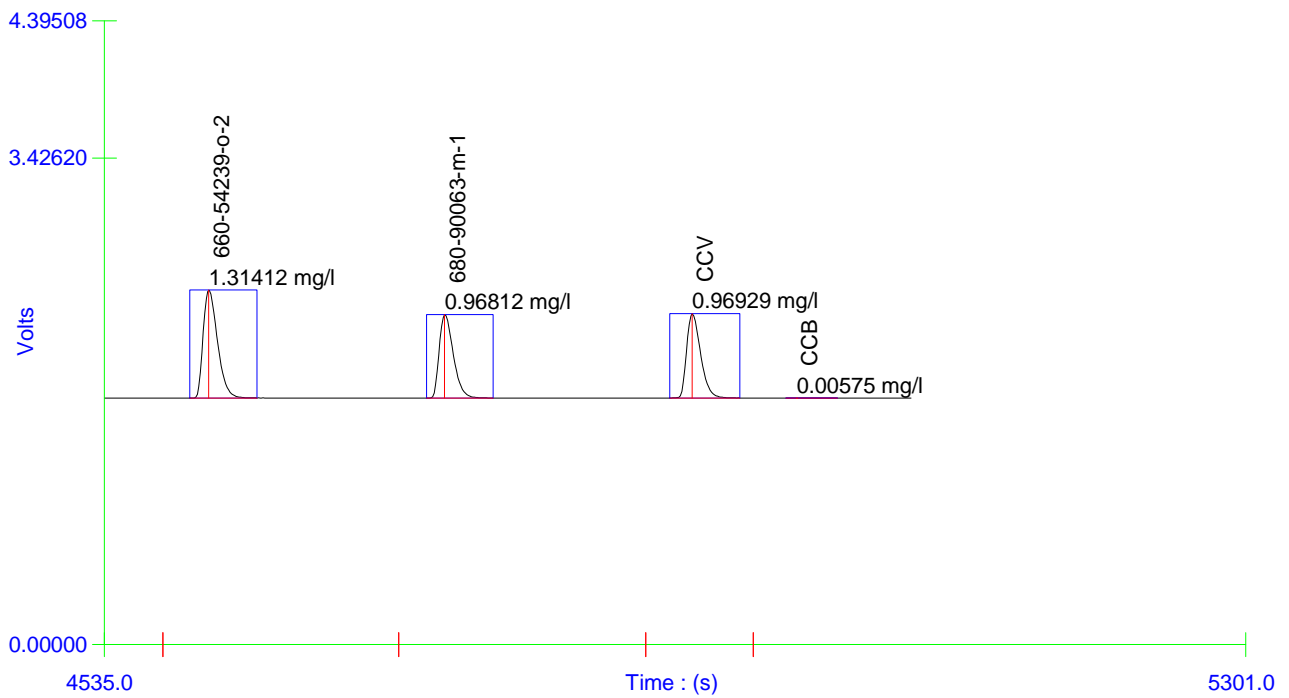
Channel 1 - Set: 4 / 6



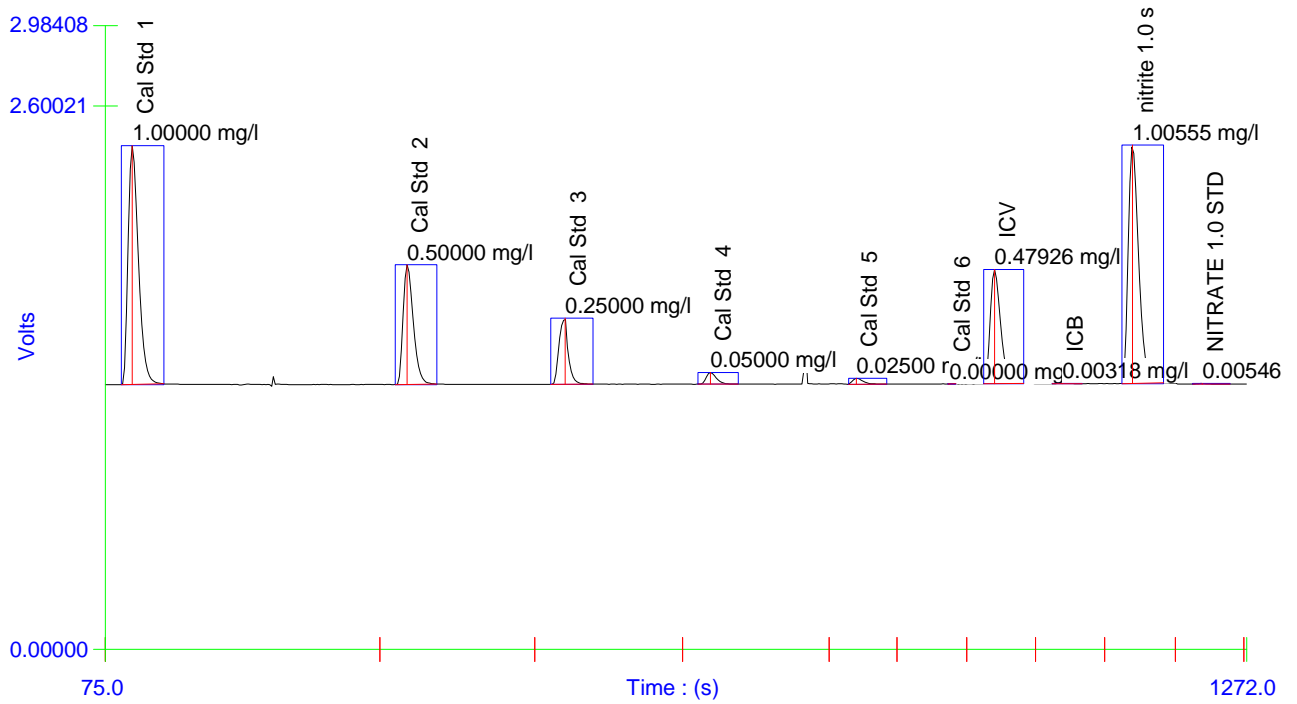
Channel 1 - Set: 5 / 6



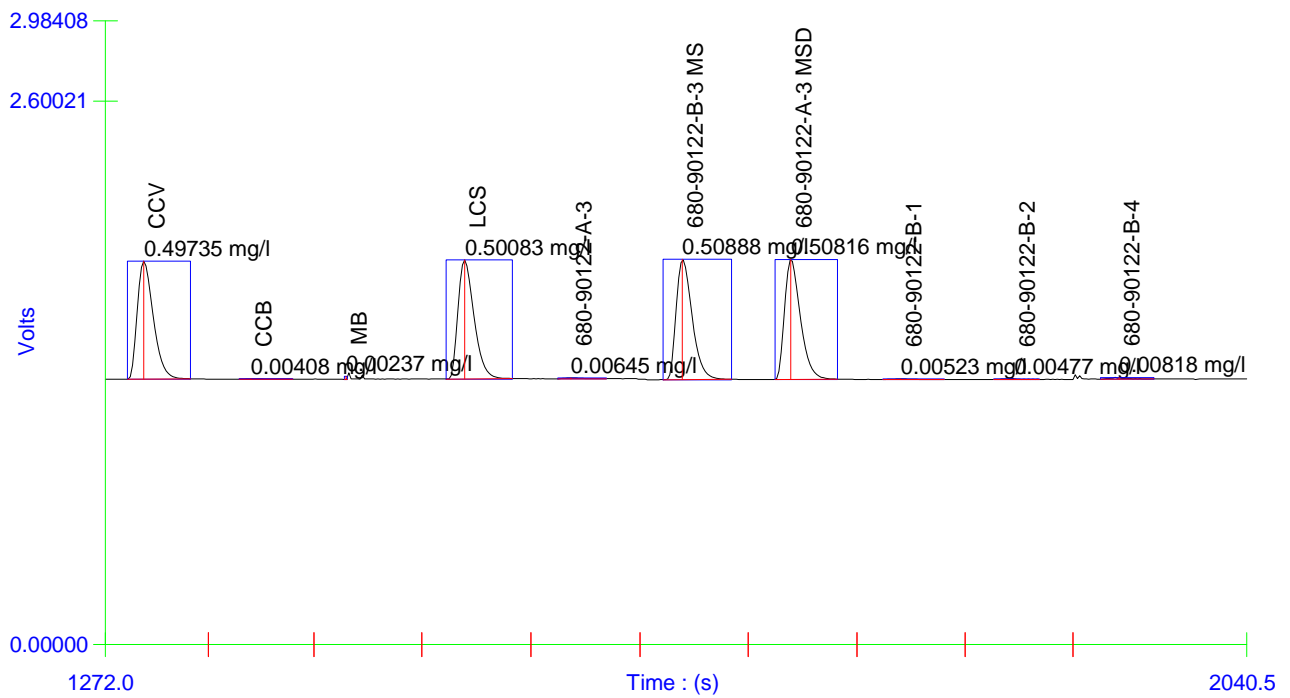
Channel 1 - Set: 6 / 6



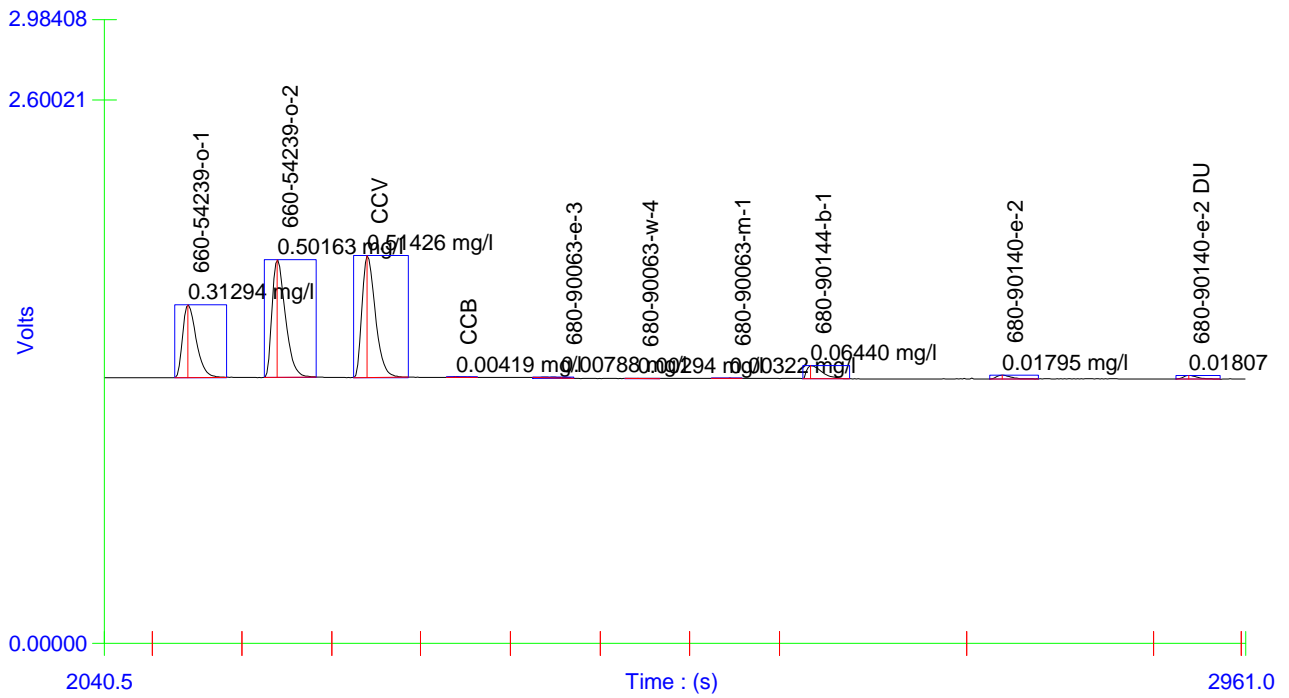
Channel 2 - Set: 1 / 6



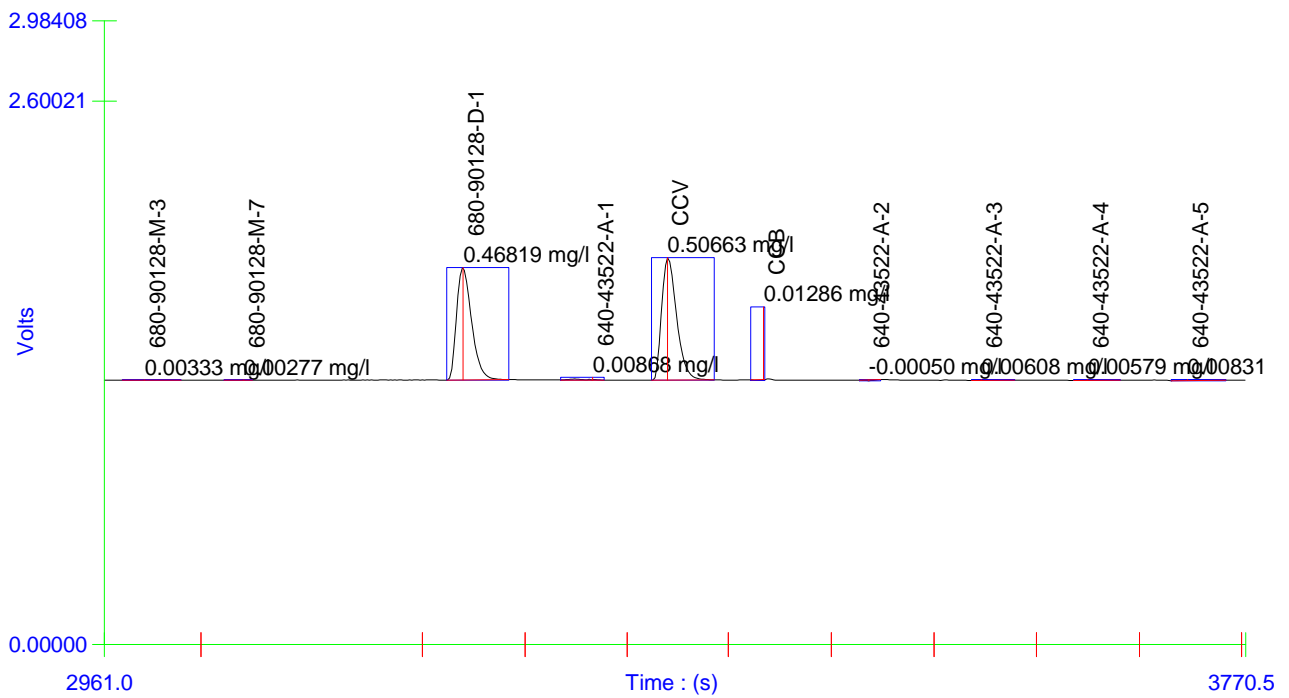
Channel 2 - Set: 2 / 6



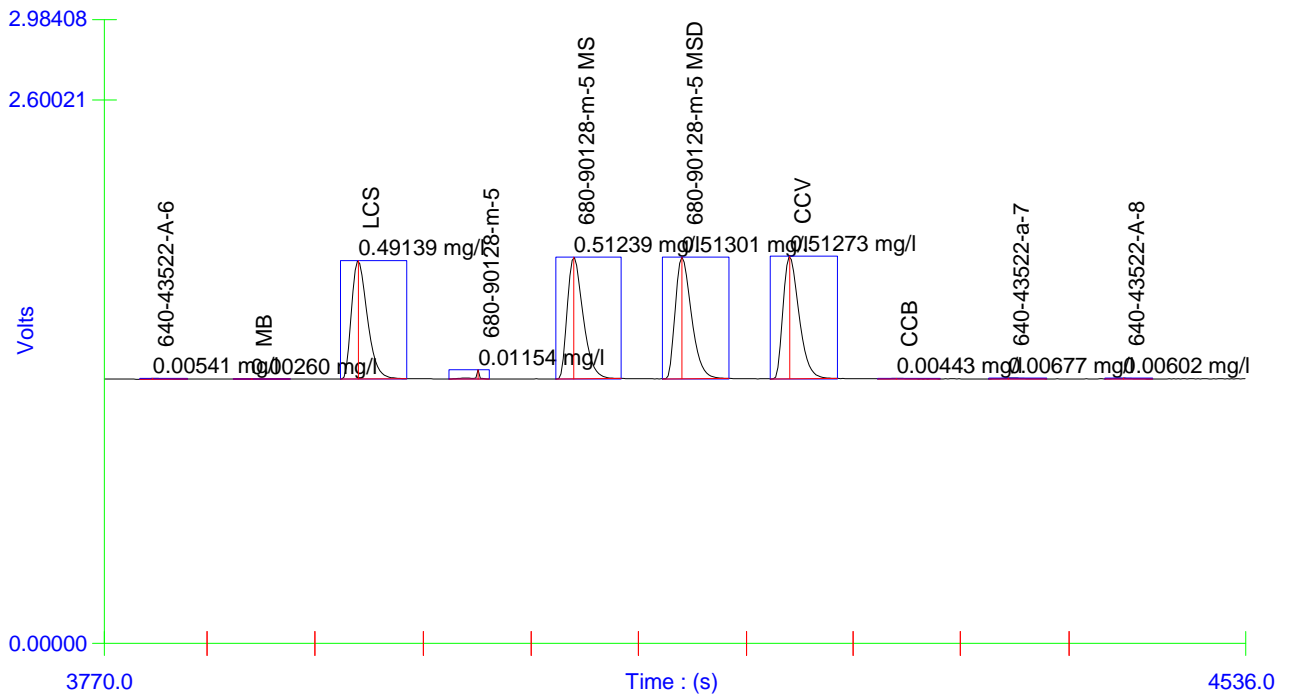
Channel 2 - Set: 3 / 6



Channel 2 - Set: 4 / 6



Channel 2 - Set: 5 / 6



Channel 2 - Set: 6 / 6

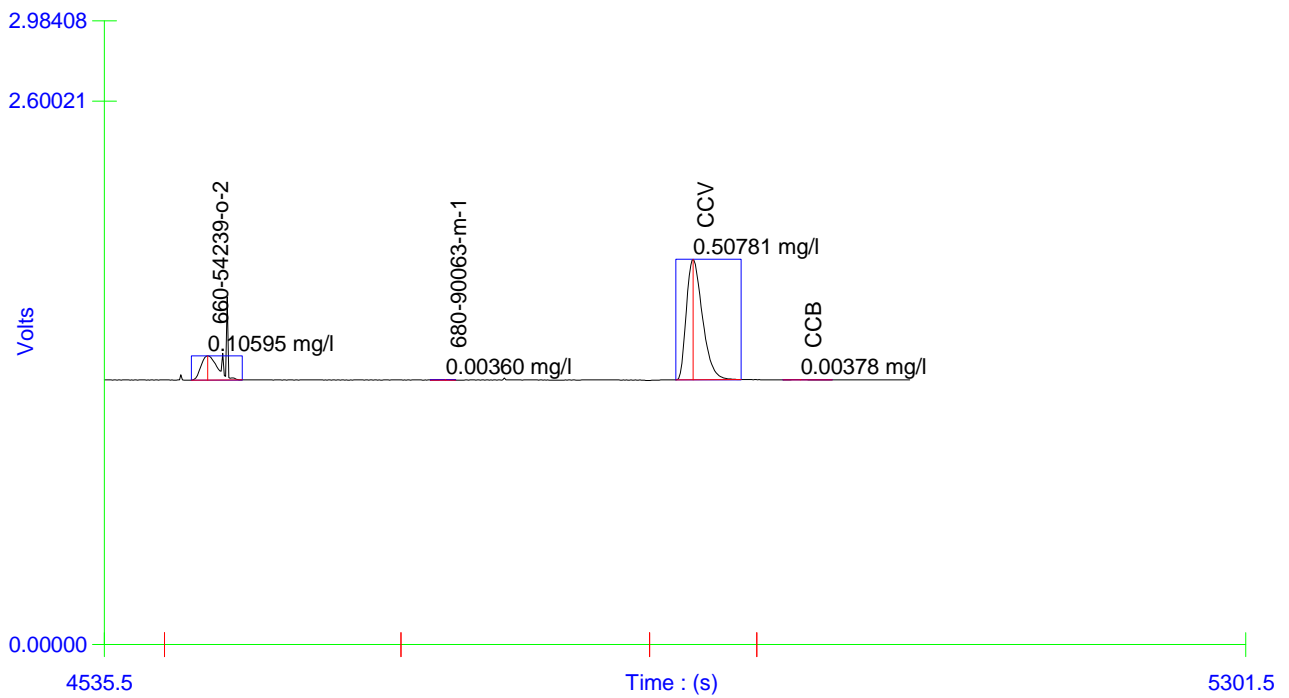


Table : 1 (NO3+NO2)

	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	12.16674	1.05430	0.0	0.0	1.99906	5/9/2013	15:29:15
2	1.00000	1	6.63695	0.61302	0.0	-0.1	1.00456	5/9/2013	15:34:04
3	0.50000	1	3.42658	0.32447	0.0	0.4	0.49475	5/9/2013	15:36:48
4	0.10000	1	0.68487	0.06575	0.0	0.5	0.09866	5/9/2013	15:39:22
5	0.05000	1	0.33155	0.03161	0.0	0.1	0.05025	5/9/2013	15:41:56
6	0.00000	1	-0.01984	-0.00178			0.00271	5/9/2013	15:43:07

Figure : 1 (NO3+NO2)

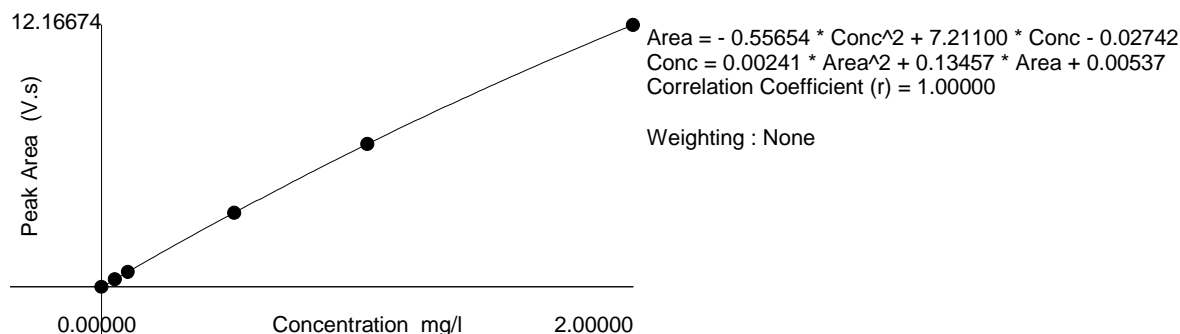
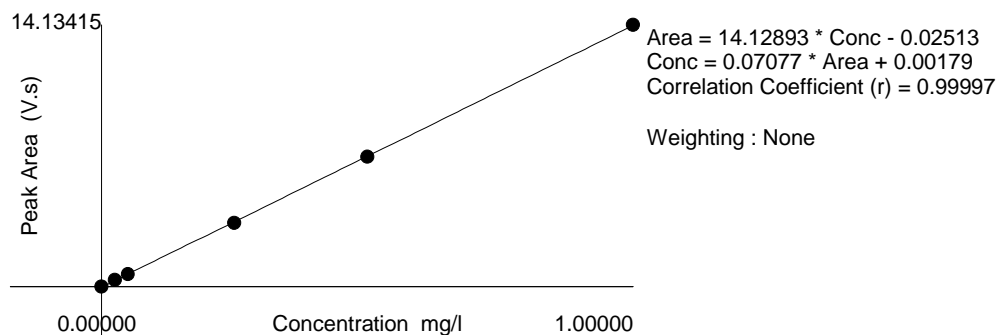


Table : 2 (NO2)

	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	14.13415	1.14035	0.0	-0.2	1.00211	5/9/2013	15:29:18
2	0.50000	1	7.00728	0.57207	0.0	0.5	0.49772	5/9/2013	15:34:07
3	0.25000	1	3.44739	0.31509	0.0	1.7	0.24578	5/9/2013	15:36:49
4	0.05000	1	0.67427	0.05584	0.0	1.0	0.04951	5/9/2013	15:39:25
5	0.02500	1	0.36671	0.02827	0.0	-11.8	0.02775	5/9/2013	15:41:58
6	0.00000	1	0.00475	0.00128			0.00213	5/9/2013	15:43:10

Figure : 2 (NO2)



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G042613A-NPW.b/0027.d
Lab Smp Id: IC Client Smp ID: ANION-1
Inj Date : 26-APR-2013 15:51
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-1~2G042613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G042613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 29-Apr-2013 13:16 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 15:51 Cal File: 0027.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.083	3.083	0.000	59123	0.20000	0.19	

4	BROMIDE					CAS #: 24959-67-9
6.208	6.208	0.000	59362	1.00000	0.69	

2	CHLORIDE					CAS #: 16887-00-6
4.042	4.042	0.000	161264	1.00000	0.82	

3	SULFATE					CAS #: 14808-79-8
4.808	4.808	0.000	173475	1.00000	1.2	

Data File: 0027.d

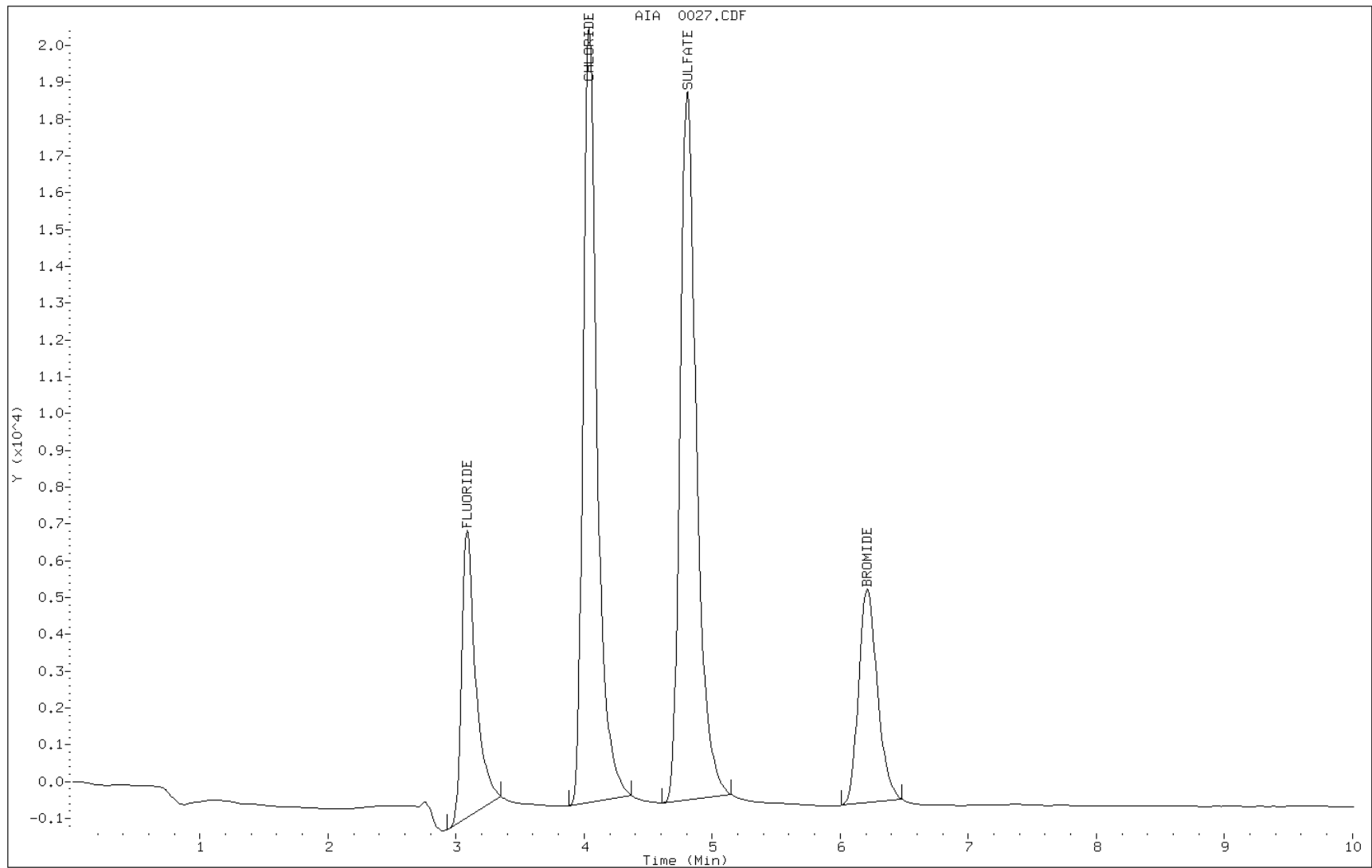
Date: 26-APR-2013 15:51

Client ID: ANION-1

Instrument: LCGIC.i

Sample Info: ANION-1~2G042613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G042613A-NPW.b/0028.d
Lab Smp Id: IC Client Smp ID: ANION-2
Inj Date : 26-APR-2013 16:03
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-2~2G042613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G042613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 29-Apr-2013 13:16 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:03 Cal File: 0028.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.083	3.083	0.000	123871	0.40000	0.39	

4	BROMIDE					CAS #: 24959-67-9
6.208	6.208	0.000	133321	2.00000	1.6	

2	CHLORIDE					CAS #: 16887-00-6
4.033	4.033	0.000	351252	2.00000	1.8	

3	SULFATE					CAS #: 14808-79-8
4.792	4.792	0.000	329476	2.00000	2.2	

Data File: 0028.d

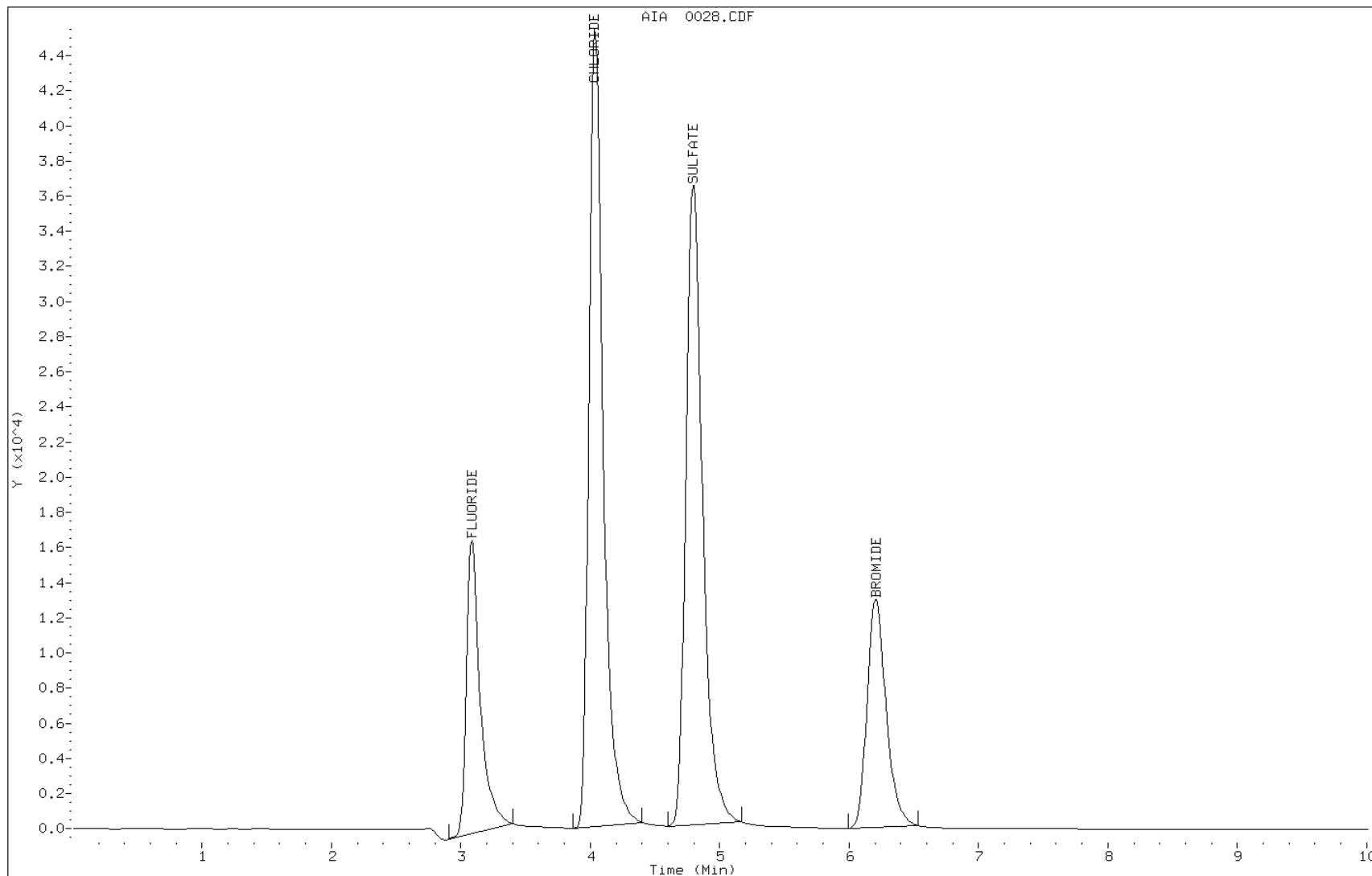
Date: 26-APR-2013 16:03

Client ID: ANION-2

Instrument: LCGIC.i

Sample Info: ANION-2~2G042613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G042613A-NPW.b/0029.d
Lab Smp Id: IC Client Smp ID: ANION-3
Inj Date : 26-APR-2013 16:16
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-3~2G042613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G042613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 29-Apr-2013 13:16 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:16 Cal File: 0029.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.083	3.083	0.000	316257	1.00000	1.0	

4	BROMIDE				CAS #: 24959-67-9	
6.200	6.200	0.000	375419	5.00000	4.4	

2	CHLORIDE				CAS #: 16887-00-6	
4.042	4.042	0.000	927871	5.00000	4.7	

3	SULFATE				CAS #: 14808-79-8	
4.800	4.800	0.000	756935	5.00000	5.1	

Data File: 0029.d

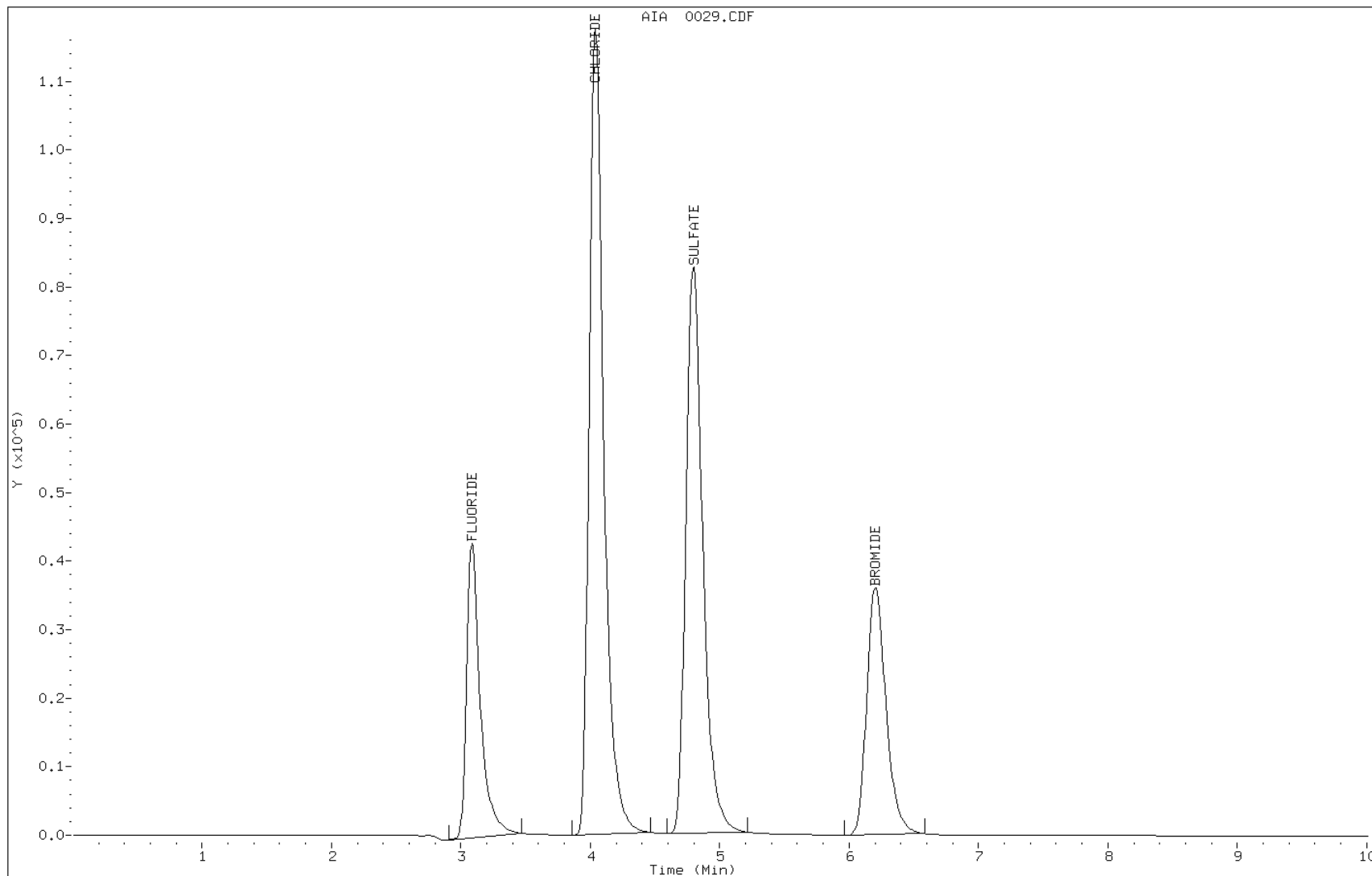
Date: 26-APR-2013 16:16

Client ID: ANION-3

Instrument: LCGIC.i

Sample Info: ANION-3~2G042613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G042613A-NPW.b/0030.d
Lab Smp Id: IC Client Smp ID: ANION-4
Inj Date : 26-APR-2013 16:28
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-4~2G042613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G042613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 29-Apr-2013 13:16 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:28 Cal File: 0030.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.083	3.083	0.000	640138	2.00000	2.0	

4	BROMIDE				CAS #: 24959-67-9	
6.200	6.200	0.000	798625	10.0000	9.3	

2	CHLORIDE				CAS #: 16887-00-6	
4.033	4.033	0.000	1903999	10.0000	9.7	

3	SULFATE				CAS #: 14808-79-8	
4.792	4.792	0.000	1475410	10.0000	10	

Data File: 0030.d

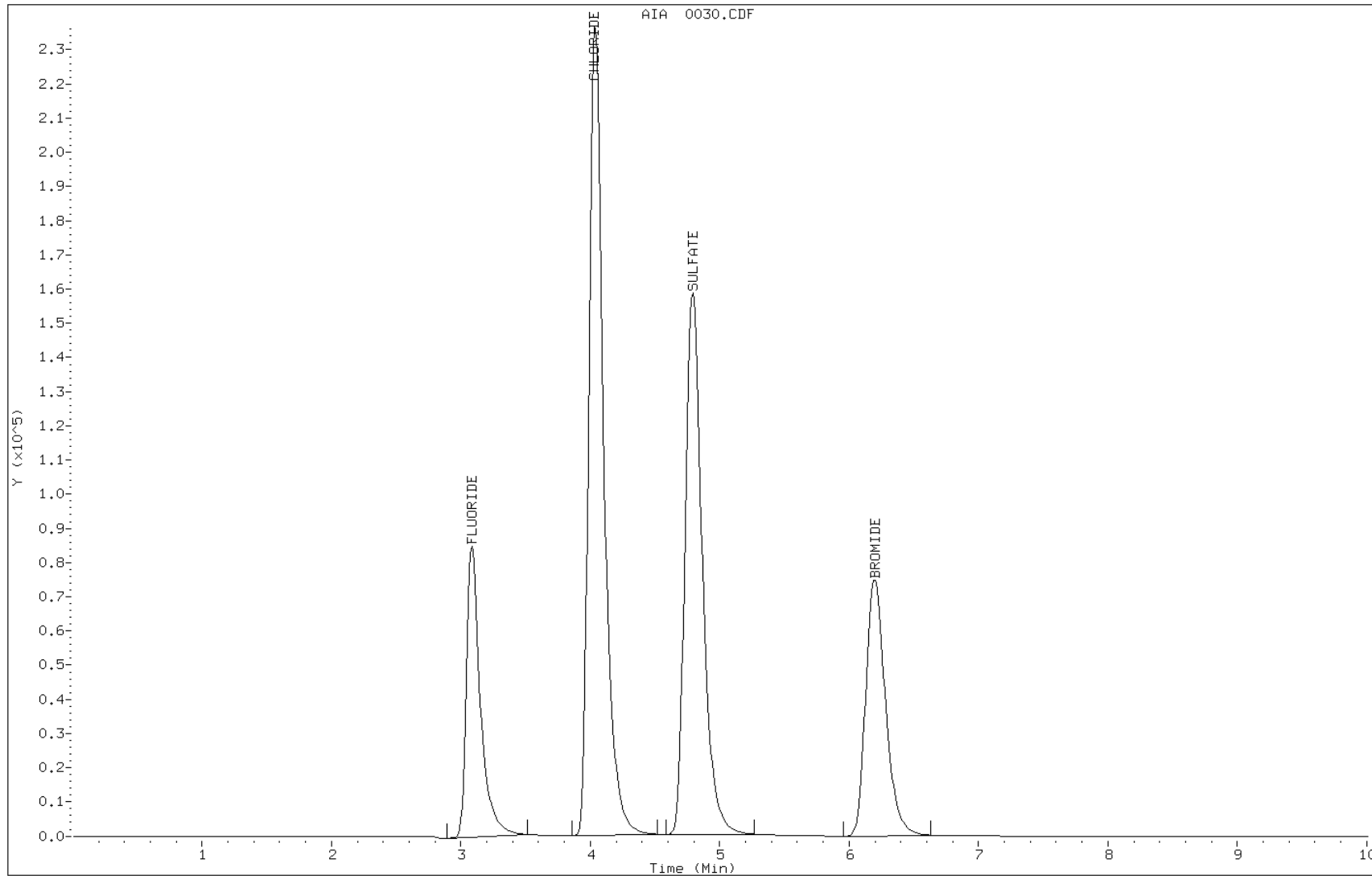
Date: 26-APR-2013 16:28

Client ID: ANION-4

Instrument: LCGIC.i

Sample Info: ANION-4~2G042613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G042613A-NPW.b/0031.d
Lab Smp Id: IC Client Smp ID: ANION-5
Inj Date : 26-APR-2013 16:40
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-5~2G042613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G042613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 29-Apr-2013 13:16 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:40 Cal File: 0031.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.083	3.083	0.000	1284576	4.00000	4.1	

4	BROMIDE				CAS #: 24959-67-9	
6.184	6.184	0.000	1669627	20.0000	19	

2	CHLORIDE				CAS #: 16887-00-6	
4.034	4.034	0.000	3891689	20.0000	20	

3	SULFATE				CAS #: 14808-79-8	
4.792	4.792	0.000	2940666	20.0000	20	

Data File: 0031.d

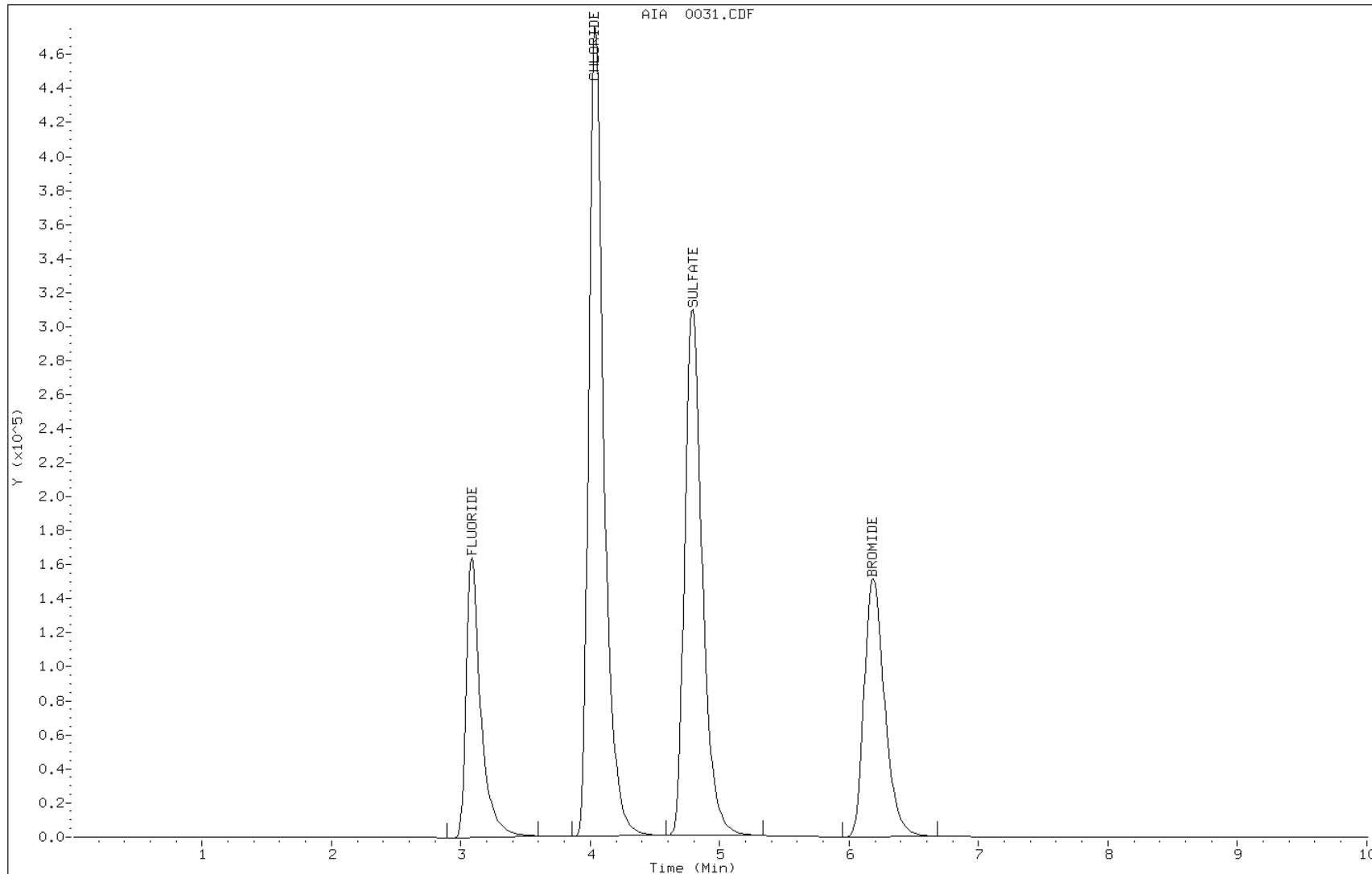
Date: 26-APR-2013 16:40

Client ID: ANION-5

Instrument: LCGIC.i

Sample Info: ANION-5~2G042613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/2G042613A-NPW.b/0032.d
Lab Smp Id: IC Client Smp ID: ANION-6
Inj Date : 26-APR-2013 16:53
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-6~2G042613
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/2G042613A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 29-Apr-2013 13:16 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.083	3.083	0.000	3134087	10.0000	10	

4	BROMIDE				CAS #: 24959-67-9	
6.159	6.159	0.000	4318355	50.0000	50	(A)

2	CHLORIDE				CAS #: 16887-00-6	
4.034	4.034	0.000	9854364	50.0000	50	(A)

3	SULFATE				CAS #: 14808-79-8	
4.775	4.775	0.000	7362046	50.0000	50	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: 0032.d

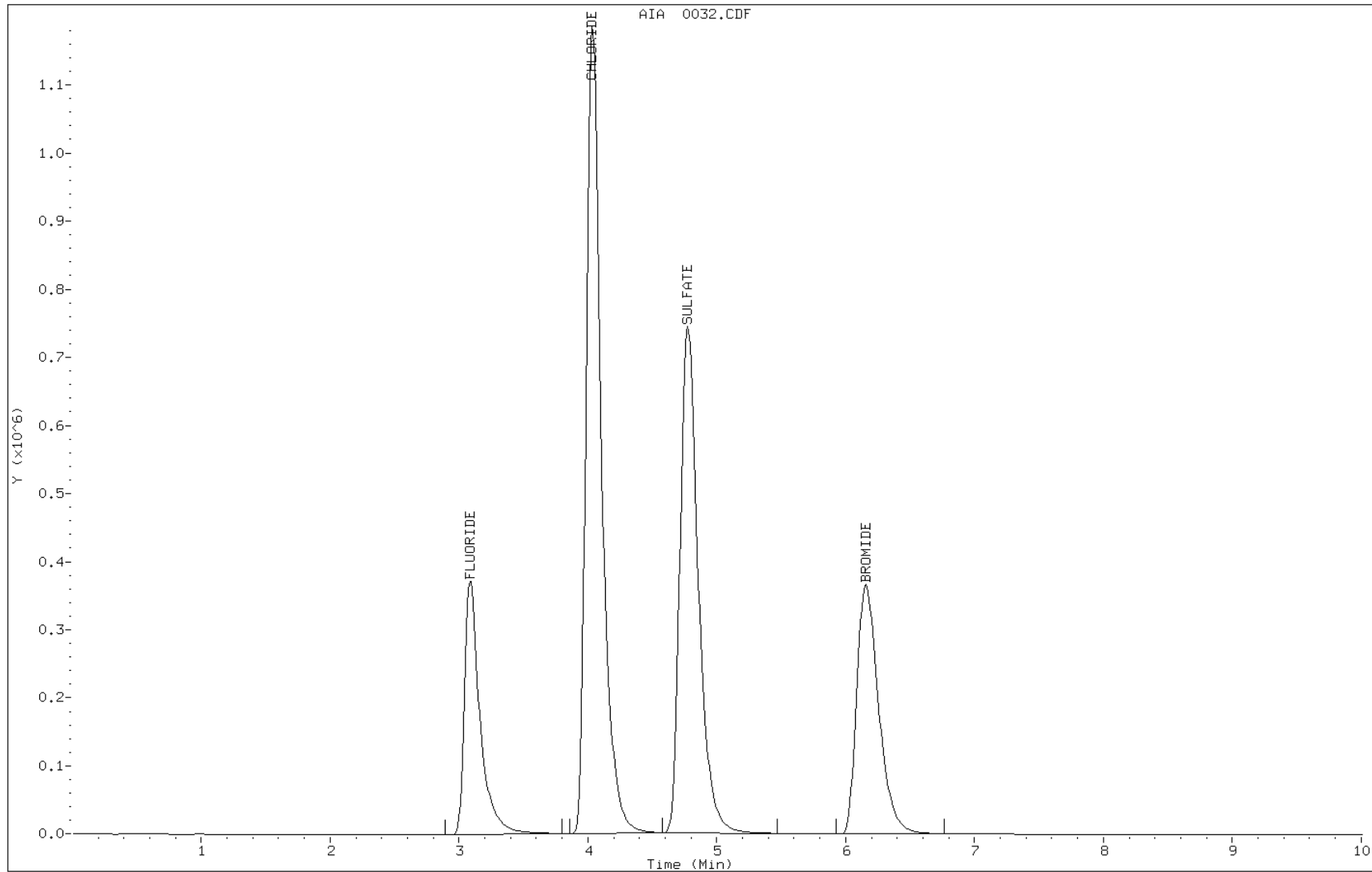
Date: 26-APR-2013 16:53

Client ID: ANION-6

Instrument: LCGIC.i

Sample Info: ANION-6~2G042613

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/1G052013A-NPW.b/0004.d
Lab Smp Id: ANION-4 Client Smp ID: ANION-4
Inj Date : 20-MAY-2013 16:00
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-4~1G052013
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/1G052013A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 21-May-2013 10:20 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.092	3.092	0.000	600191	2.00000	1.9	

4	BROMIDE					CAS #: 24959-67-9
6.133	6.133	0.000	778626	10.0000	9.1	

2	CHLORIDE					CAS #: 16887-00-6
4.025	4.025	0.000	1859074	10.0000	9.5	

3	SULFATE					CAS #: 14808-79-8
4.750	4.750	0.000	1423577	10.0000	9.7	

Data File: 0004.d

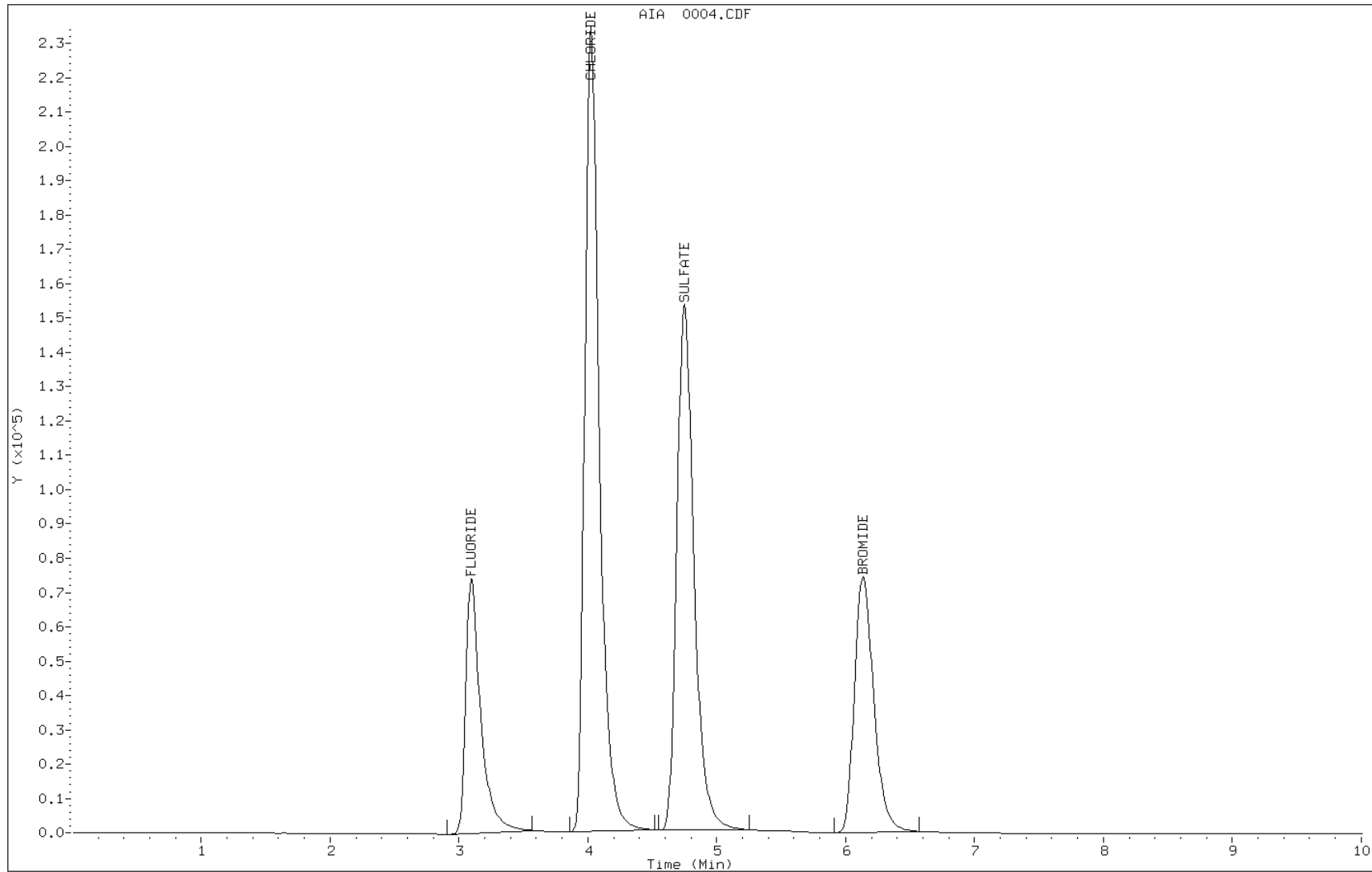
Date: 20-MAY-2013 16:00

Client ID: ANION-4

Instrument: LCGIC.i

Sample Info: ANION-4~1G052013

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/1G052013A-NPW.b/0005.d
Lab Smp Id: MB Client Smp ID: MB
Inj Date : 20-MAY-2013 16:12
Operator : PT Inst ID: LCGIC.i
Smp Info : MB~1G052013
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/1G052013A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 21-May-2013 10:20 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS				
		ON-COL	FINAL	
RT	EXP RT	DLT RT	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====

Data File: 0005.d

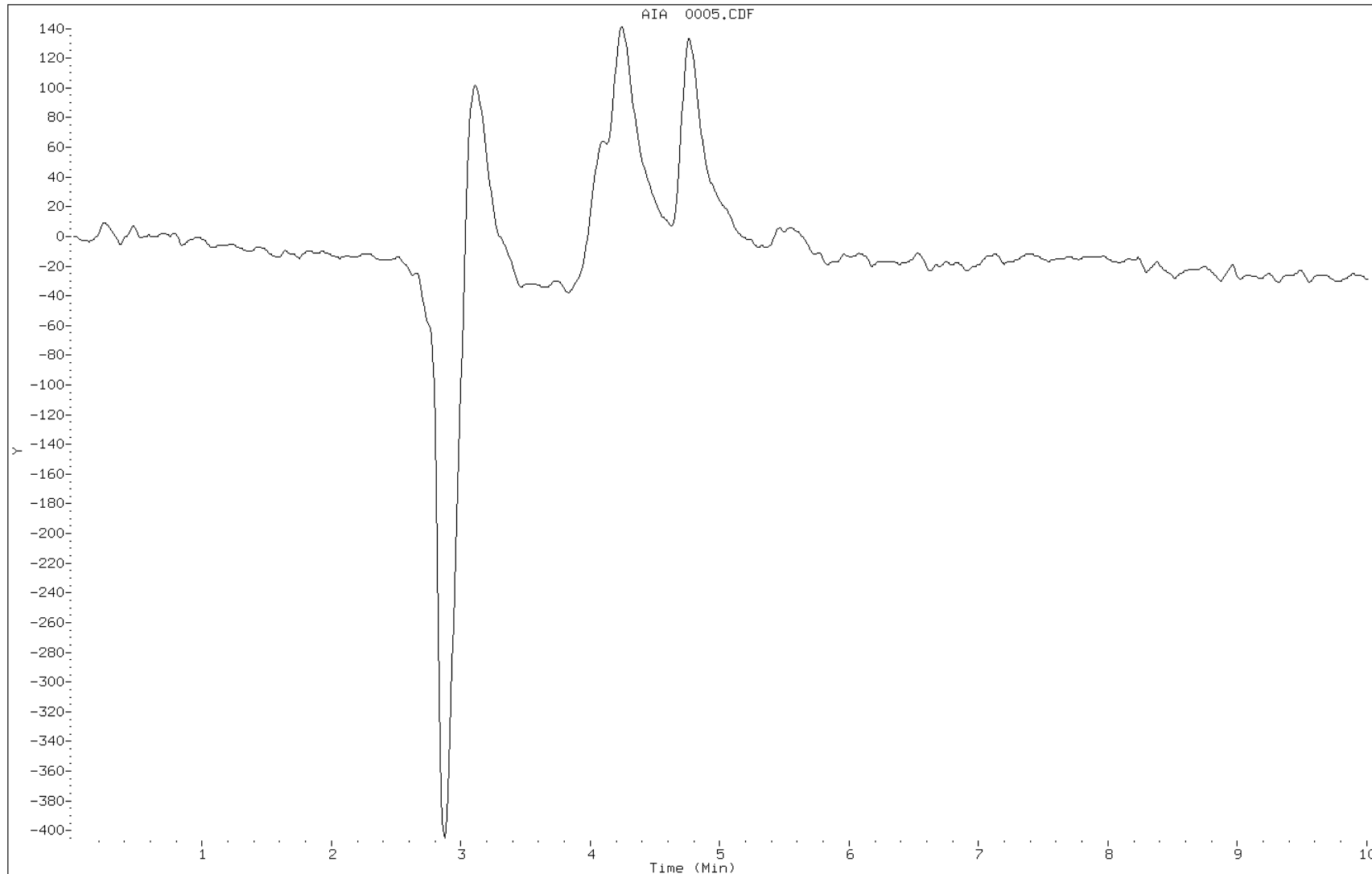
Date: 20-MAY-2013 16:12

Client ID: MB

Instrument: LCGIC.i

Sample Info: MB~1G052013

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/1G052013A-NPW.b/0006.d
 Lab Smp Id: LCS Client Smp ID: LCS
 Inj Date : 20-MAY-2013 16:25
 Operator : PT Inst ID: LCGIC.i
 Smp Info : LCS~1G052013
 Misc Info : None
 Comment :
 Method : /chem/LC/LCGIC.i/1G052013A-NPW.b/g-NPW-300-9056-9056A.m
 Meth Date : 21-May-2013 10:20 tankersp Quant Type: ESTD
 Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: Anion.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	RESPONSE (mg/L)	FINAL	CAS #:
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					16984-48-8
3.092	3.092	0.000	627756	1.99486	10	
4	BROMIDE					24959-67-9
6.133	6.133	0.000	781245	9.11737	46	
2	CHLORIDE					16887-00-6
4.025	4.025	0.000	1886447	9.60409	48	
3	SULFATE					14808-79-8
4.750	4.750	0.000	1550775	10.5284	53	

Data File: 0006.d

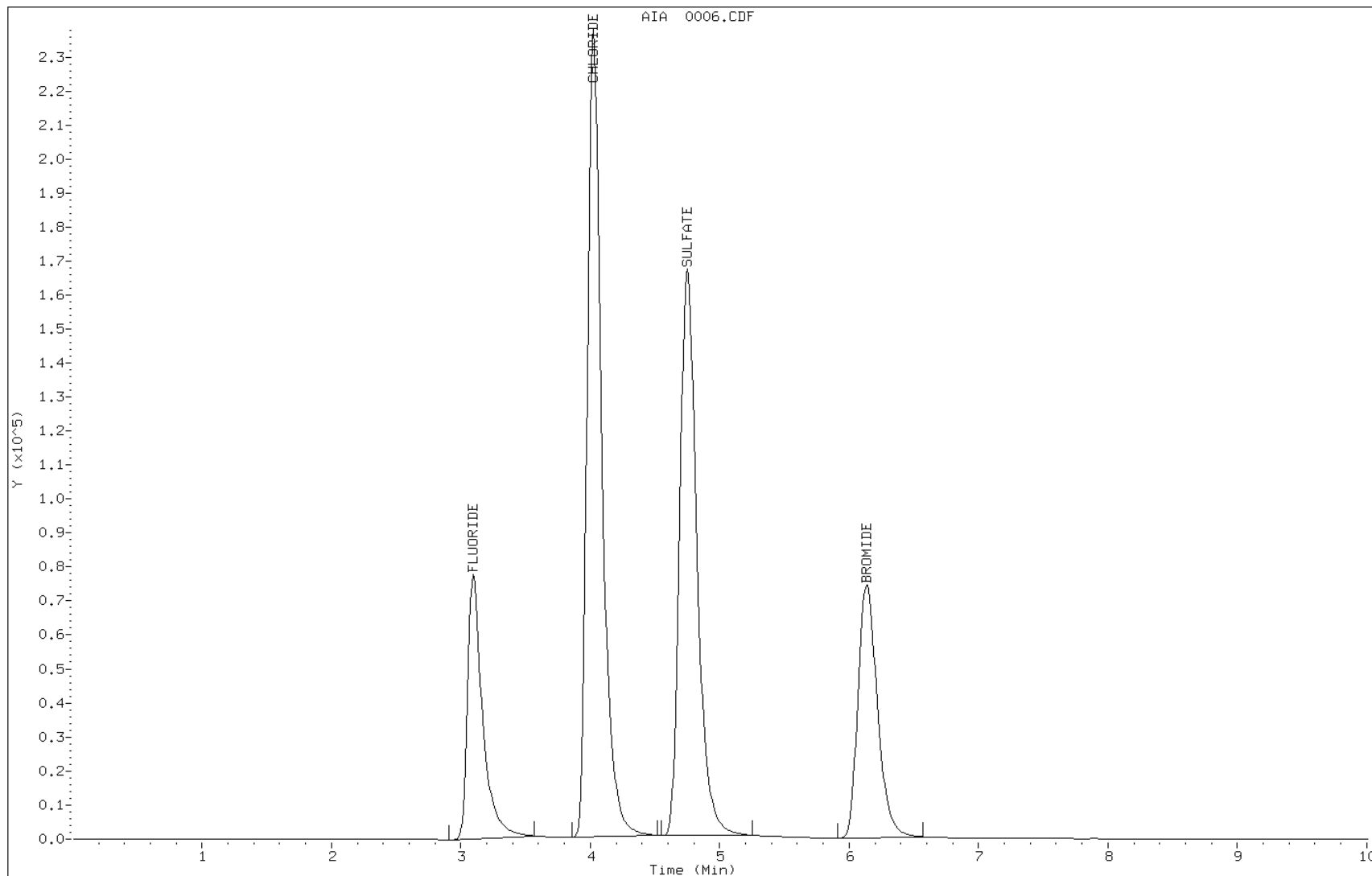
Date: 20-MAY-2013 16:25

Client ID: LCS

Instrument: LCGIC.i

Sample Info: LCS~1G052013

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/1G052013A-NPW.b/0007.d
 Lab Smp Id: LCSD Client Smp ID: LCSD
 Inj Date : 20-MAY-2013 16:37
 Operator : PT Inst ID: LCGIC.i
 Smp Info : LCSD~1G052013
 Misc Info : None
 Comment :
 Method : /chem/LC/LCGIC.i/1G052013A-NPW.b/g-NPW-300-9056-9056A.m
 Meth Date : 21-May-2013 10:20 tankersp Quant Type: ESTD
 Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
 Als bottle: 1 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: Anion.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	RESPONSE (mg/L)	FINAL	(mg/l)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #:	16984-48-8
3.092	3.092	0.000	627975	1.99555	10	
4	BROMIDE				CAS #:	24959-67-9
6.133	6.133	0.000	781311	9.11814	46	
2	CHLORIDE				CAS #:	16887-00-6
4.025	4.025	0.000	1885935	9.60149	48	
3	SULFATE				CAS #:	14808-79-8
4.750	4.750	0.000	1549096	10.5170	53	

Data File: 0007.d

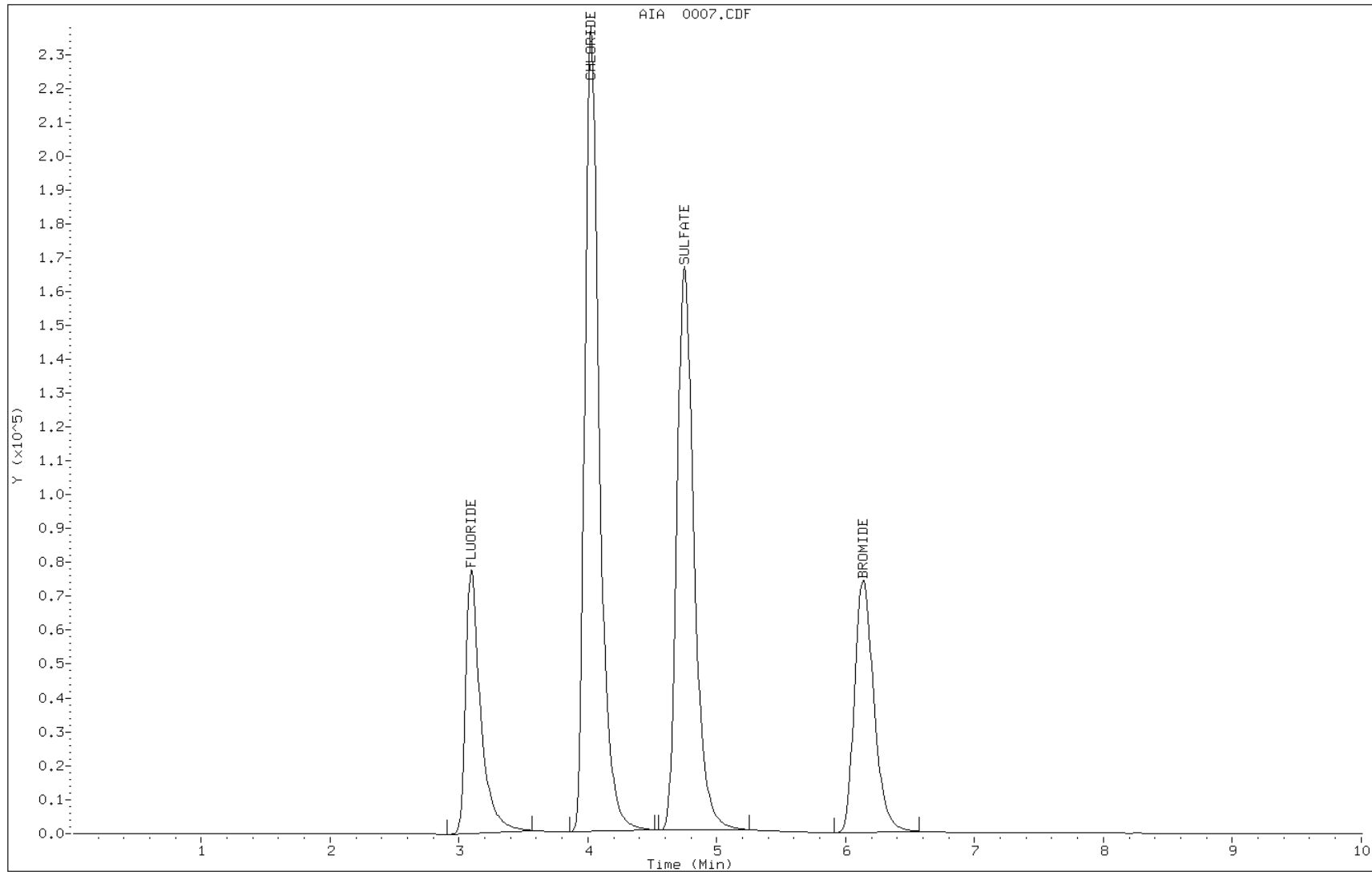
Date: 20-MAY-2013 16:37

Client ID: LCSD

Instrument: LCGIC.i

Sample Info: LCSD~1G052013

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/1G052013A-NPW.b/0016.d
Lab Smp Id: 680-90122-A-3 Client Smp ID: 25LM20101
Inj Date : 20-MAY-2013 18:29
Operator : PT Inst ID: LCGIC.i
Smp Info : 680-90122-A-3~1G052013
Misc Info : 680-90122-A-3
Comment :
Method : /chem/LC/LCGIC.i/1G052013A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 21-May-2013 10:20 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (mg/L)	(mg/l)
2	CHLORIDE					CAS #: 16887-00-6
4.017	4.025	-0.008	23142	0.11782	0.59	(a)
3	SULFATE					CAS #: 14808-79-8
4.742	4.750	-0.008	4804229	32.6164	160	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: 0016.d

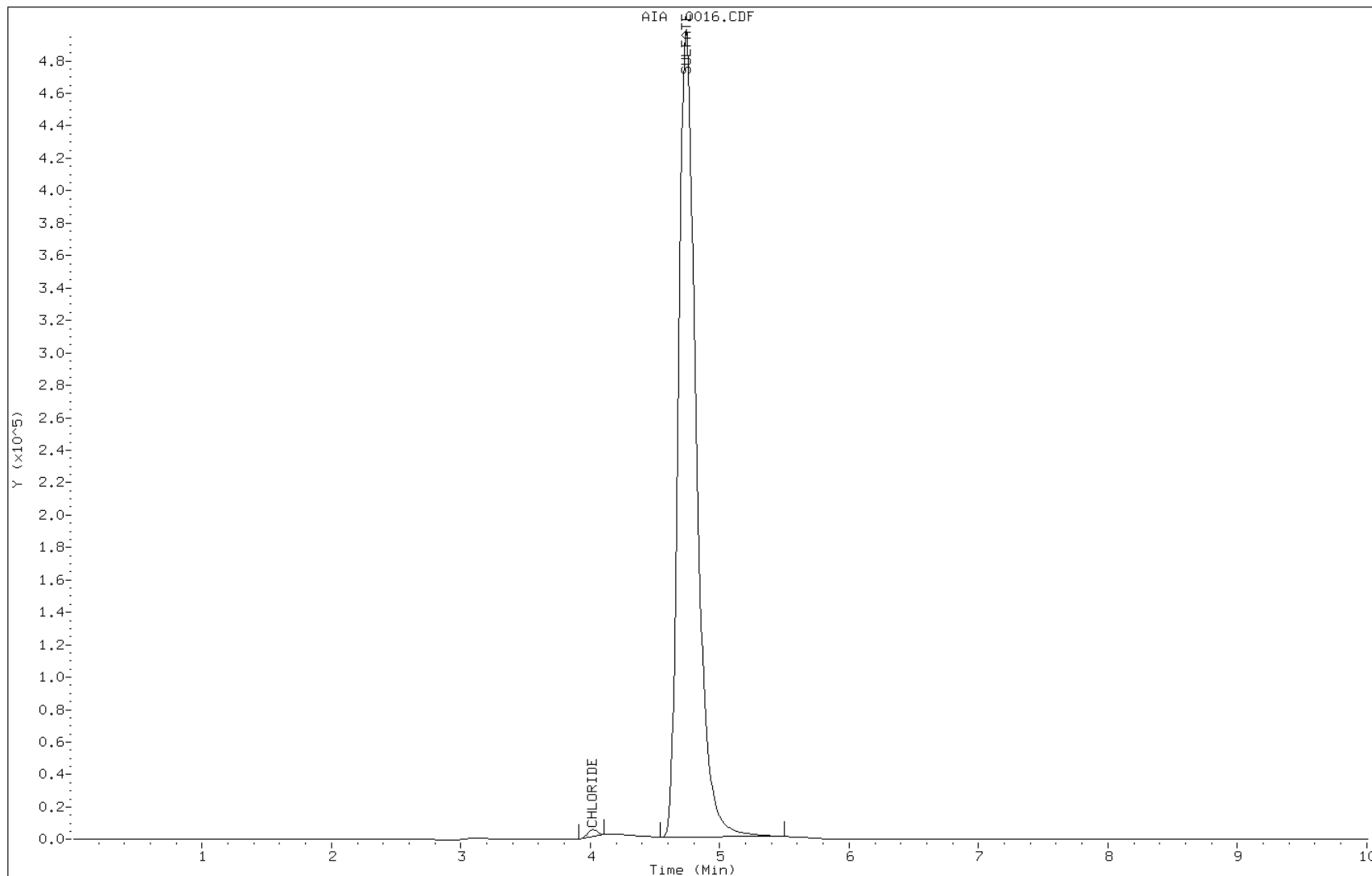
Date: 20-MAY-2013 18:29

Client ID: 25LM20101

Instrument: LCGIC.i

Sample Info: 680-90122-A-3~1G052013

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/1G052013A-NPW.b/0017.d
 Lab Smp Id: 680-90122-B-3 MS Client Smp ID: 25LM20101
 Inj Date : 20-MAY-2013 18:41
 Operator : PT Inst ID: LCGIC.i
 Smp Info : 680-90122-B-3 MS~1G052013
 Misc Info : 680-90122-B-3 MS
 Comment :
 Method : /chem/LC/LCGIC.i/1G052013A-NPW.b/g-NPW-300-9056-9056A.m
 Meth Date : 21-May-2013 10:20 tankersp Quant Type: ESTD
 Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: Anion.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	RESPONSE (mg/L)	FINAL	
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.092	3.092	0.000	591686	1.88023	9.4	
4	BROMIDE				CAS #: 24959-67-9	
6.142	6.133	0.009	768108	8.96406	45	(R)
2	CHLORIDE				CAS #: 16887-00-6	
4.025	4.025	0.000	1919537	9.77256	49	
3	SULFATE				CAS #: 14808-79-8	
4.734	4.750	-0.016	5668029	38.4809	190	(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: 0017.d

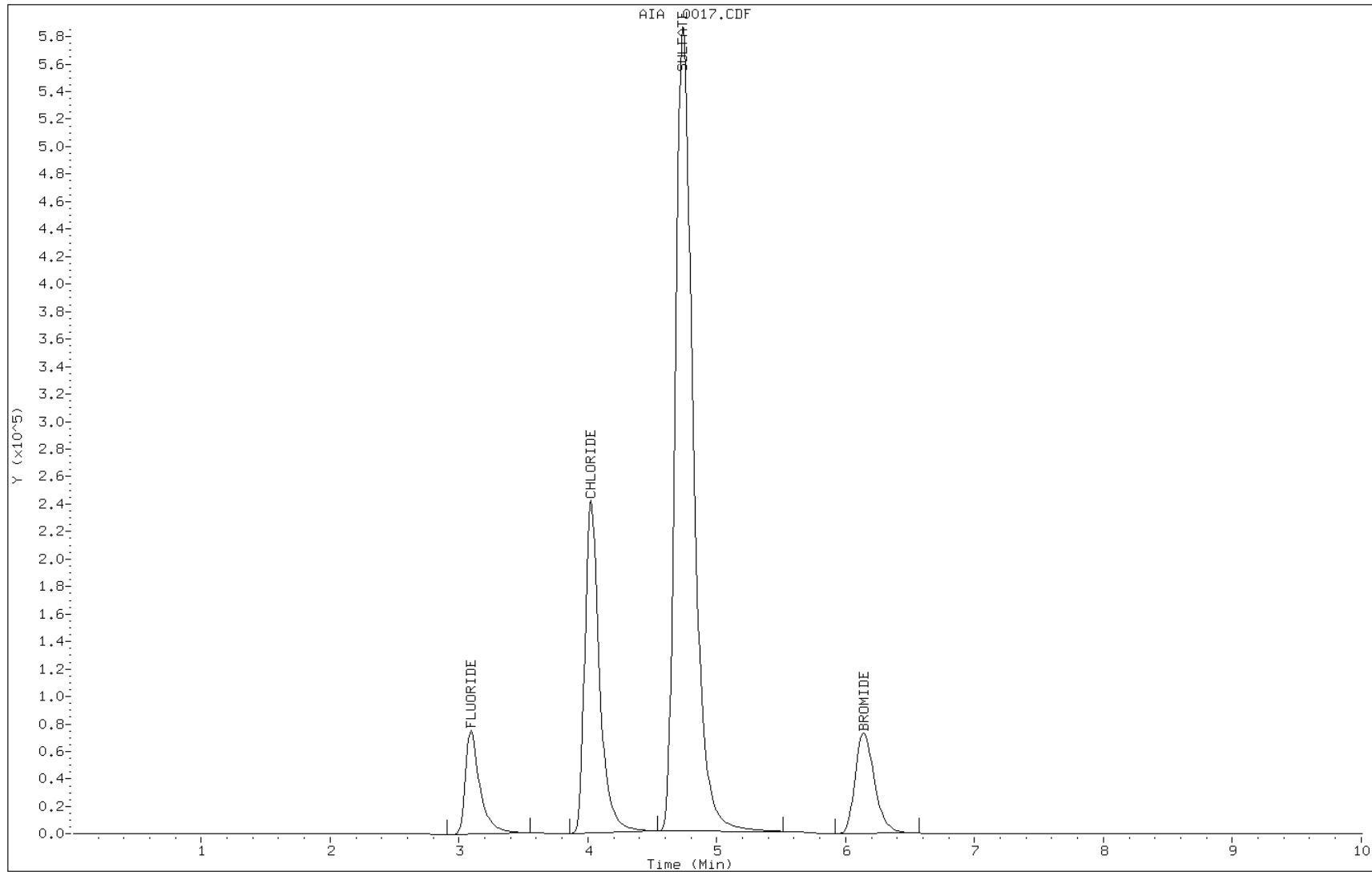
Date: 20-MAY-2013 18:41

Client ID: 25LM20101

Instrument: LCGIC.i

Sample Info: 680-90122-B-3 MS~1G052013

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/1G052013A-NPW.b/0018.d
 Lab Smp Id: 680-90122-A-3 MSD Client Smp ID: 25LM20101
 Inj Date : 20-MAY-2013 18:54
 Operator : PT Inst ID: LCGIC.i
 Smp Info : 680-90122-A-3 MSD~1G052013
 Misc Info : 680-90122-A-3 MSD
 Comment :
 Method : /chem/LC/LCGIC.i/1G052013A-NPW.b/g-NPW-300-9056-9056A.m
 Meth Date : 21-May-2013 10:20 tankersp Quant Type: ESTD
 Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
 Als bottle: 1 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: Anion.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	RESPONSE (mg/L)	FINAL	
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.092	3.092	0.000	604062	1.91956	9.6	
4	BROMIDE				CAS #: 24959-67-9	
6.142	6.133	0.009	784287	9.15288	46	
2	CHLORIDE				CAS #: 16887-00-6	
4.025	4.025	0.000	1960077	9.97895	50	
3	SULFATE				CAS #: 14808-79-8	
4.734	4.750	-0.016	5948788	40.3870	200	(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: 0018.d

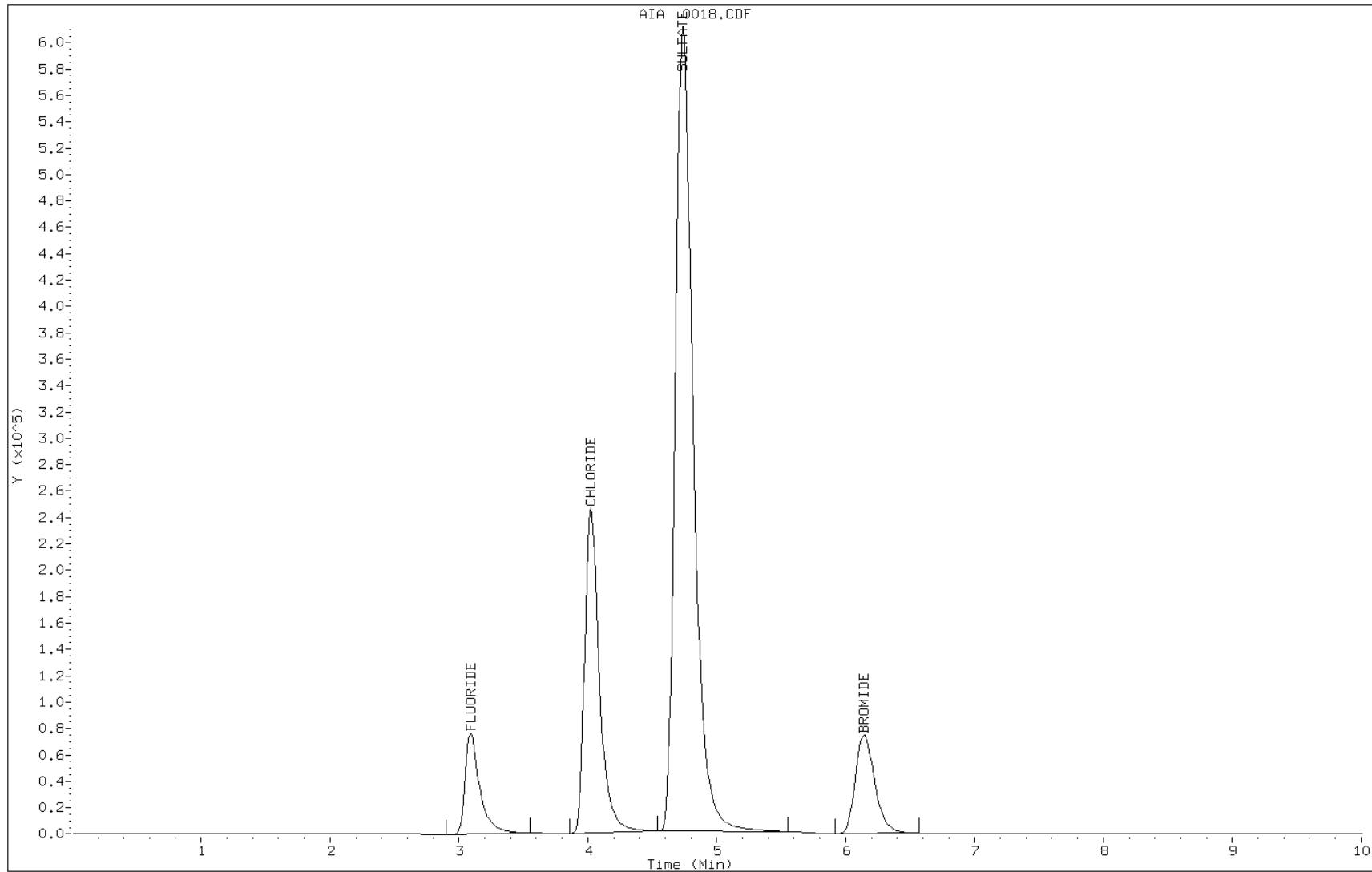
Date: 20-MAY-2013 18:54

Client ID: 25LM20101

Instrument: LCGIC.i

Sample Info: 680-90122-A-3 MSD~1G052013

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/1G052013A-NPW.b/0019.d
Lab Smp Id: ANION-4 Client Smp ID: ANION-4
Inj Date : 20-MAY-2013 19:06
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-4~1G052013
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/1G052013A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 21-May-2013 10:21 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.092	3.092	0.000	606209	2.00000	1.9	

4	BROMIDE				CAS #: 24959-67-9	
6.142	6.142	0.000	774297	10.0000	9.0	

2	CHLORIDE				CAS #: 16887-00-6	
4.025	4.025	0.000	1854033	10.0000	9.4	

3	SULFATE				CAS #: 14808-79-8	
4.758	4.758	0.000	1397284	10.0000	9.5	

Data File: 0019.d

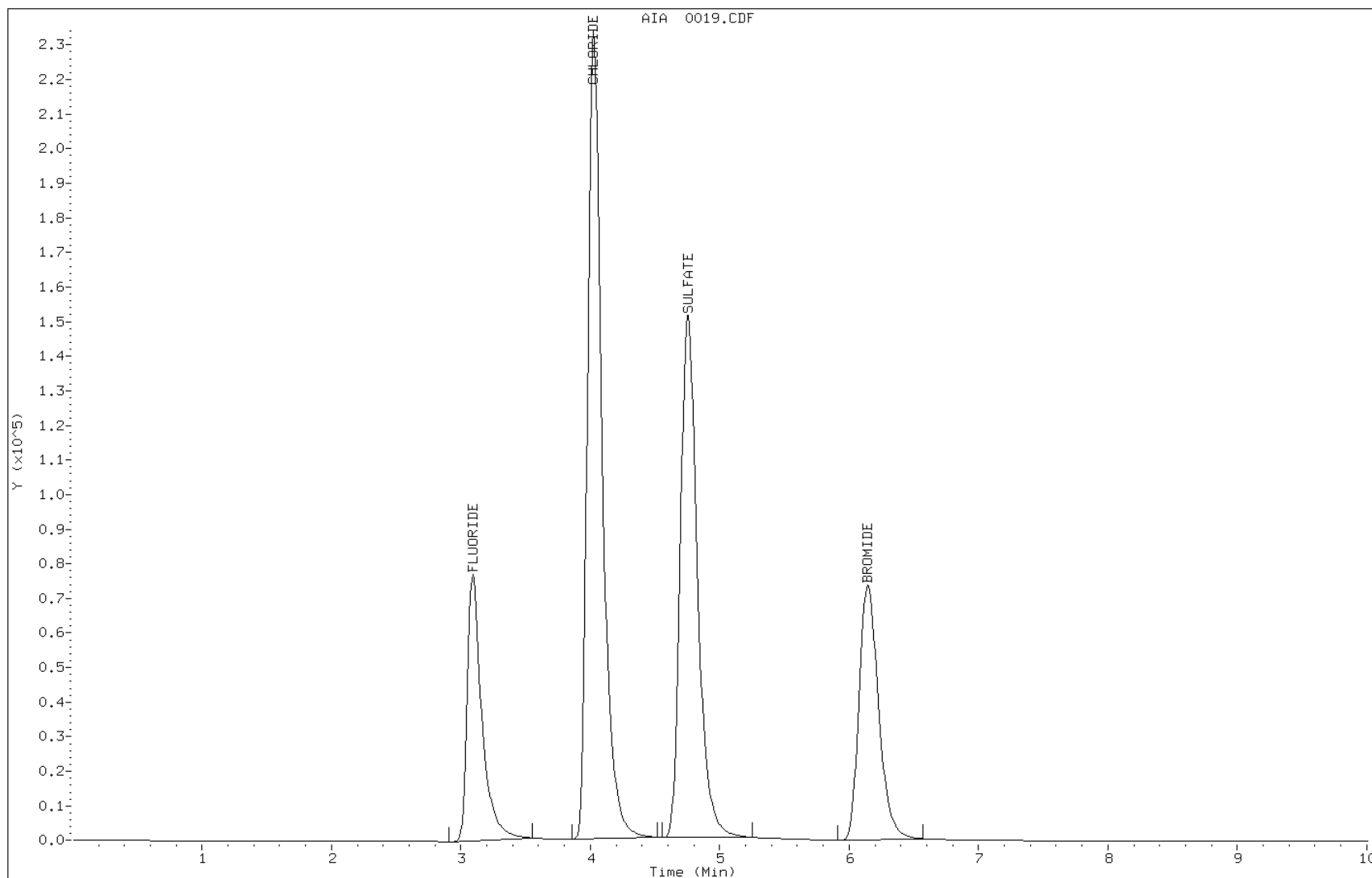
Date: 20-MAY-2013 19:06

Client ID: ANION-4

Instrument: LCGIC.i

Sample Info: ANION-4~1G052013

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/1G052013A-NPW.b/0020.d
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 20-MAY-2013 19:18
Operator : PT Inst ID: LCGIC.i
Smp Info : CCB~1G052013
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/1G052013A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 21-May-2013 10:21 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL
==	=====	=====	RESPONSE (mg/L)	(mg/l)
			=====	=====

Data File: 0020.d

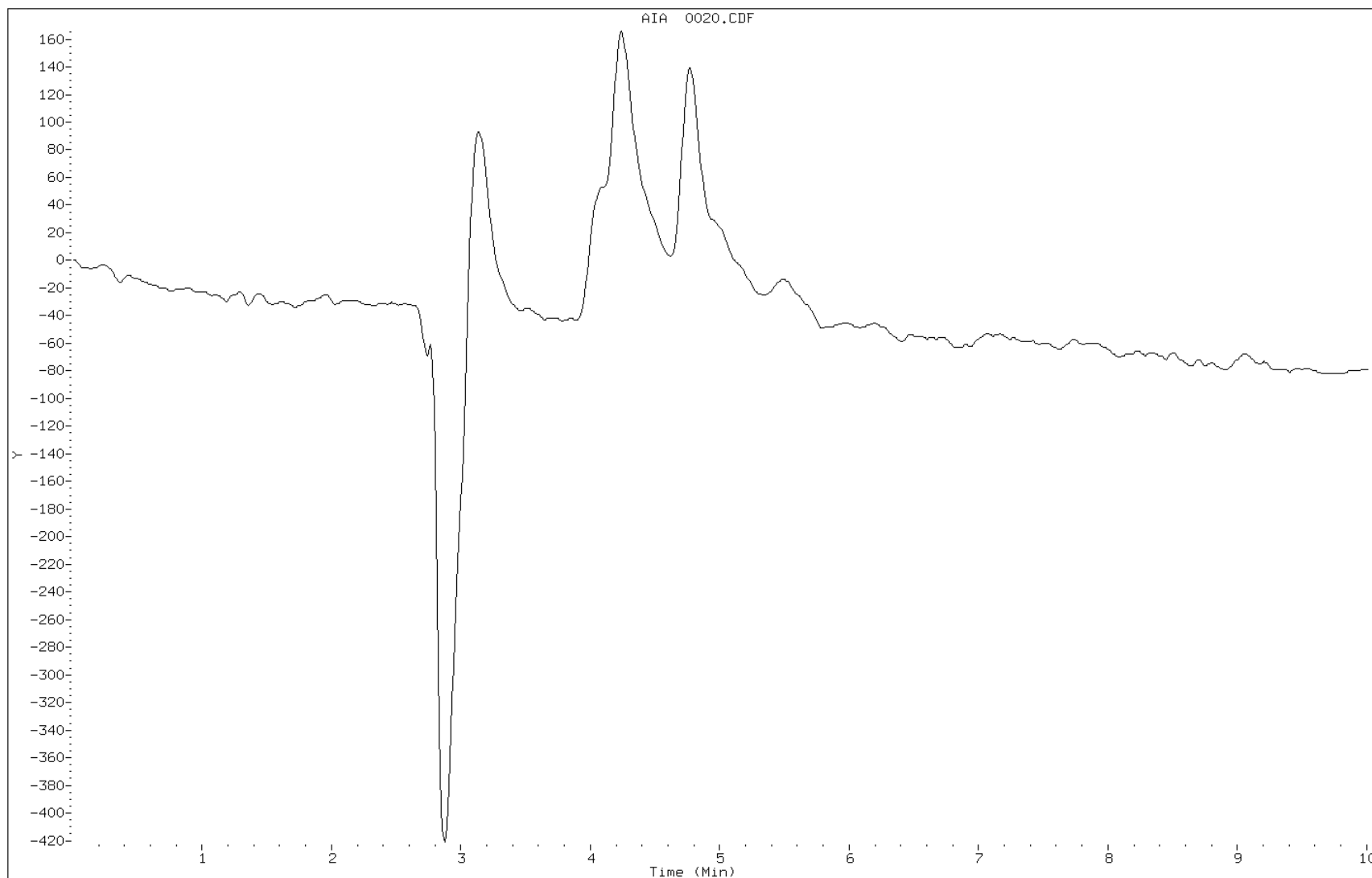
Date: 20-MAY-2013 19:18

Client ID: CCB

Instrument: LCGIC.i

Sample Info: CCB~1G052013

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/1G052013A-NPW.b/0031.d
Lab Smp Id: ANION-4 Client Smp ID: ANION-4
Inj Date : 20-MAY-2013 21:35
Operator : PT Inst ID: LCGIC.i
Smp Info : ANION-4~1G052013
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/1G052013A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 21-May-2013 10:21 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #:	16984-48-8
3.092	3.092	0.000	603855	2.00000	1.9	

4	BROMIDE				CAS #:	24959-67-9
6.150	6.150	0.000	773497	10.0000	9.0	

2	CHLORIDE				CAS #:	16887-00-6
4.025	4.025	0.000	1853969	10.0000	9.4	

3	SULFATE				CAS #:	14808-79-8
4.750	4.750	0.000	1388745	10.0000	9.4	

Data File: 0031.d

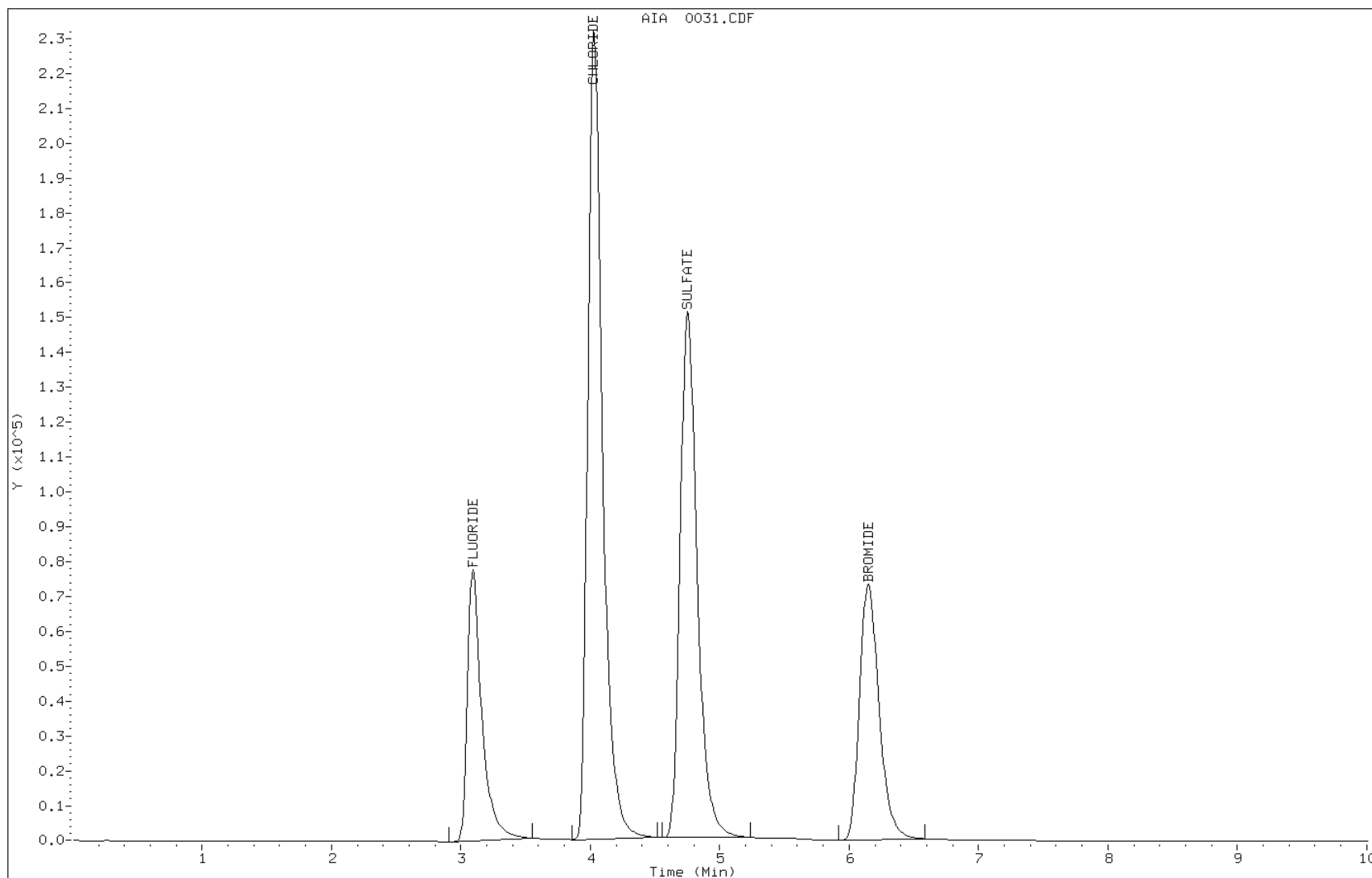
Date: 20-MAY-2013 21:35

Client ID: ANION-4

Instrument: LCGIC.i

Sample Info: ANION-4~1G052013

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCGIC.i/1G052013A-NPW.b/0032.d
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 20-MAY-2013 21:47
Operator : PT Inst ID: LCGIC.i
Smp Info : CCB~1G052013
Misc Info : None
Comment :
Method : /chem/LC/LCGIC.i/1G052013A-NPW.b/g-NPW-300-9056-9056A.m
Meth Date : 21-May-2013 10:21 tankersp Quant Type: ESTD
Cal Date : 26-APR-2013 16:53 Cal File: 0032.d
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS				
		ON-COL	FINAL	
RT	EXP RT	DLT RT	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====

Data File: 0032.d

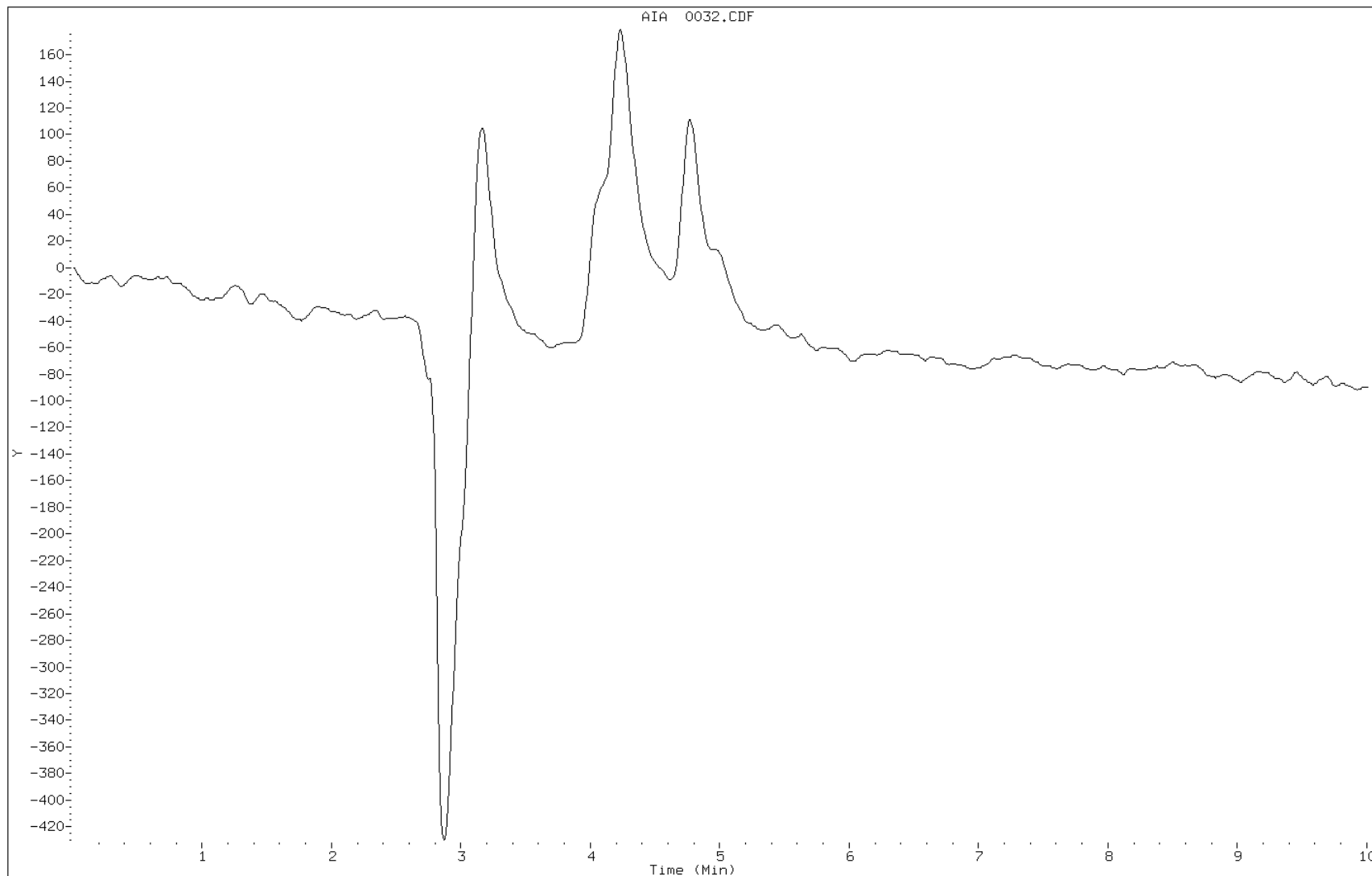
Date: 20-MAY-2013 21:47

Client ID: CCB

Instrument: LCGIC.i

Sample Info: CCB~1G052013

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/2L051413A-NPW.b/0004.d
Lab Smp Id: IC Client Smp ID: IC_ANION-1
Inj Date : 14-MAY-2013 15:11
Operator : CB Inst ID: LCLIC.i
Smp Info : IC_ANION-1~2L051413
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/2L051413A-NPW.b/1-A-300-9056A.m
Meth Date : 15-May-2013 10:27 brazellc Quant Type: ESTD
Cal Date : 14-MAY-2013 15:11 Cal File: 0004.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL
			RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====
1	FLUORIDE			CAS #: 16984-48-8
3.117	3.117	0.000	12615 0.05000	0.050

4	BROMIDE			CAS #: 24959-67-9
6.350	6.350	0.000	31119 0.50000	0.50

2	CHLORIDE			CAS #: 16887-00-6
4.083	4.083	0.000	84754 0.50000	0.50

3	SULFATE			CAS #: 14808-79-8
4.700	4.700	0.000	94998 0.50000	0.50

Data File: 0004.d

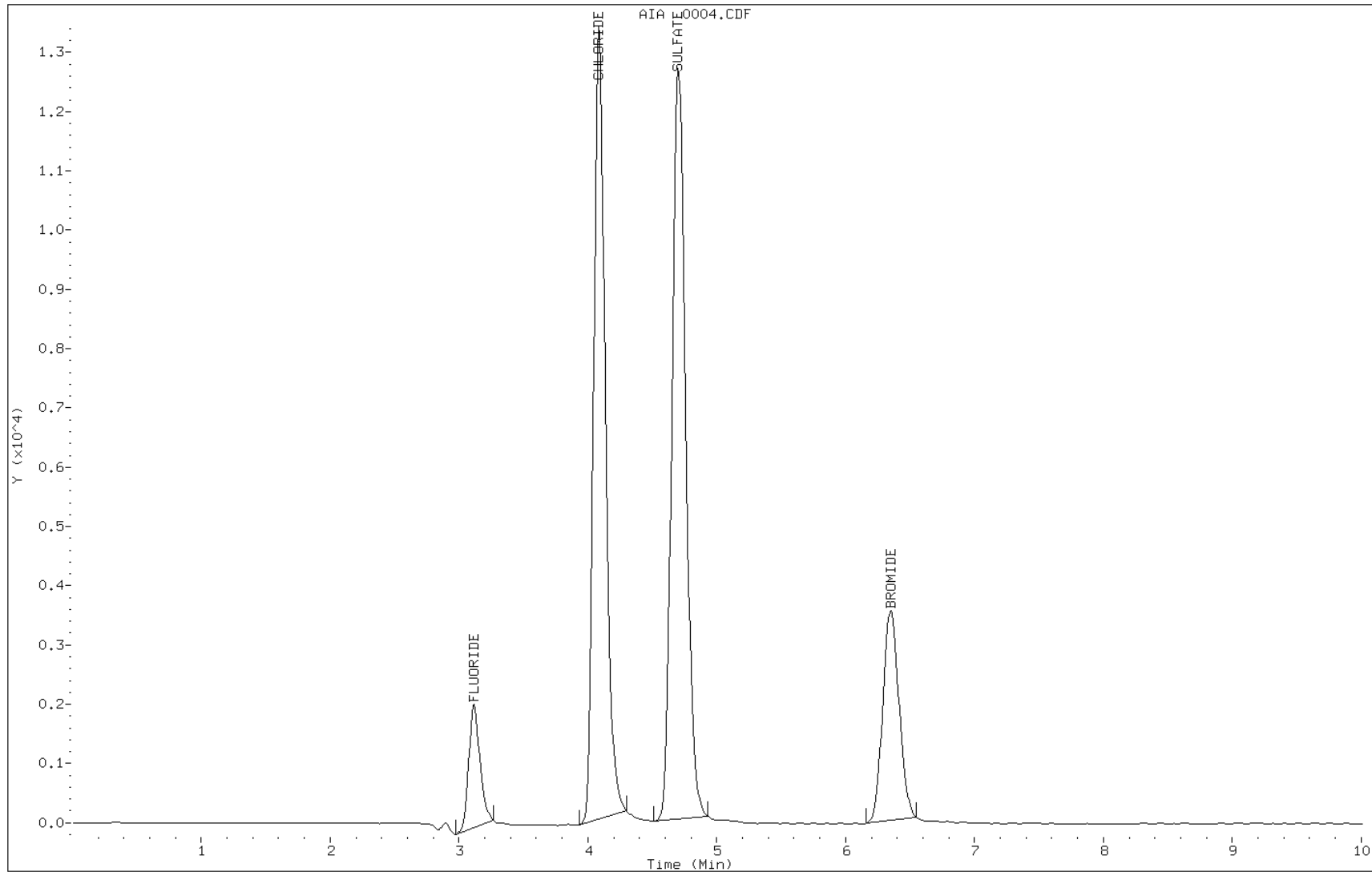
Date: 14-MAY-2013 15:11

Client ID: IC_ANION-1

Instrument: LCLIC.i

Sample Info: IC_ANION-1~2L051413

Operator: CB



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/2L051413A-NPW.b/0005.d
Lab Smp Id: IC Client Smp ID: IC_ANION-2
Inj Date : 14-MAY-2013 15:23
Operator : CB Inst ID: LCLIC.i
Smp Info : IC_ANION-2~2L051413
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/2L051413A-NPW.b/1-A-300-9056A.m
Meth Date : 15-May-2013 10:27 brazellc Quant Type: ESTD
Cal Date : 14-MAY-2013 15:23 Cal File: 0005.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.117	3.117	0.000	31442	0.10000	0.10	

4	BROMIDE					CAS #: 24959-67-9
6.350	6.350	0.000	66191	1.00000	1.0	

2	CHLORIDE					CAS #: 16887-00-6
4.092	4.092	0.000	179049	1.00000	1.0	

3	SULFATE					CAS #: 14808-79-8
4.708	4.708	0.000	177829	1.00000	0.99	

Data File: 0005.d

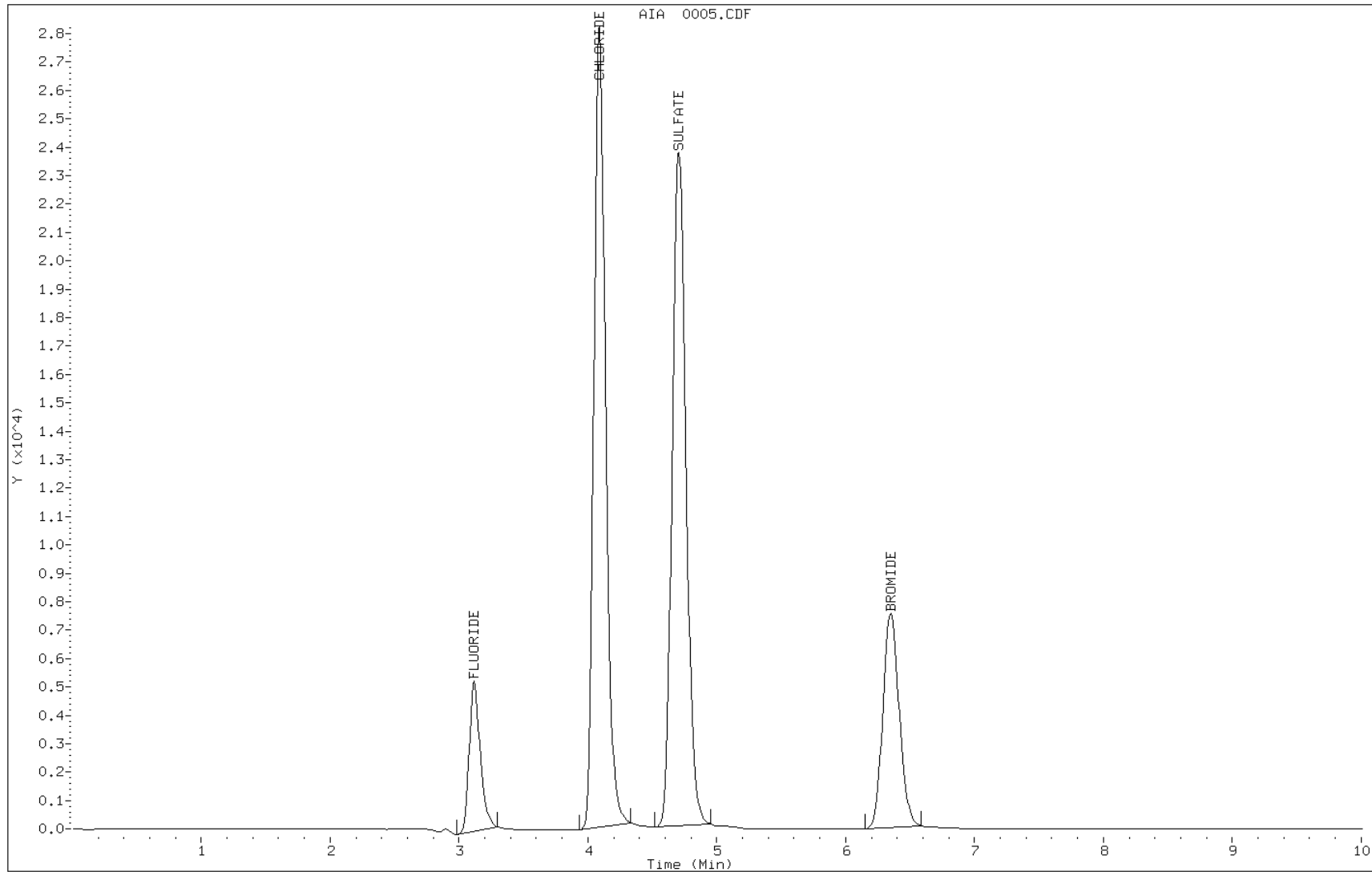
Date: 14-MAY-2013 15:23

Client ID: IC_ANION-2

Instrument: LCLIC.i

Sample Info: IC_ANION-2~2L051413

Operator: CB



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/2L051413A-NPW.b/0006.d
Lab Smp Id: IC Client Smp ID: IC_ANION-3
Inj Date : 14-MAY-2013 15:36
Operator : CB Inst ID: LCLIC.i
Smp Info : IC_ANION-3~2L051413
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/2L051413A-NPW.b/1-A-300-9056A.m
Meth Date : 15-May-2013 10:27 brazellc Quant Type: ESTD
Cal Date : 14-MAY-2013 15:36 Cal File: 0006.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	
==	=====	=====	RESPONSE (mg/L)	(mg/L)	
			=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8
3.117	3.117	0.000	60565 0.20000	0.20	

4	BROMIDE				CAS #: 24959-67-9
6.350	6.350	0.000	143888 2.00000	2.0	

2	CHLORIDE				CAS #: 16887-00-6
4.092	4.092	0.000	373009 2.00000	2.0	

3	SULFATE				CAS #: 14808-79-8
4.700	4.700	0.000	336677 2.00000	2.0	

Data File: 0006.d

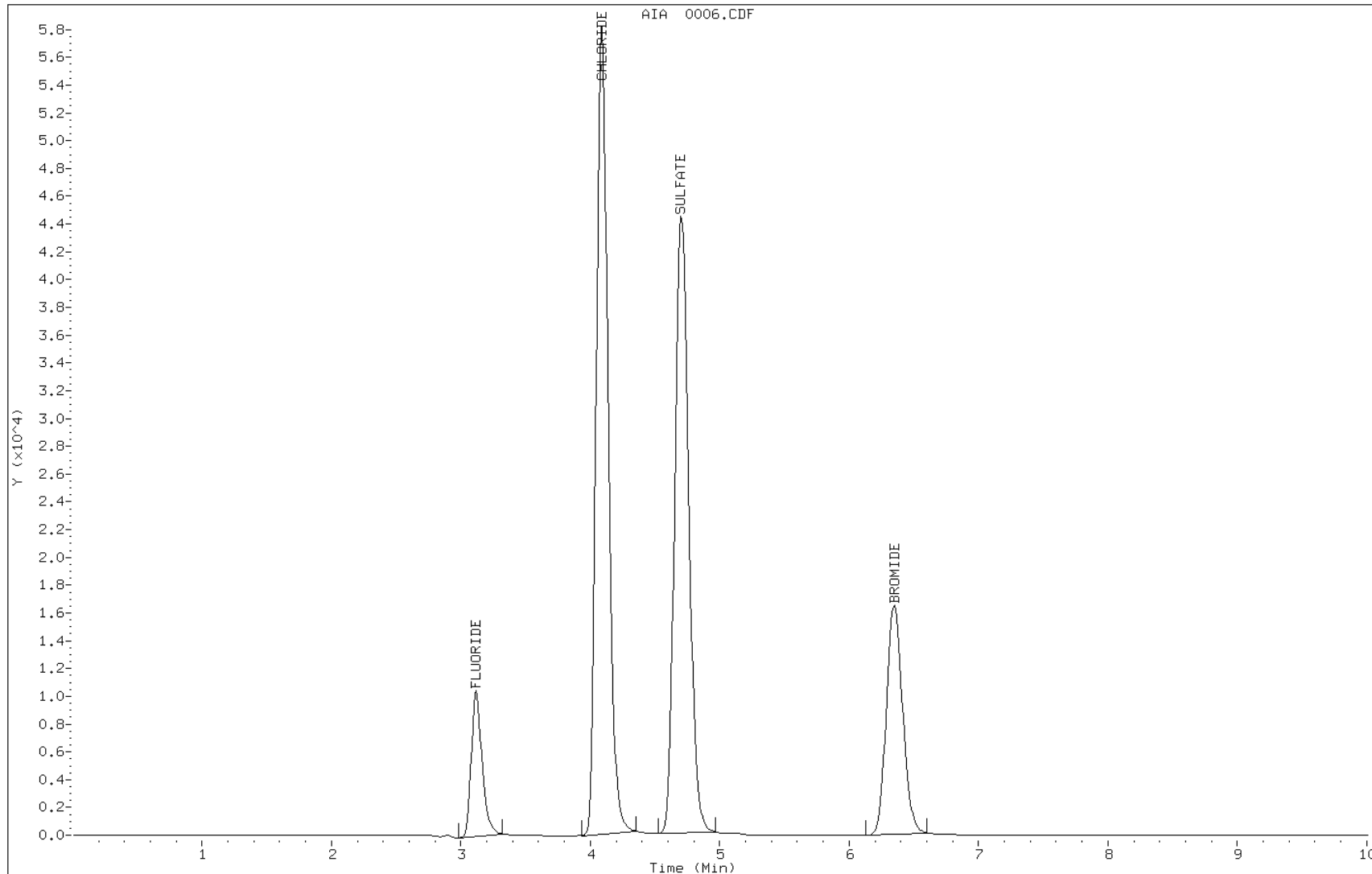
Date: 14-MAY-2013 15:36

Client ID: IC_ANION-3

Instrument: LCLIC.i

Sample Info: IC_ANION-3~2L051413

Operator: CB



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/2L051413A-NPW.b/0007.d
Lab Smp Id: IC Client Smp ID: IC_ANION-4
Inj Date : 14-MAY-2013 15:48
Operator : CB Inst ID: LCLIC.i
Smp Info : IC_ANION-4~2L051413
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/2L051413A-NPW.b/1-A-300-9056A.m
Meth Date : 15-May-2013 10:27 brazellc Quant Type: ESTD
Cal Date : 14-MAY-2013 15:48 Cal File: 0007.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	
==	=====	=====	RESPONSE (mg/L)	(mg/L)	
			=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8
3.117	3.117	0.000	163477 0.40000	0.42	

4	BROMIDE				CAS #: 24959-67-9
6.342	6.342	0.000	402638 5.00000	5.1	

2	CHLORIDE				CAS #: 16887-00-6
4.083	4.083	0.000	984419 5.00000	5.1	

3	SULFATE				CAS #: 14808-79-8
4.700	4.700	0.000	800342 5.00000	4.9	

Data File: 0007.d

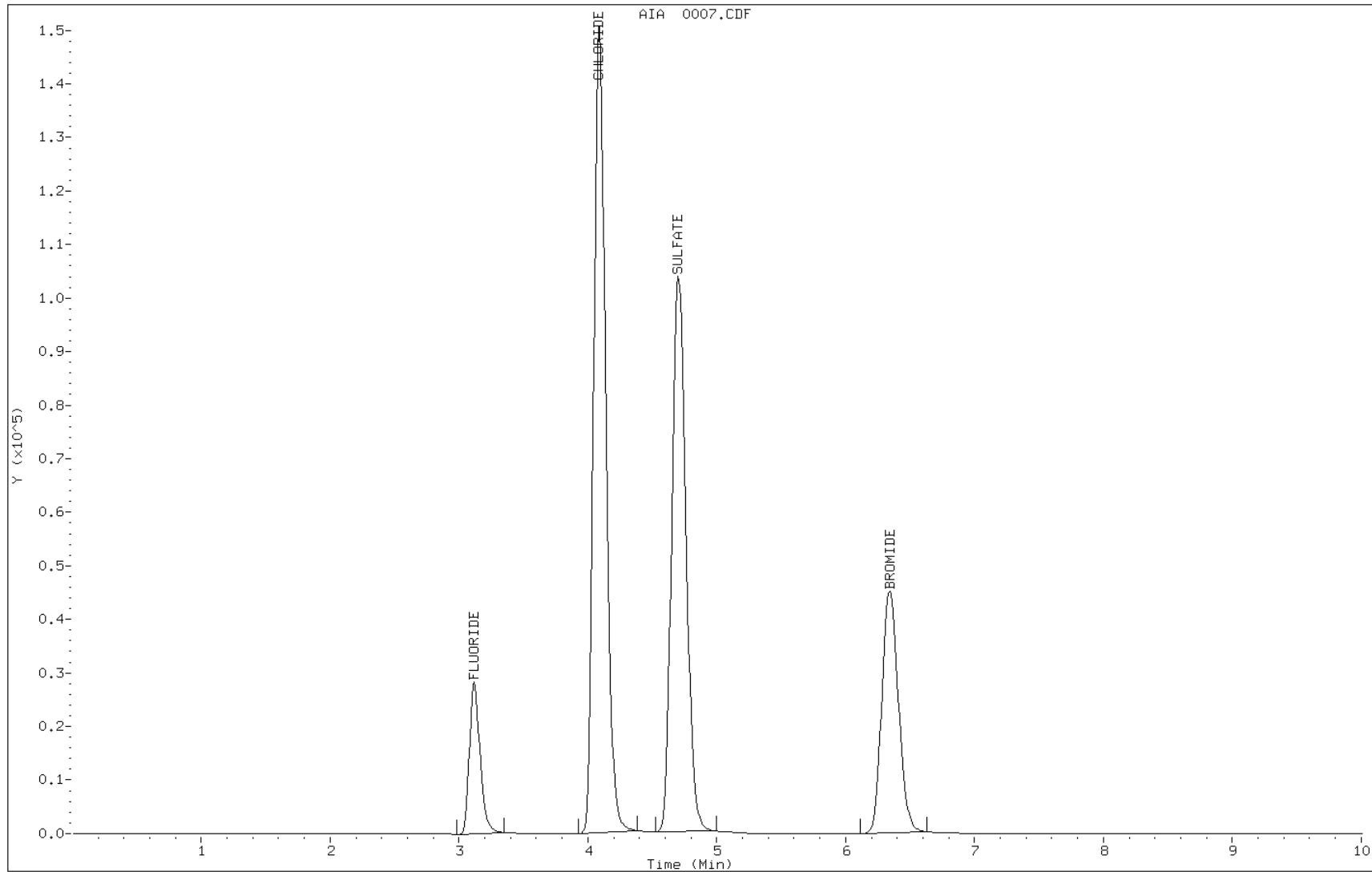
Date: 14-MAY-2013 15:48

Client ID: IC_ANION-4

Instrument: LCLIC.i

Sample Info: IC_ANION-4~2L051413

Operator: CB



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/2L051413A-NPW.b/0008.d
Lab Smp Id: IC Client Smp ID: IC_ANION-5
Inj Date : 14-MAY-2013 16:01
Operator : CB Inst ID: LCLIC.i
Smp Info : IC_ANION-5~2L051413
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/2L051413A-NPW.b/1-A-300-9056A.m
Meth Date : 15-May-2013 10:27 brazellc Quant Type: ESTD
Cal Date : 14-MAY-2013 16:01 Cal File: 0008.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.117	3.117	0.000	344331	1.00000	0.98	

4	BROMIDE					CAS #: 24959-67-9
6.333	6.333	0.000	838368	10.0000	10	

2	CHLORIDE					CAS #: 16887-00-6
4.092	4.092	0.000	2028772	10.0000	10	

3	SULFATE					CAS #: 14808-79-8
4.700	4.700	0.000	1574544	10.0000	9.9	

Data File: 0008.d

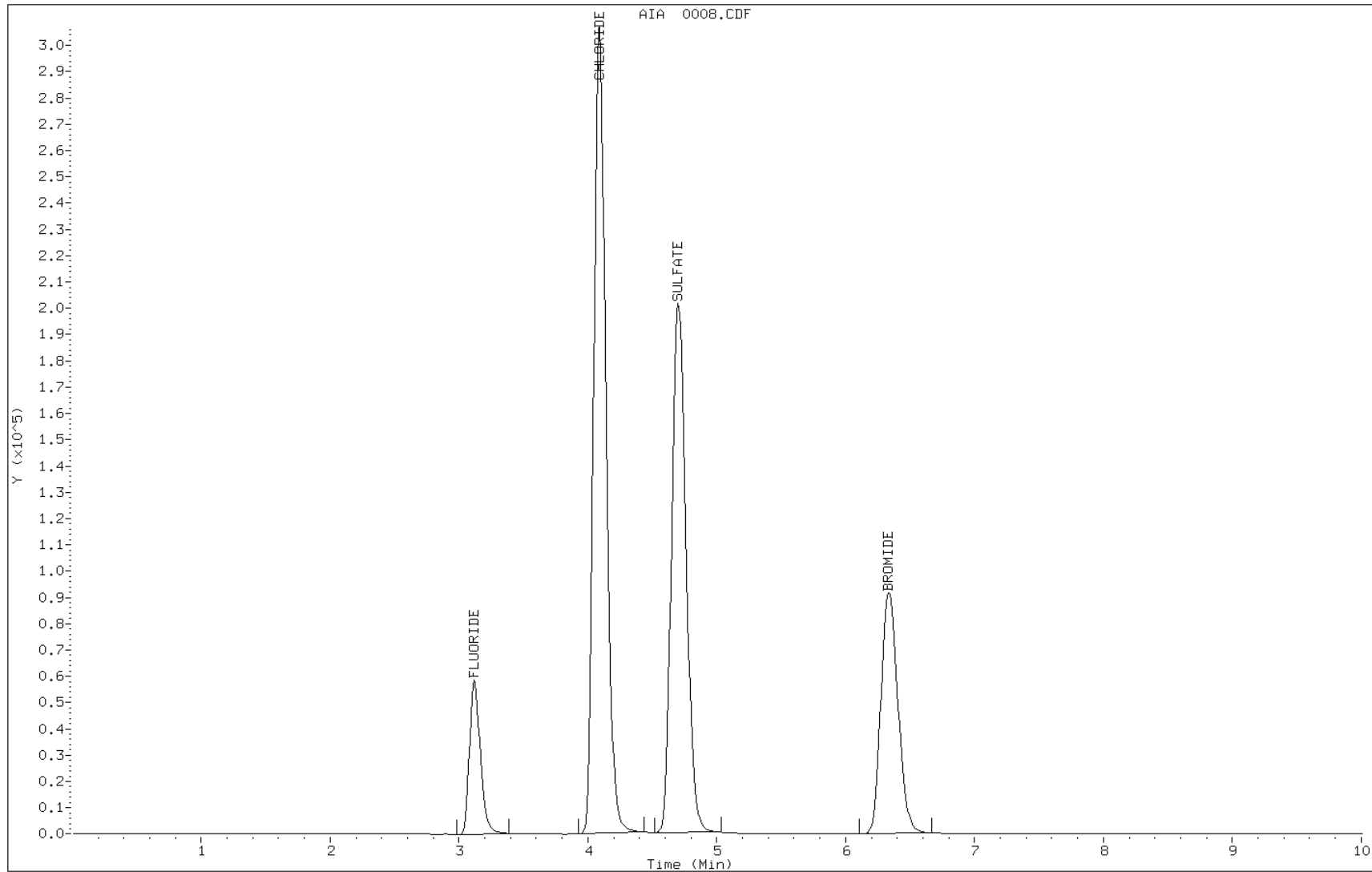
Date: 14-MAY-2013 16:01

Client ID: IC_ANION-5

Instrument: LCLIC.i

Sample Info: IC_ANION-5~2L051413

Operator: CB



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/2L051413A-NPW.b/0009.d
Lab Smp Id: IC Client Smp ID: IC_ANION-6
Inj Date : 14-MAY-2013 16:13
Operator : CB Inst ID: LCLIC.i
Smp Info : IC_ANION-6~2L051413
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/2L051413A-NPW.b/1-A-300-9056A.m
Meth Date : 15-May-2013 10:27 brazellc Quant Type: ESTD
Cal Date : 14-MAY-2013 16:13 Cal File: 0009.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.117	3.117	0.000	676111	2.00000	2.0	

4	BROMIDE				CAS #: 24959-67-9	
6.317	6.317	0.000	1761304	20.0000	20	(A)

2	CHLORIDE				CAS #: 16887-00-6	
4.083	4.083	0.000	4163210	20.0000	20	

3	SULFATE				CAS #: 14808-79-8	
4.692	4.692	0.000	3089013	20.0000	20	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: 0009.d

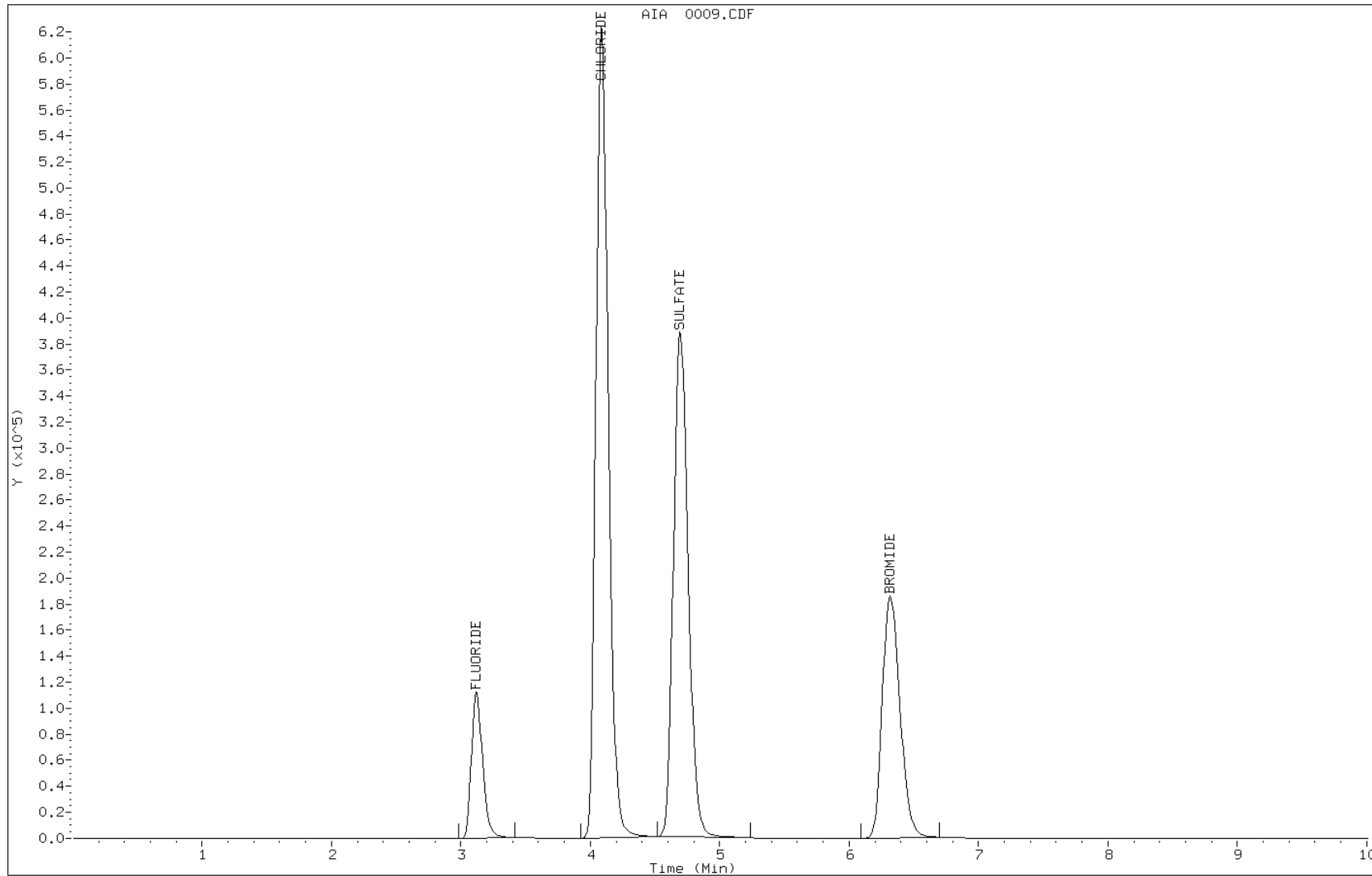
Date: 14-MAY-2013 16:13

Client ID: IC_ANION-6

Instrument: LCLIC.i

Sample Info: IC_ANION-6~2L051413

Operator: CB



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/2L051413A-NPW.b/0010.d
Lab Smp Id: IC Client Smp ID: IC_ANION-7
Inj Date : 14-MAY-2013 16:25
Operator : CB Inst ID: LCLIC.i
Smp Info : IC_ANION-7~2L051413
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/2L051413A-NPW.b/1-A-300-9056A.m
Meth Date : 15-May-2013 10:27 brazellc Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.133	3.133	0.000	1330141	4.00000	4.0	

4	BROMIDE				CAS #: 24959-67-9	
6.275	6.275	0.000	4521349	50.0000	52	(A)

2	CHLORIDE				CAS #: 16887-00-6	
4.083	4.083	0.000	10165603	50.0000	50	

3	SULFATE				CAS #: 14808-79-8	
4.658	4.658	0.000	7624690	50.0000	50	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: 0010.d

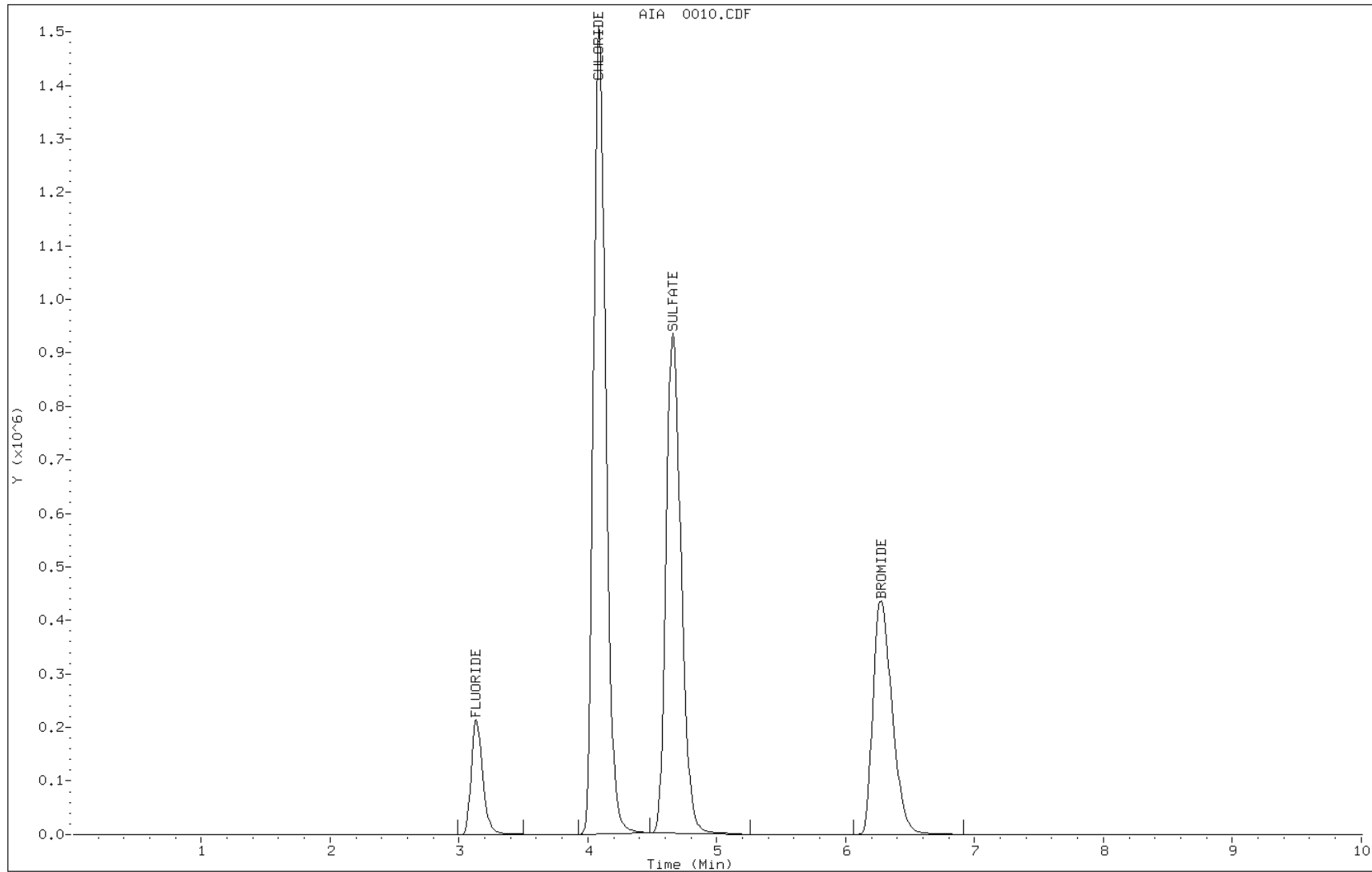
Date: 14-MAY-2013 16:25

Client ID: IC_ANION-7

Instrument: LCLIC.i

Sample Info: IC_ANION-7~2L051413

Operator: CB



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0004.d
Lab Smp Id: IC_ANION-5 Client Smp ID: IC_ANION-5
Inj Date : 17-MAY-2013 11:58
Operator : PT Inst ID: LCLIC.i
Smp Info : IC_ANION-5~1L051713
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 17-May-2013 12:49 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	RESPONSE (mg/L)	CAL-AMT	ON-COL	CAS #
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					16984-48-8
3.117	3.117	0.000	342991	1.00000	1.0	

4	BROMIDE					24959-67-9
6.317	6.317	0.000	843285	10.0000	9.7	

2	CHLORIDE					16887-00-6
4.083	4.083	0.000	2038653	10.0000	10	

3	SULFATE					14808-79-8
4.692	4.692	0.000	1558926	10.0000	10	

Data File: 0004.d

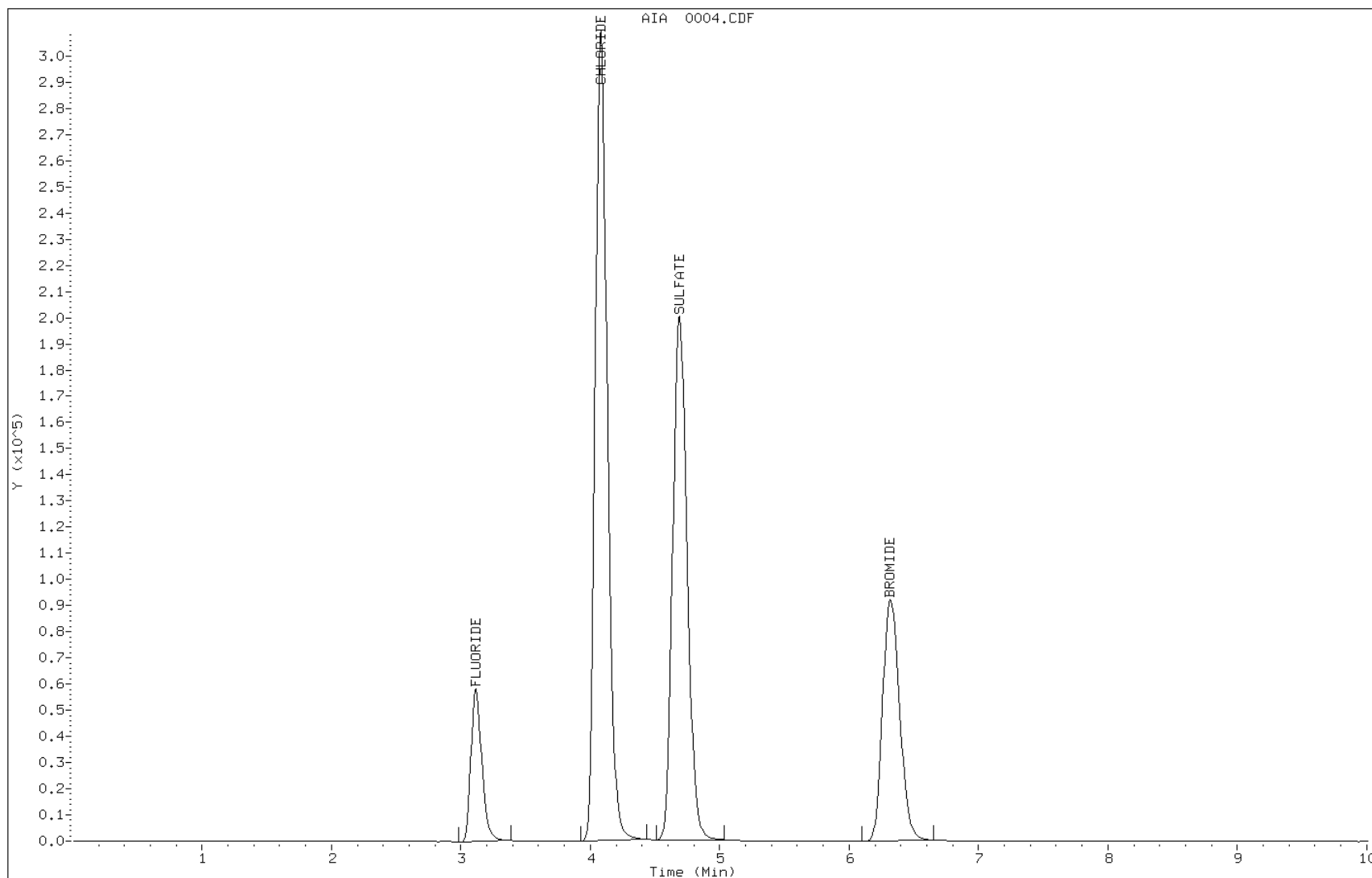
Date: 17-MAY-2013 11:58

Client ID: IC_ANION-5

Instrument: LCLIC.i

Sample Info: IC_ANION-5~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0005.d
Lab Smp Id: MB Client Smp ID: MB
Inj Date : 17-MAY-2013 12:10
Operator : PT Inst ID: LCLIC.i
Smp Info : MB~1L051713
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 17-May-2013 12:49 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS				
		ON-COL	FINAL	
RT	EXP RT	DLT RT	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====

Data File: 0005.d

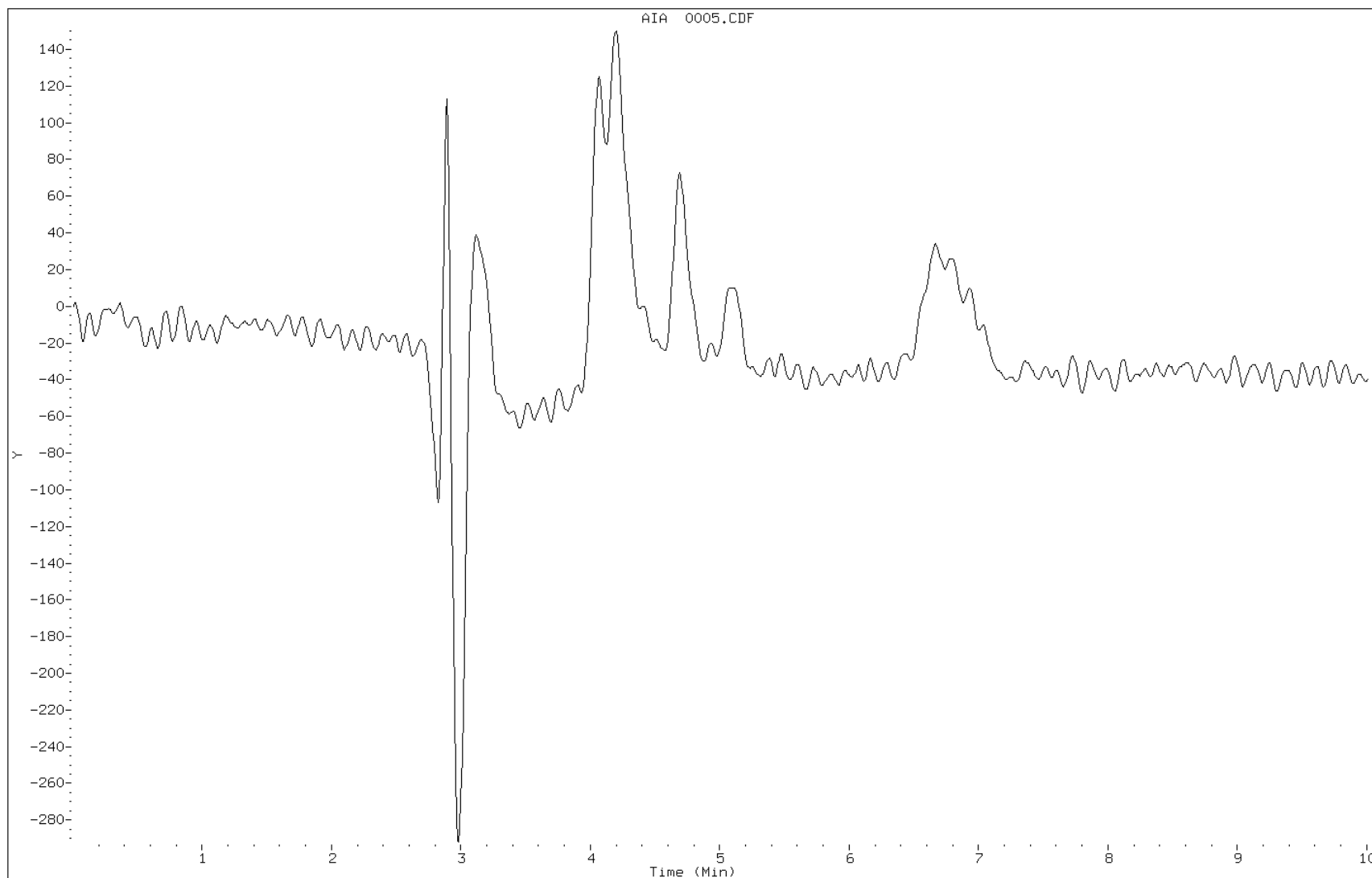
Date: 17-MAY-2013 12:10

Client ID: MB

Instrument: LCLIC.i

Sample Info: MB~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0006.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 17-MAY-2013 12:23
Operator : PT Inst ID: LCLIC.i
Smp Info : LCS~1L051713
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 17-May-2013 12:49 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.317	3.117	0.200	682153	2.03753	10	(M)
4	BROMIDE				CAS #: 24959-67-9	
6.383	6.317	0.066	839356	9.66739	48	
2	CHLORIDE				CAS #: 16887-00-6	
4.233	4.083	0.150	1987071	9.74673	49	
3	SULFATE				CAS #: 14808-79-8	
4.633	4.692	-0.059	1500153	9.80332	49	

QC Flag Legend

M - Compound response manually integrated.

Data File: 0006.d

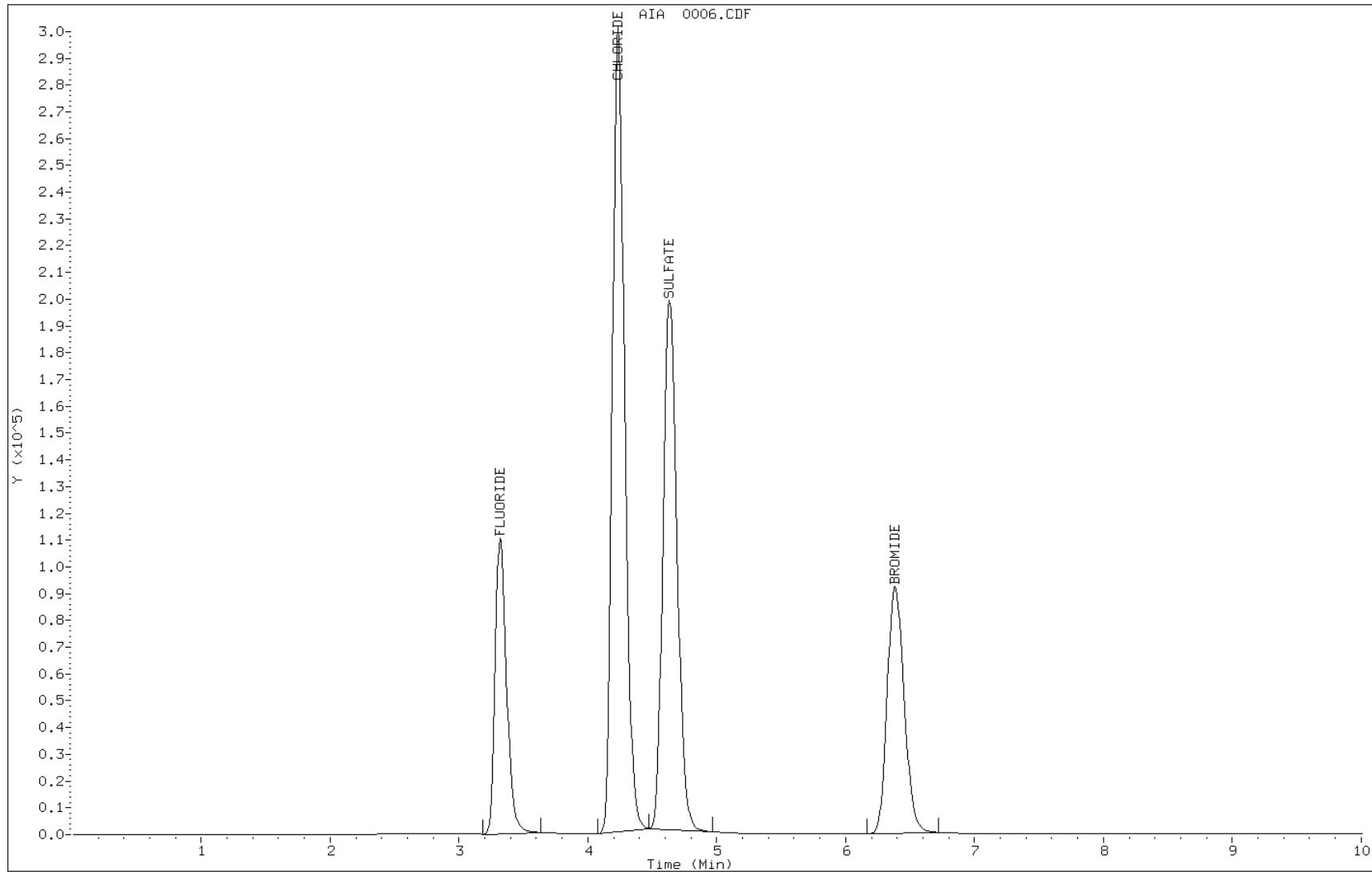
Date: 17-MAY-2013 12:23

Client ID: LCS

Instrument: LCLIC.i

Sample Info: LCS~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0007.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 17-MAY-2013 12:35
Operator : PT Inst ID: LCLIC.i
Smp Info : LCSD~1L051713
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 17-May-2013 12:49 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.117	3.117	0.000	651936	1.94727	9.7	
4	BROMIDE					CAS #: 24959-67-9
6.317	6.317	0.000	826687	9.52148	48	
2	CHLORIDE					CAS #: 16887-00-6
4.083	4.083	0.000	1940482	9.51821	48	
3	SULFATE					CAS #: 14808-79-8
4.692	4.692	0.000	1463296	9.56247	48	

Data File: 0007.d

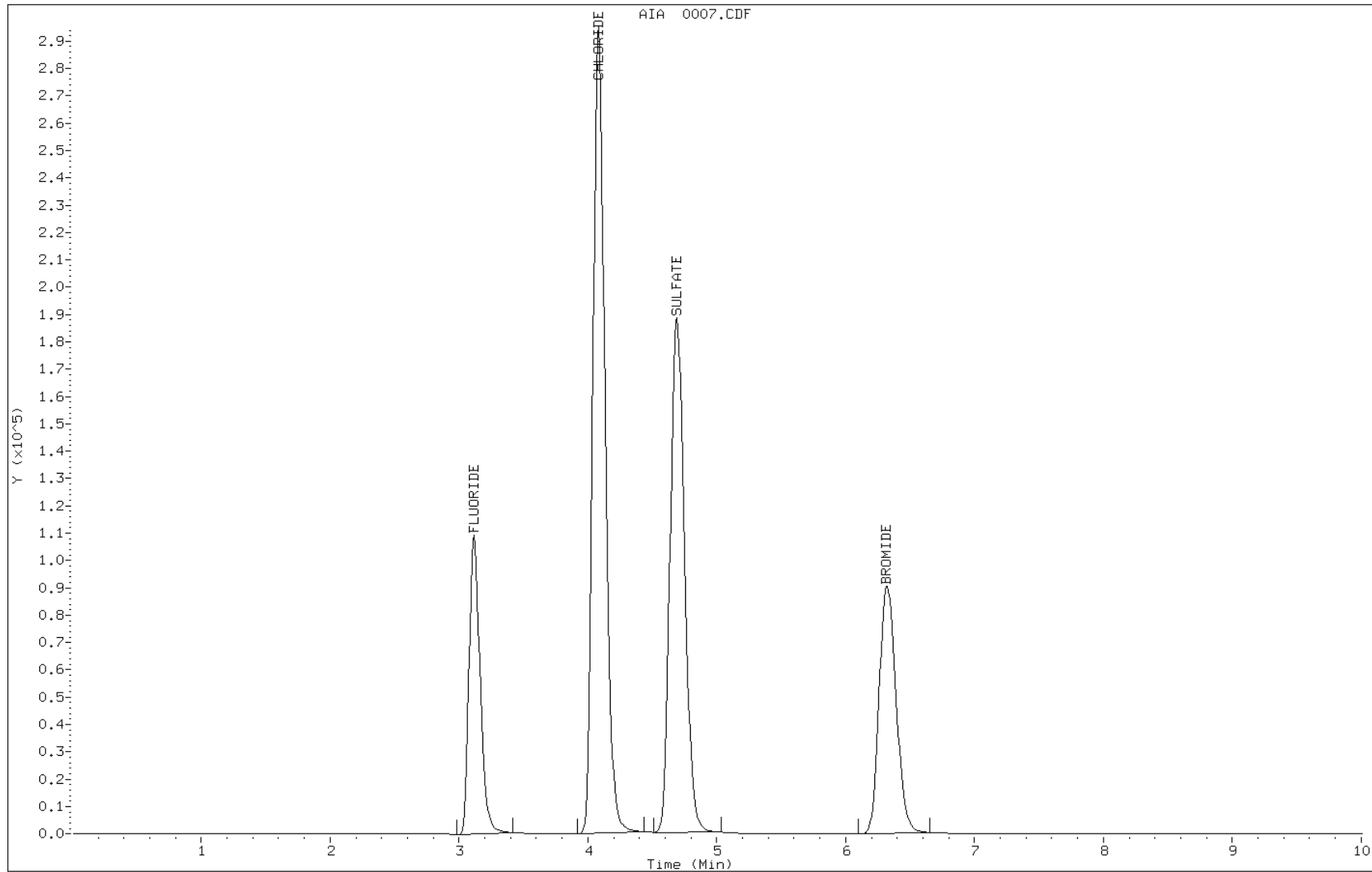
Date: 17-MAY-2013 12:35

Client ID: LCSD

Instrument: LCLIC.i

Sample Info: LCSD~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0011.d
Lab Smp Id: 680-89899-I-2 MS Client Smp ID: 680-89899-I-2 MS
Inj Date : 17-MAY-2013 17:55
Operator : PT Inst ID: LCLIC.i
Smp Info : 680-89899-I-2 MS~1L051713
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 17-May-2013 12:49 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.117	3.117	0.000	674740	2.01538	10	
4	BROMIDE					CAS #: 24959-67-9
6.333	6.317	0.016	858392	9.88665	49	
2	CHLORIDE					CAS #: 16887-00-6
4.083	4.083	0.000	8359831	41.0056	210	(R)
3	SULFATE					CAS #: 14808-79-8
4.700	4.692	0.008	1901357	12.4251	62	(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: 0011.d

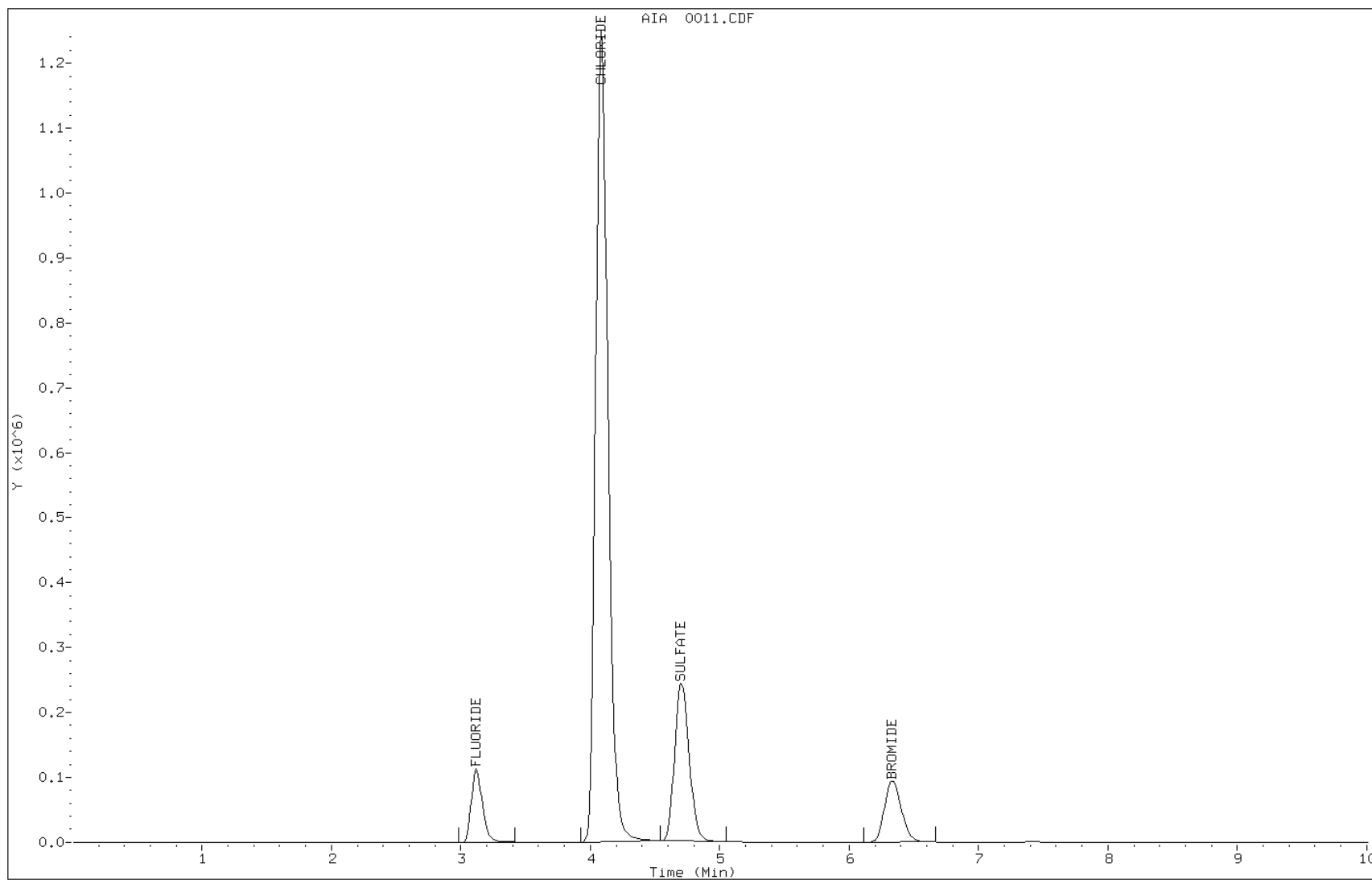
Date: 17-MAY-2013 17:55

Client ID: 680-89899-I-2 MS

Instrument: LCLIC.i

Sample Info: 680-89899-I-2 MS~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0012.d
Lab Smp Id: 680-89899-I-2 MSD Client Smp ID: 680-89899-I-2 MSD
Inj Date : 17-MAY-2013 18:08
Operator : PT Inst ID: LCLIC.i
Smp Info : 680-89899-I-2 MSD~1L051713
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 17-May-2013 12:49 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.117	3.117	0.000	673076	2.01041	10	
4	BROMIDE					CAS #: 24959-67-9
6.333	6.317	0.016	856974	9.87032	49	
2	CHLORIDE					CAS #: 16887-00-6
4.083	4.083	0.000	8353894	40.9765	200	(R)
3	SULFATE					CAS #: 14808-79-8
4.700	4.692	0.008	1898666	12.4076	62	(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: 0012.d

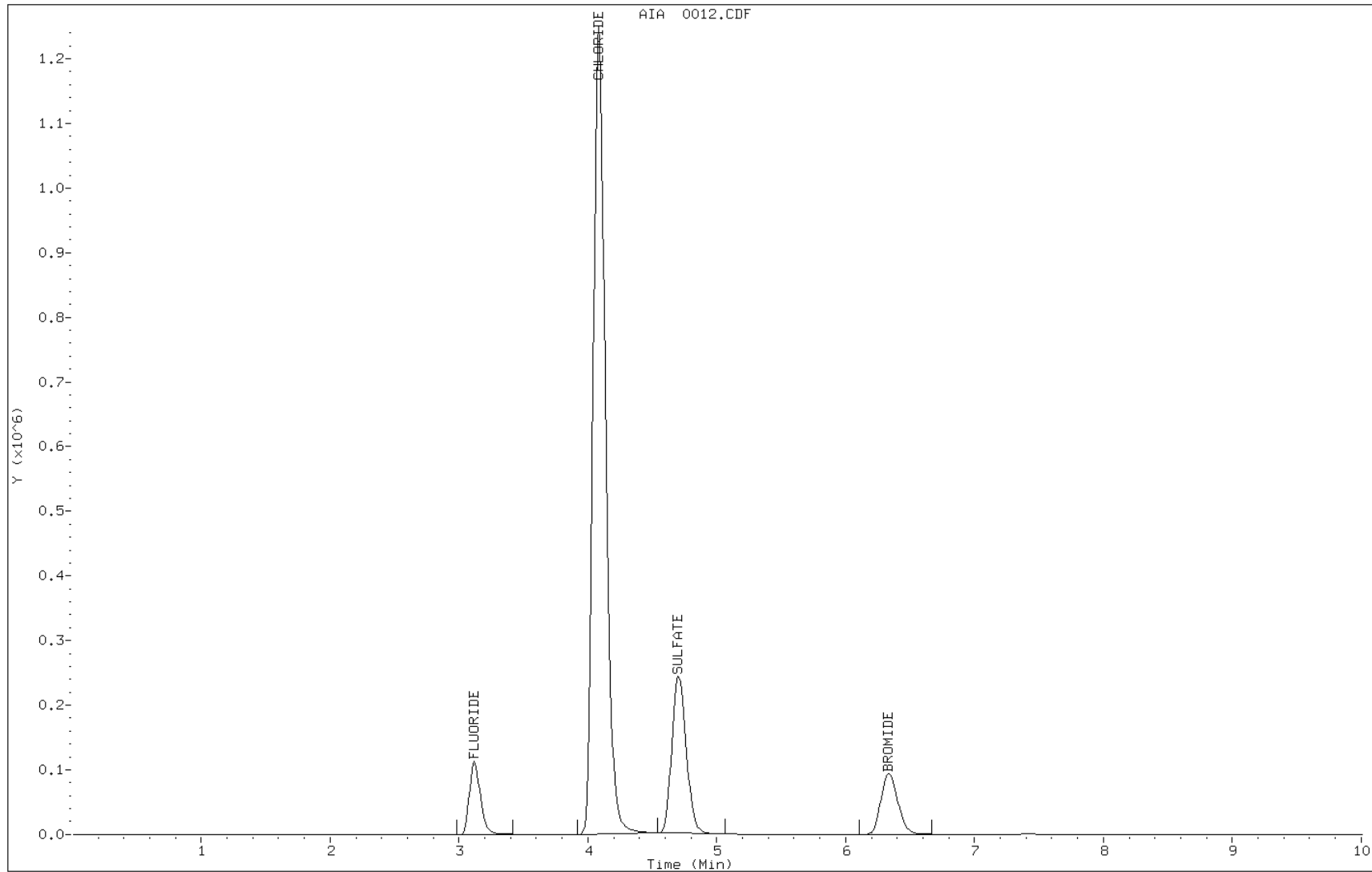
Date: 17-MAY-2013 18:08

Client ID: 680-89899-I-2 MSD

Instrument: LCLIC.i

Sample Info: 680-89899-I-2 MSD~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0018.d
Lab Smp Id: IC_ANION-5 Client Smp ID: IC_ANION-5
Inj Date : 17-MAY-2013 19:22
Operator : PT Inst ID: LCLIC.i
Smp Info : IC_ANION-5~1L051713
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.117	3.117	0.000	341792	1.00000	1.0	

4	BROMIDE				CAS #: 24959-67-9	
6.342	6.342	0.000	838564	10.0000	9.7	

2	CHLORIDE				CAS #: 16887-00-6	
4.092	4.092	0.000	2039120	10.0000	10	

3	SULFATE				CAS #: 14808-79-8	
4.708	4.708	0.000	1517377	10.0000	9.9	

Data File: 0018.d

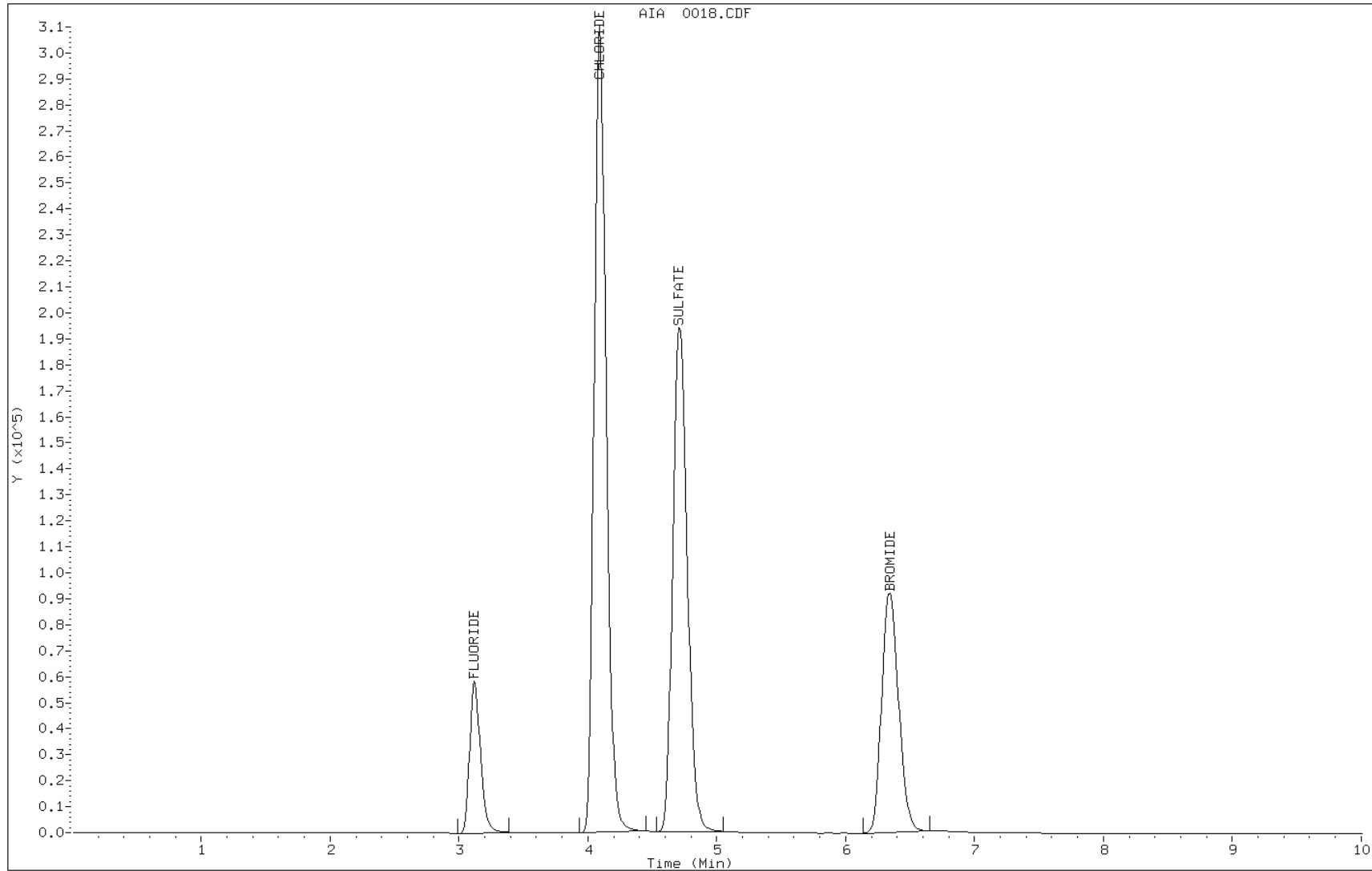
Date: 17-MAY-2013 19:22

Client ID: IC_ANION-5

Instrument: LCLIC.i

Sample Info: IC_ANION-5~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0019.d
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 17-MAY-2013 19:35
Operator : PT Inst ID: LCLIC.i
Smp Info : CCB~1L051713
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS
ON-COL FINAL
RT EXP RT DLT RT RESPONSE (mg/L) (mg/l)
== =====

Data File: 0019.d

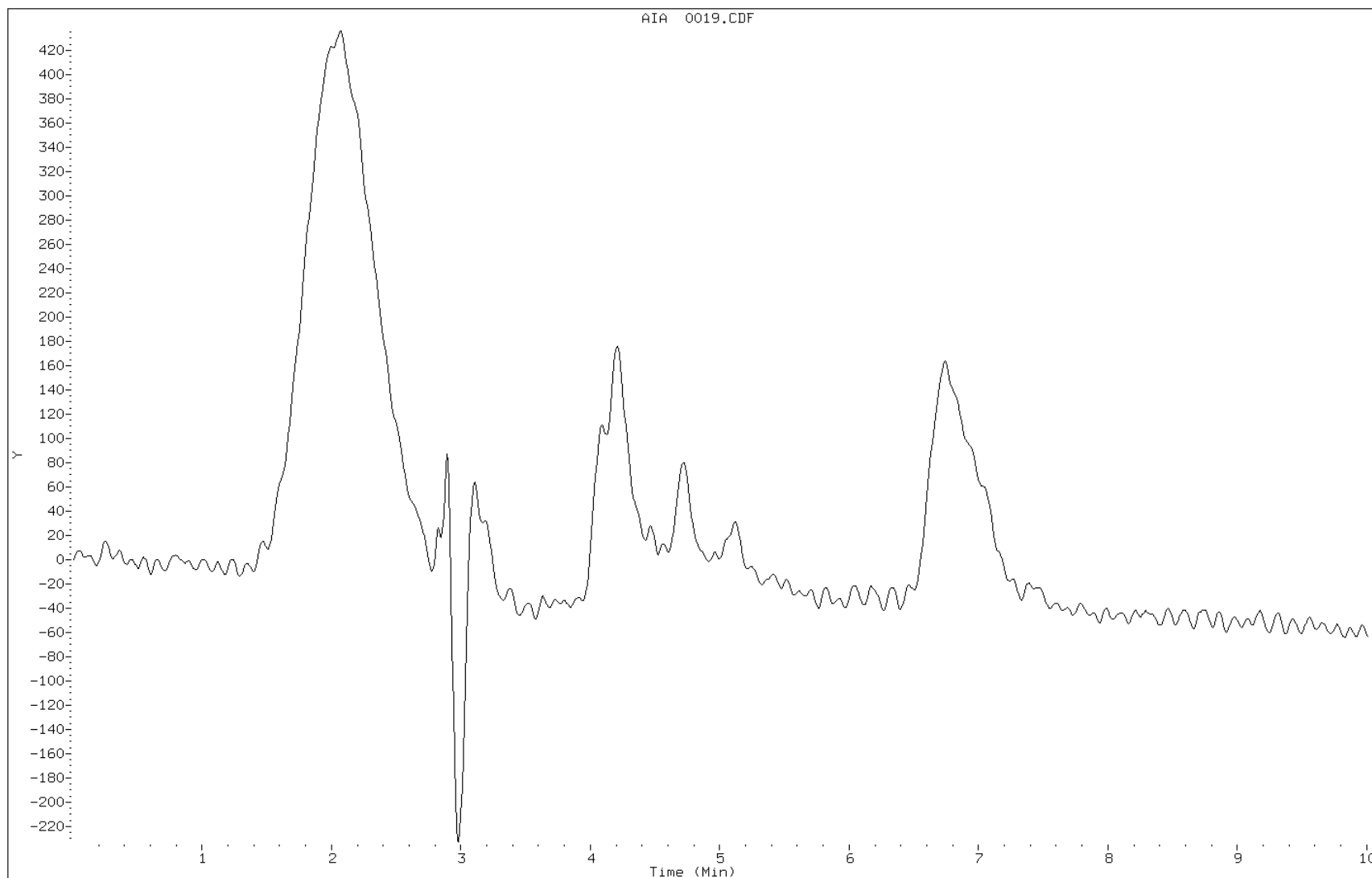
Date: 17-MAY-2013 19:35

Client ID: CCB

Instrument: LCLIC.i

Sample Info: CCB~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0025.d
Lab Smp Id: 680-90122-B-1 Client Smp ID: 25LM20098
Inj Date : 17-MAY-2013 20:49
Operator : PT Inst ID: LCLIC.i
Smp Info : 680-90122-B-1~1L051713
Misc Info : 680-90122-B-1
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL		
==	=====	=====	RESPONSE (mg/L)	(mg/l)		
1	FLUORIDE				CAS #: 16984-48-8	
3.117	3.117	0.000	6946 0.02075	0.10		(a)
2	CHLORIDE				CAS #: 16887-00-6	
4.100	4.083	0.017	32838 0.16107	0.81		(aM)
3	SULFATE				CAS #: 14808-79-8	
4.792	4.692	0.100	548351 3.58341	18		

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: 0025.d

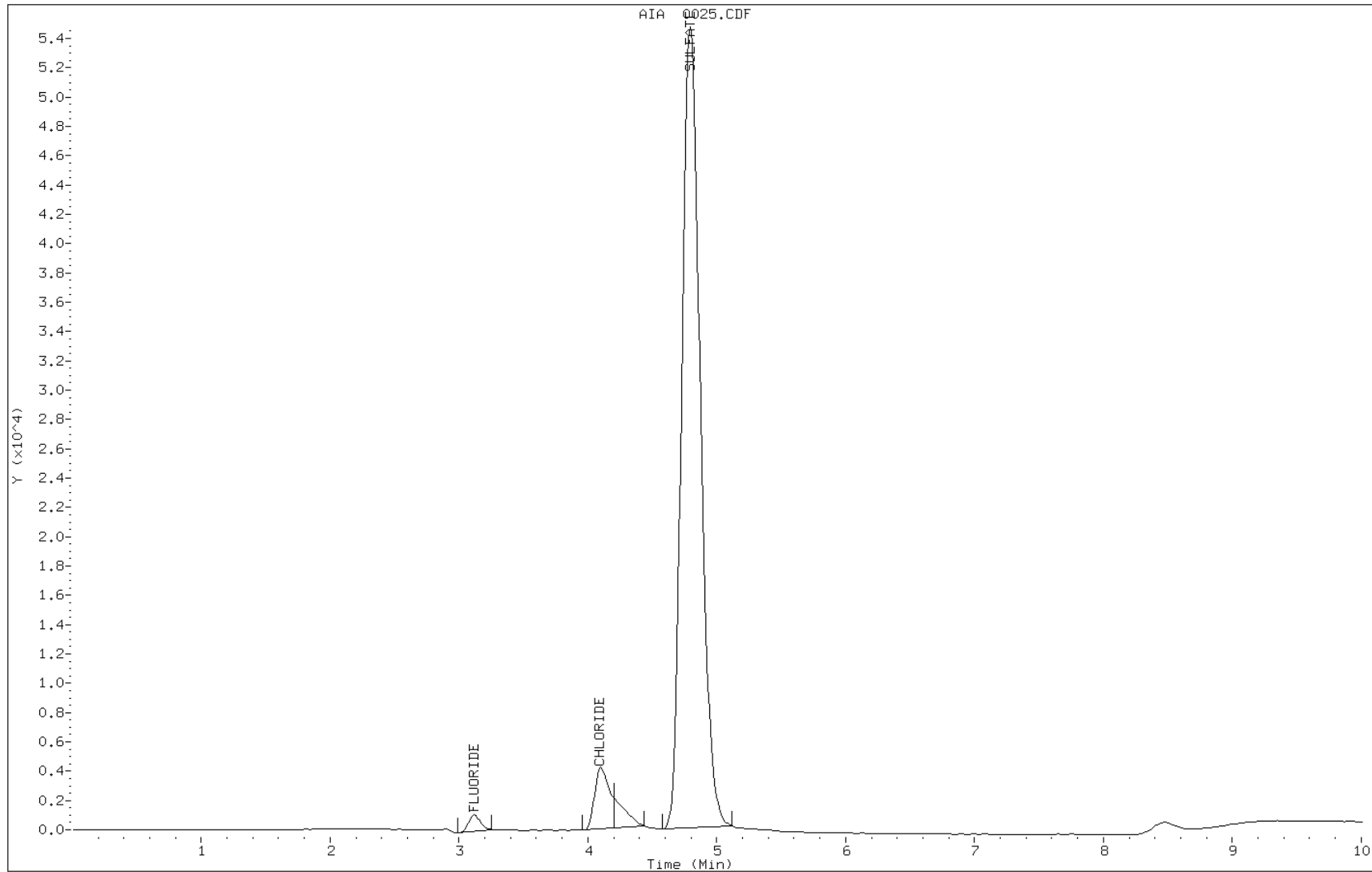
Date: 17-MAY-2013 20:49

Client ID: 25LM20098

Instrument: LCLIC.i

Sample Info: 680-90122-B-1~1L051713

Operator: PT



Manual Integration Report

Data File: 0025.d
Inj. Date and Time: 17-MAY-2013 20:49
Instrument ID: LCLIC.i
Client ID: 25LM20098
Compound: 2 CHLORIDE
CAS #: 16887-00-6
Report Date: 05/18/2013

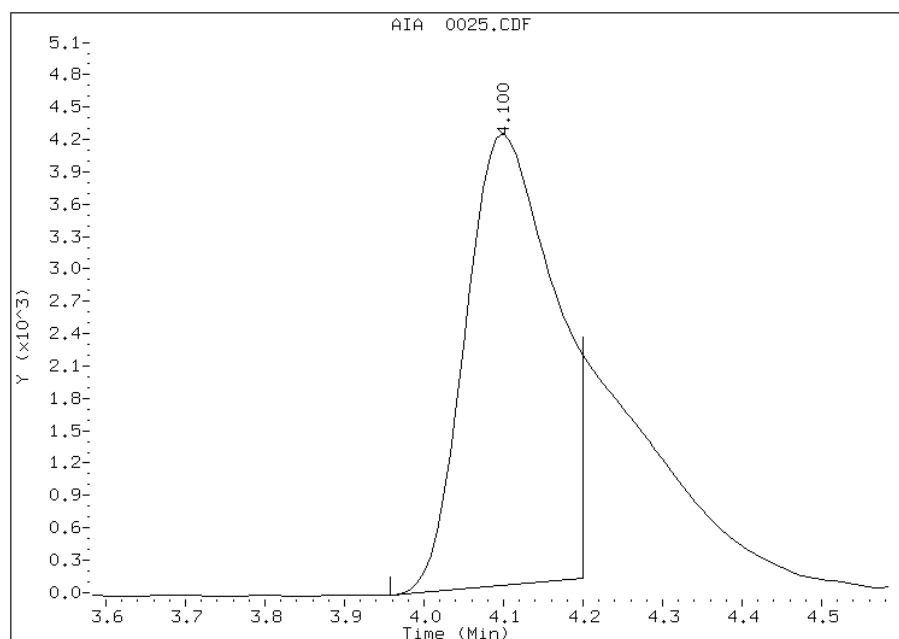
Processing Integration Results

Not Detected

Expected RT: 4.08

Manual Integration Results

RT: 4.10
Response: 32838
Amount: 0.16
Conc: 0.81



Manually Integrated By: tankersp
Manual Integration Reason: Split Peak

TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0026.d
Lab Smp Id: 680-90122-B-2 Client Smp ID: 25LM20099
Inj Date : 17-MAY-2013 21:01
Operator : PT Inst ID: LCLIC.i
Smp Info : 680-90122-B-2~1L051713
Misc Info : 680-90122-B-2
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (mg/L)	(mg/l)
2						
4.333	4.083	0.250	672042	3.29642	16	(M)

3						
4.667	4.692	-0.025	823420	5.38095	27	

QC Flag Legend

M - Compound response manually integrated.

Data File: 0026.d

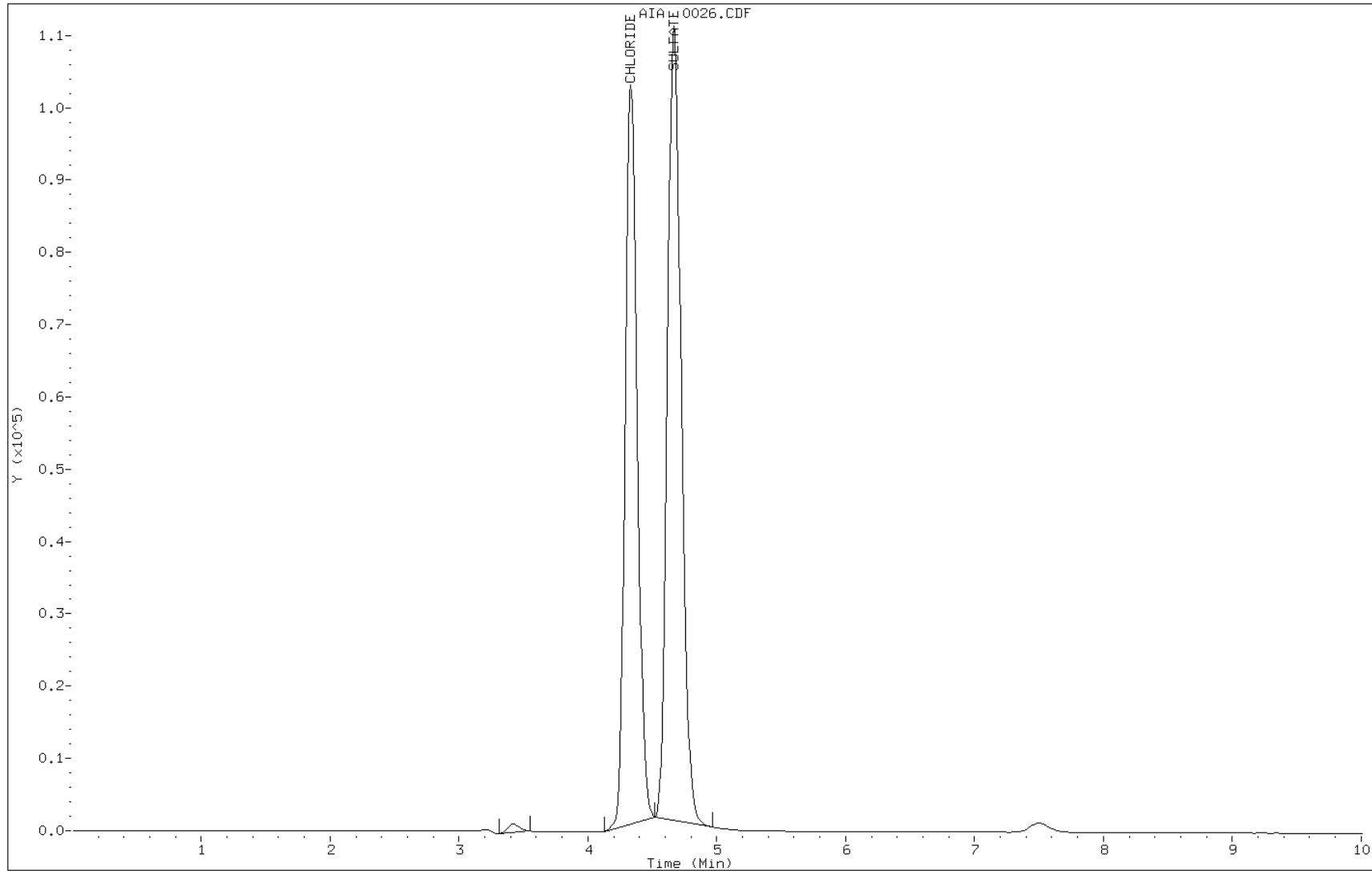
Date: 17-MAY-2013 21:01

Client ID: 25LM20099

Instrument: LCLIC.i

Sample Info: 680-90122-B-2~1L051713

Operator: PT



Manual Integration Report

Data File: 0026.d
Inj. Date and Time: 17-MAY-2013 21:01
Instrument ID: LCLIC.i
Client ID: 25LM20099
Compound: 2 CHLORIDE
CAS #: 16887-00-6
Report Date: 05/18/2013

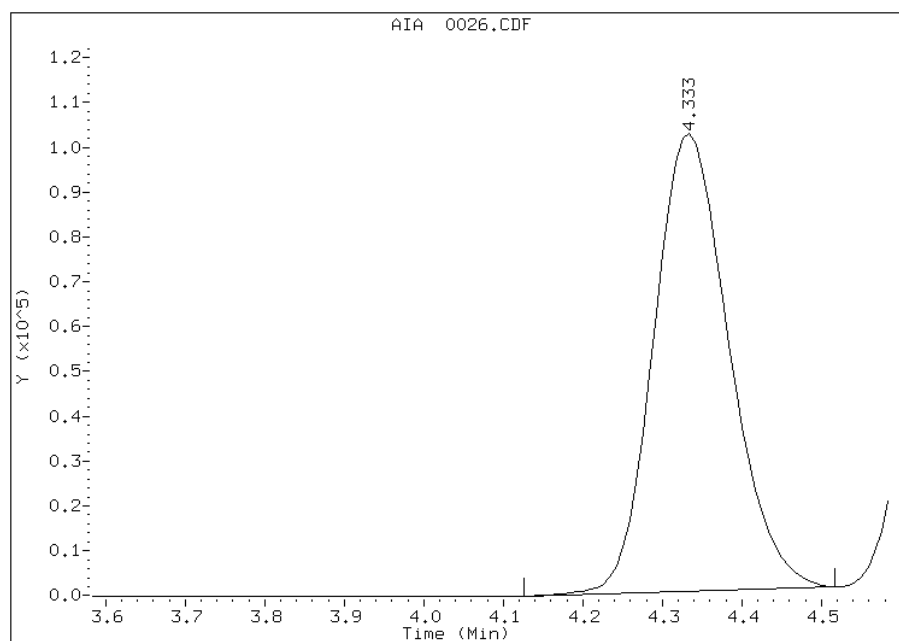
Processing Integration Results

Not Detected

Expected RT: 4.08

Manual Integration Results

RT: 4.33
Response: 672042
Amount: 3.30
Conc: 16.48



Manually Integrated By: tankersp
Manual Integration Reason:

TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0027.d
Lab Smp Id: 680-90122-A-3 Client Smp ID: 25LM20101
Inj Date : 17-MAY-2013 21:14
Operator : PT Inst ID: LCLIC.i
Smp Info : 680-90122-A-3~1L051713
Misc Info : 680-90122-A-3
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL		
==	=====	=====	RESPONSE (mg/L)	(mg/l)		
1	FLUORIDE				CAS #: 16984-48-8	
3.117	3.117	0.000	7712 0.02304	0.12		(a)
2	CHLORIDE				CAS #: 16887-00-6	
4.092	4.092	0.000	73147 0.35879	1.8		(a)
3	SULFATE				CAS #: 14808-79-8	
4.684	4.708	-0.024	5097452 33.3112	170		

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: 0027.d

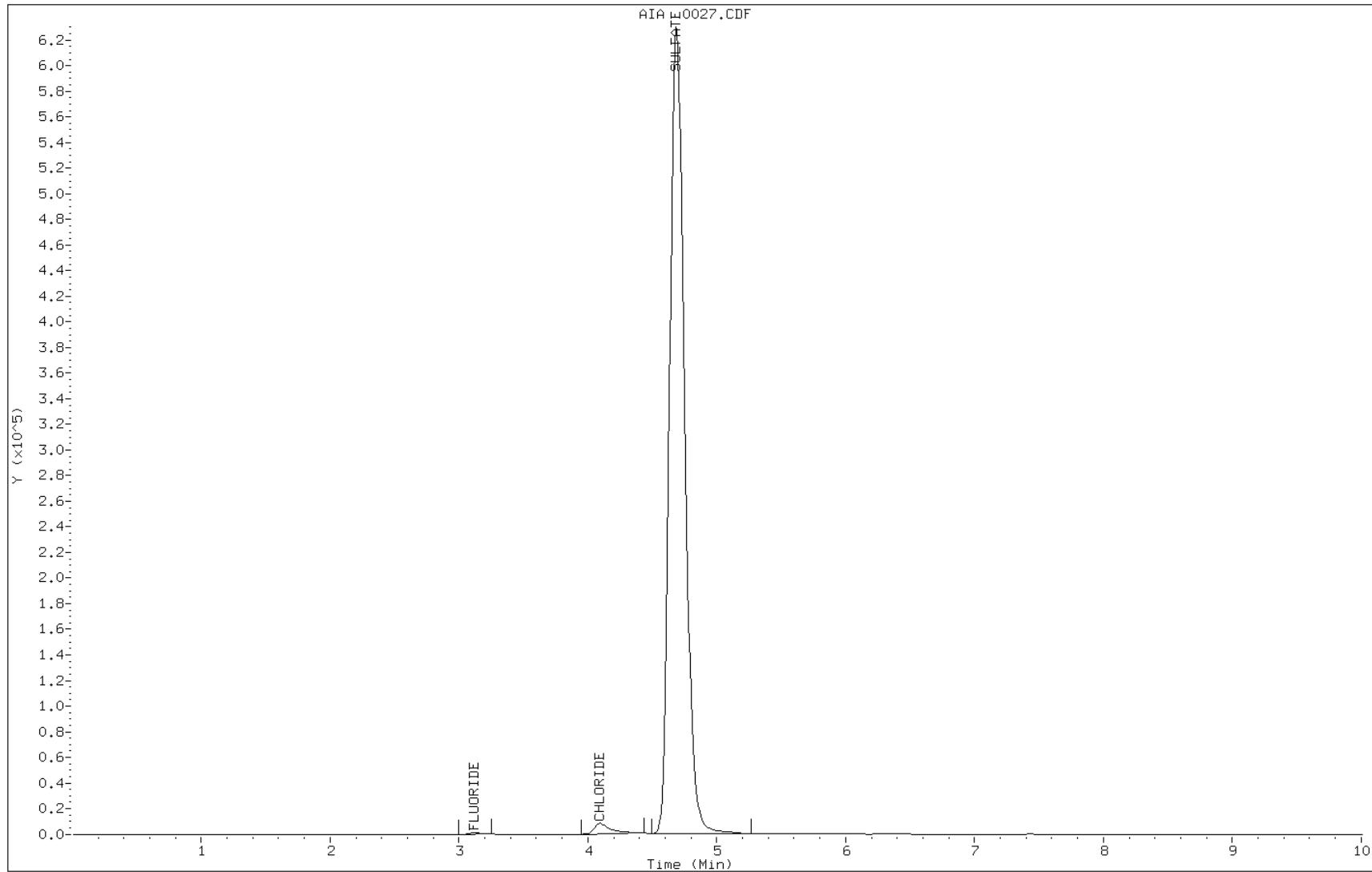
Date: 17-MAY-2013 21:14

Client ID: 25LM20101

Instrument: LCLIC.i

Sample Info: 680-90122-A-3~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0028.d
 Lab Smp Id: 680-90122-B-3 MS Client Smp ID: 25LM20101
 Inj Date : 17-MAY-2013 21:26
 Operator : PT Inst ID: LCLIC.i
 Smp Info : 680-90122-B-3 MS~1L051713
 Misc Info : 680-90122-B-3 MS
 Comment :
 Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
 Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
 Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: Anion.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	RESPONSE (mg/L)	FINAL	
==	=====	=====	=====	=====	=====	=====
1 FLUORIDE CAS #: 16984-48-8						
3.117	3.117	0.000	673315	2.01113	10	

4 BROMIDE CAS #: 24959-67-9						
6.333	6.342	-0.009	850505	9.79581	49	

2 CHLORIDE CAS #: 16887-00-6						
4.083	4.092	-0.009	2087327	10.2385	51	

3 SULFATE CAS #: 14808-79-8						
4.683	4.708	-0.025	6091966	39.8103	200	(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: 0028.d

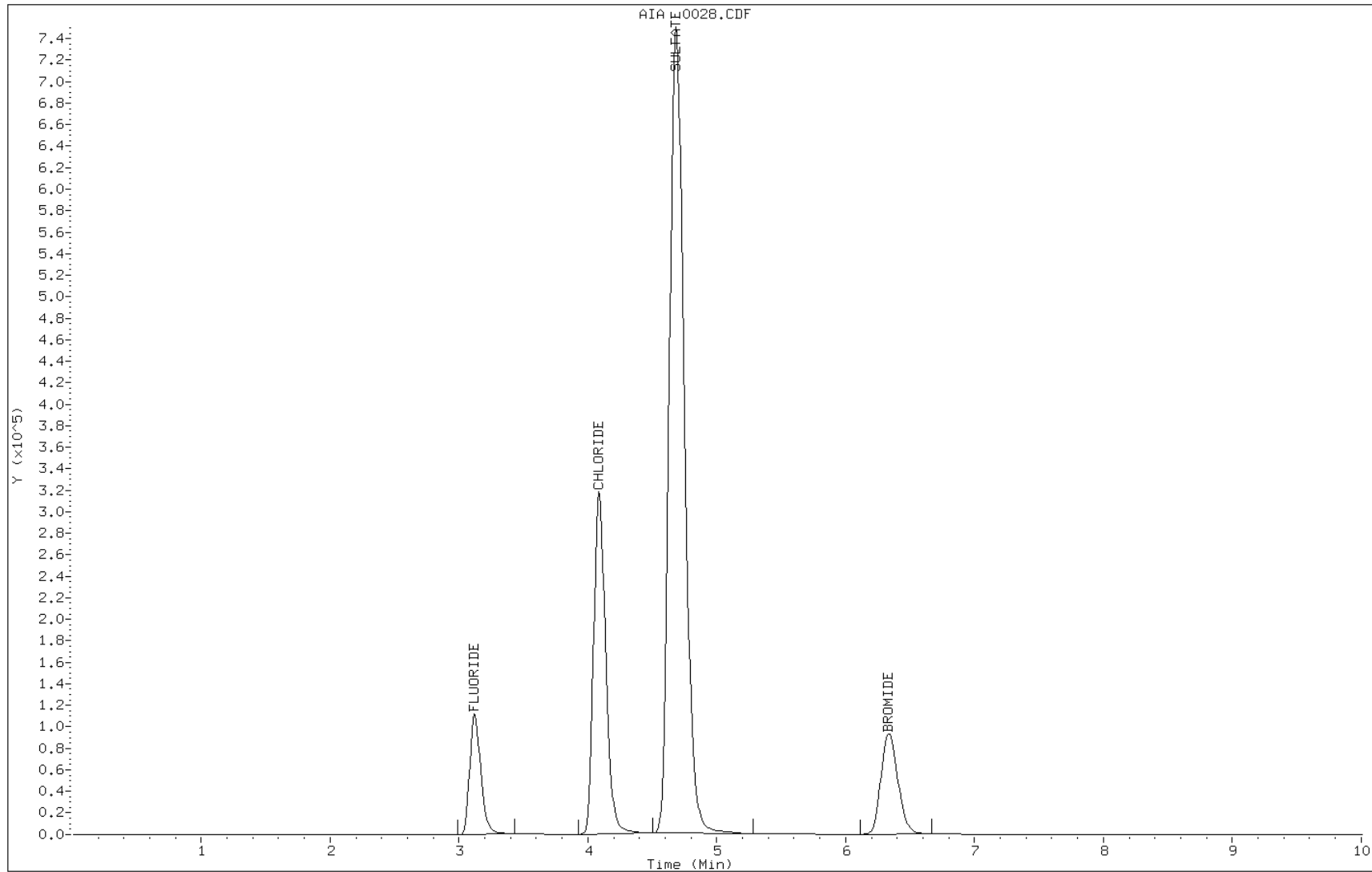
Date: 17-MAY-2013 21:26

Client ID: 25LM20101

Instrument: LCLIC.i

Sample Info: 680-90122-B-3 MS~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0029.d
 Lab Smp Id: 680-90122-A-3 MSD Client Smp ID: 25LM20101
 Inj Date : 17-MAY-2013 21:39
 Operator : PT Inst ID: LCLIC.i
 Smp Info : 680-90122-A-3 MSD~1L051713
 Misc Info : 680-90122-A-3 MSD
 Comment :
 Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
 Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
 Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
 Als bottle: 1 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: Anion.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	RESPONSE (mg/L)	FINAL	
==	=====	=====	=====	=====	=====	=====
1 FLUORIDE CAS #: 16984-48-8						
3.117	3.117	0.000	666845	1.99180	10	

4 BROMIDE CAS #: 24959-67-9						
6.333	6.342	-0.009	841772	9.69522	48	

2 CHLORIDE CAS #: 16887-00-6						
4.083	4.092	-0.009	2069297	10.1501	51	

3 SULFATE CAS #: 14808-79-8						
4.684	4.708	-0.024	6224023	40.6733	200	(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: 0029.d

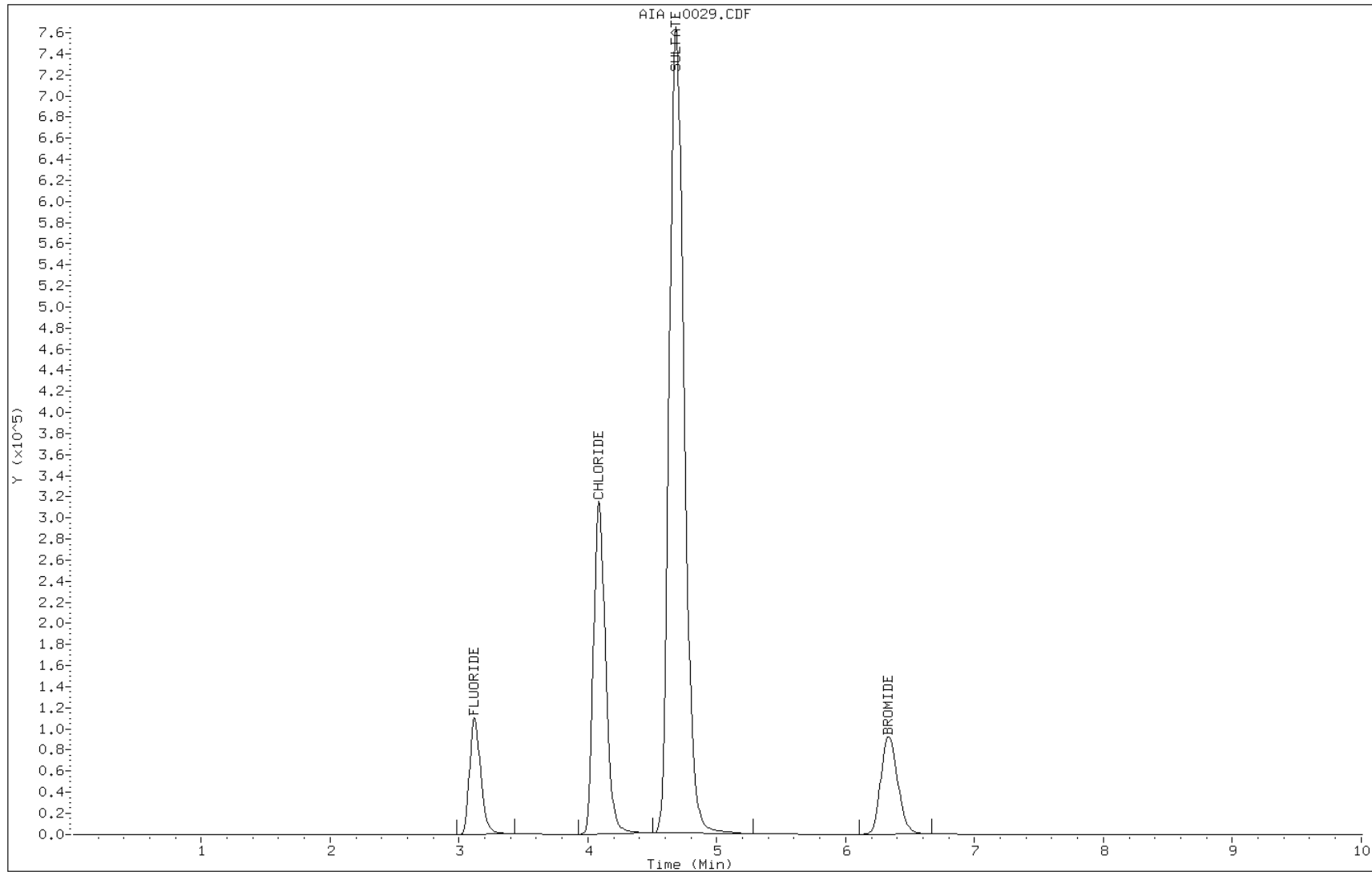
Date: 17-MAY-2013 21:39

Client ID: 25LM20101

Instrument: LCLIC.i

Sample Info: 680-90122-A-3 MSD~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0030.d
Lab Smp Id: IC_ANION-5 Client Smp ID: IC_ANION-5
Inj Date : 17-MAY-2013 21:51
Operator : PT Inst ID: LCLIC.i
Smp Info : IC_ANION-5~1L051713
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.117	3.117	0.000	339657	1.00000	1.0	

4	BROMIDE					CAS #: 24959-67-9
6.333	6.333	0.000	841855	10.0000	9.7	

2	CHLORIDE					CAS #: 16887-00-6
4.092	4.092	0.000	2037371	10.0000	10	

3	SULFATE					CAS #: 14808-79-8
4.700	4.700	0.000	1528146	10.0000	10	

Data File: 0030.d

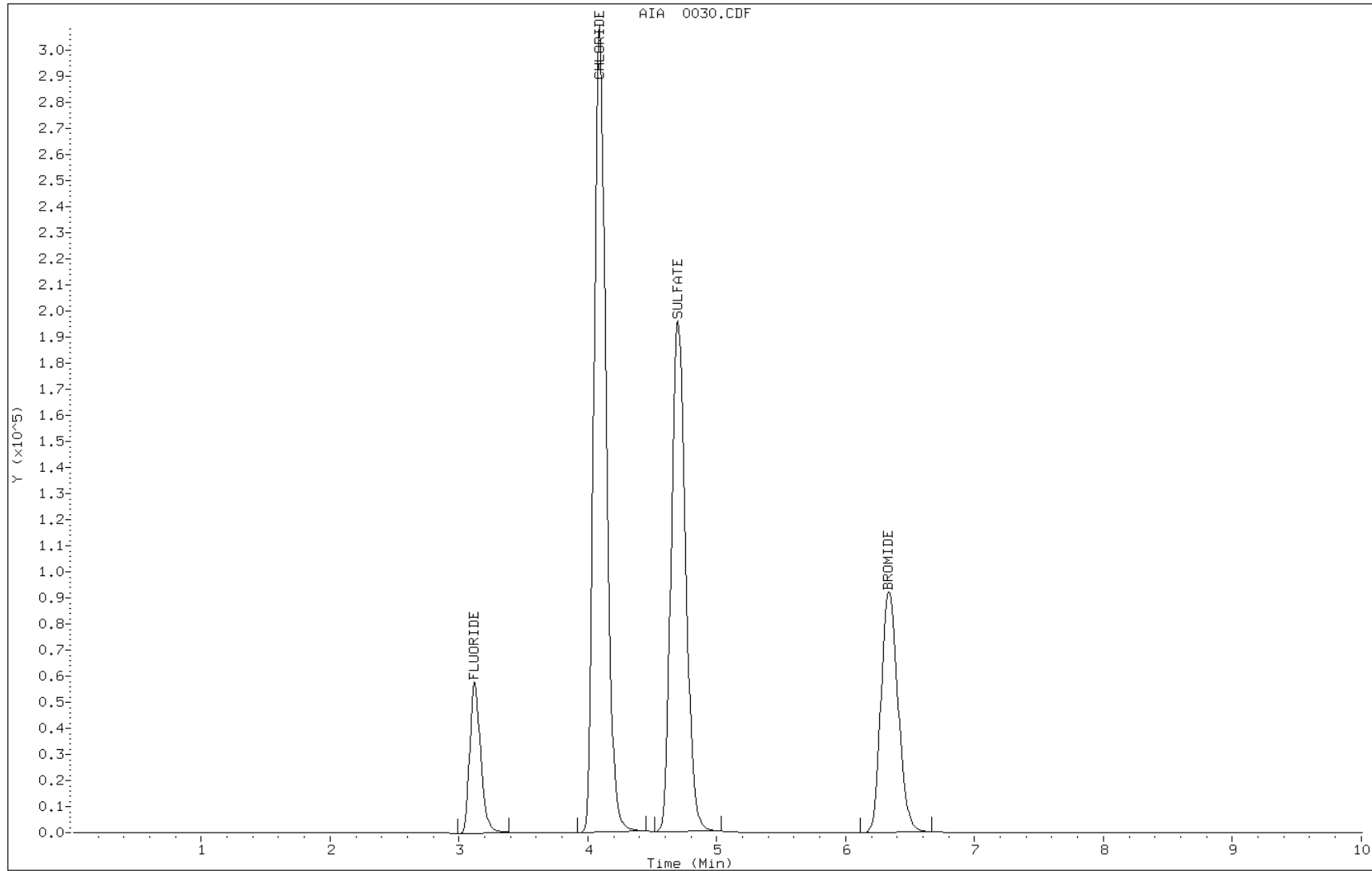
Date: 17-MAY-2013 21:51

Client ID: IC_ANION-5

Instrument: LCLIC.i

Sample Info: IC_ANION-5~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0031.d
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 17-MAY-2013 22:03
Operator : PT Inst ID: LCLIC.i
Smp Info : CCB~1L051713
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS				
		ON-COL	FINAL	
RT	EXP RT	DLT RT	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====

Data File: 0031.d

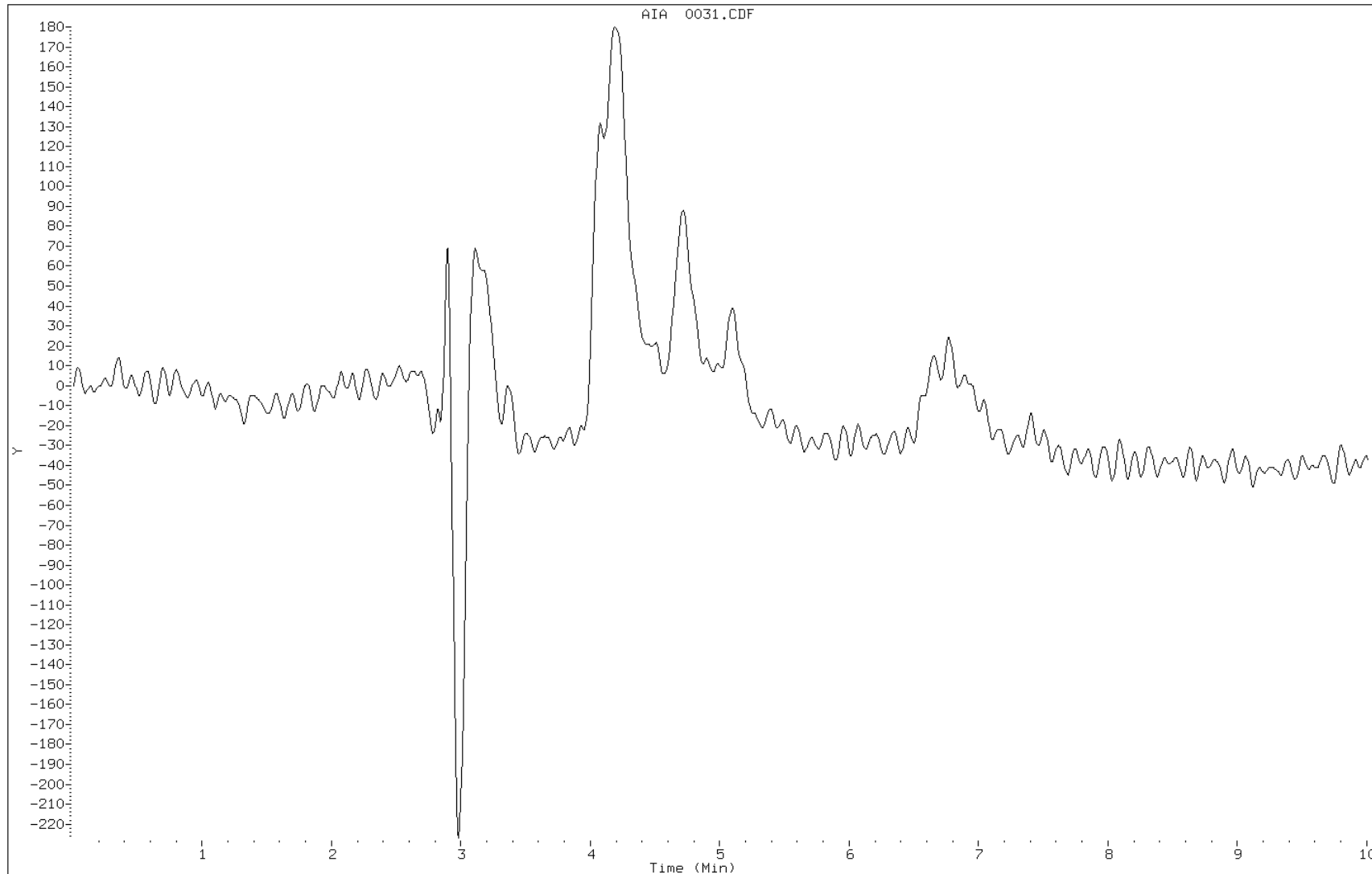
Date: 17-MAY-2013 22:03

Client ID: CCB

Instrument: LCLIC.i

Sample Info: CCB~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0032.d
Lab Smp Id: 680-90122-B-4 Client Smp ID: 25LM20102
Inj Date : 17-MAY-2013 22:16
Operator : PT Inst ID: LCLIC.i
Smp Info : 680-90122-B-4~1L051713
Misc Info : 680-90122-B-4
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL		
==	=====	=====	RESPONSE (mg/L)	(mg/l)		
1	FLUORIDE				CAS #: 16984-48-8	
3.117	3.117	0.000	7681 0.02294	0.11		(a)
2	CHLORIDE				CAS #: 16887-00-6	
4.092	4.092	0.000	70215 0.34441	1.7		(a)
3	SULFATE				CAS #: 14808-79-8	
4.692	4.700	-0.008	4570669 29.8688	150		

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: 0032.d

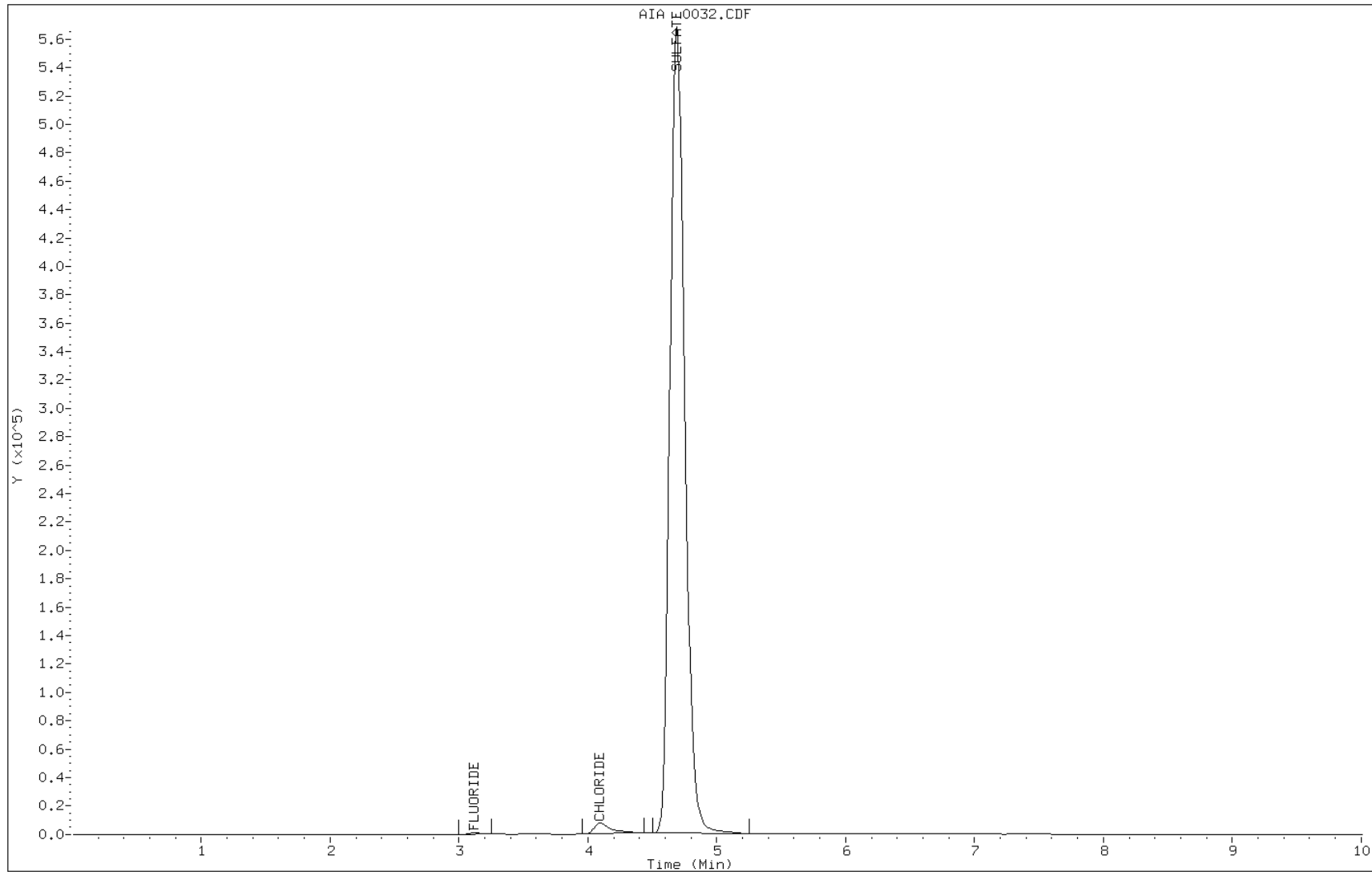
Date: 17-MAY-2013 22:16

Client ID: 25LM20102

Instrument: LCLIC.i

Sample Info: 680-90122-B-4~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0033.d
Lab Smp Id: 680-90122-B-6 Client Smp ID: 25LM20105
Inj Date : 17-MAY-2013 22:28
Operator : PT Inst ID: LCLIC.i
Smp Info : 680-90122-B-6~1L051713
Misc Info : 680-90122-B-6
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE					CAS #: 16984-48-8
3.117	3.117	0.000	8778	0.02622	0.13	(a)
2	CHLORIDE					CAS #: 16887-00-6
4.133	4.083	0.050	27167	0.13326	0.67	(aM)
3	SULFATE					CAS #: 14808-79-8
4.700	4.692	0.008	418503	2.73487	14	

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: 0033.d

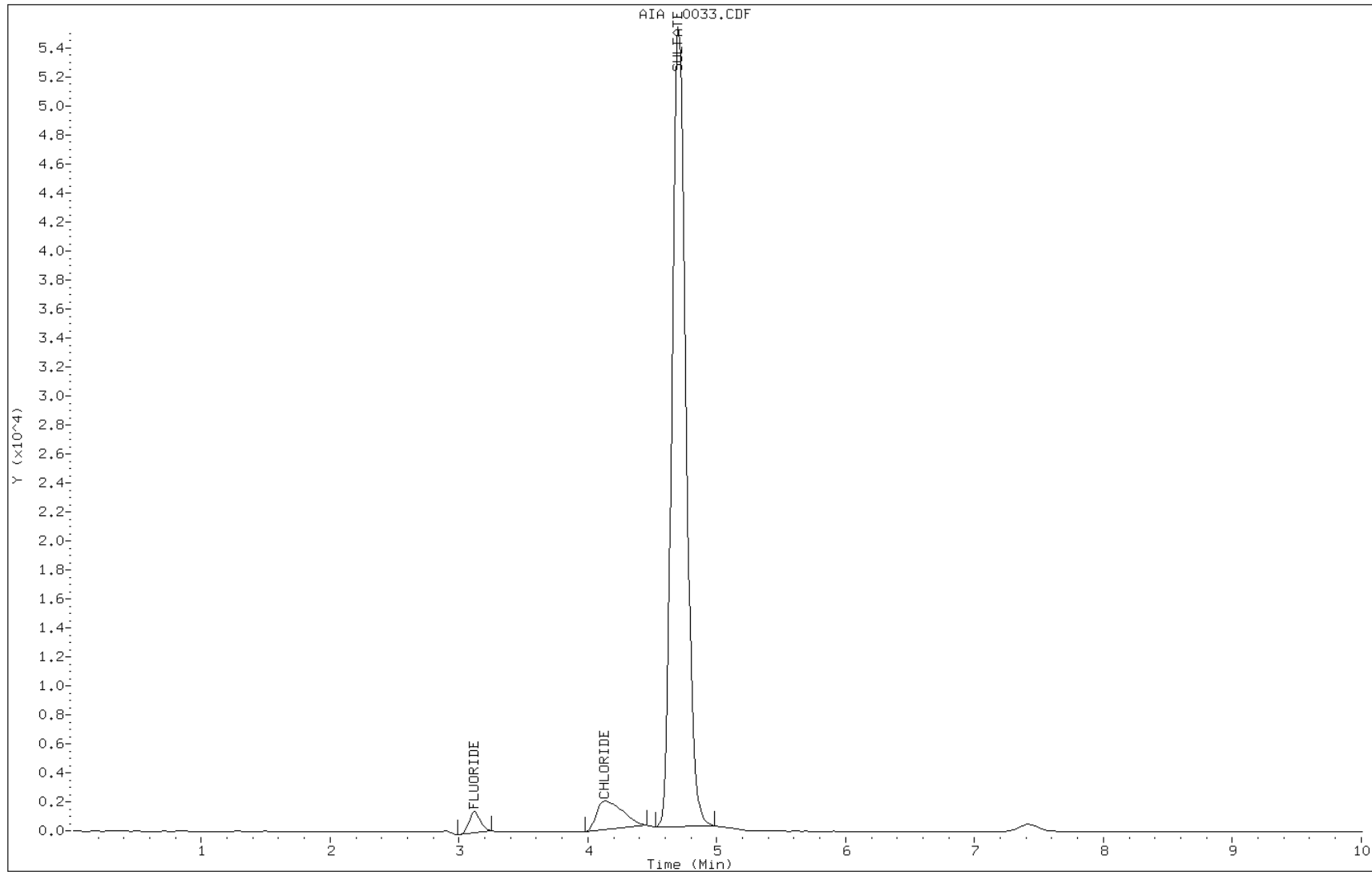
Date: 17-MAY-2013 22:28

Client ID: 25LM20105

Instrument: LCLIC.i

Sample Info: 680-90122-B-6~1L051713

Operator: PT



Manual Integration Report

Data File: 0033.d
Inj. Date and Time: 17-MAY-2013 22:28
Instrument ID: LCLIC.i
Client ID: 25LM20105
Compound: 2 CHLORIDE
CAS #: 16887-00-6
Report Date: 05/18/2013

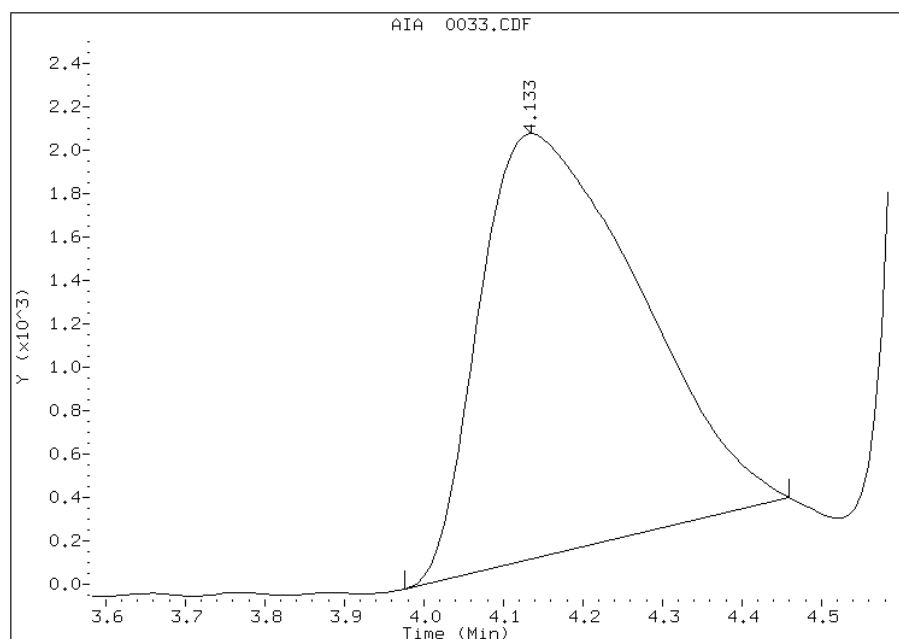
Processing Integration Results

Not Detected

Expected RT: 4.08

Manual Integration Results

RT: 4.13
Response: 27167
Amount: 0.13
Conc: 0.67



Manually Integrated By: tankersp
Manual Integration Reason: Baseline Event

TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0034.d
Lab Smp Id: 680-90122-B-6 DU Client Smp ID: 680-90122-B-6 DU
Inj Date : 17-MAY-2013 22:41
Operator : PT Inst ID: LCLIC.i
Smp Info : 680-90122-B-6 DU~1L051713
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL		
==	=====	=====	RESPONSE (mg/L)	(mg/l)		
1	FLUORIDE				CAS #: 16984-48-8	
3.117	3.117	0.000	8626 0.02577	0.13		(a)
2	CHLORIDE				CAS #: 16887-00-6	
4.125	4.092	0.033	24990 0.12258	0.61		(a)
3	SULFATE				CAS #: 14808-79-8	
4.700	4.700	0.000	412598 2.69628	13		

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: 0034.d

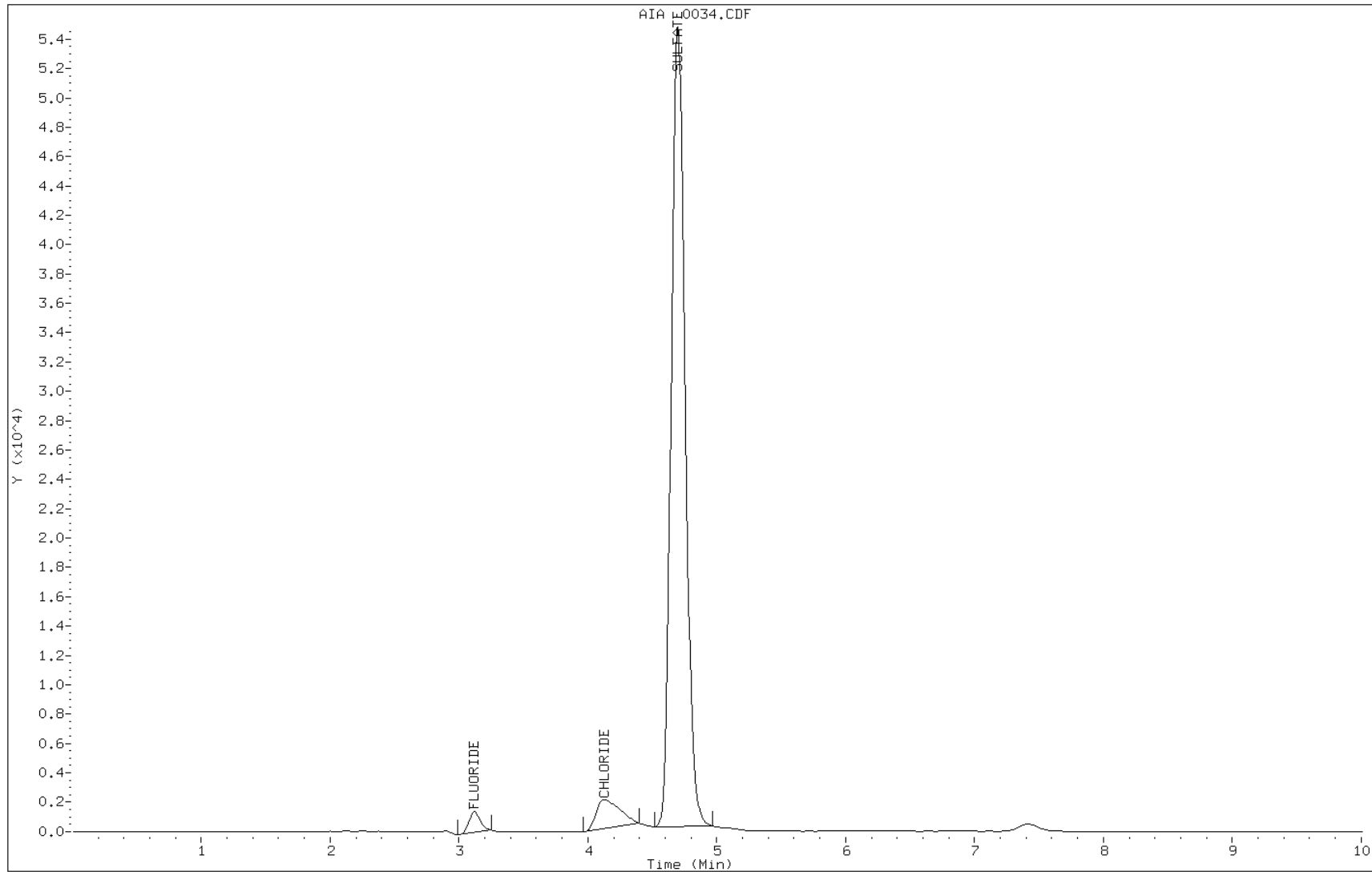
Date: 17-MAY-2013 22:41

Client ID: 680-90122-B-6 DU

Instrument: LCLIC.i

Sample Info: 680-90122-B-6 DU~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0038.d
Lab Smp Id: IC_ANION-5 Client Smp ID: IC_ANION-5
Inj Date : 17-MAY-2013 23:30
Operator : PT Inst ID: LCLIC.i
Smp Info : IC_ANION-5~1L051713
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (mg/L)	(mg/L)
==	=====	=====	=====	=====	=====	=====
1	FLUORIDE				CAS #: 16984-48-8	
3.117	3.117	0.000	338088	1.00000	1.0	

4	BROMIDE				CAS #: 24959-67-9	
6.325	6.325	0.000	839582	10.0000	9.7	

2	CHLORIDE				CAS #: 16887-00-6	
4.083	4.083	0.000	2031845	10.0000	10	

3	SULFATE				CAS #: 14808-79-8	
4.692	4.692	0.000	1535342	10.0000	10	

Data File: 0038.d

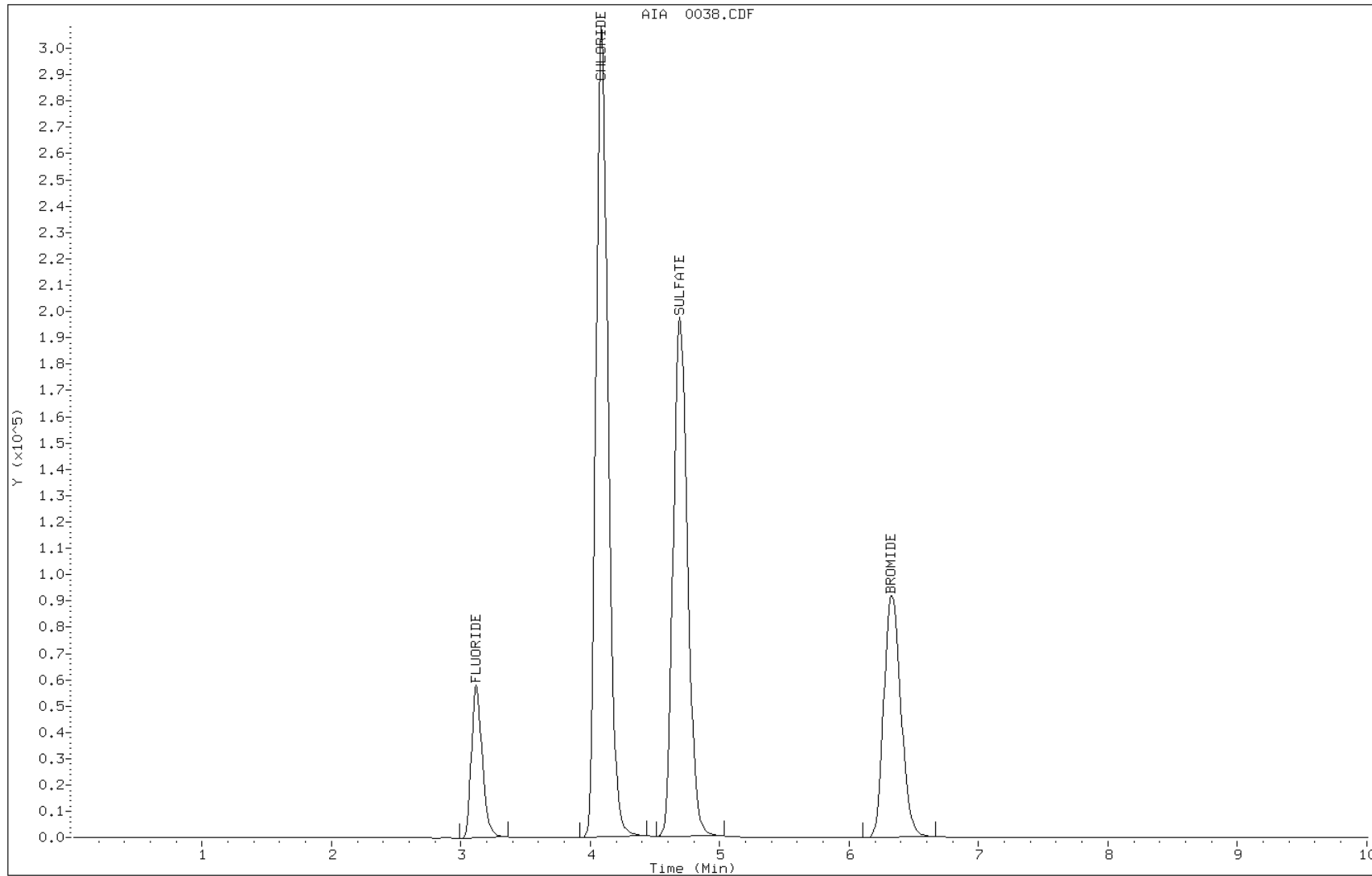
Date: 17-MAY-2013 23:30

Client ID: IC_ANION-5

Instrument: LCLIC.i

Sample Info: IC_ANION-5~1L051713

Operator: PT



TESTAMERICA SAVANNAH

ANION 300.0/9056

Data file : /chem/LC/LCLIC.i/1L051713A-NPW.b/0039.d
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 17-MAY-2013 23:43
Operator : PT Inst ID: LCLIC.i
Smp Info : CCB~1L051713
Misc Info : None
Comment :
Method : /chem/LC/LCLIC.i/1L051713A-NPW.b/1-A-300-9056A.m
Meth Date : 18-May-2013 12:52 tankersp Quant Type: ESTD
Cal Date : 14-MAY-2013 16:25 Cal File: 0010.d
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Anion.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: savchem1

Concentration Formula: Amt * DF * E*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
E	1.00000	ug to mg conversion (1 if no conversion)
Vt	5.00000	Final Volume
Vo	1.00000	Sample Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS				
		ON-COL	FINAL	
RT	EXP RT	DLT RT	RESPONSE (mg/L)	(mg/l)
==	=====	=====	=====	=====

Data File: 0039.d

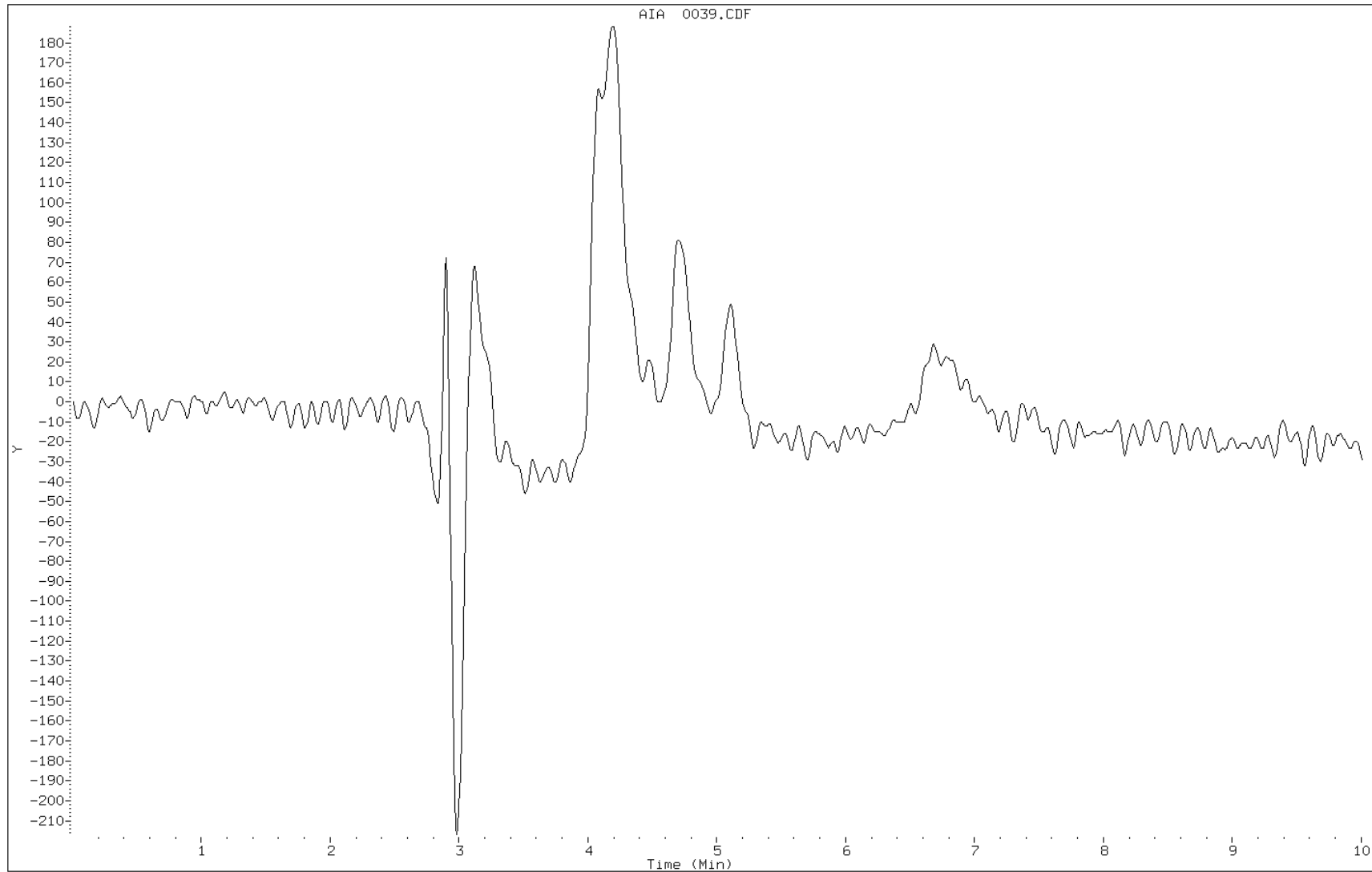
Date: 17-MAY-2013 23:43

Client ID: CCB

Instrument: LCLIC.i

Sample Info: CCB~1L051713

Operator: PT



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Batch Number: 276215 Batch Start Date: 05/09/13 15:29 Batch Analyst: West, Ryan

Batch Method: 353.2 Batch End Date: 05/09/13 16:51

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	NO3+NO2 ICV 00037	NO3+NO2 Stock 00036	NO3/NO2 LCS 00044	
ICV 680-276215/7		353.2		2 mL	2 mL	2 mL			
ICB 680-276215/8		353.2		2 mL	2 mL				
CCV 680-276215/11		353.2		2 mL	2 mL			2 mL	
CCB 680-276215/12		353.2		2 mL	2 mL				
MB 680-276215/13		353.2		2 mL	2 mL				
LCS 680-276215/14		353.2		2 mL	2 mL			2 mL	
680-90122-A-3	25LM20101	353.2	T	2 mL	2 mL				
680-90122-B-3	25LM20101	353.2	T	25 mL	25 mL		0.25 mL		
MS 680-90122-A-3	25LM20101	353.2	T	25 mL	25 mL		0.25 mL		
MSD 680-90122-B-1	25LM20098	353.2	T	2 mL	2 mL				
680-90122-B-2	25LM20099	353.2	T	2 mL	2 mL				
680-90122-B-4	25LM20102	353.2	T	2 mL	2 mL				
CCV 680-276215/22		353.2		2 mL	2 mL			2 mL	
CCB 680-276215/23		353.2		2 mL	2 mL				
680-90140-E-2		353.2	T	2 mL	2 mL				
DU CCV 680-276215/33		353.2		2 mL	2 mL			2 mL	
CCB 680-276215/34		353.2		2 mL	2 mL				

Batch Notes	
Buffer Lot #	no3 buffer 00169
Color Reagent Lot #	no2 color 00108
First End time	05/09/13 16:51
Pipette ID	GE8
First Start time	05/09/13 15:29

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.: 680-90122-1

SDG No.: _____

Batch Number: 276215 Batch Start Date: 05/09/13 15:29 Batch Analyst: West, Ryan

Batch Method: 353.2 Batch End Date: 05/09/13 16:51

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Batch Number: 274796 Batch Start Date: 04/26/13 15:51 Batch Analyst: Thornton, Polly A

Batch Method: 300.0 Batch End Date: 04/26/13 19:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Anion-1 00097	Anion-2 00075	Anion-3 00070	Anion-4 00143
IC 680-274796/1		300.0		1 mL	5 mL	5 mL			
IC 680-274796/2		300.0		1 mL	5 mL		5 mL		
IC 680-274796/3		300.0		1 mL	5 mL			5 mL	
IC 680-274796/4		300.0		1 mL	5 mL				5 mL
IC 680-274796/5		300.0		1 mL	5 mL				
IC 680-274796/6		300.0		1 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	Anion-5 00074	Anion-6 00070				
IC 680-274796/1		300.0							
IC 680-274796/2		300.0							
IC 680-274796/3		300.0							
IC 680-274796/4		300.0							
IC 680-274796/5		300.0		5 mL					
IC 680-274796/6		300.0			5 mL				

Batch Notes	
Batch Comment	SAMPLES RAN W/O DIL
Eluent 1 Lot	IC_ELUGEN_00015
Filter Lot #	IC_5MLCAP_00142

Basis	Basis Description

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Batch Number: 276755 Batch Start Date: 05/14/13 15:11 Batch Analyst: Brazell, Connie

Batch Method: 300.0 Batch End Date: 05/14/13 22:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC_Anion-1 00002	IC_Anion-2 00002	IC_Anion-3 00002	IC_Anion-4 00002
IC 680-276755/1		300.0		1 mL	5 mL	5 mL			
IC 680-276755/2		300.0		1 mL	5 mL		5 mL		
IC 680-276755/3		300.0		1 mL	5 mL			5 mL	
IC 680-276755/4		300.0		1 mL	5 mL				5 mL
IC 680-276755/5		300.0		1 mL	5 mL				
IC 680-276755/6		300.0		1 mL	5 mL				
IC 680-276755/7		300.0		1 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	IC_Anion-5 00003	IC_Anion-6 00002	IC_Anion-7 00002			
IC 680-276755/1		300.0							
IC 680-276755/2		300.0							
IC 680-276755/3		300.0							
IC 680-276755/4		300.0							
IC 680-276755/5		300.0		5 mL					
IC 680-276755/6		300.0			5 mL				
IC 680-276755/7		300.0				5 mL			

Batch Notes	
Batch Comment	D-276757
Eluent 1 Lot	IC_ELUGEN_00016
Filter Lot #	IC_5MLCAP_00170

Basis	Basis Description

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Batch Number: 277184 Batch Start Date: 05/17/13 11:58 Batch Analyst: Thornton, Polly A

Batch Method: 300.0 Batch End Date: 05/17/13 23:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	All Anions 00046	IC_Anion-5 00003	IC_Anion-ICV 00003	
CCV 680-277184/1		300.0		1 mL	5 mL		5 mL		
MB 680-277184/2		300.0		1 mL	5 mL				
LCS 680-277184/3		300.0		1 mL	5 mL			5 mL	
LCSD 680-277184/4		300.0		1 mL	5 mL			5 mL	
680-89899-I-2 MS		300.0	T	1 mL	5 mL	50 uL			
680-89899-I-2 MSD		300.0	T	1 mL	5 mL	50 uL			
CCV 680-277184/15		300.0		1 mL	5 mL		5 mL		
CCB 680-277184/16		300.0		1 mL	5 mL				
680-90122-B-1	25LM20098	300.0	T	1 mL	5 mL				
680-90122-B-2	25LM20099	300.0	T	1 mL	5 mL				
680-90122-A-3	25LM20101	300.0	T	1 mL	5 mL				
680-90122-B-3 MS	25LM20101	300.0	T	1 mL	5 mL	50 uL			
680-90122-A-3 MSD	25LM20101	300.0	T	1 mL	5 mL	50 uL			
CCV 680-277184/27		300.0		1 mL	5 mL		5 mL		
CCB 680-277184/28		300.0		1 mL	5 mL				
680-90122-B-4	25LM20102	300.0	T	1 mL	5 mL				
680-90122-B-6	25LM20105	300.0	T	1 mL	5 mL				
680-90122-B-6 DU	25LM20105	300.0	T	1 mL	5 mL				
CCV 680-277184/35		300.0		1 mL	5 mL		5 mL		
CCB 680-277184/36		300.0		1 mL	5 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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Batch Number: 277184 Batch Start Date: 05/17/13 11:58 Batch Analyst: Thornton, Polly A

Batch Method: 300.0 Batch End Date: 05/17/13 23:43

Batch Notes	
Batch Comment	NONE
Eluent 1 Lot	IC_ELUGEN_00015
Filter Lot #	IC_5MLCAP_00170

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90122-1

SDG No.: _____

Batch Number: 277433 Batch Start Date: 05/20/13 16:00 Batch Analyst: Thornton, Polly A

Batch Method: 300.0 Batch End Date: 05/20/13 21:47

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	All Anions 00046	Anion-4 00147	Anion_ICV 00119	
CCV 680-277433/1		300.0		1 mL	5 mL		5 mL		
MB 680-277433/2		300.0		1 mL	5 mL				
LCS 680-277433/3		300.0		1 mL	5 mL			5 mL	
LCSD 680-277433/4		300.0		1 mL	5 mL			5 mL	
680-90122-A-3	25LM20101	300.0	T	1 mL	5 mL				
680-90122-B-3 MS	25LM20101	300.0	T	1 mL	5 mL	50 uL			
680-90122-A-3 MSD	25LM20101	300.0	T	1 mL	5 mL	50 uL			
CCV 680-277433/8		300.0		1 mL	5 mL		5 mL		
CCB 680-277433/9		300.0		1 mL	5 mL				
CCV 680-277433/20		300.0		1 mL	5 mL		5 mL		
CCB 680-277433/21		300.0		1 mL	5 mL				

Batch Notes	
Batch Comment	NONE
Eluent 1 Lot	IC_ELUGEN_00015
Filter Lot #	IC_5MLCAP_00170

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.

300.0

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

TestAmerica
5102 LaRoche Avenue
Savannah, GA 31404
Ph: 912-354-7858
Fax:
Website: www.sti-inc.com

Serial or COC #: 08-05-13-1
STL JOB/LOG #:
Possible Hazards: Unknown
Sample Disposal: Lab Disposal

Page 1 of 1

PROJECT & CLIENT INFORMATION

PROJECT REFERENCE NAME: SEAD-25 Long-Term Monitoring
LAB PROJECT MANAGER: Linda Wolfe

PROJECT NO.: 748662-02000
P.O. NUMBER: 748662-02000
CONTRACT/ORDER NO.: 748662-02000

CLIENT(S) PM: Chris Gill/Brendan Baranek-Olmstead
CLIENT PHONE: 617-285-8821 (BBO cell) 617-946-9777
CLIENT FAX: 617-946-9777
CLIENT EMAIL: Brendan.Baranek-Olmstead@parisons.com
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				NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1	REMARKS
							SW 8260B - VOC	353.2 Nitrite and Nitrate (as separate analytes)	300.1 Sulfate and Chloride (as separate analytes)	RSK-175 - MEE		
5/8/2013	1022	25LM20098		N GW			1 (see note 6)	1	2	1		
5/8/2013	1250	25LM20099		N GW			1 (see note 6)	1	2	1		
5/8/2013	1530	25LM20101 *		N GW			1 (see note 6)	1	2	1		
5/8/2013	1530	25LM20101MS		N GW			1 (see note 6)	1	2	1		
5/8/2013	1530	25LM20101MSD *		N GW			1 (see note 6)	1	2	1		
5/8/2013	1530	25LM20102		N GW			1 (see note 6)	1	2	1		
5/8/2013	1715	25LM00022		N GW								
5/7/2013	1326	25LM20105		N GW						1		
Parents MSD for 25LM20101 & 25LM20102 recorded on 5/10/13												
Please use sample (25LM20101) and its associated MS/MSD for QA/QC analyses.												
REINQUISHED BY: (SIGNATURE)	DATE	TIME	REINQUISHED BY: (SIGNATURE)	DATE	TIME	REINQUISHED BY: (SIGNATURE)	DATE	TIME	REINQUISHED BY: (SIGNATURE)	DATE	TIME	REINQUISHED BY: (SIGNATURE)
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)

RECEIVED FOR LABORATORY BY: (SIGNATURE) DATE: 5/8/13 TIME: 0820 CUSTODY INTACT: YES NO: 8

LABORATORY SEAL NO.: LABORATORY REMARKS: 2.6° 680-90122

Original Return to Laboratory with Sample(s)

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: 680-90184-1
Client Project/Site: Seneca Army Depot - LTM Monitoring
Revision: 1

For:
Parsons Corporation
100 High Street
4th Floor
Boston, Massachusetts 02110-1713

Attn: Cris Grill

Linda A. Wolfe

Authorized for release by:
6/17/2013 4:35:07 PM

Linda Wolfe, Project Manager I
linda.wolfe@testamericainc.com

LINKS

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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.

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Case Narrative

Client: Parsons Corporation
Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Job ID: 680-90184-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Parsons Corporation

Project: Seneca Army Depot - LTM Monitoring

Report Number: 680-90184-1 Rev 1

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

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

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

The report is revised to report result field as ND.

RECEIPT

The samples were received on 5/10/2013 8:48 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

Except:

Volume for metals analysis for this sample and the matrix spike duplicate are to be reported with the Matrix Spike received on 5/9/13, TestAmerica Report #680-90122. 25LM20101 (680-90184-2), 25LM20101 (680-90184-2 MSD)

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 25LM20097 (680-90184-1), 25LM00024 (680-90184-3) and 25LM00110 (680-90184-4) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/20/2013.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

DISSOLVED GASES

Samples 25LM20097 (680-90184-1) and 25LM00110 (680-90184-4) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 05/17/2013.

No difficulties were encountered during the dissolved gases analysis.

All quality control parameters were within the acceptance limits.

METALS (ICP)

Samples 25LM20097 (680-90184-1) and 25LM00110 (680-90184-4) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/16/2013 and analyzed on 05/21/2013.

No difficulties were encountered during the metals analysis.

Case Narrative

Client: Parsons Corporation
Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Job ID: 680-90184-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All quality control parameters were within the acceptance limits.

ANIONS BY IC

Samples 25LM20097 (680-90184-1) and 25LM00110 (680-90184-4) were analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were analyzed on 05/21/2013.

Samples 25LM20097 (680-90184-1)[5X] and 25LM00110 (680-90184-4)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Anions analysis.

All quality control parameters were within the acceptance limits.

NITRATE-NITRITE AS NITROGEN

Samples 25LM20097 (680-90184-1) and 25LM00110 (680-90184-4) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 05/10/2013.

Nitrate as N exceeded the RPD limit for the duplicate of sample 25LM20097DU (680-90184-1). Refer to the QC report for details.

No other difficulties were encountered during the nitrate-nitrite analysis.

All other quality control parameters were within the acceptance limits.

Sample Summary

Client: Parsons Corporation
Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90184-1	25LM20097	Water	05/09/13 11:09	05/10/13 08:48
680-90184-3	25LM00024	Water	05/09/13 12:00	05/10/13 08:48
680-90184-4	25LM00110	Water	05/09/13 08:30	05/10/13 08:48

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Method Summary

Client: Parsons Corporation
Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
300.0	Anions, Ion Chromatography	MCAWW	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: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

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.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
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: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Client Sample ID: 25LM20097

Lab Sample ID: 680-90184-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.82	J	1.0	0.25	ug/L	1		8260B	Total/NA
Methane	2.3		0.58	0.29	ug/L	1		RSK-175	Total/NA
Iron	2200		100	50	ug/L	1		6010C	Total/NA
Sodium	8900		1000	500	ug/L	1		6010C	Total/NA
Sulfate	100		5.0	2.6	mg/L	5		300.0	Total/NA
Nitrate as N	0.019	J	0.050	0.010	mg/L	1		353.2	Total/NA

Client Sample ID: 25LM00024

Lab Sample ID: 680-90184-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.83	J	1.0	0.33	ug/L	1		8260B	Total/NA

Client Sample ID: 25LM00110

Lab Sample ID: 680-90184-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.8	J	25	5.0	ug/L	1		8260B	Total/NA
Methane	0.64		0.58	0.29	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
 Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Client Sample ID: 25LM20097

Lab Sample ID: 680-90184-1

Date Collected: 05/09/13 11:09

Matrix: Water

Date Received: 05/10/13 08:48

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	0.50	ug/L			05/20/13 17:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.18	ug/L			05/20/13 17:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50	ug/L			05/20/13 17:03	1
1,1,2-Trichloroethane	ND		1.0	0.13	ug/L			05/20/13 17:03	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			05/20/13 17:03	1
1,1-Dichloroethene	ND		1.0	0.11	ug/L			05/20/13 17:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			05/20/13 17:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.44	ug/L			05/20/13 17:03	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			05/20/13 17:03	1
1,2-Dichlorobenzene	ND		1.0	0.21	ug/L			05/20/13 17:03	1
1,2-Dichloroethane	ND		1.0	0.10	ug/L			05/20/13 17:03	1
1,2-Dichloropropane	ND		1.0	0.13	ug/L			05/20/13 17:03	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			05/20/13 17:03	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			05/20/13 17:03	1
2-Butanone	ND		10	1.0	ug/L			05/20/13 17:03	1
2-Hexanone	ND		10	1.0	ug/L			05/20/13 17:03	1
4-Methyl-2-pentanone	ND		10	1.0	ug/L			05/20/13 17:03	1
Acetone	ND		25	5.0	ug/L			05/20/13 17:03	1
Benzene	0.82	J	1.0	0.25	ug/L			05/20/13 17:03	1
Bromodichloromethane	ND		1.0	0.25	ug/L			05/20/13 17:03	1
Bromoform	ND		1.0	0.50	ug/L			05/20/13 17:03	1
Bromomethane	ND		5.0	2.0	ug/L			05/20/13 17:03	1
Carbon disulfide	ND		2.0	0.60	ug/L			05/20/13 17:03	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			05/20/13 17:03	1
Chlorobenzene	ND		1.0	0.25	ug/L			05/20/13 17:03	1
Chloroethane	ND		5.0	2.0	ug/L			05/20/13 17:03	1
Chloroform	ND		1.0	0.14	ug/L			05/20/13 17:03	1
Chloromethane	ND		1.0	0.33	ug/L			05/20/13 17:03	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			05/20/13 17:03	1
cis-1,3-Dichloropropene	ND		1.0	0.11	ug/L			05/20/13 17:03	1
Cyclohexane	ND		1.0	0.25	ug/L			05/20/13 17:03	1
Dibromochloromethane	ND		1.0	0.10	ug/L			05/20/13 17:03	1
Dichlorodifluoromethane	ND		1.0	0.25	ug/L			05/20/13 17:03	1
Ethylbenzene	ND		1.0	0.11	ug/L			05/20/13 17:03	1
Isopropylbenzene	ND		1.0	0.10	ug/L			05/20/13 17:03	1
Methyl acetate	ND		1.0	0.19	ug/L			05/20/13 17:03	1
Methyl tert-butyl ether	ND		10	0.20	ug/L			05/20/13 17:03	1
Methylcyclohexane	ND		1.0	0.10	ug/L			05/20/13 17:03	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/20/13 17:03	1
Styrene	ND		1.0	0.11	ug/L			05/20/13 17:03	1
Tetrachloroethene	ND		1.0	0.15	ug/L			05/20/13 17:03	1
Toluene	ND		1.0	0.33	ug/L			05/20/13 17:03	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			05/20/13 17:03	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			05/20/13 17:03	1
Trichloroethene	ND		1.0	0.13	ug/L			05/20/13 17:03	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			05/20/13 17:03	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/20/13 17:03	1
Xylenes, Total	ND		2.0	0.20	ug/L			05/20/13 17:03	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Client Sample ID: 25LM20097

Lab Sample ID: 680-90184-1

Date Collected: 05/09/13 11:09

Matrix: Water

Date Received: 05/10/13 08:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		70 - 130		05/20/13 17:03	1
Dibromofluoromethane	100		70 - 130		05/20/13 17:03	1
Toluene-d8 (Surr)	97		70 - 130		05/20/13 17:03	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			05/17/13 17:03	1
Ethene	ND		1.0	0.50	ug/L			05/17/13 17:03	1
Methane	2.3		0.58	0.29	ug/L			05/17/13 17:03	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2200		100	50	ug/L		05/16/13 09:02	05/21/13 12:28	1
Sodium	8900		1000	500	ug/L		05/16/13 09:02	05/21/13 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	1.0	mg/L			05/21/13 02:08	5
Sulfate	100		5.0	2.6	mg/L			05/21/13 02:08	5
Nitrate as N	0.019	J	0.050	0.010	mg/L			05/10/13 16:18	1
Nitrite as N	ND		0.050	0.010	mg/L			05/10/13 16:18	1

Client Sample ID: 25LM00024

Lab Sample ID: 680-90184-3

Date Collected: 05/09/13 12:00

Matrix: Water

Date Received: 05/10/13 08:48

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	0.50	ug/L			05/20/13 14:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.18	ug/L			05/20/13 14:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50	ug/L			05/20/13 14:05	1
1,1,2-Trichloroethane	ND		1.0	0.13	ug/L			05/20/13 14:05	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			05/20/13 14:05	1
1,1-Dichloroethene	ND		1.0	0.11	ug/L			05/20/13 14:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			05/20/13 14:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.44	ug/L			05/20/13 14:05	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			05/20/13 14:05	1
1,2-Dichlorobenzene	ND		1.0	0.21	ug/L			05/20/13 14:05	1
1,2-Dichloroethane	ND		1.0	0.10	ug/L			05/20/13 14:05	1
1,2-Dichloropropane	ND		1.0	0.13	ug/L			05/20/13 14:05	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			05/20/13 14:05	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			05/20/13 14:05	1
2-Butanone	ND		10	1.0	ug/L			05/20/13 14:05	1
2-Hexanone	ND		10	1.0	ug/L			05/20/13 14:05	1
4-Methyl-2-pentanone	ND		10	1.0	ug/L			05/20/13 14:05	1
Acetone	ND		25	5.0	ug/L			05/20/13 14:05	1
Benzene	ND		1.0	0.25	ug/L			05/20/13 14:05	1
Bromodichloromethane	ND		1.0	0.25	ug/L			05/20/13 14:05	1
Bromoform	ND		1.0	0.50	ug/L			05/20/13 14:05	1
Bromomethane	ND		5.0	2.0	ug/L			05/20/13 14:05	1
Carbon disulfide	ND		2.0	0.60	ug/L			05/20/13 14:05	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
 Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Client Sample ID: 25LM00024

Lab Sample ID: 680-90184-3

Date Collected: 05/09/13 12:00

Matrix: Water

Date Received: 05/10/13 08:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.50	ug/L			05/20/13 14:05	1
Chlorobenzene	ND		1.0	0.25	ug/L			05/20/13 14:05	1
Chloroethane	ND		5.0	2.0	ug/L			05/20/13 14:05	1
Chloroform	ND		1.0	0.14	ug/L			05/20/13 14:05	1
Chloromethane	ND		1.0	0.33	ug/L			05/20/13 14:05	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			05/20/13 14:05	1
cis-1,3-Dichloropropene	ND		1.0	0.11	ug/L			05/20/13 14:05	1
Cyclohexane	ND		1.0	0.25	ug/L			05/20/13 14:05	1
Dibromochloromethane	ND		1.0	0.10	ug/L			05/20/13 14:05	1
Dichlorodifluoromethane	ND		1.0	0.25	ug/L			05/20/13 14:05	1
Ethylbenzene	ND		1.0	0.11	ug/L			05/20/13 14:05	1
Isopropylbenzene	ND		1.0	0.10	ug/L			05/20/13 14:05	1
Methyl acetate	ND		1.0	0.19	ug/L			05/20/13 14:05	1
Methyl tert-butyl ether	ND		10	0.20	ug/L			05/20/13 14:05	1
Methylcyclohexane	ND		1.0	0.10	ug/L			05/20/13 14:05	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/20/13 14:05	1
Styrene	ND		1.0	0.11	ug/L			05/20/13 14:05	1
Tetrachloroethene	ND		1.0	0.15	ug/L			05/20/13 14:05	1
Toluene	0.83	J	1.0	0.33	ug/L			05/20/13 14:05	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			05/20/13 14:05	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			05/20/13 14:05	1
Trichloroethene	ND		1.0	0.13	ug/L			05/20/13 14:05	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			05/20/13 14:05	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/20/13 14:05	1
Xylenes, Total	ND		2.0	0.20	ug/L			05/20/13 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		70 - 130		05/20/13 14:05	1
Dibromofluoromethane	98		70 - 130		05/20/13 14:05	1
Toluene-d8 (Surr)	95		70 - 130		05/20/13 14:05	1

Client Sample ID: 25LM00110

Lab Sample ID: 680-90184-4

Date Collected: 05/09/13 08:30

Matrix: Water

Date Received: 05/10/13 08:48

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	0.50	ug/L			05/20/13 17:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			05/20/13 17:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50	ug/L			05/20/13 17:32	1
1,1,2-Trichloroethane	ND		1.0	0.13	ug/L			05/20/13 17:32	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			05/20/13 17:32	1
1,1-Dichloroethene	ND		1.0	0.11	ug/L			05/20/13 17:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			05/20/13 17:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.44	ug/L			05/20/13 17:32	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			05/20/13 17:32	1
1,2-Dichlorobenzene	ND		1.0	0.21	ug/L			05/20/13 17:32	1
1,2-Dichloroethane	ND		1.0	0.10	ug/L			05/20/13 17:32	1
1,2-Dichloropropane	ND		1.0	0.13	ug/L			05/20/13 17:32	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			05/20/13 17:32	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
 Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Client Sample ID: 25LM00110

Lab Sample ID: 680-90184-4

Date Collected: 05/09/13 08:30

Matrix: Water

Date Received: 05/10/13 08:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			05/20/13 17:32	1
2-Butanone	ND		10	1.0	ug/L			05/20/13 17:32	1
2-Hexanone	ND		10	1.0	ug/L			05/20/13 17:32	1
4-Methyl-2-pentanone	ND		10	1.0	ug/L			05/20/13 17:32	1
Acetone	9.8	J	25	5.0	ug/L			05/20/13 17:32	1
Benzene	ND		1.0	0.25	ug/L			05/20/13 17:32	1
Bromodichloromethane	ND		1.0	0.25	ug/L			05/20/13 17:32	1
Bromoform	ND		1.0	0.50	ug/L			05/20/13 17:32	1
Bromomethane	ND		5.0	2.0	ug/L			05/20/13 17:32	1
Carbon disulfide	ND		2.0	0.60	ug/L			05/20/13 17:32	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			05/20/13 17:32	1
Chlorobenzene	ND		1.0	0.25	ug/L			05/20/13 17:32	1
Chloroethane	ND		5.0	2.0	ug/L			05/20/13 17:32	1
Chloroform	ND		1.0	0.14	ug/L			05/20/13 17:32	1
Chloromethane	ND		1.0	0.33	ug/L			05/20/13 17:32	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			05/20/13 17:32	1
cis-1,3-Dichloropropene	ND		1.0	0.11	ug/L			05/20/13 17:32	1
Cyclohexane	ND		1.0	0.25	ug/L			05/20/13 17:32	1
Dibromochloromethane	ND		1.0	0.10	ug/L			05/20/13 17:32	1
Dichlorodifluoromethane	ND		1.0	0.25	ug/L			05/20/13 17:32	1
Ethylbenzene	ND		1.0	0.11	ug/L			05/20/13 17:32	1
Isopropylbenzene	ND		1.0	0.10	ug/L			05/20/13 17:32	1
Methyl acetate	ND		1.0	0.19	ug/L			05/20/13 17:32	1
Methyl tert-butyl ether	ND		10	0.20	ug/L			05/20/13 17:32	1
Methylcyclohexane	ND		1.0	0.10	ug/L			05/20/13 17:32	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/20/13 17:32	1
Styrene	ND		1.0	0.11	ug/L			05/20/13 17:32	1
Tetrachloroethene	ND		1.0	0.15	ug/L			05/20/13 17:32	1
Toluene	ND		1.0	0.33	ug/L			05/20/13 17:32	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			05/20/13 17:32	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			05/20/13 17:32	1
Trichloroethene	ND		1.0	0.13	ug/L			05/20/13 17:32	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			05/20/13 17:32	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/20/13 17:32	1
Xylenes, Total	ND		2.0	0.20	ug/L			05/20/13 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		70 - 130					05/20/13 17:32	1
Dibromofluoromethane	97		70 - 130					05/20/13 17:32	1
Toluene-d8 (Surr)	96		70 - 130					05/20/13 17:32	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			05/17/13 17:15	1
Ethene	ND		1.0	0.50	ug/L			05/17/13 17:15	1
Methane	0.64		0.58	0.29	ug/L			05/17/13 17:15	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	50	ug/L		05/16/13 09:02	05/21/13 12:44	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
 Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Client Sample ID: 25LM00110

Lab Sample ID: 680-90184-4

Date Collected: 05/09/13 08:30

Matrix: Water

Date Received: 05/10/13 08:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1000	500	ug/L		05/16/13 09:02	05/21/13 12:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	1.0	mg/L			05/21/13 20:03	5
Sulfate	ND		5.0	2.6	mg/L			05/21/13 20:03	5
Nitrate as N	ND		0.050	0.010	mg/L			05/10/13 15:50	1
Nitrite as N	ND		0.050	0.010	mg/L			05/10/13 15:50	1



Surrogate Summary

Client: Parsons Corporation
Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	TOL
		(70-130)	(70-130)	(70-130)
680-90184-1	25LM20097	89	100	97
680-90184-3	25LM00024	89	98	95
680-90184-4	25LM00110	87	97	96
LCS 680-277297/4	Lab Control Sample	102	94	100
LCSD 680-277297/5	Lab Control Sample Dup	100	95	99
MB 680-277297/7	Method Blank	90	98	95

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Parsons Corporation
 Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

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

Lab Sample ID: MB 680-277297/7

Matrix: Water

Analysis Batch: 277297

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	0.50	ug/L			05/20/13 12:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.18	ug/L			05/20/13 12:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50	ug/L			05/20/13 12:36	1
1,1,2-Trichloroethane	ND		1.0	0.13	ug/L			05/20/13 12:36	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			05/20/13 12:36	1
1,1-Dichloroethene	ND		1.0	0.11	ug/L			05/20/13 12:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			05/20/13 12:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.44	ug/L			05/20/13 12:36	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			05/20/13 12:36	1
1,2-Dichlorobenzene	ND		1.0	0.21	ug/L			05/20/13 12:36	1
1,2-Dichloroethane	ND		1.0	0.10	ug/L			05/20/13 12:36	1
1,2-Dichloropropane	ND		1.0	0.13	ug/L			05/20/13 12:36	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			05/20/13 12:36	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			05/20/13 12:36	1
2-Butanone	ND		10	1.0	ug/L			05/20/13 12:36	1
2-Hexanone	ND		10	1.0	ug/L			05/20/13 12:36	1
4-Methyl-2-pentanone	ND		10	1.0	ug/L			05/20/13 12:36	1
Acetone	ND		25	5.0	ug/L			05/20/13 12:36	1
Benzene	ND		1.0	0.25	ug/L			05/20/13 12:36	1
Bromodichloromethane	ND		1.0	0.25	ug/L			05/20/13 12:36	1
Bromoform	ND		1.0	0.50	ug/L			05/20/13 12:36	1
Bromomethane	ND		5.0	2.0	ug/L			05/20/13 12:36	1
Carbon disulfide	ND		2.0	0.60	ug/L			05/20/13 12:36	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			05/20/13 12:36	1
Chlorobenzene	ND		1.0	0.25	ug/L			05/20/13 12:36	1
Chloroethane	ND		5.0	2.0	ug/L			05/20/13 12:36	1
Chloroform	ND		1.0	0.14	ug/L			05/20/13 12:36	1
Chloromethane	ND		1.0	0.33	ug/L			05/20/13 12:36	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			05/20/13 12:36	1
cis-1,3-Dichloropropene	ND		1.0	0.11	ug/L			05/20/13 12:36	1
Cyclohexane	ND		1.0	0.25	ug/L			05/20/13 12:36	1
Dibromochloromethane	ND		1.0	0.10	ug/L			05/20/13 12:36	1
Dichlorodifluoromethane	ND		1.0	0.25	ug/L			05/20/13 12:36	1
Ethylbenzene	ND		1.0	0.11	ug/L			05/20/13 12:36	1
Isopropylbenzene	ND		1.0	0.10	ug/L			05/20/13 12:36	1
Methyl acetate	ND		1.0	0.19	ug/L			05/20/13 12:36	1
Methyl tert-butyl ether	ND		10	0.20	ug/L			05/20/13 12:36	1
Methylcyclohexane	ND		1.0	0.10	ug/L			05/20/13 12:36	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/20/13 12:36	1
Styrene	ND		1.0	0.11	ug/L			05/20/13 12:36	1
Tetrachloroethene	ND		1.0	0.15	ug/L			05/20/13 12:36	1
Toluene	ND		1.0	0.33	ug/L			05/20/13 12:36	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			05/20/13 12:36	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			05/20/13 12:36	1
Trichloroethene	ND		1.0	0.13	ug/L			05/20/13 12:36	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			05/20/13 12:36	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/20/13 12:36	1
Xylenes, Total	ND		2.0	0.20	ug/L			05/20/13 12:36	1

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
 Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

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

Lab Sample ID: MB 680-277297/7

Matrix: Water

Analysis Batch: 277297

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	90		70 - 130		05/20/13 12:36	1
Dibromofluoromethane	98		70 - 130		05/20/13 12:36	1
Toluene-d8 (Surr)	95		70 - 130		05/20/13 12:36	1

Lab Sample ID: LCS 680-277297/4

Matrix: Water

Analysis Batch: 277297

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	45.4		ug/L		91	76 - 126
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/L		102	71 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.1		ug/L		94	72 - 139
1,1,2-Trichloroethane	50.0	50.7		ug/L		101	69 - 127
1,1-Dichloroethane	50.0	43.5		ug/L		87	69 - 132
1,1-Dichloroethene	50.0	46.5		ug/L		93	73 - 134
1,2,4-Trichlorobenzene	50.0	39.6		ug/L		79	67 - 134
1,2-Dibromo-3-Chloropropane	50.0	45.4		ug/L		91	57 - 126
1,2-Dibromoethane	50.0	49.3		ug/L		99	75 - 127
1,2-Dichlorobenzene	50.0	56.1		ug/L		112	77 - 124
1,2-Dichloroethane	50.0	49.8		ug/L		100	75 - 120
1,2-Dichloropropane	50.0	42.1		ug/L		84	71 - 126
1,3-Dichlorobenzene	50.0	49.0		ug/L		98	79 - 123
1,4-Dichlorobenzene	50.0	56.8		ug/L		114	76 - 124
2-Butanone	100	83.3		ug/L		83	55 - 142
2-Hexanone	100	92.1		ug/L		92	52 - 149
4-Methyl-2-pentanone	100	92.5		ug/L		93	51 - 143
Acetone	100	77.6		ug/L		78	39 - 162
Benzene	50.0	49.2		ug/L		98	74 - 123
Bromodichloromethane	50.0	44.8		ug/L		90	72 - 129
Bromoform	50.0	34.6		ug/L		69	60 - 134
Bromomethane	50.0	57.5		ug/L		115	10 - 171
Carbon disulfide	50.0	45.2		ug/L		90	63 - 142
Carbon tetrachloride	50.0	39.4		ug/L		79	70 - 131
Chlorobenzene	50.0	51.7		ug/L		103	79 - 120
Chloroethane	50.0	64.7		ug/L		129	47 - 148
Chloroform	50.0	46.1		ug/L		92	76 - 128
Chloromethane	50.0	52.2		ug/L		104	47 - 151
cis-1,2-Dichloroethene	50.0	45.8		ug/L		92	78 - 127
cis-1,3-Dichloropropene	50.0	40.8		ug/L		82	73 - 128
Cyclohexane	50.0	52.4		ug/L		105	68 - 137
Dibromochloromethane	50.0	40.9		ug/L		82	63 - 134
Dichlorodifluoromethane	50.0	49.0		ug/L		98	41 - 165
Ethylbenzene	50.0	52.2		ug/L		104	78 - 125
Isopropylbenzene	50.0	57.7		ug/L		115	72 - 129
Methyl acetate	50.0	36.0		ug/L		72	26 - 182
Methyl tert-butyl ether	100	90.1		ug/L		90	76 - 126
Methylcyclohexane	50.0	52.5		ug/L		105	72 - 133

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
 Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

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

Lab Sample ID: LCS 680-277297/4

Matrix: Water

Analysis Batch: 277297

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	48.1		ug/L		96	79 - 124
Styrene	50.0	55.0		ug/L		110	75 - 129
Tetrachloroethene	50.0	50.5		ug/L		101	77 - 128
Toluene	50.0	50.5		ug/L		101	77 - 125
trans-1,2-Dichloroethene	50.0	46.6		ug/L		93	78 - 130
trans-1,3-Dichloropropene	50.0	40.8		ug/L		82	72 - 127
Trichloroethene	50.0	46.4		ug/L		93	80 - 120
Trichlorofluoromethane	50.0	57.2		ug/L		114	66 - 144
Vinyl chloride	50.0	53.3		ug/L		107	58 - 141
Xylenes, Total	150	159		ug/L		106	80 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	94		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 680-277297/5

Matrix: Water

Analysis Batch: 277297

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	46.8		ug/L		94	76 - 126	3	30
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/L		102	71 - 127	0	30
1,1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.0		ug/L		94	72 - 139	0	30
1,1,2-Trichloroethane	50.0	48.3		ug/L		97	69 - 127	5	30
1,1-Dichloroethane	50.0	45.8		ug/L		92	69 - 132	5	30
1,1-Dichloroethene	50.0	47.1		ug/L		94	73 - 134	1	30
1,2,4-Trichlorobenzene	50.0	36.0		ug/L		72	67 - 134	9	30
1,2-Dibromo-3-Chloropropane	50.0	43.2		ug/L		86	57 - 126	5	50
1,2-Dibromoethane	50.0	49.3		ug/L		99	75 - 127	0	30
1,2-Dichlorobenzene	50.0	54.6		ug/L		109	77 - 124	3	30
1,2-Dichloroethane	50.0	51.4		ug/L		103	75 - 120	3	30
1,2-Dichloropropane	50.0	47.1		ug/L		94	71 - 126	11	30
1,3-Dichlorobenzene	50.0	48.1		ug/L		96	79 - 123	2	30
1,4-Dichlorobenzene	50.0	54.6		ug/L		109	76 - 124	4	30
2-Butanone	100	88.2		ug/L		88	55 - 142	6	30
2-Hexanone	100	97.6		ug/L		98	52 - 149	6	30
4-Methyl-2-pentanone	100	92.8		ug/L		93	51 - 143	0	30
Acetone	100	87.4		ug/L		87	39 - 162	12	50
Benzene	50.0	49.1		ug/L		98	74 - 123	0	30
Bromodichloromethane	50.0	45.1		ug/L		90	72 - 129	1	30
Bromoform	50.0	34.8		ug/L		70	60 - 134	1	30
Bromomethane	50.0	57.0		ug/L		114	10 - 171	1	50
Carbon disulfide	50.0	44.6		ug/L		89	63 - 142	1	30
Carbon tetrachloride	50.0	38.5		ug/L		77	70 - 131	2	30
Chlorobenzene	50.0	49.9		ug/L		100	79 - 120	4	30
Chloroethane	50.0	64.0		ug/L		128	47 - 148	1	40

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

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

Lab Sample ID: LCSD 680-277297/5

Matrix: Water

Analysis Batch: 277297

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Added	Result	Qualifier				Limits		
Chloroform	50.0	46.2		ug/L		92	76 - 128	0	30
Chloromethane	50.0	51.5		ug/L		103	47 - 151	1	30
cis-1,2-Dichloroethene	50.0	46.4		ug/L		93	78 - 127	1	30
cis-1,3-Dichloropropene	50.0	47.3		ug/L		95	73 - 128	15	30
Cyclohexane	50.0	47.4		ug/L		95	68 - 137	10	30
Dibromochloromethane	50.0	41.3		ug/L		83	63 - 134	1	50
Dichlorodifluoromethane	50.0	46.0		ug/L		92	41 - 165	6	50
Ethylbenzene	50.0	50.9		ug/L		102	78 - 125	3	30
Isopropylbenzene	50.0	52.5		ug/L		105	72 - 129	9	30
Methyl acetate	50.0	37.6		ug/L		75	26 - 182	4	30
Methyl tert-butyl ether	100	93.2		ug/L		93	76 - 126	3	30
Methylcyclohexane	50.0	48.8		ug/L		98	72 - 133	7	30
Methylene Chloride	50.0	45.9		ug/L		92	79 - 124	5	30
Styrene	50.0	54.1		ug/L		108	75 - 129	2	30
Tetrachloroethene	50.0	49.6		ug/L		99	77 - 128	2	30
Toluene	50.0	49.8		ug/L		100	77 - 125	1	30
trans-1,2-Dichloroethene	50.0	46.3		ug/L		93	78 - 130	1	30
trans-1,3-Dichloropropene	50.0	46.1		ug/L		92	72 - 127	12	50
Trichloroethene	50.0	48.0		ug/L		96	80 - 120	3	30
Trichlorofluoromethane	50.0	57.1		ug/L		114	66 - 144	0	30
Vinyl chloride	50.0	52.3		ug/L		105	58 - 141	2	30
Xylenes, Total	150	157		ug/L		104	80 - 124	2	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	95		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-277169/4

Matrix: Water

Analysis Batch: 277169

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			05/17/13 13:27	1
Ethene	ND		1.0	0.50	ug/L			05/17/13 13:27	1
Methane	ND		0.58	0.29	ug/L			05/17/13 13:27	1

Lab Sample ID: LCS 680-277169/2

Matrix: Water

Analysis Batch: 277169

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				Limits
Ethane	288	272		ug/L		94	75 - 125
Ethene	269	246		ug/L		91	75 - 125
Methane	154	142		ug/L		93	75 - 125

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
 Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 680-277169/3
 Matrix: Water
 Analysis Batch: 277169

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	265		ug/L		92	75 - 125	3	30
Ethene	269	239		ug/L		89	75 - 125	3	30
Methane	154	139		ug/L		90	75 - 125	3	30

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-276886/1-A
 Matrix: Water
 Analysis Batch: 277577

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 276886

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	50	ug/L		05/16/13 09:02	05/21/13 12:17	1
Sodium	ND		1000	500	ug/L		05/16/13 09:02	05/21/13 12:17	1

Lab Sample ID: LCS 680-276886/2-A
 Matrix: Water
 Analysis Batch: 277577

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 276886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	5000	4880		ug/L		98	75 - 125
Sodium	5000	4840		ug/L		97	75 - 125

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-277439/2
 Matrix: Water
 Analysis Batch: 277439

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	1.0	mg/L			05/20/13 21:47	5
Sulfate	ND		5.0	2.6	mg/L			05/20/13 21:47	5

Lab Sample ID: LCS 680-277439/3
 Matrix: Water
 Analysis Batch: 277439

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	47.6		mg/L		95	90 - 110
Sulfate	50.0	49.7		mg/L		99	90 - 110

Lab Sample ID: LCSD 680-277439/4
 Matrix: Water
 Analysis Batch: 277439

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	50.0	47.9		mg/L		96	90 - 110	0	30
Sulfate	50.0	49.9		mg/L		100	90 - 110	0	30

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
 Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-277620/2

Matrix: Water

Analysis Batch: 277620

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	1.0	mg/L			05/21/13 15:05	5
Sulfate	ND		5.0	2.6	mg/L			05/21/13 15:05	5

Lab Sample ID: LCS 680-277620/3

Matrix: Water

Analysis Batch: 277620

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	47.6		mg/L		95	90 - 110
Sulfate	50.0	48.7		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-277620/4

Matrix: Water

Analysis Batch: 277620

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	50.0	47.6		mg/L		95	90 - 110	0	30
Sulfate	50.0	48.8		mg/L		98	90 - 110	0	30

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-276372/13

Matrix: Water

Analysis Batch: 276372

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			05/10/13 15:48	1
Nitrite as N	ND		0.050	0.010	mg/L			05/10/13 15:48	1

Lab Sample ID: LCS 680-276372/14

Matrix: Water

Analysis Batch: 276372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.500	0.499		mg/L		100	90 - 110

Lab Sample ID: 680-90184-4 MS

Matrix: Water

Analysis Batch: 276372

Client Sample ID: 25LM00110

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	ND		0.500	0.503		mg/L		101	90 - 110

Lab Sample ID: 680-90184-4 MSD

Matrix: Water

Analysis Batch: 276372

Client Sample ID: 25LM00110

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	ND		0.500	0.503		mg/L		101	90 - 110	0	10

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 680-90184-1 DU

Matrix: Water

Analysis Batch: 276372

Client Sample ID: 25LM20097

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	0.019	J	0.0159	J	mg/L		20	10
Nitrite as N	ND		ND		mg/L		NC	10

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QC Association Summary

Client: Parsons Corporation
 Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

GC/MS VOA

Analysis Batch: 277297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90184-1	25LM20097	Total/NA	Water	8260B	
680-90184-3	25LM00024	Total/NA	Water	8260B	
680-90184-4	25LM00110	Total/NA	Water	8260B	
LCS 680-277297/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-277297/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-277297/7	Method Blank	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 277169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90184-1	25LM20097	Total/NA	Water	RSK-175	
680-90184-4	25LM00110	Total/NA	Water	RSK-175	
LCS 680-277169/2	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-277169/3	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 680-277169/4	Method Blank	Total/NA	Water	RSK-175	

Metals

Prep Batch: 276886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90184-1	25LM20097	Total/NA	Water	3010A	
680-90184-4	25LM00110	Total/NA	Water	3010A	
LCS 680-276886/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-276886/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 277577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90184-1	25LM20097	Total/NA	Water	6010C	276886
680-90184-4	25LM00110	Total/NA	Water	6010C	276886
LCS 680-276886/2-A	Lab Control Sample	Total/NA	Water	6010C	276886
MB 680-276886/1-A	Method Blank	Total/NA	Water	6010C	276886

General Chemistry

Analysis Batch: 276372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90184-1	25LM20097	Total/NA	Water	353.2	
680-90184-1 DU	25LM20097	Total/NA	Water	353.2	
680-90184-4	25LM00110	Total/NA	Water	353.2	
680-90184-4 MS	25LM00110	Total/NA	Water	353.2	
680-90184-4 MSD	25LM00110	Total/NA	Water	353.2	
LCS 680-276372/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-276372/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 277439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90184-1	25LM20097	Total/NA	Water	300.0	
LCS 680-277439/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-277439/4	Lab Control Sample Dup	Total/NA	Water	300.0	

TestAmerica Savannah

QC Association Summary

Client: Parsons Corporation
Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

General Chemistry (Continued)

Analysis Batch: 277439 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-277439/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 277620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90184-4	25LM00110	Total/NA	Water	300.0	
LCS 680-277620/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-277620/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-277620/2	Method Blank	Total/NA	Water	300.0	

Lab Chronicle

Client: Parsons Corporation
 Project/Site: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Client Sample ID: 25LM20097

Lab Sample ID: 680-90184-1

Date Collected: 05/09/13 11:09

Matrix: Water

Date Received: 05/10/13 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	277297	05/20/13 17:03	JD	TAL SAV
Total/NA	Analysis	RSK-175		1	277169	05/17/13 17:03	AGM	TAL SAV
Total/NA	Prep	3010A			276886	05/16/13 09:02	BB	TAL SAV
Total/NA	Analysis	6010C		1	277577	05/21/13 12:28	BCB	TAL SAV
Total/NA	Analysis	353.2		1	276372	05/10/13 16:18	RW	TAL SAV
Total/NA	Analysis	300.0		5	277439	05/21/13 02:08	PAT	TAL SAV

Client Sample ID: 25LM00024

Lab Sample ID: 680-90184-3

Date Collected: 05/09/13 12:00

Matrix: Water

Date Received: 05/10/13 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	277297	05/20/13 14:05	JD	TAL SAV

Client Sample ID: 25LM00110

Lab Sample ID: 680-90184-4

Date Collected: 05/09/13 08:30

Matrix: Water

Date Received: 05/10/13 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	277297	05/20/13 17:32	JD	TAL SAV
Total/NA	Analysis	RSK-175		1	277169	05/17/13 17:15	AGM	TAL SAV
Total/NA	Prep	3010A			276886	05/16/13 09:02	BB	TAL SAV
Total/NA	Analysis	6010C		1	277577	05/21/13 12:44	BCB	TAL SAV
Total/NA	Analysis	353.2		1	276372	05/10/13 15:50	RW	TAL SAV
Total/NA	Analysis	300.0		5	277620	05/21/13 20:03	PAT	TAL SAV

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.sti-inc.com

Serial or COC #: 09-05-13-1
STL JOB/LOG #:
Possible Hazards: Unknown
Sample Disposal: Lab Disposal

Project State: NY
Project No: 748662-02000
Contract/Quote No: 748662-02000

LAB PROJECT MANAGER: Linda Wolfe
CLIENT (SITE) PM: Chris Gill/Brendan Baranek-Olmstead
CLIENT NAME: Parsons
CLIENT ADDRESS: 100 High Street, 4th Floor, Boston, MA 02110
CLIENT PHONE: 617-285-6821 (BBO cell) / 617-946-9777
CLIENT EMAIL: Brendan.Baranek-Olmstead@parsons.com

SAMPLED ON DATE	TIME	SAMPLE IDENTIFICATION	LABORATORY SAMPLE ID		FIELD FILTERED	MATRIX	REQUIRED ANALYSES								REMARKS			
			SW 8260B - VOC	353.2 Nitrite and Nitrate (as separate analytes) See Note 5			300.1 Sulfate and Chloride (as separate analytes)	RSK-175 - MEE	SW 6010C - Iron / Sodium (separate analytes) See Note 6	NUMBER OF CONTAINERS SUBMITTED	NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1							
5/9/2013	1109	25LM20097			N	GW	3	1	2	1	8							
5/8/2013	1530	25LM20101 *			N	GW	3	1	2	1	8							
5/8/2013	1530	25LM20101MSD *			N	GW	3	1	2	1	8							
5/9/2013	1200	25LM00024			N	GW	1	1	2	1	8							
5/9/2013	830	25LM00110			N	GW	3	1	2	1	8							

LABORATORY USE ONLY

RECEIVED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME

RELINQUISHED BY: (SIGNATURE) DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME

RECEIVED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) DATE TIME CUSTODY SEAL NO. LABORATORY REMARKS: 680-90189 3.6

* Parents MSD volume for SD: 25LM20101 to be reported on Testament Job # 680-90189 with MS sample volume rec. on 5/9/13

Please use sample (25LM20101) and its associated MS/MSD for QA/QC analyses.

RECEIVED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME

RELINQUISHED BY: (SIGNATURE) DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME

RECEIVED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) DATE TIME CUSTODY SEAL NO. LABORATORY REMARKS: 680-90189 3.6

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 680-90184-1

Login Number: 90184

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

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	Refer to Job Narrative for details.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
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: Seneca Army Depot - LTM Monitoring

TestAmerica Job ID: 680-90184-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		399.01	07-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13 *
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13 *
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13 *
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13 *
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13 *
Washington	State Program	10	C1794	06-10-13 *
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

* Expired certification is currently pending renewal and is considered valid.

APPENDIX C

HISTORIC GROUNDWATER ELEVATIONS (EVENTS 1 THROUGH 10)

Appendix C
Historic Groundwater Elevations (Events 1 through 10)
2013 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. Groundwater levels were recorded in January 2006, April 2006, August 2006, June 2007, February 2008, April 2009, January 2010, August 2010, and February 2011.
2. The bedrock wells are not included as part of the LTM program and are not included in this table.
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 have been adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 10)
2013 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				Year 3, 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. Groundwater levels were recorded in January 2006, April 2006, August 2006, June 2007, February 2008, April 2009, January 2010, August 2010, and February 2011.
2. The bedrock wells are not included as part of the LTM program and are not included in this table.
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 have been adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 10)
2013 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				
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. Groundwater levels were recorded in January 2006, April 2006, August 2006, June 2007, February 2008, April 2009, January 2010, August 2010, and February 2011.
2. The bedrock wells are not included as part of the LTM program and are not included in this table.
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 have been adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 10)
2013 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				Historical Data ¹		
					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)	Groundwater Elevation (ft)		
													Maximum	Minimum	Range
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	737.35	736.41	0.94
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	741.61	738.54	3.07
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	741.26	737.58	3.68
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	740.19	735.89	4.30
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	740.66	737.30	3.36
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	740.58	737.35	3.23
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	739.83	736.92	2.91
MW25-11	740.25	7.00	740.25	7.00	(removed during Well Abandonment Fall 2010)							736.95	733.40	3.55	
MW25-13	739.64	5.53	739.64	5.53	2/27/12	4.13	5.46	5.48	5/6/13	0.30	5.18	734.46	736.20	734.54	1.66
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	737.89	734.10	3.79
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	740.69	736.49	4.20
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	744.20	737.13	7.07
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	738.30	732.92	5.38

Notes:

1. Groundwater levels were recorded in January 2006, April 2006, August 2006, June 2007, February 2008, April 2009, January 2010, August 2010, and February 2011.
2. The bedrock wells are not included as part of the LTM program and are not included in this table.
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 have been adjusted to reflect the change in well total depth.

GROUNDWATER ELEVATION REPORT

PARSONS				CLIENT:				DATE: 7/2/10					
PROJECT: SEAD-25 LTM								PROJECT NO:					
LOCATION:								INSPECTOR: BDO/JK					
MONITORING EQUIPMENT:					WATER LEVEL INDICATOR:			COMMENTS:					
INSTRUMENT	DIRECTION	BGD	TIME	REMARKS	INSTRUMENT	CORRECTION FACTOR:							
								Collected limited GW level ^{BDO} 7/2 levels to determine if GW sampling is possible in future.					
WELL	TIME	TOC WATER	DEPTH TO PRODUCT	CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC. GRAV.					WELL STATUS / COMMENTS	
MW25-11	1013	6.44											
MW25-13	1015	5.04											
MW25-2	1017	7.19										no well cap	
MW25-9	1018	4.95											
MW25-3	1019	7.94											
MW25-8	1021	5.02						well cap on the ground, ants in well					

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON REEF)

GROUNDWATER ELEVATION REPORT

PARSONS		CLIENT:				DATE: 8/2/10			
PROJECT: SEAD-25 LTM Round 7		LOCATION:				PROJECT NO:			
MONITORING EQUIPMENT:		WATER LEVEL INDICATOR:				INSPECTOR: EBO/SD			
INSTRUMENT	DETECTOR	BGD	TIME	REMARKS	INSTRUMENT	CORRECTION FACTOR		COMMENTS:	
WELL	TIME	DEPTH TO WATER	DEPTH TO PRODUCT	CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC	GRAV	WELL STATUS / COMMENTS
MW25-1	8:44	6.59							
MW25-11	8:47	6.67							
MW25-13	8:48	5.06							
MW25-15	8:50	6.90							
MW25-19	8:52	8.79							
MW25-6	8:54	8.51							
MW25-17	8:56	7.34							
MW25-18	8:57	7.12							
25-8	8:58	5.07							
25-9	9:00	4.98							
25-10	9:02	6.04							no well cap
25-3	9:03	7.58							
25-2	9:05	6.39							no well cap

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

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: <u>2/7/2011</u>				
PROJECT: <u>SEAD-25 LTM Round 8</u>						PROJECT NO:				
LOCATION: <u>Seneca Army Depot</u>						INSPECTOR: <u>BBO/SD</u>				
MONITORING EQUIPMENT:					WATER LEVEL INDICATOR:			COMMENTS: <u>~8 inches of snow over whole site</u>		
INSTRUMENT	DETECTOR	BGD	TIME	REMARKS	INSTRUMENT		CORRECTION FACTOR			
					<u>Pa # 14043</u>					
WELL	TIME	WELL WATER	DEPTH TO WELL PRODUCT	CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC GRAV	WELL STATUS / COMMENTS <small>(Leak?, Well #?, Surface Disturbance?, Riser marked?, Condition of riser, concrete, protective casing, etc.)</small>		
<u>25-1</u>	<u>1539</u>	<u>5.98</u>	<u>7.74</u>							
<u>25-13</u>	<u>1542</u>	<u>5.10</u>	<u>5.48</u>							
<u>25-15</u>	<u>1544</u>	<u>6.57</u>	<u>7.20</u>							
<u>25-9</u>	<u>1546</u>	<u>4.57</u>	<u>5.40</u>							
<u>25-19</u>	<u>1549</u>	<u>8.11</u>	<u>12.0</u>							
<u>25-8</u>	<u>1552</u>	<u>5.16</u>	<u>5.46</u>							
<u>25-6</u>	<u>1554</u>	<u>7.91</u>	<u>14.22</u>							
<u>25-17</u>	<u>1556</u>	<u>6.67</u>	<u>11.30'</u>							
<u>25-10</u>	<u>1558</u>	<u>6.09'</u>	<u>6.37'</u>							
<u>25-2</u>	<u>1600</u>	<u>6.81</u>	<u>11.28</u>					<u>no well cap</u>		
<u>25-3</u>	<u>1601</u>	<u>6.88</u>	<u>9.80</u>							
<u>25-18</u>	<u>1602</u>	<u>6.58</u>	<u>11.18</u>							

(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	DETECTOR	BGD	TIME	REMARKS	INSTRUMENT	CORRECTION FACTOR			
WELL	TIME	DEPTH TO WATER	WELL DEPTH CORRECTED PRODUCT 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>		
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)

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APPENDIX D

COMPLETE LTM GROUNDWATER ANALYTICAL DATA (EVENTS 1 THROUGH 10)

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2013 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	GA 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
									MW25-2 GROUNDWATER 25LM20000 4/12/2006 SA LTM 1	MW25-2 GROUNDWATER 25LM20010 8/9/2006 SA LTM 2	MW25-2 GROUNDWATER 25LM20014 8/9/2006 DU LTM 2	MW25-2 GROUNDWATER 25LM20020 6/6/2007 SA LTM 3	MW25-2 GROUNDWATER 25LM20031 3/4/2008 SA LTM 4	MW25-2 GROUNDWATER 25LM20042 4/29/2009 SA LTM 5	MW25-2 GROUNDWATER 25LM20048 4/29/2009 DU LTM 5	MW25-2 GROUNDWATER 25LM20053 1/11/2010 SA LTM 6	MW25-2 GROUNDWATER 25LM20054 1/11/2010 DU LTM 6	MW25-2 GROUNDWATER 25LM20064 8/3/2010 SA LTM 7	
Parameter	Unit	Value	of Detection	Source	Level	Exceedances	Detected	Analyzed	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	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	49 U	48 U	49 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	49 U	48 U	49 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	20 U	19 U	20 U								
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	49 U	48 U	49 U								
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18	49 U	48 U	49 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	49 U	48 U	49 U								
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	49 U	48 U	49 U								
Acenaphthene	UG/L	0.5	6%				1	18	10 U	10 U	10 U								
Acenaphthylene	UG/L	2	22%				4	18	10 U	10 U	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	49 U	48 U	49 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	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 U	10 U	10 U								
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	44 U	43 U	44 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	49 U	48 U	49 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								

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SEAD-25 Historic Groundwater Analytical Results
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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	SEAD-25	
Loc ID	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	
Matrix	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	
Sample ID	25LM20000	25LM20010	25LM20014	25LM20020	25LM20031	25LM20042	25LM20048	25LM20053	25LM20054	25LM20064								
Sample Date	4/12/2006	8/9/2006	8/9/2006	6/6/2007	3/4/2008	4/29/2009	4/29/2009	1/11/2010	1/11/2010	8/3/2010								
QC Type	SA	SA	DU	SA	SA	SA	DU	SA	DU	SA								
Study ID	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM								
Sample Round	1	2	2	3	4	5	5	6	6	7								
Filtered																		
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA 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	89%	GA	300	51	75	84	2,510	J	606		727		2,600	J	711	
Sodium	UG/L	58,100	100%	GA	20,000	14	84	84	4,730		5,690	J	5,510	J	6,000	J	3,460	
Wet Chemistry																		
Chloride	MG/L	97.9	74%	GA	250	0	63	85	6.5		2.2	J	2.2	J	4		0.2	U
Ethane	UG/L	1.1	6%				5	88	2	U	10	U	10	U	0.24		1	U
Ethene	UG/L	4.6	6%				5	88	2	U	10	U	10	U	4.2		1	U
Methane	UG/L	170	51%				45	88	80	J	36		35		170		3.2	J
Nitrate	MG/L	6.4	59%	GA	10	0	30	51							0.5	J	0.05	U
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	
Nitrite	MG/L	0.73	31%	GA	1	0	16	51							0.5		0.01	U
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	85	85	39.6		33.2		31		22		31.1	

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

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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	
Loc ID	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3	
Matrix	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	
Sample ID	25LM20071	25LM20079	25LM20080	25LM20091	25LM20101	25LM20102	25LM20001	25LM20002	25LM20011	25LM20036						
Sample Date	8/3/2010	2/8/2011	2/8/2011	3/1/2012	5/8/2013	5/8/2013	1/31/2006	1/31/2006	8/11/2006	3/4/2008						
QC Type	DU	SA	DU	SA	SA	DU	DU	SA	SA	SA						
Study ID	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM						
Sample Round	7	8	8	9	10	10	1	1	2	4						
Filtered																
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	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%				0	18					9 U	10 U	10 U	
2,4-Dinitrophenol	UG/L	0	0%				0	18					47 U	48 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%				0	18					9 U	10 U	10 U	
2-Chlorophenol	UG/L	0	0%				0	18					9 U	10 U	10 U	
2-Methylnaphthalene	UG/L	0	0%				0	18					9 U	10 U	10 U	
2-Methylphenol	UG/L	0	0%				0	18					9 U	10 U	10 U	
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					47 U	48 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	19 U	19 U	
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					47 U	48 U	48 U	
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18					47 U	48 U	48 U	
4-Bromophenyl phenyl ether	UG/L	0	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%				0	18					9 U	10 U	10 U	
4-Methylphenol	UG/L	0	0%				0	18					9 U	10 U	10 U	
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					47 U	48 U	48 U	
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18					47 UJ	48 UJ	48 U	
Acenaphthene	UG/L	0.5	6%				1	18					9 U	10 U	10 U	
Acenaphthylene	UG/L	2	22%				4	18					9 U	10 U	10 U	
Acetophenone	UG/L	0	0%				0	18					9 U	10 U	10 U	
Anthracene	UG/L	1	6%				1	18					9 U	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%				0	18					47 U	48 U	48 U	
Benzo(a)anthracene	UG/L	0	0%				0	18					9 U	10 U	10 U	
Benzo(a)pyrene	UG/L	0	0%	GA	0		0	18					9 U	10 U	10 U	
Benzo(b)fluoranthene	UG/L	0	0%				0	18					9 U	10 U	10 U	
Benzo(ghi)perylene	UG/L	0.6	6%				1	18					9 U	10 U	10 U	
Benzo(k)fluoranthene	UG/L	0	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%				0	18					9 U	10 U	10 U	
Carbazole	UG/L	0	0%				0	18					9 U	10 U	10 U	
Chrysene	UG/L	0	0%				0	18					9 U	10 U	10 U	
Dibenz(a,h)anthracene	UG/L	0	0%				0	18					9 U	10 U	10 U	
Dibenzofuran	UG/L	0	0%				0	18					9 U	10 U	10 U	
Diethyl phthalate	UG/L	0	0%				0	18					9 U	10 U	10 U	
Dimethylphthalate	UG/L	0	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%				0	18					9 U	10 U	10 U	
Fluoranthene	UG/L	0	0%				0	18					9 U	10 U	10 U	
Fluorene	UG/L	0	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%				0	18					9 U	10 U	10 U	
Isophorone	UG/L	0	0%				0	18					9 U	10 U	10 U	
Naphthalene	UG/L	2	6%				1	18					9 U	10 U	10 U	
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%				0	18					9 U	10 U	10 U	
N-Nitrosodiphenylamine	UG/L	0	0%				0	18					9 U	10 U	10 U	
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18					47 U	48 U	48 U	
Phenanthrene	UG/L	0	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%				0	18					9 U	10 U	10 U	

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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	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-2	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3		
Matrix	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER		
Sample ID	25LM20071	25LM20079	25LM20080	25LM20091	25LM20101	25LM20102	25LM20001	25LM20002	25LM20011	25LM20036								
Sample Date	8/3/2010	2/8/2011	2/8/2011	3/1/2012	5/8/2013	5/8/2013	1/31/2006	1/31/2006	8/11/2006	3/4/2008								
QC Type	DU	SA	DU	SA	SA	DU	DU	SA	SA	SA								
Study ID	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM								
Sample Round	7	8	8	9	10	10	1	1	2	4								
Filtered																		
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA 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		
Inorganics																		
Iron	UG/L	15,700	89%	GA	300	51	75	84		13,100		3,780 J	6,500 J	11,000 J	86 J	76.4 J	3,820	107
Sodium	UG/L	58,100	100%	GA	20,000	14	84	84		10,200		9,320 J	16,000 J	10,000 J	12,300	12,000	11,300 J	5,540
Wet Chemistry																		
Chloride	MG/L	97.9	74%	GA	250	0	63	85	2.8	5.8		0.9 J	1.8 J	1.7 J	2.1	2.3	1.5 J	2.66
Ethane	UG/L	1.1	6%				5	88	0.16 U	0.58 U	0.58 U	0.58 U	4 U	4 U	2 U	2 U	2 U	1 U
Ethene	UG/L	4.6	6%				5	88	0.17 U	0.69 U	0.69 U	0.69 U	3 U	3 U	2 U	2 U	2 U	1 U
Methane	UG/L	170	51%				45	88	130	32	59	31 J	22	25	2 U	2 U	2 U	0.34 J
Nitrate	MG/L	6.4	59%	GA	10	0	30	51		0.0152 U		0.0152 U	0.01 U	0.027 J				
Nitrate Nitrogen	MG/L	1	45%				13	29							0.05 U	0.05 U	0.05 U	0.098 J
Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25	0.013 UJ									0.098
Nitrite	MG/L	0.73	31%	GA	1	0	16	51		0.00321 U		0.036 J	0.01 U	0.01 U				
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	85	85	45.3	45 J		52 J	160 J	150 J	39.9	39.8	44.9	100

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
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Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	SEAD-25								SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
	Maximum Value	Frequency of Detection	Criteria Source	GA Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds																				
1,1,1-Trichloroethane	0.62	2%	GA	5	0	2	91	1 U	0.32 U	1.6 U	0.2 UJ	0.2 U	0.2 U	0.5 U	1 U	1 U	1 U	1 U	1 U	
1,1,2,2-Tetrachloroethane	0	0%	GA	5	0	0	91	1 U	0.09 U	0.45 U	0.38 UJ	0.38 U	0.38 U	0.18 U	1 U	1 U	1 U	1 U	1 U	
1,1,2-Trichloro-1,2,2-Trifluoroethane	0	0%	GA	5	0	0	86	1 U	0.4 U	2 U	0.31 U	0.31 UJ	0.31 UJ	0.5 U	1 U	1 U	1 U	1 U	1 U	
1,1,2-Trichloroethane	0	0%	GA	1	0	0	91	1 U	0.2 U	1 U	0.33 UJ	0.33 U	0.33 U	0.13 U	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethane	3.5	10%	GA	5	0	9	91	1 U	0.14 U	0.71 U	0.21 UJ	0.21 U	0.21 U	0.25 U	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethene	0	0%	GA	5	0	0	91	1 U	0.37 U	1.9 U	0.35 UJ	0.35 U	0.35 U	0.11 U	1 U	1 U	1 U	1 U	1 U	
1,2,4-Trichlorobenzene	0	0%	GA	5	0	0	86	1 U	0.19 U	0.95 U	0.37 UJ	0.37 U	0.37 U	0.25 UJ	1 U	1 U	1 U	1 U	1 U	
1,2,4-Trimethylbenzene	0.45	7%	GA	5	0	2	30				0.19 UJ	0.19 U	0.19 U				1 U			
1,2-Dibromo-3-chloropropane	0	0%	GA	0.04	0	0	86	2 U	0.43 U	2.2 U	0.5 U	0.5 U	0.5 U	0.44 U	1 U	1 U	1 U	1 U	2 U	
1,2-Dibromoethane	0	0%	GA	0.0006	0	0	91	1 U	0.18 U	0.9 U	0.22 UJ	0.22 U	0.22 U	0.25 U	1 U	1 U	1 U	1 U	1 U	
1,2-Dichlorobenzene	0	0%	GA	3	0	0	86	1 U	0.4 U	2 U	0.15 UJ	0.15 U	0.15 U	0.21 U	1 U	1 U	1 U	1 U	1 U	
1,2-Dichloroethane	0.49	2%	GA	0.6	0	2	91	1 U	0.14 U	0.71 U	0.2 UJ	0.2 U	0.2 U	0.1 U	1 U	1 U	1 U	1 U	1 U	
1,2-Dichloroethene (total)	15	15%	GA	5	2	3	20				0.21 UJ	0.21 UJ	0.21 UJ				1 U			
1,2-Dichloropropane	0	0%	GA	1	0	0	91	1 U	0.15 U	0.75 U	0.25 UJ	0.25 U	0.25 U	0.13 U	1 U	1 U	1 U	1 U	1 U	
1,3,5-Trimethylbenzene	0	0%	GA	5	0	0	30				0.2 UJ	0.2 U	0.2 U				1 U			
1,3-Dichlorobenzene	0	0%	GA	3	0	0	86	1 U	0.36 U	1.8 U	0.26 UJ	0.26 U	0.26 U	0.25 U	1 U	1 U	1 U	1 U	1 U	
1,4-Dichlorobenzene	0	0%	GA	3	0	0	86	1 U	0.34 U	1.8 U	0.24 UJ	0.24 U	0.24 U	0.28 U	1 U	1 U	1 U	1 U	1 U	
Acetone	11	7%				6	91	5 U	5 U	8 U	2.2 U	2.2 U	2.2 U	5 U	5 U	5 U	5 U	10 UJ	10 UJ	
Benzene	62	29%	GA	1	16	26	91	1.7	0.18 U	0.9 U	0.26 UJ	0.68 J	0.68 J	0.82 J	1 U	1 U	1 U	1 U	1 U	
Bromodichloromethane	0	0%	MCL	80	0	0	91	1 U	0.17 U	0.86 U	0.33 UJ	0.33 U	0.33 U	0.25 U	1 U	1 U	1 U	1 U	1 U	
Bromoform	0	0%	MCL	80	0	0	91	1 U	0.2 U	1 U	0.23 UJ	0.23 U	0.23 U	0.5 UJ	1 U	1 U	1 U	1 UJ	1 UJ	
Carbon disulfide	0.61	2%				2	91	1 U	0.36 U	1.8 U	0.25 U	0.25 U	0.25 U	0.6 U	1 U	1 U	1 U	1 U	1 U	
Carbon tetrachloride	0	0%	GA	5	0	0	91	1 U	0.36 U	1.8 U	0.22 UJ	0.22 U	0.22 U	0.5 UJ	1 U	1 U	1 U	1 U	1 U	
Chlorobenzene	0	0%	GA	5	0	0	91	1 U	0.26 U	1.3 U	0.22 UJ	0.22 U	0.22 U	0.25 U	1 U	1 U	1 U	1 U	1 U	
Chlorodibromomethane	0	0%	MCL	80	0	0	91	1 U	0.11 U	0.55 U	0.3 UJ	0.3 U	0.3 U	0.1 UJ	1 U	1 U	1 U	1 U	1 U	
Chloroethane	0.67	2%	GA	5	0	2	91	1 U	0.21 U	1.1 U	0.55 U	0.55 U	0.55 U	2 UJ	1 U	1 U	1 U	2 U	2 U	
Chloroform	0.32	1%	GA	7	0	1	91	1 U	0.16 U	0.8 U	0.32 UJ	0.32 U	0.32 U	0.14 U	1 U	1 U	1 U	1 U	1 U	
Cis-1,2-Dichloroethene	19	15%	GA	5	4	14	91	1 U	0.14 U	0.71 U	0.21 UJ	0.21 U	0.21 U	0.15 U	1 U	1 U	1 U	1 U	1 U	
Cis-1,3-Dichloropropene	0	0%	GA	0.4	0	0	91	1 U	0.14 U	0.71 U	0.19 UJ	0.19 UJ	0.19 UJ	0.11 U	1 U	1 U	1 U	1 U	1 U	
Cyclohexane	8.6	12%				10	86	1 U	0.14 U	0.71 U	0.31 UJ	0.31 U	0.31 U	0.25 U	1 U	1 U	1 U	1 U	1 U	
Dichlorodifluoromethane	0	0%	GA	5	0	0	66	1 U	0.18 U	0.9 U				0.25 U	1 UJ	1 U	1 U	1 UJ	1 UJ	
Diisopropyl Ether	0	0%				0	20				0.21 U	0.21 U	0.21 U							
Ethyl benzene	26	16%	GA	5	11	15	91	1 U	0.42 U	2.1 U	0.21 UJ	0.21 U	0.21 U	0.11 U	1 U	1 U	1 U	1 U	1 U	
Isopropylbenzene	2.6	9%	GA	5	0	8	91	1 U	0.34 U	1.8 U	0.23 UJ	0.23 U	0.23 U	0.1 U	1 U	1 U	1 U	1 U	1 U	
Meta/Para Xylene	19	11%	GA	5	4	7	61	2 U	0.81 U	4.1 U	0.59 UJ	0.59 U	0.59 U							
Methyl Acetate	0	0%				0	86	2 U	0.48 U	2.4 U	0.53 U	0.53 U	0.53 U	0.19 UJ	1 U	1 U	1 U	10 U	10 U	
Methyl bromide	0	0%	GA	5	0	0	91	1 UJ	0.4 U	2 U	0.49 UJ	0.49 UJ	0.49 UJ	2 U	1 U	1 UJ	1 U	2 U	2 U	
Methyl butyl ketone	1.9	1%				1	91	5 U	0.4 U	2 U	1.7 U	1.7 U	1.7 U	1 U	5 U	5 U	5 U	5 U	5 U	
Methyl chloride	0	0%	GA	5	0	0	91	1 U	0.18 U	0.9 U	0.36 U	0.36 U	0.36 U	0.33 U	1 U	1 U	1 U	2 U	2 U	
Methyl cyclohexane	4.2	7%				6	86	1 U	0.16 U	0.8 U	0.3 U	0.3 U	0.3 U	0.1 U	1 U	1 U	1 U	1 U	1 U	
Methyl ethyl ketone	9	12%				11	91	5 U	1 U	5 U	1.3 U	1.3 U	1.3 U	1 U	5 U	5 U	5 U	5 U	5 U	
Methyl isobutyl ketone	0	0%				0	91	5 U	0.34 U	1.8 U	1.3 U	1.3 U	1.3 U	1 U	5 U	5 U	5 U	5 U	5 U	
Methyl Tertbutyl Ether	0	0%				0	91	1 U	0.13 U	0.65 U	0.36 U	0.36 U	0.36 U	0.2 U	1 U	1 U	1 U	1 U	1 U	
Methylene chloride	0	0%	GA	5	0	0	91	1 U	0.13 U	0.65 U	1.1 U	1.1 U	1.1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Naphthalene	0.23	4%				1	25				0.3 UJ	0.3 U	0.3 U							
n-Butylbenzene	0	0%	GA	5	0	0	20				0.23 UJ	0.23 U	0.23 U							
Ortho Xylene	6.4	8%	GA	5	3	5	61	1 U	0.4 U	2 U	0.25 UJ	0.25 U	0.25 U						1 U	
p-Isopropyltoluene	0	0%	GA	5	0	0	10											1 U	1 U	
Propylbenzene	0	0%	GA	5	0	0	10													
sec-Butylbenzene	0	0%	GA	5	0	0	20				0.21 UJ	0.21 U	0.21 U							
Styrene	0	0%	GA	5	0	0	91	1 U	0.36 U	1.8 U	0.23 UJ	0.23 U	0.23 U	0.11 U	1 U	1 U	1 U	1 U	1 U	
tert-Butylbenzene	0	0%	GA	5	0	0	20				0.31 UJ	0.31 U	0.31 U							
Tetrachloroethene	0	0%	GA	5	0	0	91	1 U	0.42 U	2.1 U	0.4 U	0.4 U	0.4 U	0.15 U	1 U	1 U	1 U	1 U	1 U	
Toluene	14	11%	GA	5	5	10	91	1 U	0.21 U	1.1 U	0.27 UJ	0.27 U	0.27 U	0.33 U	1 U	1 U	1 U	1 U	1 U	
Total Xylenes	62	10%	GA	5	3	5	50				0.25 UJ	0.25 U	0.25 U	0.2 U	3 U	3 U	3 U	3 U	3 U	
Trans-1,2-Dichloroethene	0	0%	GA	5	0	0	91	1 U	0.16 U	0.8 U	0.25 U	0.25 U	0.25 U	0.2 U	1 U	1 U	1 U	1 U	1 U	
Trans-1,3-Dichloropropene	0	0%	GA	0.4	0	0	91	1 U	0.17 U	0.86 U	0.2 UJ	0.2 UJ	0.2 UJ	0.21 U	1 U	1 U	1 U	1 U	1 U	
Trichloroethene	2	10%	GA	5	0	9	91	1 U	0.19 U	0.95 U	0.28 UJ	0.28 U	0.28 U	0.13 U	1 U	1 U	1 U	1 U	1 U	
Trichlorofluoromethane	0	0%	GA	5	0	0	86	1 U	0.16 U	0.8 U	0.24 U	0.24 U	0.24 U	0.25 U	1 UJ	1 U	1 U	1 U	1 U	
Vinyl chloride	2.6	5%	GA	2	2	5	91	1 U	0.22 U	1.1 U	0.25 U	0.25 U	0.25 U	0.18 U	1 U	1 U	1 U	1 U	1 U	

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2013 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	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3	MW25-3					
Matrix	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER					
Sample ID	25LM20046	25LM20060	25LM20068	25LM20075	25LM20086	25LM20087	25LM20097	25LM20003	25LM20012	25LM20037											
Sample Date	4/29/2009	1/12/2010	8/4/2010	2/8/2011	2/29/2012	2/29/2012	5/9/2013	1/31/2006	8/11/2006	3/4/2008											
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	5	6	7	8	9	9	10	1	2	4											
Filtered																					
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA 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	89%	GA	300	51	75	84	1,570		702		463	458 J	530 J	2,200	329 J	667	349		
Sodium	UG/L	58,100	100%	GA	20,000	14	84	84	9,000		7,370		7,990	5,980	5,960	8,900	5,110	7,060 J	4,180		
Wet Chemistry																					
Chloride	MG/L	97.9	74%	GA	250	0	63	85	3.3		2.8		3.2	1.5 J	1.4 J	1 U	1.4	0.73 J	0.2 U		
Ethane	UG/L	1.1	6%				5	88	1 U		0.16 U		0.58 U	0.58 U	0.58 U	0.55 U	2 U	2 U	1 U		
Ethene	UG/L	4.6	6%				5	88	1 U		0.17 U		0.69 U	0.69 U	0.69 U	0.5 U	2 U	2 U	1 U		
Methane	UG/L	170	51%				45	88	13		0.14 U		1.5 J	18 J	18 J	0.29 U	2 U	2 U	0.36 J		
Nitrate	MG/L	6.4	59%	GA	10	0	30	51	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									0.05 U	0.13		0.607 J	
Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25			0.003 UJ									0.607	
Nitrite	MG/L	0.73	31%	GA	1	0	16	51	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	0.05 U	0.01 UJ		
Sulfate	MG/L	182	100%	GA	250	0	85	85	122		182 J		110 J	50 J	50 J	100	19.5	28.2		17.3	

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
2013 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 MW25-8 GROUNDWATER 25LM20047 4/29/2009 SA LTM 5			SEAD-25 MW25-8 GROUNDWATER 25LM20059 1/13/2010 SA LTM 6			SEAD-25 MW25-8 GROUNDWATER 25LM20092 2/29/2012 SA LTM 9			SEAD-25 MW25-8 GROUNDWATER 25LM20103 5/7/2013 SA LTM 10			SEAD-25 MW25-9 GROUNDWATER 25LM20004 1/31/2006 SA LTM 1			SEAD-25 MW25-9 GROUNDWATER 25LM20013 8/9/2006 SA LTM 2			SEAD-25 MW25-9 GROUNDWATER 25LM20038 3/4/2008 SA LTM 4			SEAD-25 MW25-9 GROUNDWATER 25LM20049 4/29/2009 SA LTM 5			SEAD-25 MW25-9 GROUNDWATER 25LM20058 1/12/2010 SA LTM 6			SEAD-25 MW25-9 GROUNDWATER 25LM20082 2/9/2011 SA LTM 8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA 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	Value	Qual	Value	Qual																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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1,1,1-Trichloroethane	UG/L	0.62	2%	GA	5	0	2	91	1 U	0.32 U	0.2 U	0.5 UJ	0.62 J	1 U	1 U	1 U	1 U	1 U	0.32 U	0.2 UJ	1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	91	1 U	0.09 U	0.38 U	0.18 U	1 U	1 U	1 U	1 U	1 U	0.09 U	0.38 UJ	1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	86	1 U	0.4 U	0.31 UJ	0.5 U	1 U	1 U	1 U	1 U	1 U	0.4 U	0.31 U	1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	91	1 U	0.2 U	0.33 U	0.13 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.33 UJ	1,1-Dichloroethane	UG/L	3.5	10%	GA	5	0	9	91	1 U	0.14 U	0.21 U	0.25 U	1	1 U	1 U	1 U	1 U	0.14 U	0.21 UJ	1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	91	1 U	0.37 U	0.35 U	0.11 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.35 UJ	1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	86	1 U	0.19 U	0.37 U	0.25 U	1 U	1 U	1 U	1 U	1 U	0.19 U	0.37 UJ	1,2,4-Trimethylbenzene	UG/L	0.45	7%	GA	5	0	2	30			0.19 U						1 U		0.19 UJ	1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	86	2 U	0.43 U	0.5 U	0.44 U	1 U	1 U	1 U	2 U	2 U	0.43 U	0.5 U	1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	91	1 U	0.18 U	0.22 U	0.25 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.22 UJ	1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	86	1 U	0.4 U	0.15 U	0.21 U	1 U	1 U	1 U	1 U	1 U	0.4 U	0.15 UJ	1,2-Dichloroethane	UG/L	0.49	2%	GA	0.6	0	2	91	1 U	0.14 U	0.2 U	0.1 U	0.49 J	1 U	1 U	1 U	1 U	0.14 U	0.2 UJ	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	91	1 U	0.15 U	0.25 U	0.13 U	1 U	1 U	1 U	1 U	1 U	0.15 U	0.25 UJ	1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	30			0.2 U						1 U		0.2 UJ	1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	86	1 U	0.36 U	0.26 U	0.25 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.26 UJ	1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	86	1 U	0.34 U	0.24 U	0.28 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.24 UJ	Acetone	UG/L	11	7%			6	91	10 U	5 U	2.2 U	5 U	5 U	63 UJ	10 UJ	10 U	10 U	5 U	2.2 U	Benzene	UG/L	62	29%	GA	1	16	26	91	1 U	0.18 U	0.26 U	0.25 U	33	0.58 J	2.3	0.46 J	0.18 U	0.74 J	Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	91	1 U	0.17 U	0.33 U	0.25 UJ	1 U	1 U	1 U	1 U	1 U	0.17 U	0.33 UJ	Bromoform	UG/L	0	0%	MCL	80	0	0	91	1 U	0.2 U	0.23 U	0.5 U	1 U	1 U	1 UJ	1 U	1 U	0.2 U	0.23 UJ	Carbon disulfide	UG/L	0.61	2%			2	91	1 U	0.36 U	0.25 U	0.6 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.25 U	Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	91	1 U	0.36 U	0.22 U	0.5 UJ	1 U	1 U	1 U	1 U	1 U	0.36 U	0.22 UJ	Chlorobenzene	UG/L	0	0%	GA	5	0	0	91	1 U	0.26 U	0.22 U	0.25 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.22 UJ	Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	91	1 U	0.11 U	0.3 U	0.1 U	1 U	1 U	1 U	1 U	1 U	0.11 U	0.3 UJ	Chloroethane	UG/L	0.67	2%	GA	5	0	2	91	1 U	0.21 U	0.55 U	2 U	1 U	1 UJ	2 U	1 U	0.21 U	0.55 U	Chloroform	UG/L	0.32	1%	GA	7	0	1	91	1 U	0.16 U	0.32 U	0.14 U	1 U	1 U	1 U	1 U	1 U	0.16 U	0.32 UJ	Cis-1,2-Dichloroethene	UG/L	19	15%	GA	5	4	14	91	1 U	0.14 U	0.21 U	0.15 U	2.8	1 U	1 U	1 U	1 U	0.14 U	0.21 UJ	Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	91	1 U	0.14 U	0.19 UJ	0.11 U	1 U	1 U	1 U	1 U	1 U	0.14 U	0.19 UJ	Cyclohexane	UG/L	8.6	12%			10	86	1 U	0.14 U	0.31 U	0.25 U	8 J	1 U	1 U	1 U	1 U	0.14 U	0.31 UJ	Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	66	1 U	0.18 U		0.25 U	1 UJ	1 U	1 UJ	1 U	1 U	0.18 U	Diisopropyl Ether	UG/L	0	0%			0	20			0.21 U								0.21 U	Ethyl benzene	UG/L	26	16%	GA	5	11	15	91	1 U	0.42 U	0.21 U	0.11 U	15	1 U	1 U	1 U	1 U	0.42 U	0.21 UJ	Isopropylbenzene	UG/L	2.6	9%	GA	5	0	8	91	1 U	0.34 U	0.23 U	0.1 U	2.6	1 U	1 U	1 U	1 U	0.34 U	0.23 UJ	Meta/Para Xylene	UG/L	19	11%	GA	5	4	7	61	2 U	0.81 U	0.59 U			0.43 J	2 U	0.81 U	0.59 UJ	Methyl Acetate	UG/L	0	0%			0	86	2 U	0.48 U	0.53 U	0.19 U	1 U	1 U	10 U	2 U	0.48 U	0.53 U	Methyl bromide	UG/L	0	0%	GA	5	0	0	91	1 UJ	0.4 U	0.49 UJ	2 U	1 U	2 U	1 UJ	0.4 U	0.49 U	Methyl butyl ketone	UG/L	1.9	1%			1	91	5 U	0.4 U	1.7 U	1 U	5 U	5 U	5 U	5 U	0.4 U	1.7 U	Methyl chloride	UG/L	0	0%	GA	5	0	0	91	1 U	0.18 U	0.36 U	0.33 U	1 U	1 U	2 U	1 U	0.18 U	0.36 U	Methyl cyclohexane	UG/L	4.2	7%			6	86	1 U	0.16 U	0.3 U	0.1 U	1.9 J	1 U	1 U	1 U	1 U	0.16 U	0.3 U	Methyl ethyl ketone	UG/L	9	12%			11	91	2.3 J	1 U	1.3 U	1 U	5 U	5 UJ	5 U	5 U	1 U	1.3 U	Methyl isobutyl ketone	UG/L	0	0%			0	91	5 U	0.34 U	1.3 U	1 U	5 U	5 U	5 U	5 U	0.34 U	1.3 U	Methyl Tertbutyl Ether	UG/L	0	0%			0	91	1 U	0.13 U	0.36 U	0.2 U	1 U	1 U	1 U	1 U	1 U	0.13 U	0.36 U	Methylene chloride	UG/L	0	0%	GA	5	0	0	91	1 U	0.13 U	1.1 U	1 U	1 U	1 UJ	1 U	1 U	0.13 U	1.1 U	Naphthalene	UG/L	0.23	4%			1	25			0.3 U								0.3 UJ	n-Butylbenzene	UG/L	0	0%	GA	5	0	0	20			0.23 U							0.23 UJ	Ortho Xylene	UG/L	6.4	8%	GA	5	3	5	61	1 U	0.4 U	0.25 U				1.5	1 U	0.4 U	0.25 UJ	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 U							0.21 UJ	Styrene	UG/L	0	0%	GA	5	0	0	91	1 U	0.36 U	0.23 U	0.11 U	1 U	1 U	1 U	1 U	0.36 U	0.23 UJ	tert-Butylbenzene	UG/L	0	0%	GA	5	0	0	20			0.31 U							0.31 UJ	Tetrachloroethene	UG/L	0	0%	GA	5	0	0	91	1 U	0.42 U	0.4 U	0.15 U	1 U	1 U	1 U	1 U	0.42 U	0.4 U	Toluene	UG/L	14	11%	GA	5	5	10	91	1 U	0.21 U	0.27 U	0.33 U	14	1 U	0.39 J	1 U	0.21 U	0.27 UJ	Total Xylenes	UG/L	62	10%	GA	5	3	5	50			0.25 U	0.2 U	62	3 U				0.25 UJ	Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	91	1 U	0.16 U	0.25 U	0.2 U	1 U	1 U	1 U	1 U	1 U	0.16 U	0.25 U	Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	91	1 U	0.17 U	0.2 UJ	0.21 UJ	1 U	1 U	1 U	1 U	0.17 U	0.2 UJ	Trichloroethene	UG/L	2	10%	GA	5	0	9	91	1 U	0.19 U	0.28 U	0.13 U	0.53 J	1 U	1 U	1 U	0.19 U	0.28 UJ	Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	86	1 U	0.16 U	0.24 U	0.25 U	1 UJ	1 U	1 U	1 U	0.16 U	0.24 U	Vinyl chloride	UG/L	2.6	5%	GA	2	2	5	91	1 U	0.22 U	0.25 U	0.18 U	1 U	1 U	1 U	1 U	0.22 U	0.25 U

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2013 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 MW25-8 GROUNDWATER 25LM20047 4/29/2009 SA LTM 5	SEAD-25 MW25-8 GROUNDWATER 25LM20059 1/13/2010 SA LTM 6	SEAD-25 MW25-8 GROUNDWATER 25LM20092 2/29/2012 SA LTM 9	SEAD-25 MW25-8 GROUNDWATER 25LM20103 5/7/2013 SA LTM 10	SEAD-25 MW25-9 GROUNDWATER 25LM20004 1/31/2006 SA LTM 1	SEAD-25 MW25-9 GROUNDWATER 25LM20013 8/9/2006 SA LTM 2	SEAD-25 MW25-9 GROUNDWATER 25LM20038 3/4/2008 SA LTM 4	SEAD-25 MW25-9 GROUNDWATER 25LM20049 4/29/2009 SA LTM 5	SEAD-25 MW25-9 GROUNDWATER 25LM20058 1/12/2010 SA LTM 6	SEAD-25 MW25-9 GROUNDWATER 25LM20082 2/9/2011 SA LTM 8										
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA 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		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%				0	18					10 U		10 U					
2,4-Dinitrophenol	UG/L	0	0%				0	18					48 U		48 U					
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%				0	18					10 U		10 U					
2-Chlorophenol	UG/L	0	0%				0	18					10 U		10 U					
2-Methylnaphthalene	UG/L	0	0%				0	18					10 U		10 U					
2-Methylphenol	UG/L	0	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%				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%				0	18					10 U		10 U					
4-Methylphenol	UG/L	0	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 U		48 U					
Acenaphthene	UG/L	0.5	6%				1	18					10 U		10 U					
Acenaphthylene	UG/L	2	22%				4	18					1 J		10 U					
Acetophenone	UG/L	0	0%				0	18					10 U		10 U					
Anthracene	UG/L	1	6%				1	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%				0	18					48 U		48 U					
Benzo(a)anthracene	UG/L	0	0%				0	18					10 U		10 U					
Benzo(a)pyrene	UG/L	0	0%	GA	0		0	18					10 U		10 U					
Benzo(b)fluoranthene	UG/L	0	0%				0	18					10 U		10 U					
Benzo(ghi)perylene	UG/L	0.6	6%				1	18					10 U		10 U					
Benzo(k)fluoranthene	UG/L	0	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		10 U					
Butylbenzylphthalate	UG/L	2	6%				1	18					10 U		10 U					
Caprolactam	UG/L	0	0%				0	18					10 U		10 U					
Carbazole	UG/L	0	0%				0	18					10 U		10 U					
Chrysene	UG/L	0	0%				0	18					10 U		10 U					
Dibenz(a,h)anthracene	UG/L	0	0%				0	18					10 U		10 U					
Dibenzofuran	UG/L	0	0%				0	18					10 U		10 U					
Diethyl phthalate	UG/L	0	0%				0	18					10 U		10 U					
Dimethylphthalate	UG/L	0	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%				0	18					10 U		10 U					
Fluoranthene	UG/L	0	0%				0	18					10 U		10 U					
Fluorene	UG/L	0	0%				0	18					10 U		10 UJ					
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18					10 U		10 U					
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18					10 U		10 U					
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18					43 U		43 U					
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18					10 U		10 U					
Indeno(1,2,3-cd)pyrene	UG/L	0	0%				0	18					10 U		10 U					
Isophorone	UG/L	0	0%				0	18					10 U		10 U					
Naphthalene	UG/L	2	6%				1	18					2 J		10 U					
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18					10 U		10 U					
N-Nitroso-di-n-propylamine	UG/L	0	0%				0	18					10 U		10 U					
N-Nitrosodiphenylamine	UG/L	0	0%				0	18					10 U		10 U					
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18					48 U		48 U					
Phenanthrene	UG/L	0	0%				0	18					10 U		10 U					
Phenol	UG/L	0	0%	GA	1	0	0	18					10 U		10 U					
Pyrene	UG/L	0	0%				0	18					10 U		10 U					

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2013 Annual Long-Term Monitoring Report for SEAD-25
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Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA 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
									MW25-8 GROUNDWATER 25LM20047 4/29/2009 SA LTM 5	MW25-8 GROUNDWATER 25LM20059 1/13/2010 SA LTM 6	MW25-8 GROUNDWATER 25LM20092 2/29/2012 SA LTM 9	MW25-8 GROUNDWATER 25LM20103 5/7/2013 SA LTM 10	MW25-9 GROUNDWATER 25LM20004 1/31/2006 SA LTM 1	MW25-9 GROUNDWATER 25LM20013 8/9/2006 SA LTM 2	MW25-9 GROUNDWATER 25LM20038 3/4/2008 SA LTM 4	MW25-9 GROUNDWATER 25LM20049 4/29/2009 SA LTM 5	MW25-9 GROUNDWATER 25LM20058 1/12/2010 SA LTM 6	MW25-9 GROUNDWATER 25LM20082 2/9/2011 SA LTM 8
Parameter	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Inorganics																		
Iron	UG/L	15,700	89%	GA	300	51	75	84	620	408	411 J	4,200	56.9 J	12 U	100 U	9,440	916	3,580
Sodium	UG/L	58,100	100%	GA	20,000	14	84	84	6,000	9,740	6,650	8,100	14,500	16,400 J	8,380	26,000	16,500	29,600
Wet Chemistry																		
Chloride	MG/L	97.9	74%	GA	250	0	63	85	3.2	0.5 U	1.3 J	1 U	1.1	0.99 J	0.2 U	2.7	0.5 U	1.6 J
Ethane	UG/L	1.1	6%				5	88	1 U	0.16 U	0.58 U	0.81 U	2 U	2 U	1 U	1 U	0.16 U	0.58 U
Ethene	UG/L	4.6	6%				5	88	1 U	0.17 U	0.69 U	0.73 U	2 U	2 U	1 U	1 U	0.17 U	0.69 U
Methane	UG/L	170	51%				45	88	16	0.14 U	4.7 J	1.1 J	29	2 U	2.4 J	3.5	0.14 U	5.4 J
Nitrate	MG/L	6.4	59%	GA	10	0	30	51	0.05 U	0.05 UJ	0.017 J	0.041 J				0.05 U	0.05 UJ	0.0152 U
Nitrate Nitrogen	MG/L	1	45%				13	29					0.05 U	0.1	0.05 UJ			
Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25		0.003 UJ					0.05 U		0.003 UJ	
Nitrite	MG/L	0.73	31%	GA	1	0	16	51	0.016	0.007 UJ	0.022 J	0.01 U				0.01 U	0.007 UJ	0.00321 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	85	85	20.7	35.2 J	12 J	12	21.8	25.3	24.8	39.7	35.3 J	32 J

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
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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	MW25-10	MW25-10	MW25-10	MW25-10	MW25-10	MW25-10	MW25-10	MW25-10	MW25-10	MW25-10	MW25-10	MW25-10	MW25-10	MW25-13										
Matrix	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER										
Sample ID	25LM20093	25LM20104	25LM20005	25LM20015	25LM20039	25LM20061	25LM20083	25LM20094	25LM20105	25LM20006																
Sample Date	2/29/2012	5/7/2013	1/31/2006	8/9/2006	3/4/2008	1/13/2010	2/9/2011	2/28/2012	5/7/2013	1/30/2006																
QC Type	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA																
Study ID	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM																
Sample Round	9	10	1	2	4	6	8	9	10	1																
Filtered																										
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Total Value	Total Qual	Total Value	Total Qual	Total Value	Total Qual	Total Value	Total Qual	Total Value	Total Qual								
Inorganics																										
Iron	UG/L	15,700	89%	GA	300	51	75	84	2,080 J		3,000		62.8 J		358		100 U		508		231 J		200 J		320 J	
Sodium	UG/L	58,100	100%	GA	20,000	14	84	84	45,300		34,000		8,870		6,530 J		6,090		6,420		5,040		4,800 J		40,600	
Wet Chemistry																										
Chloride	MG/L	97.9	74%	GA	250	0	63	85	0.55 J		1 U		0.73		0.71 J		0.2 U		2.1		0.45 J		1 U		2.5	
Ethane	UG/L	1.1	6%				5	88	0.58 U		0.81 U		2 U		2 U		1 U		0.21 U		0.58 U		0.81 U		2 U	
Ethene	UG/L	4.6	6%				5	88	0.69 U		0.73 U		2 U		2 U		1 U		0.22 U		0.69 U		0.73 U		2 U	
Methane	UG/L	170	51%				45	88	4 J		0.45 U		2 U		2 U		2 U		0.14 U		1.2 J		0.45 U		2 U	
Nitrate	MG/L	6.4	59%	GA	10	0	30	51	0.018 J		0.033 J								0.05 UJ		0.02 J		0.026 J			
Nitrate Nitrogen	MG/L	1	45%				13	29					0.05 U		0.05 U				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	31%	GA	1	0	16	51	0.022 J		0.01 U								0.007 UJ		0.015 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	85	85	26 J		28		18.1		18.4		12.9		27.1 J		14 J		14 J		15.6	

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
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**Appendix D
SEAD-25 Historic Groundwater Analytical Results
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Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	SEAD-25 MW25-13 GROUNDWATER 25LM20016 8/9/2006 SA LTM 2		SEAD-25 MW25-13 GROUNDWATER 25LM20040 3/3/2008 SA LTM 4		SEAD-25 MW25-13 GROUNDWATER 25LM20095 2/28/2012 SA LTM 9		SEAD-25 MW25-15 GROUNDWATER 25LM20007 1/31/2006 SA LTM 1		SEAD-25 MW25-15 GROUNDWATER 25LM20017 8/14/2006 SA LTM 2		SEAD-25 MW25-15 GROUNDWATER 25LM20041 3/3/2008 SA LTM 4		SEAD-25 MW25-15 GROUNDWATER 25LM20052 4/29/2009 SA LTM 5		SEAD-25 MW25-15 GROUNDWATER 25LM20063 1/13/2010 SA LTM 6		SEAD-25 MW25-15 GROUNDWATER 25LM20085 2/9/2011 SA LTM 8		SEAD-25 MW25-15 GROUNDWATER 25LM20096 2/28/2012 SA LTM 9		
	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA 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													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%					18													9 U
2,4-Dinitrophenol	UG/L	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%					18													9 U
2-Chlorophenol	UG/L	0	0%					18													9 U
2-Methylnaphthalene	UG/L	0	0%					18													9 U
2-Methylphenol	UG/L	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%					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%					18													9 U
4-Methylphenol	UG/L	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%					18													9 U
Acenaphthylene	UG/L	2	22%				4	18													0.7 J
Acetophenone	UG/L	0	0%					18													9 U
Anthracene	UG/L	1	6%					18													9 U
Atrazine	UG/L	0	0%	GA	7.5	0	0	18													9 U
Benzaldehyde	UG/L	0	0%					18													47 U
Benzo(a)anthracene	UG/L	0	0%					18													9 U
Benzo(a)pyrene	UG/L	0	0%	GA	0			18													9 U
Benzo(b)fluoranthene	UG/L	0	0%					18													9 U
Benzo(g,h,i)perylene	UG/L	0.6	6%					18													9 U
Benzo(k)fluoranthene	UG/L	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%					18													9 U
Carbazole	UG/L	0	0%					18													9 U
Chrysene	UG/L	0	0%					18													9 U
Dibenz(a,h)anthracene	UG/L	0	0%					18													9 U
Dibenzofuran	UG/L	0	0%					18													9 U
Diethyl phthalate	UG/L	0	0%					18													9 U
Dimethylphthalate	UG/L	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%					18													9 U
Fluoranthene	UG/L	0	0%					18													9 U
Fluorene	UG/L	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%					18													9 U
Isophorone	UG/L	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%					18													9 U
N-Nitrosodiphenylamine	UG/L	0	0%					18													9 U
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18													47 U
Phenanthrene	UG/L	0	0%					18													9 U
Phenol	UG/L	0	0%	GA	1	0	0	18													9 U
Pyrene	UG/L	0	0%					18													9 U

Appendix D
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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	MW25-13	MW25-13	MW25-13	MW25-15	MW25-15	MW25-15	MW25-15	MW25-15	MW25-15	MW25-15	MW25-15	MW25-15	MW25-15	MW25-15	MW25-15	MW25-15					
Matrix	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER					
Sample ID	25LM20016	25LM20040	25LM20095	25LM20007	25LM20017	25LM20041	25LM20052	25LM20063	25LM20085	25LM20096											
Sample Date	8/9/2006	3/3/2008	2/28/2012	1/31/2006	8/14/2006	3/3/2008	4/29/2009	1/13/2010	2/9/2011	2/28/2012											
QC Type	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA											
Study ID	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM											
Sample Round	2	4	9	1	2	4	5	6	8	9											
Filtered																					
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA 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	89%	GA	300	51	75	84					2,320 J	56 J	850	100 U	30 J	769		3,840 J	
Sodium	UG/L	58,100	100%	GA	20,000	14	84	84			16,100	3,080	6,630 J	6,340	3,500	3,620				3,130	
Wet Chemistry																					
Chloride	MG/L	97.9	74%	GA	250	0	63	85			0.54 J	0.66	1.4 J	0.2 U	0.2 U	0.5 U				0.56 J	
Ethane	UG/L	1.1	6%				5	88			0.58 U	2 U	2 U	1 U	1 U	0.16 U	0.58 U			0.58 U	
Ethene	UG/L	4.6	6%				5	88			0.69 U	2 U	2 U	1 U	1 U	0.17 U	0.69 U			0.69 U	
Methane	UG/L	170	51%				45	88			1.2 J	2 U	2 U	2 U	2 U	0.14 U	2.1 J			1.2 J	
Nitrate	MG/L	6.4	59%	GA	10	0	30	51			0.051				0.05 U	0.05 UJ				0.018 J	
Nitrate Nitrogen	MG/L	1	45%				13	29				0.05 U	0.05 U	0.16 J							
Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25						0.16		0.003 UJ					
Nitrite	MG/L	0.73	31%	GA	1	0	16	51			0.015 J				0.01 U	0.007 UJ				0.02 J	
Nitrite Nitrogen	MG/L	0.087	3%				1	29				0.05 U	0.087	0.01 UJ							
Sulfate	MG/L	182	100%	GA	250	0	85	85			18 J	14.4	17.9	13.3	20.3	24.8 J				14 J	

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
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Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	SEAD-25 MW25-15 GROUNDWATER 25LM20107 5/7/2013 SA LTM 10 Total		SEAD-25 MW25-17 GROUNDWATER 25LM20008 1/30/2006 SA LTM 1 Total		SEAD-25 MW25-17 GROUNDWATER 25LM20018 8/11/2006 SA LTM 2 Total		SEAD-25 MW25-17 GROUNDWATER 25LM20024 6/7/2007 DU LTM 3 Total		SEAD-25 MW25-17 GROUNDWATER 25LM20028 6/7/2007 SA LTM 3 Total		SEAD-25 MW25-17 GROUNDWATER 25LM20032 3/4/2008 DU LTM 4 Total		SEAD-25 MW25-17 GROUNDWATER 25LM20033 3/4/2008 SA LTM 4 Total		SEAD-25 MW25-17 GROUNDWATER 25LM20043 4/28/2009 SA LTM 5 Total		SEAD-25 MW25-17 GROUNDWATER 25LM20055 1/14/2010 SA LTM 6 Total		SEAD-25 MW25-17 GROUNDWATER 25LM20065 8/5/2010 SA LTM 7 Total	
	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value
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%					18			9 U		10 U							
2,4-Dinitrophenol	UG/L	0	0%					18			47 U		49 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%					18			9 U		10 U							
2-Chlorophenol	UG/L	0	0%					18			9 U		10 U							
2-Methylnaphthalene	UG/L	0	0%					18			9 U		10 U							
2-Methylphenol	UG/L	0	0%					18			9 U		10 U							
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18			47 U		49 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		20 U							
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18			47 U		49 U							
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18			47 U		49 U							
4-Bromophenyl phenyl ether	UG/L	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%					18			9 U		10 U							
4-Methylphenol	UG/L	0	0%					18			9 U		10 U							
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18			47 U		49 U							
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18			47 UJ		49 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		49 U							
Benzo(a)anthracene	UG/L	0	0%				0	18			9 U		10 U							
Benzo(a)pyrene	UG/L	0	0%	GA	0		0	18			9 U		10 U							
Benzo(b)fluoranthene	UG/L	0	0%				0	18			9 U		10 U							
Benzo(ghi)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		49 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							

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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	SEAD-25		
Loc ID	MW25-15	MW25-17	MW25-17	MW25-17	MW25-17	MW25-17	MW25-17	MW25-17	MW25-17	MW25-17	MW25-17	MW25-17	MW25-17	MW25-17	MW25-17	MW25-17	MW25-17		
Matrix	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER		
Sample ID	25LM20107	25LM20008	25LM20018	25LM20024	25LM20028	25LM20032	25LM20033	25LM20043	25LM20055	25LM20065	25LM20065	25LM20065	25LM20065	25LM20065	25LM20065	25LM20065	25LM20065		
Sample Date	5/7/2013	1/30/2006	8/11/2006	6/7/2007	6/7/2007	3/4/2008	3/4/2008	4/28/2009	1/14/2010	8/5/2010	8/5/2010	8/5/2010	8/5/2010	8/5/2010	8/5/2010	8/5/2010	8/5/2010		
QC Type	SA	SA	SA	DU	SA	DU	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	LTM		
Sample Round	10	1	2	3	3	4	4	5	6	7	7	7	7	7	7	7	7		
Filtered																			
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Total Value	Total Qual	Total Value	Total Qual	Total Value	Total Qual	Total Value	Total Qual	Total Value	Total Qual	
Inorganics																			
Iron	UG/L	15,700	89%	GA	300	51	75	84	530		46.1	8.8 U	390 J	490 J	100 U	100 U	160	86.9 J	56.4 J
Sodium	UG/L	58,100	100%	GA	20,000	14	84	84	2,800		4,240	5,170 J	7,700 J	9,300 J	4,690	4,410	4,700	4,450	5,650
Wet Chemistry																			
Chloride	MG/L	97.9	74%	GA	250	0	63	85	1 U		0.7	1.4 J	3.5	3.7	0.2 U	0.2 U	0.2 U	2.5	5.3
Ethane	UG/L	1.1	6%				5	88	0.81 U		2 U	2 U	0.21	0.25	1 U	1 U	1 U	0.21 U	0.16 U
Ethene	UG/L	4.6	6%				5	88	0.73 U		2 U	2 U	1.2	1.4	1 U	1 U	1 U	0.22 U	0.17 U
Methane	UG/L	170	51%				45	88	0.45 U		2 U	2 U	6.1	7	2 U	2 U	2 U	0.14 U	0.14 U
Nitrate	MG/L	6.4	59%	GA	10	0	30	51	0.019 J				6.4 J	0.48 J			0.05 U	0.245 J	
Nitrate Nitrogen	MG/L	1	45%				13	29			0.05 U	0.11			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	31%	GA	1	0	16	51	0.01 U				0.73 J	0.5 UJ			0.01 U	0.007 UJ	
Nitrite Nitrogen	MG/L	0.087	3%				1	29		0.05 U	0.05 U				0.01 UJ	0.01 UJ			
Sulfate	MG/L	182	100%	GA	250	0	85	85	9.5		17.2	16.3	19	18	19.6	19.1	17.3	16.7 J	21.7

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

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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				
Loc ID	MW25-17	MW25-17	MW25-17	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18				
Matrix	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER				
Sample ID	25LM20076	25LM20088	25LM20098	25LM20009	25LM20019	25LM20029	25LM20034	25LM20044	25LM20056	25LM20066	25LM20076	25LM20088	25LM20098	25LM20106				
Sample Date	2/10/2011	2/28/2012	5/8/2013	1/30/2006	8/14/2006	6/6/2007	3/5/2008	4/28/2009	1/14/2010	8/5/2010	2/10/2011	2/28/2012	5/8/2013	1/30/2006				
QC Type	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				
Sample Round	8	9	10	1	2	3	4	5	6	7	8	9	10	1				
Filtered	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total				
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	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%				0	18					10 U		10 U			
2,4-Dinitrophenol	UG/L	0	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%				0	18					10 U		10 U			
2-Chlorophenol	UG/L	0	0%				0	18					10 U		10 U			
2-Methylnaphthalene	UG/L	0	0%				0	18					10 U		10 U			
2-Methylphenol	UG/L	0	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%				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%				0	18					10 U		10 U			
4-Methylphenol	UG/L	0	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%				1	18					10 U		10 U			
Acenaphthylene	UG/L	2	22%				4	18					10 U		10 U			
Acetophenone	UG/L	0	0%				0	18					10 U		10 U			
Anthracene	UG/L	1	6%				1	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%				0	18					48 U		48 U			
Benzo(a)anthracene	UG/L	0	0%				0	18					10 U		10 U			
Benzo(a)pyrene	UG/L	0	0%	GA	0		0	18					10 U		10 U			
Benzo(b)fluoranthene	UG/L	0	0%				0	18					10 U		10 U			
Benzo(ghi)perylene	UG/L	0.6	6%				1	18					10 U		10 U			
Benzo(k)fluoranthene	UG/L	0	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%				1	18					10 U		2 J			
Caprolactam	UG/L	0	0%				0	18					10 U		10 U			
Carbazole	UG/L	0	0%				0	18					10 U		10 U			
Chrysene	UG/L	0	0%				0	18					10 U		10 U			
Dibenz(a,h)anthracene	UG/L	0	0%				0	18					10 U		10 U			
Dibenzofuran	UG/L	0	0%				0	18					10 U		10 U			
Diethyl phthalate	UG/L	0	0%				0	18					10 U		10 U			
Dimethylphthalate	UG/L	0	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%				0	18					10 U		10 UJ			
Fluoranthene	UG/L	0	0%				0	18					10 U		10 U			
Fluorene	UG/L	0	0%				0	18					10 U		10 U			
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18					10 U		10 U			
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18					10 U		10 U			
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18					43 U		44 U			
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18					10 U		10 U			
Indeno(1,2,3-cd)pyrene	UG/L	0	0%				0	18					10 U		10 U			
Isophorone	UG/L	0	0%				0	18					10 U		10 U			
Naphthalene	UG/L	2	6%				1	18					10 U		10 U			
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18					10 U		10 U			
N-Nitroso-di-n-propylamine	UG/L	0	0%				0	18					10 U		10 U			
N-Nitrosodiphenylamine	UG/L	0	0%				0	18					10 U		10 U			
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18					48 U		48 U			
Phenanthrene	UG/L	0	0%				0	18					10 U		10 U			
Phenol	UG/L	0	0%	GA	1	0	0	18					10 U		10 U			
Pyrene	UG/L	0	0%				0	18					10 U		10 U			

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2013 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	MW25-17	MW25-17	MW25-17	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18	MW25-18					
Matrix	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER					
Sample ID	25LM20076	25LM20088	25LM20098	25LM20009	25LM20019	25LM20029	25LM20034	25LM20044	25LM20056	25LM20066											
Sample Date	2/10/2011	2/28/2012	5/8/2013	1/30/2006	8/14/2006	6/6/2007	3/5/2008	4/28/2009	1/14/2010	8/5/2010											
QC Type	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA											
Study ID	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM											
Sample Round	8	9	10	1	2	3	4	5	6	7											
Filtered																					
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA 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	89%	GA	300	51	75	84	15.9	J	22.4	J	50	U	462	J	357	500	J		
Sodium	UG/L	58,100	100%	GA	20,000	14	84	84	4,470		4,370		5,500	J	22,300		41,900	J	37,000	J	
Wet Chemistry																					
Chloride	MG/L	97.9	74%	GA	250	0	63	85	2.3		0.47	J	1	U	18.6		55.6	59	18		
Ethane	UG/L	1.1	6%				5	88	0.58	U	0.58	U	0.81	U	2	U	2	U	0.024	J	
Ethene	UG/L	4.6	6%				5	88	0.69	U	0.69	U	0.73	U	2	U	2	U	2	1	U
Methane	UG/L	170	51%				45	88	0.98	J	0.93	J	0.45	U	2	U	2	U	2	2	U
Nitrate	MG/L	6.4	59%	GA	10	0	30	51	0.27		0.12		0.19						1.5	J	
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	31%	GA	1	0	16	51	0.00321	U	0.015	J	0.01	U					0.5		
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	85	85	16	J	11	J	18	J	24.8		30.1		31	16.8	

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
2013 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	GA 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
									MW25-18 GROUNDWATER 25LM20077 2/10/2011 SA LTM 8 Total	MW25-18 GROUNDWATER 25LM20089 2/29/2012 SA LTM 9 Total	MW25-18 GROUNDWATER 25LM20099 5/8/2013 SA LTM 10 Total	MW25-19 GROUNDWATER 25LM20030 6/7/2007 SA LTM 3 Total	MW25-19 GROUNDWATER 25LM20035 3/3/2008 SA LTM 4 Total	MW25-19 GROUNDWATER 25LM20045 4/28/2009 SA LTM 5 Total	MW25-19 GROUNDWATER 25LM20057 1/13/2010 SA LTM 6 Total	MW25-19 GROUNDWATER 25LM20067 8/4/2010 SA LTM 7 Total	MW25-19 GROUNDWATER 25LM20078 2/9/2011 SA LTM 8 Total	MW25-19 GROUNDWATER 25LM20090 2/28/2012 SA LTM 9 Total
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
2013 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	SEAD-25		
Loc ID	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	MW25-19	MW25-19		
Matrix	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER		
Sample ID	25LM20077	25LM20089	25LM20099	25LM20030	25LM20035	25LM20045	25LM20057	25LM20067	25LM20078	25LM20090	25LM20100								
Sample Date	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								
QC Type	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA								
Study ID	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM								
Sample Round	8	9	10	3	4	5	6	7	8	9	10								
Filtered																			
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	GA Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value
Inorganics																			
Iron	UG/L	15,700	89%	GA	300	51	75	84	250		446 J		440 J		1,200 J		515		20 J
Sodium	UG/L	58,100	100%	GA	20,000	14	84	84	41,900		27,300		22,000 J		3,800 J		4,520		3,500
Wet Chemistry																			
Chloride	MG/L	97.9	74%	GA	250	0	63	85	72		20 J		16		4.5		0.2 U		0.2 U
Ethane	UG/L	1.1	6%				5	88	0.58 U		0.58 U		4 U		1.1		1 U		1 U
Ethene	UG/L	4.6	6%				5	88	0.69 U		0.69 U		3 U		4.6		1 U		1 U
Methane	UG/L	170	51%				45	88	1.3 J		1.9 J		2 U		29		2 U		2 U
Nitrate	MG/L	6.4	59%	GA	10	0	30	51	0.18		0.13		0.18		1.4 J				0.05 U
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
Nitrite	MG/L	0.73	31%	GA	1	0	16	51	0.00321 U		0.022 J		0.01 U		0.72 J				0.01 U
Nitrite Nitrogen	MG/L	0.087	3%				1	29											0.01 UJ
Sulfate	MG/L	182	100%	GA	250	0	85	85	32 J		21 J		27 J		23		24.3		30.1

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 E
LONG TERM MONITORING EVENT 2013 DATA VALIDATION SHEETS

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Event 10
LAB: TestAmerica (TA)
SDG: 680-90076-1
FRACTION: TCL VOC (SW846 8260B)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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 0.8°C on 5/8/13 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 action was taken.	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.	MS/MSD project samples were not designated for this SDG. All LCS/LCSD recoveries were within criteria.	No
Blanks	Yes	Method blanks: 1 per 20 project samples. No TCL or TICs detected in MB, TB, or EB.	No TCLs were detected in the associated method blank. No TCLs were detected in the trip blank 25LM00023.	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 Event 10
LAB: TestAmerica (TA)
SDG: 680-90076-1
FRACTION: TCL VOC (SW846 8260B)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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 (5/18/13 11:49) associated with all samples exceeded the 20%D criteria for 1,1,1-trichloroethane (20.1%D), carbon tetrachloride (25.8%D), bromodichloromethane (20.9%D), and trans-1,3-dichloropropene (20.6%D). Therefore, results for these compounds which were nondetects, were considered estimated and qualified "UJ" for the affected 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 was not collected for 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 Event 10
LAB: TestAmerica (TA)
SDG: 680-90076-1
FRACTION: General Chemistry (sulfate and chloride - Method 300.0; nitrate and nitrite - Method 353.2)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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	NA	Coolers were received at 0.8°C on 5/8/13 by the laboratory. The samples were received in good condition based on the laboratory login report. All samples analyzed within the holding time.	NO
Calibration	Yes	NA	All instrument calibrations were within specified limits.	NO
Blanks	Yes	NA	No contamination was detected in the laboratory blanks.	NO
Laboratory Control Sample	Yes	NA	LCS/LCSD recoveries met the specified criteria.	NO
Duplicates	Yes	NA	A field duplicate was not analyzed for this SDG.	NO
Spike Sample Analysis	Yes	NA	MS/MSD analyses were performed for 25LM20107 with all QC within specified criteria.	NO

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Event 10
LAB: TestAmerica (TA)
SDG: 680-90076-1
FRACTION: Metals (iron and sodium)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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	NA	The cooler temperature was 0.8°C upon receipt by the laboratory. All samples were received in good condition based on the laboratory login report. Sample pH was below 2. Holding time met criteria.	No
Calibration	Yes	NA	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	NA	ICB, CCBS, and preparation blank did not contain iron and sodium. No rinsate blank was collected for this SDG.	No
Interference Check Sample	Yes	NA	Met requirements (80-120%) for iron and sodium.	No
CRQL Standard	Yes	NA	CRQL Check Standards performed and within QC limit of 70-130%R.	No
Laboratory Control Sample	Yes	NA	LCS results within limits (i.e., 80-120%) for iron and sodium.	No
Duplicates	Yes	NA	Laboratory duplicate analysis was conducted on a non-project sample. A field duplicate was not collected for this SDG.	No
Spike Sample Analysis	Yes	NA	Spike analysis was conducted on a non-project sample.	No
ICP Serial Dilution	Yes	NA	ICP serial dilution was conducted on a non-project sample.	No
Detection Limits	Yes	NA	IDLs available used as reporting limits. IDLs of iron and sodium are less than CRDLs.	No
ICP Linear Range	Yes	NA	All results within the ICP linear range.	No

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Event 10
LABORATORY: TestAmerica (TA)
SDG: 680-90076-1
FRACTION: Methane, Ethane, Ethene (USEPA approved SOP RSK-175)
MEDIA: Groundwater
NUMBER OF SAMPLES: 10

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 0.8°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 project sample was designated for MS/MSD analyses.	No	

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Event 10
LABORATORY: TestAmerica (TA)
SDG: 680-90076-1
FRACTION: Methane, Ethane, Ethene (USEPA approved SOP RSK-175)
MEDIA: Groundwater
NUMBER OF SAMPLES: 10

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS? Yes/No	Meet Criteria?	Comments	Qualifiers Added? Yes/No	Qualifying Actions
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			
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	A field duplicate was not collected for this SDG.	No	

Notes:

1. All QA/QC limits from EPA Region 2 SOP HW-24, Revision 2. Sampling frequency and %RPD for field duplicates based on the Quality Assurance Plan.
2. If the SOP specified criteria are not met, samples will be qualified in accordance with the Region 2 SOP.
- 3 Spot check at least two positive values; verify that the values were correctly calculated based on internal standard, quantitation ion, and average initial RRF/CF.

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Event 10
LAB: TestAmerica (TA)
SDG: 680-90122-1
FRACTION: TCL VOC (SW846 8260B)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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 2.6°C on 5/9/13 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 action was taken.	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 analyses were conducted on sample 25LM20101. All precision and accuracy results were considered acceptable with the exception of the high accuracy results for 1,2-dichlorobenzene, 1,4-dichlorobenzene, and chloroethane. Since these compounds were not detected in the parent sample, validation qualification was not required. All LCS/LCSD recoveries were within criteria.	No
Blanks	Yes	Method blanks: 1 per 20 project samples. No TCL or TICs detected in MB, TB, or EB.	No TCLs were detected in the associated method blank. No TCLs were detected in the trip blank 25LM00022.	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 Event 10
LAB: TestAmerica (TA)
SDG: 680-90122-1
FRACTION: TCL VOC (SW846 8260B)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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 (5/20/13 10:08) associated with all samples exceeded the 20%D criteria for chloroethane (36%D), carbon tetrachloride (-26%D), dibromochloromethane (-20.7%RSD), methyl acetate (-24.4%D), bromoform (-34.8%D), and 1,2,4-trichlorobenzene (-22.7%D). Therefore, results for these compounds which were nondetects, were considered estimated and qualified "UJ" for the affected 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%?	Sample 25LM20102 was collected as the field duplicate of 25LM20101. All precision results were considered acceptable.	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 Event 10
LAB: TestAmerica (TA)
SDG: 680-90122-1
FRACTION: General Chemistry (sulfate and chloride - Method 300.0; nitrate and nitrite - Method 353.2)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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	NA	Coolers were received at 2.6°C on 5/9/13 by the laboratory. The samples were received in good condition based on the laboratory login report. All samples analyzed within the holding time.	No
Calibration	Yes	NA	All instrument calibrations were within specified limits.	No
Blanks	Yes	NA	No contamination was detected in the laboratory blanks.	No
Laboratory Control Sample	Yes	NA	LCS/LCSD recoveries met the specified criteria.	No
Duplicates	Yes	NA	Sample 25LM20102 was collected as the field duplicate of 25LM20101. All precision results were acceptable.	No
Spike Sample Analysis	No	All samples in this SDG	MS/MSD analyses were performed for 25LM20101 with all QC within specified criteria with the exception of the low accuracy results for sulfate (59%R/78%R; QC limit 90-110%R) associated with all samples. Therefore, all sulfate results were considered estimated, possibly biased low, and qualified "J" for the project samples.	Yes

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Event 10
LAB: TestAmerica (TA)
SDG: 680-90122-1
FRACTION: Metals (iron and sodium)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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	NA	The cooler temperature was 2.6°C upon receipt by the laboratory. All samples were received in good condition based on the laboratory login report. It was noted that the parent and MSD samples for 25LM20101 were received one day after the MS sample at the laboratory. Sample pH was below 2. Holding time met criteria.	No
Calibration	Yes	NA	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	NA	ICB, CCBs, and preparation blank did not contain iron and sodium. No rinsate blank was collected for this SDG.	No
Interference Check Sample	Yes	NA	Met requirements (80-120%) for iron and sodium.	No
CRQL Standard	Yes	NA	CRQL Check Standards performed and within QC limit of 70-130%R.	No
Laboratory Control Sample	Yes	NA	LCS results within limits (i.e., 80-120%) for iron and sodium.	No
Duplicates	Yes	NA	Laboratory duplicate analysis was conducted on sample 25LM20101. All precision results were acceptable. Sample 25LM20102 was collected as the field duplicate for 25LM20101. All precision results were acceptable.	No
Spike Sample Analysis	No	All samples in this SDG	MS/MSD analyses were conducted on sample 25LM20101. Low MS/MSD accuracy outliers were reported for sodium (-16%R/44%R; QC limit 75-125%R) and a high MS accuracy outlier was reported for iron (179%R; QC limit 75-125%R). All sodium results were considered estimated, possibly biased low, and qualified "J" and positive iron results were considered estimated, possibly biased high, and qualified "J".	Yes
ICP Serial Dilution	Yes	NA	ICP serial dilution was conducted on sample 25LM20101. All results were acceptable.	No
Detection Limits	Yes	NA	IDLs available used as reporting limits. IDLs of iron and sodium are less than CRDLs.	No
ICP Linear Range	Yes	NA	All results within the ICP linear range.	No

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Event 10
LAB: TestAmerica (TA)
SDG: 680-90122-1
FRACTION: Methane, Ethane, Ethene (USEPA approved SOP RSK-175)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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 2.6°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)?	No	Sample 25LM20101 was designated for MS/MSD analyses. A low MS accuracy result was reported for methane (62%R; QC limit 70-130%R). Validation qualification of the parent sample was not required.	No	

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Event 10
LAB: TestAmerica (TA)
SDG: 680-90122-1
FRACTION: Methane, Ethane, Ethene (USEPA approved SOP RSK-175)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS? Yes/No	Meet Criteria?	Comments	Qualifiers Added? Yes/No	Qualifying Actions
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			
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	Sample 25LM20102 was collected as the field duplicate of 25LM20101. All precision results were acceptable.	No	

Notes:

1. All QA/QC limits from EPA Region 2 SOP HW-24, Revision 2. Sampling frequency and %RPD for field duplicates based on the Quality Assurance Plan.
2. If the SOP specified criteria are not met, samples will be qualified in accordance with the Region 2 SOP.
- 3 Spot check at least two positive values; verify that the values were correctly calculated based on internal standard, quantitation ion, and average initial RRF/CF.

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Event 10
LAB: TestAmerica (TA)
SDG: 680-90184-1
FRACTION: TCL VOC (SW846 8260B)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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 3.6°C on 5/10/13 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 action was taken.	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.	MS/MSD analyses were not conducted on project samples. All LCS/LCSD recoveries were within criteria.	No
Blanks	No	Method blanks: 1 per 20 project samples. No TCL or TICs detected in MB, TB, or EB.	No TCLs were detected in the associated method blank. The trip blank 25LM00024 contained toluene at 0.83 J ug/L and the equipment blank 25LM00110 contained acetone at 9.8 J ug/L associated with samples in this SDG. Validation qualification was not required since project samples did not contain toluene and acetone.	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 Event 10
LAB: TestAmerica (TA)
SDG: 680-90184-1
FRACTION: TCL VOC (SW846 8260B)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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 (5/20/13 10:08) associated with all samples exceeded the 20%D criteria for chloroethane (36%D), carbon tetrachloride (-26%D), dibromochloromethane (-20.7%RSD), methyl acetate (-24.4%D), bromoform (-34.8%D), and 1,2,4-trichlorobenzene (-22.7%D). Therefore, results for these compounds which were nondetects, were considered estimated and qualified "UJ" for the affected 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 was not collected for 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 Event 10
LAB: TestAmerica (TA)
SDG: 680-90184-1
FRACTION: General Chemistry (sulfate and chloride - Method 300.0; nitrate and nitrite - Method 353.2)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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	NA	Coolers were received at 3.6°C on 5/10/13 by the laboratory. The samples were received in good condition based on the laboratory login report. All samples analyzed within the holding time.	No
Calibration	Yes	NA	All instrument calibrations were within specified limits.	No
Blanks	Yes	NA	No contamination was detected in the laboratory blanks. The equipment blank 25LM00110 did not contain chloride, sulfate, nitrate, or nitrite.	No
Laboratory Control Sample	Yes	NA	LCS/LCSD recoveries met the specified criteria.	No
Duplicates	Yes	NA	A field duplicate sample was not collected for this SDG. Laboratory duplicate analysis was performed on sample 25LM20097. All precision results were acceptable.	No
Spike Sample Analysis	Yes	NA	MS/MSD analyses were performed for 25LM00110. All precision and accuracy results were within criteria.	No

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Event 10
LAB: TestAmerica (TA)
SDG: 680-90184-1
FRACTION: Metals (iron and sodium)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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	NA	The cooler temperature was 3.6°C upon receipt by the laboratory. All samples were received in good condition based on the laboratory login report. Sample pH was below 2. Holding time met criteria.	No
Calibration	Yes	NA	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	NA	ICB, CCBs, and preparation blank did not contain iron and sodium. No rinsate blank was collected for this SDG.	No
Interference Check Sample	Yes	NA	Met requirements (80-120%) for iron and sodium.	No
CRQL Standard	Yes	NA	CRQL Check Standards performed and within QC limit of 70-130%R.	No
Laboratory Control Sample	Yes	NA	LCS results within limits (i.e., 80-120%) for iron and sodium.	No
Duplicates	Yes	NA	Laboratory duplicate analysis was conducted on a non-project sample. A field duplicate was not collected for this SDG.	No
Spike Sample Analysis	Yes	NA	MS/MSD analyses were conducted on a non-project sample.	No
ICP Serial Dilution	YES	NA	ICP serial dilution was conducted on a non-project sample.	No
Detection Limits	YES	NA	IDLs available used as reporting limits. IDLs of iron and sodium are less than CRDLs.	No
ICP Linear Range	YES	NA	All results within the ICP linear range.	No

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Event 10
LAB: TestAmerica (TA)
SDG: 680-90184-1
FRACTION: Methane, Ethane, Ethene (USEPA approved SOP RSK-175)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

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 3.6°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	MS/MSD samples were not collected and analyzed for this SDG.	No	

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Event 10
LAB: TestAmerica (TA)
SDG: 680-90184-1
FRACTION: Methane, Ethane, Ethene (USEPA approved SOP RSK-175)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 10

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS? Yes/No	Meet Criteria?	Comments	Qualifiers Added? Yes/No	Qualifying Actions
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?	No	All laboratory blanks ND for MEE. The equipment blank 25LM00110 contained methane at a concentration of 0.64 ug/L associated with all samples. Therefore, the methane results less than the validation action concentration were considered not detected and qualified "U".	Yes	"U" methane for sample 25LM20097
Sample Result Verification	Were results verified with instrument raw data?	Yes			
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	A field duplicate was not collected for this SDG.	No	

Notes:

1. All QA/QC limits from EPA Region 2 SOP HW-24, Revision 2. Sampling frequency and %RPD for field duplicates based on the Quality Assurance Plan.
2. If the SOP specified criteria are not met, samples will be qualified in accordance with the Region 2 SOP.
- 3 Spot check at least two positive values; verify that the values were correctly calculated based on internal standard, quantitation ion, and average initial RRF/CF.