REDACTED VERSION

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May 2, 2011

Project No.: 207-0016

Mr. Tom Harris, Administrator
Louisiana Department of Environmental Quality
UST and Remediation Services Division
Office of Environmental Assessment
Post Office Box 4312
Baton Rouge, Louisiana 70821-4312

Operation and Maintenance Report
First Quarter 2011
Delatte Metals Superfund Site
Ponchatoula, Tangipahoa Parish, Louisiana
Agency Interest No. 2328

Dear Mr. Harris:

SEMS, Inc. (SEMS) is hereby submitting an original and two copies of the attached quarterly Operation and Maintenance Report for the above referenced project and reporting period. A brief site history, summary of the current monitoring events, and recommendations are included in the attached report. This report was prepared in accordance with the bid specifications associated with state solicitation number 2241928 and state purchase order number 3657783. SEMS contract to performs Operations and Maintenance is set to expire on October 1, 2011, with two one year renewal options.

Should you have any questions or require additional information, please contact the undersigned at (504) 342-2340. **Please send any official correspondence regarding this site to Brian Sullivan at our corporate office address in Baton Rouge.**

Sincerely,
SEMS, Inc.

Jesse Hoppes, P.G.
Project Manager

Brian H. Sullivan, P.E.
Project Director

9791730

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OPERATION AND MAINTENANCE REPORT
DELATTE METALS SUPERFUND SITE

FIRST QUARTER 2011
AGENCY INTEREST NO. 2328

PREPARED FOR

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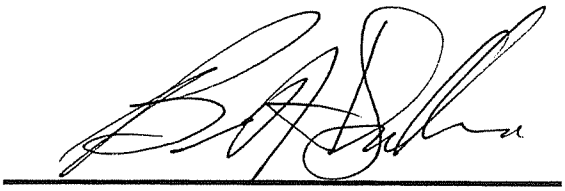

BRIAN H. SULLIVAN, P.E.
PROJECT DIRECTOR

MAY 2, 2011

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ATTACHMENT LETTER	TITLE
A	FIELD DATA SHEETS & WASTE MANIFESTS
B	LABORATORY ANALYTICAL REPORT
C	HISTORICAL CONCENTRATION VS. TIME GRAPHS
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1.0 INTRODUCTION AND BACKGROUND

SEMS, Inc. (SEMS) was selected by the Louisiana Department of Environmental Quality (LDEQ) for the continued Operations and Maintenance (O&M) at the Delatte Metals Superfund Site, in Tangipahoa Parish, Ponchatoula, Louisiana in accordance with the bid specifications associated with state solicitation number 2241928 and purchase order number 3657783. The Delatte Metals Superfund Site is currently under quarterly O&M including groundwater sampling to determine if constituents of concern (COCs) remediated at the site are in a declining condition and to ensure that COCs are not migrating horizontally past the permeable reactive barrier (PRB) or vertically into lower water bearing zones. This report summarizes the site activities conducted during this quarter. A facility map depicting the well locations and site features is presented as Figure 1. A brief status and history of the site are provided below.

The physical location of the site is approximately 5.5 miles south-southeast of Hammond, Louisiana, 1.5 miles southeast of Ponchatoula, Louisiana, and adjacent to the new Delatte Recycling, LLC whose physical address is 19113 Weinberger Road, Ponchatoula, Louisiana. The site lies to the north of the Weinberger Road, in a rural area with numerous residences within a one-mile radius of the site. The latitude and longitude for the site are 30°25'16"N and 90°24'39"W, respectively. The site is bounded by Weinberger Road followed by residences to the south, drainage ditches and residence to the north and east, and Selser's Creek and a residence to the west.

According to previous reports, the 19-acre Delatte Metals Superfund Site includes the Delatte Metals, Inc. facility and the abandoned North Ponchatoula Battery Facility which performed identical lead salvage operations and generated the same type of waste. Delatte Metals, Inc. operated a lead smelter to recover additional lead materials began operation in the early 1970's as the Fuscia Battery Company, and ceased operations in 1993. The Ponchatoula Battery Company moved its operation adjacent to the Delatte and Fuscia Battery Company between 1972 and 1978.

During LDEQ and EPA investigations, discharge from the facilities showed a pH range from 0.55 to 2 standard units (s.u.). Analytical samples from on-site soil and groundwater samples

indicated the presence of heavy metals including Lead, Arsenic, and Cadmium. An observed release of Lead and Cadmium to Selser's Creek was documented by the analytical data from the sediment samples collected at three probable points of entry.

Remedial action (RA) operations began on November 18, 2002, and the implementation was completed on September 22, 2003. During the RA, the principle threat wastes were excavated, immobilized, and transported off-site for disposal. A permeable reactive barrier wall (PRB) was installed to neutralize the acidity of the shallow water-bearing zone and limit the migration of dissolved metals. A groundwater monitoring program was put in place to ensure the effectiveness of the selected remedy. Long-term groundwater monitoring of approximately 31 monitoring and water wells includes sampling to determine the groundwater pH downgradient of the PRB and metal concentrations in site groundwater. For the RA to be effective the groundwater downgradient of the PRB should be approaching pH neutrality and the metal concentrations in groundwater should demonstrate either a stable or preferably decreasing trend.

Three distinct and local water bearing zones (WBZ) were identified at the site during previous investigations. The three WBZ are located at the site from ground surface to approximately 100 feet below ground surface (ft-bgs).

- The First WBZ is generally found between 5 and 15 ft-bgs. This zone is semi-confined on its sides and is overlain by sandy/silty clay across the northern section of the site. During the Remedial Investigation (RI), a clay unit was encountered underneath this First WBZ. Currently nine monitor wells are screened in this zone. This WBZ was previously classified according to RECAP as a Class 3B aquifer.

- The Second WBZ encountered at the site generally consists of intermittent layers of gray, tan, and orange clayey silt. At various locations, this WBZ is typically encountered between 15 and 40 ft-bgs. The Second WBZ appears to be confined and relatively continuous across the site. Currently 13 monitor wells are screened in this zone. This WBZ was previously classified according to RECAP as a Class 2C aquifer.

- The Third WBZ encountered at the site consists of light brown to gray silty sand and sand. During the RI, this Third WBZ was encountered between 58 and 62 ft-bgs, extending to the maximum depth of the site borings (100 ft-bgs). The Third WBZ appears to be confined and continuous across the site. There are currently four monitor wells screened in this zone. This WBZ was previously classified according to RECAP as a Class 1B aquifer.

The monitor wells installed in these WBZs and their construction details are summarized in Table 1. Underneath the three local WBZs identified at the site are three regional aquifers: The Shallow Aquifer (also known as the Upland Terrace Aquifer), the Ponchatoula Aquifer (which is subdivided into two units: the upper and lower Ponchatoula Aquifers), and the Tchefuncte Aquifer. Five water wells are also being sampled from below the third water bearing zone and a summary of the water well characteristics is provided as Table 2.

2.0 CHRONOLOGY OF EVENTS

A chronology of events is as follows:

- October 26, 2010 – SEMS received award for O&M from LDEQ.
- November 15, 2010 – SEMS attended the Post-Award Conference with the LDEQ to discuss upcoming site activities.
- December 1, 2010 – SEMS submitted the draft Quality Assurance Project Plan (QAPP) for Delatte Metals to the LDEQ.
- December 13 through 15, 2010 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- January 31, 2011 – SEMS submitted the Final QAPP for Delatte Metals to LDEQ for approval.
- January 31, 2011 – SEMS submitted the Fourth Quarter 2010 Operation and Maintenance Report to LDEQ for approval.
- February 14 through 16, 2011 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- March 15, 2011 – LDEQ requested updates to the QAPP submitted on January 31, 2011.

- April 29, 2011 – SEMS submitted an updated QAPP for Delatte Metals based on LDEQ's request.
- April 29, 2011 – SEMS submitted the First Quarter 2011 Operation and Maintenance Report to LDEQ for approval.

3.0 OPERATION AND MAINTENANCE ACTIVITIES

On February 14, 2011 through February 16, 2011 SEMS mobilized to the site and performed quarterly groundwater sampling, including the inspection of the monitor wells and the PRB. Details of activities performed at the site are summarized below.

3.1 ACCESS TO WELLS

The wells were cleared prior to this sampling event. Additional clearing was performed during the sampling event to provide access to the wells.

3.2 MONITOR WELL INSPECTION

The monitor wells were inspected during the groundwater sampling event for damage. Table 1 includes a listing of the monitoring wells at the site, and Figure 1 shows the locations of the wells. The monitor well inspection checklist is included with the field data in Attachment A.
The following were repaired during this visit:

- BA-01 - Lock was replaced
- BC-21R - Well cover was painted
- BC-25 - Well cover was painted

The following observations were made and should be monitored or repaired during the upcoming visit:

- The concrete pad around DW-02 is cracking and will be monitored to determine if the pad needs to be replaced.

3.3 PERMEABLE REACTIVE BARRIER (PRB) INSPECTION

The PRB has been cleared by the LDEQ Contractor and was inspected. The following locations surface elevations were found to be lower in grade relative to the surrounding PRB during the sampling event:

- Area around monitoring well MW-02
- Area near the bend southeast of monitoring well MW-01
- North of MW-A, a 5 foot by 5 foot patch of land with no vegetation.

On March 2, 2011, SEMS mobilized to site, met with LDEQ, and filled the areas of the PRB that were low. A total of 84 cubic yards of fill was added to the PRB. The PRB will continue to be inspected quarterly to determine if fill material is needed.

3.4 REVIEW OF INSTITUTIONAL CONTROLS

Inspections were made of deed files 650403, 674854, and 674853 online at the Tangipahoa website (www.tangiclerk.org) for the institutional controls limiting site reuse to an industrial scenario at the Tangipahoa Parish Clerk of Court. A review of these files showed that they are still on file with the Tangipahoa Parish Clerk of Court.

3.5 GROUNDWATER MONITORING, SAMPLING, AND ANALYTICAL PROCEDURES

During the quarterly sampling events a total of 26 monitoring wells and five (5) water wells were sampled. Some of these water wells are drinking water wells located at residences. It should be noted that the location of the (b) (6) WELL was not added to the map, but is located 400 feet east of WW-04.

The monitoring wells were located and opened to allow for water level equilibration. After equilibration, depth-to-water was measured to the nearest one-hundredth of a foot, with an interface probe. The interface probe was decontaminated prior to on-site work, between each

well, and after fluid level measurements were completed. Fluid level measurements are summarized in Table 3.

Following gauging, the wells were purged via low flow micro purging technique with a peristaltic pump (Geopump) using dedicated tubing. The purge rates were maintained between 0.1 and 0.5 liters per minute and are recorded on the field forms. The water quality readings were taken from the low flow cell. Groundwater samples were collected following the stabilization of at least three of the following the water parameters including temperature, pH, conductivity, turbidity, oxidation–reduction potential, and dissolved oxygen which are summarized on Table 3. The five (5) water wells were sampled after the water was allowed to flow for 20 minutes.

Groundwater samples were collected before the low flow cell and the water was placed in laboratory supplied, pre-preserved containers. Quality Assurance/Quality Control (QA/QC) samples were also collected that included four duplicates, two matrix spikes, and two matrix spike duplicates. The groundwater and QA/QC sample containers were labeled and placed in a cooler on ice for transportation to SPL/Accutest Laboratories in Scott, Louisiana for analysis. The samples were shipped accompanied by proper chain-of-custody documentation.

Groundwater samples were analyzed for Total Metals including arsenic, cadmium, lead, manganese, nickel, thallium, and zinc via method SW6020 or SW6010. Monitor wells MW-04, BA-01 and BA-03A had a turbidity reading above 10 NTU during sampling and an additional sample was field filtered and analyzed for dissolved metals. Dissolved metal analytical results were used to supersede the total metals results on the figures attached and for the historical graphs. Summaries of groundwater analytical data are provided in Table 4 and are further discussed in Section 4.0. A copy of the laboratory reports and chain-of-custody documentation are included in Attachment B.

Groundwater collected at the site during low-flow sampling was contained in a 55-gallon plastic drum and stored at the site south of the "North Well" water well. The personal protective equipment, tubing, and other disposable material that contacted the groundwater at the site are

stored in a 55-gallon metal drum. When applicable, copies of drum disposal manifests are included in Attachment A. No drums were disposed of during this period.

It should be noted that additional drums and investigation derived waste is located adjoining the drum storage area that were not generated by SEMS. This waste has been sampled by the United States Geological Survey (USGS) and a disposal date has not been set.

4.0 ANALYTICAL DATA REVIEW

Below is a summary of SEMS review of the potentiometric and analytical data collected during the current quarter.

4.1 CURRENT MONITORING PERIOD GROUNDWATER FLOW DIRECTION

Potentiometric maps were prepared for each of the three WBZ. The First, Second, and Third WBZ potentiometric maps are presented as Figures 2A, 2B, and 2C respectively. Potentiometric maps show that the groundwater flow direction for this quarter as described below:

First WBZ: The groundwater flow direction appears to be to the north to northwest towards the unnamed creek that flows into Selser's Creek.

Second WBZ: The groundwater flow direction appears to be to the north to northwest towards the unnamed creek that flows into Selser's Creek in the area of the PRB. In the area just north of the current Delatte Metals facility, the groundwater trends to the west towards Selser's Creek.

Third WBZ: The groundwater flow direction appears to be to east.

The current period groundwater flow directions are consistent with historic monitoring results and the directions of flow have not changed.

4.2 CURRENT PERIOD CONSTITUENT CONCENTRATION

A file review was performed and only Site Cleanup levels for pH and lead were found. The lead and pH Site Cleanup levels according to the QAPP prepared for the EPA in September 28, 2004 were 0.015 mg/L and 7.0 s.u., respectively. Since a perfect pH of 7.0 s.u. is not practically obtainable, SEMS recommends that an alternative pH be used for the acceptable pH level. The EPA acceptable range for drinking water is 6.5-8.5 s.u. and the acceptable EPA range for storm water discharge is 6.0-9.0 s.u. SEMS will evaluate the First WBZ using the 6.0-9.0 s.u. range for pH since the groundwater of this zone is classified as Groundwater Class 3B. The Second WBZ, Third WBZ, and Water Wells are classified as Groundwater Class 1 and 2 aquifers and their pH should be evaluated using the 6.5-8.5 s.u. range for pH. According to the LDEQ, the LDEQ RECAP Screening Standards (SS) should be used for comparison to the other site COCs.

Below is a brief summary of all COCs exceeding the applicable site SS:

The following wells were outside their pH evaluation:

- **First WBZ**: All monitor wells in the First WBZ were below the pH range of 6.0-9.0 s.u.; with pH readings of 2.89 to 5.56 s.u.
- **Second WBZ**: Monitor wells BA-01, and BA-05 were below the pH range of 6.5-8.5 s.u. with the minimum pH reading of 6.06 s.u. in BA-01.
- **Third WBZ**: Monitor well BB-01 was above the pH range of 6.5-8.5 s.u. with a pH reading of 9.86 s.u..
- **Water Wells**: Water wells WW-04, North Well, and South Well were above the pH range of 6.5-8.5 s.u. with a maximum pH reading of 9.00 s.u. in the South Well.

The following wells had arsenic concentrations reported above its RECAP SS of 0.010 mg/L:

- **First WBZ**: DW-01, DW-02, DW-03, MW-01, and BA-09 were above the arsenic RECAP SS; the highest arsenic concentration was reported to be 0.0819 mg/L in monitoring well DW-01.

- **Second WBZ**: BA-05 was above the arsenic RECAP SS with a concentration of 0.0162 mg/L.
- **Third WBZ**: No monitor wells sampled were reported above the arsenic RECAP SS. The highest arsenic concentration was reported to be 0.00706 mg/L in monitor well BA-01A.
- **Water Wells**: No water wells sampled were reported above the arsenic RECAP SS; the highest arsenic concentration was reported to be 0.00186 mg/L in the (b) (6) Well.

The following wells had cadmium concentrations reported above its RECAP SS of 0.005 mg/L:

- **First WBZ**: DW-01, DW-02, DW-03, MW-02, MW-06, and BA-03 were above the cadmium RECAP SS. The highest cadmium concentration was reported to be 0.230 mg/L in monitor well DW-03.
- **Second WBZ**: No monitor wells sampled were reported above the cadmium RECAP SS. The highest cadmium concentration was reported to be 0.00104 mg/L in monitor well BA-01.
- **Third WBZ**: No monitor wells sampled were reported above the cadmium RECAP SS. The highest cadmium concentration was reported to be 0.000969 mg/L in monitor well BA-03A.
- **Water Wells**: No water wells sampled were reported above the cadmium RECAP SS. All concentrations were reported to be non-detect.

The following wells had lead concentrations reported above the site cleanup level of 0.015 mg/L:

- **First WBZ**: DW-03 and BA-03 were reported above the site cleanup level for lead. The highest lead concentration was reported to be 0.407 mg/L in the monitor well DW-03.
- **Second WBZ**: BC-17 was above RECAP SS with a concentration of 0.0243 mg/L.
- **Third WBZ**: No monitor wells sampled were reported above the site cleanup level for lead. The highest lead concentration was reported to be 0.00571 mg/L in monitor well BB-01.

- **Water Wells**: No water wells sampled were reported above the site cleanup level for lead. The highest lead concentration was reported to be 0.00341 mg/L in the (b) (6) well.

The following wells had manganese concentrations reported above its RECAP SS of 0.51 mg/L:

- **First WBZ**: All monitor wells in the First WBZ, were reported above the manganese RECAP SS; the highest manganese concentration was reported to be 12.9 mg/L in monitor well DW-02.
- **Second WBZ**: BA-01, and BA-05 were reported above the manganese RECAP SS; the highest manganese concentration was reported to be 18.5 mg/L in monitor well BA-05.
- **Third WBZ**: No monitor wells sampled were reported above the manganese RECAP SS; the highest manganese concentration was reported to be 0.0395 mg/L in monitor well BA-03A.
- **Water Wells**: No water wells sampled were reported above the manganese RECAP SS; the highest manganese concentration was reported to be 0.0230 mg/L in the (b) (6) Well.

The following wells had nickel concentrations reported above its RECAP SS of 0.073 mg/L:

- **First WBZ**: DW-02, MW-01, and BA-09 were reported above the nickel RECAP SS; the highest nickel concentration was reported to be 0.575 mg/L in monitor well DW-02.
- **Second WBZ**: BA-05 was reported above the nickel RECAP SS with a nickel concentration of 0.0806 mg/L.
- **Third WBZ**: No monitor wells sampled were reported above the nickel RECAP SS; the highest nickel concentration was reported to be 0.00363 mg/L in monitor well BA-03A.
- **Water Wells**: No water wells sampled were reported above the nickel RECAP SS; the highest nickel concentration was reported to be 0.00204 mg/L at the South Well.

The following wells had thallium concentrations reported above the RECAP SS of 0.0020 mg/L:

- **First WBZ**: DW-02 and MW-01 were reported above the thallium RECAP SS; the highest thallium concentration was reported to be <0.01 mg/L at DW-02.
- **Second WBZ**: No monitor wells sampled were reported above the thallium RECAP SS; the highest thallium concentration was reported to be 0.000592 mg/L at MW-04.
- **Third WBZ**: No monitor wells sampled were reported above the thallium RECAP SS; the highest thallium concentration was reported to be 0.000364 mg/L at BA-03A.
- **Water Wells**: No water wells sampled were reported above the thallium RECAP SS; the highest thallium concentration was reported to be 0.000413 mg/L in WW-04.

The following wells had zinc concentrations reported above the RECAP SS of 1.1 mg/L:

- **First WBZ**: DW-02 was reported above the zinc RECAP SS with a zinc concentration of 1.41 mg/L.
- **Second WBZ**: No monitor wells were reported above the zinc RECAP SS; the highest zinc concentration was reported to be 0.051 mg/L in monitor well BA-01.
- **Third WBZ**: No monitor wells were reported above the zinc RECAP SS; the highest zinc concentration was reported to be 0.00690 mg/L in monitor well BB-01.
- **Water Wells:** No water wells sampled were reported above the zinc RECAP SS; the highest zinc concentration was reported to be 0.00368 mg/L at the (b) (6) Well.

Analytical results for this quarter are summarized in Table 4. Isoconcentration maps prepared for each WBZ and the water wells are presented as Figures 3A through 10D. Following a review of the isoconcentration maps the following constituents were found to not be horizontally delineated to their applicable site SS:

- The First WBZ – pH, arsenic, cadmium, lead, manganese, nickel, and zinc. Thallium also exceeded for screening standards only.

- The Second WBZ – pH and manganese
- The Third WBZ – pH
- The Water Wells – pH

The EPA has contracted the USGS to continue with this sampling and reporting of the downgradient PRB piezometers. The USGS is submitting this data to the EPA for review.

4.3 HISTORICAL GROUNDWATER MONITORING TRENDS

A historical summary of the past eight quarters groundwater analytical and potentiometric data is presented in Table 5. Historical data trend graphs are presented in Attachment C that show pH, arsenic, cadmium, lead, manganese, nickel, thallium, and zinc concentrations over time. For samples reported below laboratory detection limits, the reporting detection limit was used for graphing purposes. The historical data trend graphs were completed in Excel and a linear regression trendline was generated by Excel using at most the previous eight quarters of data for each COC. Following eight quarters of data collection cadmium and zinc trends will also be reviewed and discussed below.

Only those wells with at least two quarters of analytical data exceeding site cleanup or RECAP SS are considered in the trend evaluation below: A review of the graphs and evaluation of constituent trends provides the information below:

First WBZ Trends

The following exceeding constituent concentration trends were observed in the following wells:

Lead: Increasing: DW-03
Decreasing: BA-03

Arsenic: Decreasing: DW-01, DW-02, DW-03, MW-01, BA-03, and BA-09

Manganese: Increasing: MW-06
Stable: DW-01, DW-02, and MW-01
Decreasing: DW-03, MW-02, PW-04, BA-03, and BA-09

Nickel: Stable: DW-02, MW-01

Decreasing: DW-03, MW-02, BA-03, and BA-09

Thallium: No exceedances observed for any two of the previous eight quarters sampled.

pH: Below 6.0 s.u. and increasing: MW-02

Below 6.0 s.u. and stable: DW-01, DW-02, MW-01, MW-06, PW-04, BA-03, and BA-09

Below 6.0 s.u. and decreasing: DW-03

Second WBZ Trends

The following exceeding constituent concentration trends were observed in the following wells:

Lead: Stable: BC-17

Arsenic: Decreasing: BA-01

Manganese: Increasing: BA-05

Stable: BA-01

Decreasing: MW-03

Nickel: Increasing: BA-05

Thallium: No exceedances observed for any two of the previous eight quarters sampled.

pH: Below 6.5 s.u. and increasing: MW-04

Below 6.5 s.u. and stable: BA-05

Below 6.5 s.u. and decreasing: BA-01

Third WBZ Trends

The following exceeding constituent concentration trends were observed in the following wells:

Lead, Arsenic, Manganese, Nickel, and Thallium: No metals exceedances observed for any two of the previous eight quarters sampled.

pH: Above 8.5 s.u. and stable: BB-01

Water Well Trends

The following exceeding constituent concentration trends were observed in the following wells:

Lead, Arsenic, Manganese, Nickel, and Thallium: No exceedances observed for any two of the previous eight quarters sampled.

pH: Above 8.5 s.u. and increasing: WW-04

Above 8.5 s.u. and stable: North Well and South Well

Above 8.5 s.u. and decreasing: WW-09

First Water Bearing Zone and PRB Observations

Long term trends of monitor wells in the first water bearing zone were evaluated from 2006 to present to determine if the PRB is working to increase the pH towards neutrality. Upgradient wells (BA-03 and DW-02) and downgradient wells (MW-01 and DW-01) were chosen to evaluate the effectiveness of the PRB. Additionally a monitor well (DW-03) was evaluated as it is on the outside of the PRB. These graphs are included in Attachment C. The following significant long term observations have been noted:

- The upgradient monitor wells (BA-03 and DW-02) show that the pH has been decreasing since 2006.
- The monitor well outside of the PRB (DW-03) is also showing decreasing trends for pH since 2006.
- The monitor well DW-01 shows that the PRB is increasing the pH at this location since 2006.
- The monitor well MW-01 shows that the PRB has no apparent effect on this downgradient well. The pH at this location appears to be decreasing since 2006 and may be affected by another source.

It should be noted that additional information on the PRB and downgradient monitoring and sampling is being performed by the USGS. This additional information can be used to make a better determination on the effectiveness of the PRB.

Water Well Observations

Since the pH in the water wells evaluated offsite have had exceedances for pH, the trends for pH have been evaluated from 2006 to present for WW-09 and WW-04 and from 2008 to present for the (b) (6) Well to see if there were long term observations. These additional graphs can be seen following the water well graphs in Attachment C. The trend for WW-09 shows that the pH is decreasing (8.5-7.9) and approaching neutrality while the pH of WW-04 and the (b) (6) Well are both increasing (8.3 s.u-9.0 s.u.) and (7.9s.u. to 8.2 s.u.) respectively. The groundwater in the

third water bearing zone flows to the east. The cause for the changes in the pH at these water wells is unknown.

4.4 QUALITY ASSURANCE/QUALITY CONTROL AND UNUSUAL FINDINGS

A summary of QA/QC samples collected is included in the field data sheets presented in Attachment A. Blank samples included Duplicate #1 (DW-04), Duplicate #2 (BA-01A), Duplicate #3 (DW-02), and Duplicate #4 (MW-02). All data sets were accepted. Full laboratory analytical reports are included in Attachment B. Each laboratory analytical report includes laboratory QA/QC documentation.

The analytical data was reviewed by Intergrate, Inc, a third party data validator. Intergrate, Inc. reviewed ten percent of the samples analyzed including samples BC-07, South Well, WW-09, and BC-25. The data validation report had the following changes to results of this report:

- Results for lead that were below 0.0076 mg/L were qualified for blank contamination.
- Results for thallium that were below 0.0046 mg/L were qualified for blank contamination.
- Results for zinc that were below 0.025 mg/L were qualified for blank contamination.
- SPL reported the monitor well BC-07 lead result as 0.00137 mg/L with a J flag and the validated result was <0.00137 mg/L with a J flag.
- SPL reported the monitor well BC-07 thallium result as 0.000413 mg/L with a J flag and the validated result was <0.002 mg/L.
- SPL reported the monitor well BC-07 zinc result as 0.00661 mg/L with a J flag and the validated result was <0.01 mg/L.
- SPL reported the monitor well BC-25 lead result as 0.000836 mg/L with a J flag and the validated result was <0.001 mg/L.
- SPL reported the monitor well BC-25 thallium result as 0.000414 mg/L with a J flag and the validated result was <0.002 mg/L.

- SPL reported the monitor well BC-25 zinc result as 0.00408 mg/L with a J flag and the validated result was <0.01 mg/L.
- SPL reported the monitor well South Well lead result as 0.000851 mg/L with a J flag and the validated result was <0.001 mg/L.
- SPL reported the monitor well South Well thallium result as 0.00041 mg/L with a J flag and the validated result was <0.002 mg/L.
- SPL reported the monitor well South Well zinc result as 0.003 mg/L with a J flag and the validated result was <0.01 mg/L.
- SPL reported the monitor well WW-09 lead result as 0.00123 mg/L with a J flag and the validated result was <0.00123 mg/L with a J flag.
- SPL reported the monitor well WW-09 thallium result as 0.000414 mg/L with a J flag and the validated result was <0.002 mg/L.
- SPL reported the monitor well WW-09 zinc result as 0.00376 mg/L with a J flag and the validated result was <0.01 mg/L.

The tables and graphs have been updated to reflect these changes. The figures present the data as provided by SPL. No major discrepancies were found in the data validation report, which is included in Attachment D. The Level IV analytical report is attached to this report with a compact disk (CD) in an electronic format as requested by LDEQ.

The following unusual findings were noted during this report:

- The analytical result from monitor wells DW-02 and MW-01 were reported non-detect with detection limits above the RECAP SS for thallium. The laboratory, SPL, has had difficulties with matrix interference (interference with the internal standard or standards associated with a particular metal) for this sample. This sample was diluted in order to reduce the interference.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are based on evaluation of data presented within this groundwater monitoring report.

- SEMS recommends continuing with quarterly O&M.

TABLES

TABLE 1
MONITORING WELL CONSTRUCTION DATA

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Well ID	Northing	Easting	Latitude	Longitude	Well Diameter (inches)	Total Well Depth (ft bgs)	Top of Casing Elevation (NGVD)	Ground Surface Elevation (NGVD)	Sereened Interval Elevation (NGVD)	Sreeened Interval (ft bgs)
First Water-Bearing Zone										
DW-1	701226.57	3571439.3	30° 25' 30"	90° 24' 41"	2	19	13.36	12.03	3.5 to -6.5	8.5 to 18.5
DW-2	700994.96	3571554.5	30° 25' 28"	90° 24' 39"	2	11	14.12	12.65	7.2 to 2.2	5.5 to 10.5
DW-3	701096.8	3571730.9	30° 25' 29"	90° 24' 37"	2	16	11.59	10.09	4.6 to -5.4	5.5 to 15.5
MW-1	701242.6	3571218.6	30° 25' 30"	90° 24' 43"	2	28.5	15.08	13.58	0.6 to -14.4	13.0 to 28.0
MW-2	700954.99	3571119.9	30° 25' 27"	90° 24' 44"	2	10.5	14.23	11.79	6.8 to 1.8	5.0 to 10.0
MW-6	700833.83	3571351.4	30° 25' 26"	90° 24' 42"	2	16.5	16.77	15.17	NA	NA
MW-7*	701240.79	3571056.2	30° 25' 30"	90° 24' 45"	2	15	8.21	6.01	NA	NA
PW-4	701018.61	3571950.1	30° 25' 28"	90° 24' 35"	2	19.5	12.22	8.96	NA	NA
BA-03	701018.61	3571248.6	30° 25' 28"	90° 24' 43"	2	13.5	14.57	11.8	8.80 to -1.20	3.0 to 13.0
BA-09	701286.58	3571522.6	30° 25' 31"	90° 24' 40"	2	18.0	9.46	8.10	0.60 to -9.40	7.5 to 17.5
BC-31*	701305.48	3571090.6	30° 25' 31"	90° 24' 48"	2	16	11.36	8.75	3.25 to -6.75	5.5 to 15.5
Second Water-Bearing Zone										
DW-4	7000081.4	3571557.4	30° 25' 19"	90° 24' 39"	2	38	14.21	13	-14.5 to -24.5	27.5 to 37.5
MW-A	701114.99	3571481.7	30° 25' 29"	90° 24' 40"	2	27.0	15.12	12.35	-4.2 to -14.2	16.5 to 26.5
MW-3	700801.96	3571573.60	30° 25' 26"	90° 24' 39"	2	27.5	14.8	12.83	-4.2 to 14.2	17.0 to 27.0
MW-4	701248.27	357817.05	30° 25' 30"	90° 24' 36"	2	24.0	17.38	14.67	1.2 to -8.8	13.5 to 23.5
MW-5*	701508.89	3571524.3	30° 25' 33"	90° 24' 40"	2	20.0	11.43	8.89	-5.6 to -10.6	14.5 to 19.5

Notes: 1) ft bgs = Feet below ground surface
2) ID = Identification
3) NA= Not available
4) NGVD = National Geodetic Vertical Datum
5) * = Well Plugged and Abandoned by the EPA

TABLE 1
MONITORING WELL CONSTRUCTION DATA

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Well ID	Northing	Easting	Latitude	Longitude	Well Diameter (inches)	Total Well Depth (ft bgs)	Top of Casing Elevation (NGVD)	Ground Surface Elevation (NGVD)	Sereened Interval Elevation (NGVD)	Sreeened Interval (ft bgs)
Second Water-Bearing Zone										
BA-01	700965.85	3571654	30° 25' 27"	90° 24' 38"	2	26.0	14.57	11.48	-4.02 to -14.02	15.5 to 25.5
BA-05	701084.30	3571574.7	30° 25' 29"	90° 24' 39"	2	18.5	14.20	11.02	3.02 to -6.98	8.0 to 18.0
BA-09A	701290.47	3571515.1	30° 25' 31"	90° 24' 40"	2	42.0	11.10	7.92	-23.58 to -33.58	31.5 to 41.5
BC-01*	699516.45	3571517.6	30° 25' 13"	90° 24' 40"	2	26.5	15.99	13.35	-2.65 to -12.65	16.0 to 26.0
BC-03	699684.61	3571900.1	30° 25' 15"	90° 24' 36"	2	28.0	16.32	13.78	-3.72 to -13.72	17.5 to 27.5
BC-07	699855.32	3571454.1	30° 25' 16"	90° 24' 41"	2	18.5	11.37	8.19	0.19 to -9.81	8.0 to 18.0
BC-11*	699967.64	3571524.00	30° 25' 18"	90° 24' 40"	2	28.5	15.72	12.53	-5.47 to -15.47	18.0 to 28.0
BC-17	700232.77	3571685.2	30° 25' 20"	90° 24' 38"	2	28.0	15.18	12.22	-5.28 to -15.28	17.5 to 27.5
BC-19	700257.08	3571479.8	30° 25' 20"	90° 24' 40"	2	22.5	13.85	10.92	-1.08 to -11.08	12.0 to 22.0
BC-21R	700499.25	3571655.5	30° 25' 23"	90° 24' 38"	2	17.5	15.28	12.62	0.62 to -4.38	12.0 to 17.0
BC-25	700599.29	3571504.10	30° 25' 24"	90° 24' 40"	2	32.0	15.73	12.66	-8.84 to -18.84	21.5 to 31.5
BC-27*	700721.57	3571738.1	30° 25' 25"	90° 24' 37"	2	28.0	15.91	13.04	-4.46 to -14.46	17.5 to 27.5
Third-Water-Bearing Zone										
BA-03A	701004.96	3571249.7	30° 25' 43"	90° 24' 43"	2	100.0	14.76	11.72	-77.78 to -87.78	89.5 to 99.5
BA-05A	701085.48	3571565.3	30° 25' 29"	90° 24' 39"	2	54.0	14.42	11.16	-24.84 to -28.34	36.0 to 39.5
BB-01	699827.30	3571572.4	30° 25' 16"	90° 24' 39"	2	96.0	15.75	12.69	-72.81 to -82.81	85.5 to 95.5
BA-01A	700957.45	3571661.4	30° 25' 27"	90° 24' 38"	2	46.0	15.03	11.61	-23.89 to -33.89	35.5 to 45.5

Notes: 1) ft bgs = Feet below ground surface
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3) NA= Not available
4) NGVD = National Geodetic Vertical Datum
5) * = Well Plugged and Abandoned by the EPA

TABLE 2
WATER WELL CONSTRUCTION DATA

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Well ID	Address	Depth (feet)	Date Installed
WW-04[1]	39229 Keaghey Road Ponchatoula, LA 70454	Unknown	Unknown
WW-09[1]	39233 Keaghey Road Ponchatoula. LA70454	60	10/94
North Well[1]	19119 Weinberger Road Ponchatoula. LA 70454	Unknown	Unknown
South Well[1]	19113 Weinberger Road Ponchatoula, LA 70454	Unknown	Unknown
(b) (6) Well[2]	Keaghey Road Ponchatoula. LA70454	Unknown	Unknown

Notes:
[1] Designations for water wells were obtained from the Delatte Metals Remedial Investigation Report (Tetra Tech 2000).
[2] Designation was assigned based on current owners name.

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature °C	Specific Conductivity mS/sec	Dissolved Oxygen (mg/L)	pH Standard Unit	ORP Eh	Turbidity NTU
FIRST WATER-BEARING ZONE									
DW-01									
May-09	13.36	10.97	2.39	20.36	0.585	0.45	5.71	-121	4.6
August-09	13.36	11.70	1.66	24.78	0.537	0.34	5.60	3	6.9
December-09	13.36	9.68	3.68	19.93	1.388	1.95	5.16	6.4	15.02
February-10	13.36	8.96	4.40	16.92	0.717	2.90	5.19	213	27.8
April-10	13.36	11.10	2.26	18.40	0.604	0.45	5.53	129	24.8
August-10	13.36	9.25	4.11	24.81	1.152	0.26	5.60	-44	9.5
December-10	13.36	11.83	1.53	21.36	0.565	0.65	5.66	-23	9.0
February-11	13.36	11.40	1.96	18.30	0.858	1.27	5.56	-97	9.7
DW-02									
May-09	14.12	4.51	9.61	24.87	7.26	0.36	2.90	-46	0.0
August-09	14.12	6.13	7.99	30.01	7.73	0.28	3.06	103	1.4
December-09	14.12	3.90	10.22	18.34	5.72	2.16	2.90	253.8	5.56
February-10	14.12	3.84	10.28	14.70	6.84	0.26	3.20	157	3.0
April-10	14.12	4.88	9.24	14.50	7.48	0.91	3.06	183	2.4
August-10	14.12	3.90	10.22	29.41	4.94	0.38	2.82	114	0.0
December-10	14.12	5.37	8.75	18.04	8.00	1.26	2.81	252	5.51
February-11	14.12	4.25	9.87	14.76	7.05	3.01	2.89	236	6.0
DW-03									
May-09	11.59	5.49	6.10	21.44	1.116	0.27	3.74	-113	0.0
August-09	11.59	7.07	4.52	25.00	1.42	0.28	3.79	49	1.1
December-09	11.59	4.92	6.67	19.19	0.198	2.08	4.02	299.2	3.59
February-10	11.59	4.80	6.79	14.92	0.370	1.46	3.88	461	9.9
April-10	11.59	5.58	6.01	18.74	2.84	0.22	3.76	-4	3.2
August-10	11.59	5.05	6.54	25.50	0.247	0.20	3.52	-112	1.2
December-10	11.59	6.44	5.15	19.33	0.638	1.16	3.40	407	3.30
February-11	11.59	5.66	5.93	16.38	0.735	1.09	3.68	364	4.3
MW-01									
May-09	15.08	13.28	1.80	19.87	6.07	0.42	3.11	-32	0.0
August-09	15.08	14.01	1.07	22.69	5.23	0.39	3.33	94	1.7
December-09	15.08	12.64	2.44	19.62	4.849	1.79	3.43	177.9	2.54
February-10	15.08	12.64	2.44	18.67	4.53	0.45	3.11	152	2.9
April-10	15.08	13.81	1.27	19.19	5.08	0.43	3.46	7	0.1
August-10	15.08	12.05	3.03	22.41	5.16	0.26	3.27	79	1.6
December-10	15.08	14.30	0.78	20.81	4.36	0.25	3.37	100	2.0
February-11	15.08	14.55	0.53	19.65	4.41	1.56	3.40	18	2.1
MW-02									
May-09	14.23	7.14	7.09	23.7	1.662	NA	3.05	221	0.01
August-09	14.23	8.37	5.86	26.33	1.78	0.33	3.04	260	1.3
December-09	14.23	6.53	7.70	17.69	1.745	2.34	3.16	353.9	2.45
February-10	14.23	6.50	7.73	15.45	1.73	0.47	2.92	388	5.5
April-10	14.23	7.25	6.98	18.92	1.62	0.32	3.39	320	0.6
August-10	14.23	6.95	7.28	29.59	1.75	2.33	3.40	183	3.4
December-10	14.23	8.06	6.17	20.33	1.238	0.46	3.15	424	2.5
February-11	14.23	7.28	6.95	15.96	1.208	2.08	3.23	445	4.5
MW-06									
May-09	16.77	8.36	8.41	20.04	0.675	0.33	3.72	135	0.0
August-09	16.77	10.41	6.36	23.66	0.499	0.31	3.89	306	5.8
December-09	16.77	6.59	10.18	17.58	0.568	2.25	3.72	401.2	4.68
February-10	16.77	6.48	10.29	15.13	0.549	0.69	3.92	376	2.1
April-10	16.77	8.21	8.56	17.17	0.479	0.36	3.90	329	3.0
August-10	16.77	8.41	8.36	22.43	0.773	0.48	3.30	138	4.3
December-10	16.77	9.38	7.39	18.73	0.799	0.50	3.81	367	3.5
February-11	16.77	8.19	8.58	16.86	0.718	0.62	3.61	424	6.0

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature °C	Specific Conductivity mS/sec	Dissolved Oxygen (mg/L)	pH Standard Unit	ORP Eh	Turbidity NTU
FIRST WATER-BEARING ZONE (continued)									
PW-04									
May-09	12.22	5.08	7.14	19.97	1.87	0.31	3.83	-62	0.0
August-09	12.22	7.12	5.10	22.73	1.210	0.20	3.93	70	0.9
December-09	12.22	4.14	8.08	18.44	0.959	1.77	4.24	98.3	1.74
February-10	12.22	3.46	8.76	14.84	1.094	0.38	4.06	328	4.8
April-10	12.22	4.50	7.72	18.55	0.706	0.24	4.15	293	3.2
August-10	12.22	4.52	7.70	23.74	0.923	0.19	3.55	29	2.2
December-10	12.22	6.64	5.58	18.59	1.000	0.23	3.87	80	2.8
February-11	12.22	5.28	6.94	16.76	1.056	0.39	4.06	7	2.3
BA-03									
May-09	14.57	6.76	7.81	24.6	1.674	NA	3.98	168	0.44
August-09	14.57	8.14	6.43	27.72	2.86	0.24	3.11	467	2.3
December-09	14.57	6.33	8.24	17.03	0.364	4.05	4.63	236.2	4.11
February-10	14.57	6.05	8.52	15.10	1.76	2.24	4.52	316	5.8
April-10	14.57	6.83	7.74	19.43	1.62	1.87	4.58	2.77	1.7
August-10	14.57	6.76	7.81	29.42	1.00	2.48	3.85	3.52	2.5
December-10	14.57	7.82	6.75	20.29	1.240	0.45	3.46	414	3.4
February-11	14.57	6.73	7.84	15.51	0.257	3.56	4.13	209	6.8
BA-09									
May-09	9.46	8.35	1.11	20.09	3.68	0.33	3.63	14	0.0
August-09	9.46	8.98	0.48	22.97	3.57	0.34	3.63	42	0.3
December-09	9.46	5.61	3.85	20.84	2.160	1.55	3.60	78.2	5.82
February-10	9.46	7.09	2.37	18.84	3.93	0.26	3.58	144	0.0
April-10	9.46	8.56	0.90	18.44	3.57	4.86	3.71	78	1.3
August-10	9.46	6.57	2.89	25.81	3.29	0.38	2.81	91	1.8
December-10	9.46	9.07	0.39	20.07	3.17	0.34	3.80	16	1.3
February-11	9.46	8.65	0.81	18.06	2.58	0.52	3.50	42	2.7
SECOND WATER-BEARING ZONE									
DW-04									
May-09	14.21	4.22	9.99	21.80	2.14	0.30	7.10	-95	0.0
August-09	14.21	5.79	8.42	23.44	1.87	0.44	7.15	7	1.5
December-09	14.21	4.72	9.49	20.60	1.74	2.08	7.13	24.2	4.73
February-10	14.21	3.89	10.32	17.21	1.92	7.65	7.88	405	0.2
April-10	14.21	4.12	10.09	20.76	1.83	6.92	7.51	408	0.0
August-10	14.21	4.28	9.93	23.84	2.03	0.29	7.48	-140	2.9
December-10	14.21	5.34	8.87	20.09	1.70	0.36	6.92	336	1.1
February-11	14.21	4.32	9.89	19.61	1.51	2.51	7.12	541	1.8
MW-A									
May-09	15.12	9.74	5.38	20.61	0.792	0.39	7.19	-28	0.0
August-09	15.12	10.58	4.54	25.58	0.705	0.31	7.14	-27	2.1
December-09	15.12	9.52	5.60	19.22	0.695	2.97	7.07	-68.9	2.30
February-10	15.12	9.29	5.83	18.67	0.762	2.54	7.39	-4	7.4
April-10	15.12	10.12	5.00	19.68	0.722	1.82	6.91	74	2.0
August-10	15.12	9.08	6.04	24.25	0.735	0.27	7.43	-58	3.5
December-10	15.12	11.03	4.09	21.38	0.690	1.17	7.02	37	2.6
February-11	15.12	10.68	4.44	19.48	0.646	2.85	7.16	8	4.3
MW-03									
May-09	14.80	5.39	9.41	21.26	2.14	0.27	6.71	-256	0.0
August-09	14.80	7.78	7.02	22.91	1.90	0.28	6.59	-65	2.7
December-09	14.80	6.14	8.66	20.29	1.814	4.73	6.93	15.8	5.11
February-10	14.80	4.78	10.02	16.64	2.05	1.24	6.82	378	4.3
April-10	14.80	5.40	9.40	19.88	1.93	0.24	6.60	184	1.6
August-10	14.80	5.40	9.40	22.32	1.98	0.28	6.88	-200	2.3
December-10	14.80	7.60	7.20	19.75	1.88	0.58	6.53	100	3.3
February-11	14.80	6.19	8.61	19.37	1.72	1.17	6.58	374	2.2

TABLE 3
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AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature °C	Specific Conductivity mS/sec	Dissolved Oxygen (mg/L)	pH Standard Unit	ORP Eh	Turbidity NTU
SECOND WATER-BEARING ZONE (continued)									
MW-04									
May-09	17.38	13.54	3.84	19.29	0.352	3.23	6.40	-71	0.0
August-09	17.38	15.61	1.77	21.21	0.314	1.68	6.41	-19	4.2
December-09	17.38	13.41	3.97	20.73	0.323	3.09	6.42	-21.3	4.61
February-10	17.38	12.46	4.92	18.78	0.277	5.32	6.77	5	5.1
April-10	17.38	13.38	4.00	19.64	0.401	3.49	6.70	-10	3.9
August-10	17.38	13.70	3.68	23.21	0.338	1.54	6.61	-127	4.7
December-10	17.38	14.97	2.41	18.87	0.310	2.41	6.56	-51	7.3
February-11	17.38	14.45	2.93	19.34	0.280	2.96	6.59	-82	15.0
BA-01									
May-09	14.57	5.65	8.92	22.53	2.70	0.26	6.22	-61	127
August-09	14.57	7.46	7.11	25.30	2.10	0.26	6.27	35	13.4
December-09	14.57	6.30	8.27	22.12	2.149	2.08	6.28	-79	8.61
February-10	14.57	5.44	9.13	17.82	2.85	0.30	6.16	95	411
April-10	14.57	5.80	8.77	21.86	2.65	0.36	5.94	18	390
August-10	14.57	5.40	9.17	25.19	2.30	0.21	6.04	-94	9.2
December-10	14.57	7.59	6.98	19.98	2.12	0.87	6.10	53	20.9
February-11	14.57	6.56	8.01	20.60	2.21	0.28	6.06	51	42.7
BA-05									
May-09	14.20	7.17	7.03	23.41	6.04	0.34	6.17	-120	7.7
August-09	14.20	8.35	5.85	26.80	5.19	0.49	6.23	14	34.0
December-09	14.20	8.43	5.77	18.88	5.708	1.72	6.08	-67.1	22.29
February-10	14.20	7.05	7.15	17.12	6.37	0.27	6.33	2	9.6
April-10	14.20	7.58	6.62	20.12	5.70	0.33	6.15	-27	31.8
August-10	14.20	6.75	7.45	26.25	5.21	0.55	6.31	19	38.5
December-10	14.20	8.51	5.69	19.41	6.14	7.04	6.29	15	16.1
February-11	14.20	8.09	6.11	18.24	5.60	0.65	6.09	-5	9.6
BA-09A									
May-09	11.10	0.88	10.22	19.93	0.274	0.47	6.69	-5	0.0
August-09	11.10	1.79	9.31	21.91	0.247	0.39	6.50	88	1.2
December-09	11.10	0.90	10.20	20.44	0.261	1.86	6.82	98.8	1.46
February-10	11.10	0.60	10.50	19.19	0.259	1.60	7.19	54	1.2
April-10	11.10	1.23	9.87	19.72	0.243	0.82	6.92	41	0.6
August-10	11.10	4.20	6.90	24.21	0.252	0.36	6.99	-59	0.9
December-10	11.10	1.13	9.97	17.59	0.239	0.47	6.82	-7	1.7
February-11	11.10	0.84	10.26	18.41	0.212	1.84	6.95	112	1.7
BC-03									
May-09	16.32	5.11	11.21	23.05	3.54	0.44	7.19	-117	0.0
August-09	16.32	7.51	8.81	25.92	3.17	0.33	7.15	-51	0.5
December-09	16.32	5.49	10.83	22.46	3.209	3.00	7.05	-33.4	1.78
February-10	16.32	3.65	12.67	18.71	3.49	3.33	7.46	3	0.8
April-10	16.32	4.45	11.87	21.35	3.28	2.03	7.17	-27	0.0
August-10	16.32	5.10	11.22	26.52	3.32	0.46	7.39	-151	15.4
December-10	16.32	7.11	9.21	19.82	3.17	2.39	7.02	2	2.0
February-11	16.32	4.56	11.76	20.25	2.93	2.16	7.06	44	0.7
BC-07									
May-09	11.37	2.80	8.57	20.71	2.61	1.02	7.14	-171	0.0
August-09	11.37	4.84	6.53	23.68	2.17	1.08	7.04	-8	1.3
December-09	11.37	2.80	8.57	18.81	2.077	2.97	7.01	32.4	7.98
February-10	11.37	2.24	9.13	14.12	2.57	1.99	7.39	423	1.5
April-10	11.37	2.92	8.45	17.47	2.41	0.80	7.19	379	0.8
August-10	11.37	2.85	8.52	25.14	2.26	0.60	7.53	-194	3.0
December-10	11.37	3.96	7.41	16.01	2.24	1.78	6.95	448	3.0
February-11	11.37	2.79	8.58	15.08	1.97	3.47	7.09	549	3.9

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature °C	Specific Conductivity mS/sec	Dissolved Oxygen (mg/L)	pH Standard Unit	ORP Eh	Turbidity NTU
SECOND WATER-BEARING ZONE (continued)									
BC-17									
May-09	15.18	4.26	10.92	23.21	2.27	0.33	6.97	-57	0.0
August-09	15.18	6.68	8.50	24.92	2.07	0.35	6.68	24	1.9
December-09	15.18	4.45	10.73	20.76	1.995	5.35	7.11	89.1	3.84
February-10	15.18	3.90	11.28	17.09	2.22	1.23	7.06	492	1.5
April-10	15.18	4.30	10.88	21.44	2.08	0.38	6.69	125	3.8
August-10	15.18	4.80	10.38	26.68	2.17	0.29	6.97	-94	4.9
December-10	15.18	5.61	9.57	20.94	2.03	5.38	6.94	535	2.5
February-11	15.18	4.38	10.80	18.59	1.87	0.97	6.71	511	3.3
BC-19									
May-09	13.85	4.61	9.24	22.25	3.08	0.25	6.94	-78	0.0
August-09	13.85	6.55	7.30	25.19	2.81	0.23	6.90	-15	3.7
December-09	13.85	4.95	8.90	21.25	2.721	4.65	7.06	33.3	6.68
February-10	13.85	4.02	9.83	15.73	3.00	3.52	7.26	333	1.8
April-10	13.85	4.40	9.45	20.70	2.79	1.49	6.97	179	0.4
August-10	13.85	4.45	9.40	25.35	2.89	0.29	7.39	125	6.0
December-10	13.85	6.03	7.82	19.81	2.73	4.44	7.04	367	1.8
February-11	13.85	4.67	9.18	18.88	2.48	3.35	6.97	435	2.4
BC-21R									
May-09	15.28	4.88	10.40	22.06	1.416	0.61	6.81	255	0.0
August-09	15.28	7.92	7.36	24.88	1.257	0.38	6.75	22	0.3
December-09	15.28	5.56	9.72	19.61	1.228	5.13	7.03	83.9	7.48
February-10	15.28	4.01	11.27	14.76	1.390	4.40	7.24	526	2.0
April-10	15.28	4.67	10.61	19.39	1.309	2.45	6.83	445	0.2
August-10	15.28	5.00	10.28	25.75	1.313	0.50	7.10	142	0.4
December-10	15.28	7.39	7.89	19.14	1.246	5.06	6.84	506	2.3
February-11	15.28	5.40	9.88	17.39	1.157	4.26	6.86	551	2.4
BC-25									
May-09	15.73	6.01	9.72	22.28	1.119	0.28	6.80	-85	0.0
August-09	15.73	8.74	6.99	23.28	0.794	0.27	6.95	-24	1.8
December-09	15.73	6.71	9.02	19.98	0.800	1.74	6.95	-7.7	2.88
February-10	15.73	5.02	10.71	17.04	1.004	6.72	7.32	404	1.2
April-10	15.73	5.68	10.05	20.74	1.285	1.25	6.75	431	3.6
August-10	15.73	6.22	9.51	21.21	1.000	0.24	7.17	-97	0.3
December-10	15.73	8.35	7.38	19.40	0.757	0.26	6.78	129	2.0
February-11	15.73	6.74	8.99	19.15	0.700	1.28	6.88	284	1.8
THIRD WATER-BEARING ZONE									
BA-03A									
May-09	14.76	1.74	13.02	24.5	0.3155	NA	6.84	12	242.7
August-09	14.76	3.00	11.76	24.02	0.284	0.29	8.18	-123	76.5
December-09	14.76	1.90	12.86	17.04	0.277	1.97	7.58	-151.7	3.05
February-10	14.76	1.80	12.96	16.96	0.308	0.71	8.39	-114	6.6
April-10	14.76	1.33	13.43	22.06	0.287	0.61	8.13	-140	2.1
August-10	14.76	1.70	13.06	26.77	0.291	0.34	8.68	-151	9.4
December-10	14.76	1.73	13.03	19.78	0.280	0.46	8.04	-140	4.8
February-11	14.76	1.59	13.17	18.88	0.225	0.52	8.34	-199	53.1
BA-05A									
May-09	14.42	3.22	11.20	23.46	0.299	0.93	7.16	-181	0.0
August-09	14.42	4.35	10.07	25.06	0.252	0.29	7.25	-89	1.5
December-09	14.42	3.32	11.10	18.14	0.257	1.83	6.82	-33.7	2.69
February-10	14.42	3.06	11.36	17.76	0.272	3.24	7.38	-61	3.8
April-10	14.42	2.95	11.47	21.78	0.252	4.93	7.39	-75	1.4
August-10	14.42	3.25	11.17	25.32	0.254	0.44	7.38	-2	0.8
December-10	14.42	3.31	11.11	19.60	0.244	0.30	7.04	-83	2.30
February-11	14.42	3.11	11.31	18.18	0.222	6.85	7.29	11	3.0

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature °C	Specific Conductivity mS/sec	Dissolved Oxygen (mg/L)	pH Standard Unit	ORP Eh	Turbidity NTU
THIRD WATER-BEARING ZONE (continued)									
BB-01									
May-09	15.75	2.86	12.89	21.89	0.311	0.43	10.10	-174	0.0
August-09	15.75	4.10	11.65	23.35	0.280	0.57	9.66	-104	6.2
December-09	15.75	2.96	12.79	19.27	0.279	1.91	9.75	27.1	8.38
February-10	15.75	2.79	12.96	17.01	0.298	1.37	10.31	67	6.1
April-10	15.75	2.42	13.33	20.51	0.279	0.49	9.66	40	5.7
August-10	15.75	2.88	12.87	25.02	0.284	0.38	11.04	-272	5.5
December-10	15.75	2.85	12.90	20.08	0.270	0.41	9.63	30	5.1
February-11	15.75	2.67	13.08	18.82	0.244	0.77	9.86	169	4.8
BA-01A									
May-09	15.03	4.26	10.77	22.17	0.280	0.49	7.29	55	0.0
August-09	15.03	5.38	9.65	23.93	0.250	0.42	7.13	-19	0.1
December-09	15.03	4.50	10.53	20.45	0.268	1.72	7.50	-94.5	2.79
February-10	15.03	4.12	10.91	18.32	0.268	1.44	7.65	317	1.8
April-10	15.03	4.01	11.02	21.82	0.251	3.59	7.38	239	0.9
August-10	15.03	4.44	10.59	24.58	0.256	0.32	7.72	-185	1.2
December-10	15.03	4.46	10.57	19.34	0.243	0.27	7.10	18	3.3
February-11	15.03	4.37	10.66	19.48	0.221	2.56	7.36	430	1.9
WATER WELLS									
(b) (6) Well									
May-09	NA	NA	NA	20.18	0.297	3.55	6.84	-149	0.0
August-09	NA	NA	NA	21.53	0.270	3.35	7.73	8	0.2
December-09	NA	NA	NA	20.33	0.279	4.04	7.81	-101.5	1.89
February-10	NA	NA	NA	19.66	0.284	3.11	8.60	-106	0.2
April-10	NA	NA	NA	20.93	0.267	2.87	8.26	-88	0.0
August-10	NA	NA	NA	25.07	0.268	3.13	8.32	-155	8.8
December-10	NA	NA	NA	19.60	0.259	1.80	8.22	-132	4.5
February-11	NA	NA	NA	20.76	0.233	2.97	8.28	-186	2.6
WW-04									
May-09	NA	NA	NA	21.76	0.303	2.92	8.68	-251	0.0
August-09	NA	NA	NA	22.84	0.270	2.96	8.27	2	0.0
December-09	NA	NA	NA	20.64	0.289	3.92	7.73	-122.8	2.08
February-10	NA	NA	NA	19.77	0.287	2.29	9.10	-149	0.9
April-10	NA	NA	NA	21.25	0.269	1.67	8.72	-138	0.0
August-10	NA	NA	NA	23.70	0.131	3.45	9.47	-160	1.4
December-10	NA	NA	NA	19.58	0.262	1.22	8.69	-187	2.1
February-11	NA	NA	NA	20.34	0.236	2.34	8.83	-236	4.4
WW-09									
May-09	NA	NA	NA	20.59	0.293	5.54	8.54	-172	0.0
August-09	NA	NA	NA	21.76	0.264	3.15	8.03	-11	0.0
December-09	NA	NA	NA	19.68	0.265	5.72	7.18	-77.2	3.04
February-10	NA	NA	NA	19.51	0.277	3.14	8.29	-80	0.6
April-10	NA	NA	NA	19.58	0.260	2.71	7.94	-90	0.5
August-10	NA	NA	NA	23.68	0.172	3.26	8.99	-183	0.5
December-10	NA	NA	NA	18.02	0.259	5.49	7.39	-158	4.3
February-11	NA	NA	NA	19.80	0.234	3.05	7.97	-122	5.5
North Well									
May-09	NA	NA	NA	22.67	0.321	1.38	9.06	-185	0.0
August-09	NA	NA	NA	22.11	0.271	1.14	8.75	-68	0.2
December-09	NA	NA	NA	20.35	0.309	2.79	8.13	16.8	5.46
February-10	NA	NA	NA	19.69	0.286	1.35	9.10	255	1.6
April-10	NA	NA	NA	22.26	0.69	1.71	8.79	-48	0.1
August-10	NA	NA	NA	23.43	0.293	1.19	9.53	-209	0.8
December-10	NA	NA	NA	21.11	0.259	1.61	8.50	235	1.5
February-11	NA	NA	NA	21.15	0.240	5.00	8.63	212	3.4

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature °C	Specific Conductivity mS/sec	Dissolved Oxygen (mg/L)	pH Standard Unit	ORP Eh	Turbidity NTU
WATER WELLS (continued)									
South Well									
May-09	NA	NA	NA	20.89	0.302	1.75	9.03	-147	0.0
August-09	NA	NA	NA	21.41	0.271	2.44	8.85	-67	0.0
December-09	NA	NA	NA	19.35	0.282	3.66	9.32	-111.3	3.68
February-10	NA	NA	NA	17.78	0.037	5.02	9.42	-62	1.7
April-10	NA	NA	NA	21.61	0.236	2.90	8.80	-65	0.0
August-10	NA	NA	NA	24.52	0.276	2.13	9.79	-218	0.7
December-10	NA	NA	NA	19.59	0.262	2.29	8.75	-76	3.3
February-11	NA	NA	NA	20.08	0.236	2.47	9.00	-75	1.9

Notes: 1) Top-of-casing (TOC) elevation - (depth to fluid) = Corrected GROUNDWATER (GW) elevation
2) Additional quarters will be added as sampling events continue

Abbrev.: NA = Not Appliciable mg/L = milligrams per Liter NF = Not Found
NM = Not Measured NS = Not Sampled

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
1	Total Arsenic/7440-38-2	SW6020	BA-09A	11020727-01	110214	RECAP SS	0.010	0.004	0.00279	J	No
2	Total Cadmium/7440-43-9	SW6020	BA-09A	11020727-01	110214	RECAP SS	0.005	0.002	< 0.002		No
3	Total Lead/7439-92-1	SW6020	BA-09A	11020727-01	110214	EPA Site Cleanup	0.015	0.001	0.000878	J	No
4	Total Manganese/7439-96-5	SW6020	BA-09A	11020727-01	110214	RECAP SS	0.510	0.002	0.0267		No
5	Total Nickel/7440-02-0	SW6020	BA-09A	11020727-01	110214	RECAP SS	0.073	0.002	0.000516	J	No
6	Total Thallium/7440-28-0	SW6020	BA-09A	11020727-01	110214	RECAP SS	0.002	0.002	0.000424	J	No
7	Total Zinc/7440-66-6	SW6020	BA-09A	11020727-01	110214	RECAP SS	1.1	0.01	0.00341	J	No
8	Total Cadmium/7440-43-9	SW6020	BA-09	11020727-02	110214	RECAP SS	0.005	0.002	0.000453	J	No
9	Total Lead/7439-92-1	SW6020	BA-09	11020727-02	110214	EPA Site Cleanup	0.015	0.001	0.00123		No
10	**Total Manganese/7439-96-5**	**SW6020**	**BA-09**	**11020727-02**	**110214**	**RECAP SS**	**0.510**	**0.002**	**2.61**		**Yes**
11	**Total Nickel/7440-02-0**	**SW6020**	**BA-09**	**11020727-02**	**110214**	**RECAP SS**	**0.073**	**0.002**	**0.141**		**Yes**
12	Total Thallium/7440-28-0	SW6020	BA-09	11020727-02	110214	RECAP SS	0.002	0.002	0.000442	J	No
13	Total Zinc/7440-66-6	SW6020	BA-09	11020727-02	110214	RECAP SS	1.100	0.01	0.44		No
14	**Total Arsenic/7440-38-2**	**SW6010B**	**BA-09**	**11020727-02**	**110214**	**RECAP SS**	**0.01**	**0.1**	**0.0268**	**J**	**Yes**
15	Dissolved Arsenic/7440-38-2	SW6020	MW-4	11020727-03	110214	RECAP SS	0.010	0.004	< 0.004		No
16	Dissolved Cadmium/7440-43-9	SW6020	MW-4	11020727-03	110214	RECAP SS	0.005	0.002	0.000979	J	No
17	Dissolved Lead/7439-92-1	SW6020	MW-4	11020727-03	110214	EPA Site Cleanup	0.015	0.001	< 0.001		No
18	Dissolved Manganese/7439-96-5	SW6020	MW-4	11020727-03	110214	RECAP SS	0.510	0.002	0.000235	J	No
19	Dissolved Nickel/7440-02-0	SW6020	MW-4	11020727-03	110214	RECAP SS	0.073	0.002	0.00148	JB	No
20	Dissolved Thallium/7440-28-0	SW6020	MW-4	11020727-03	110214	RECAP SS	0.002	0.002	0.000592	J	No
21	Dissolved Zinc/7440-66-6	SW6020	MW-4	11020727-03	110214	RECAP SS	1.1	0.006	0.00204	J	No
22	Total Arsenic/7440-38-2	SW6020	MW-4	11020727-03	110214	RECAP SS	0.010	0.004	< 0.004		No
23	Total Cadmium/7440-43-9	SW6020	MW-4	11020727-03	110214	RECAP SS	0.005	0.002	< 0.002		No
24	Total Lead/7439-92-1	SW6020	MW-4	11020727-03	110214	EPA Site Cleanup	0.015	0.001	0.00154		No
25	Total Manganese/7439-96-5	SW6020	MW-4	11020727-03	110214	RECAP SS	0.510	0.002	0.0134		No
26	Total Nickel/7440-02-0	SW6020	MW-4	11020727-03	110214	RECAP SS	0.073	0.002	0.0011	J	No
27	Total Thallium/7440-28-0	SW6020	MW-4	11020727-03	110214	RECAP SS	0.002	0.002	0.000417	J	No
28	Total Zinc/7440-66-6	SW6020	MW-4	11020727-03	110214	RECAP SS	1.1	0.01	0.00537	J	No
29	Total Arsenic/7440-38-2	SW6020	WW-09	11020727-04	110214	RECAP SS	0.010	0.004	< 0.004	J	No
30	Total Cadmium/7440-43-9	SW6020	WW-09	11020727-04	110214	RECAP SS	0.005	0.002	< 0.002	J	No
31	Total Lead/7439-92-1	SW6020	WW-09	11020727-04	110214	EPA Site Cleanup	0.015	0.001	<0.00123	J	No
32	Total Manganese/7439-96-5	SW6020	WW-09	11020727-04	110214	RECAP SS	0.510	0.002	0.0161		No
33	Total Nickel/7440-02-0	SW6020	WW-09	11020727-04	110214	RECAP SS	0.073	0.002	< 0.002	J	No
34	Total Thallium/7440-28-0	SW6020	WW-09	11020727-04	110214	RECAP SS	0.002	0.002	<0.002		No
35	Total Zinc/7440-66-6	SW6020	WW-09	11020727-04	110214	RECAP SS	1.1	0.01	<0.01	J	No
36	Total Arsenic/7440-38-2	SW6020	WW-04	11020727-05	110214	RECAP SS	0.010	0.004	< 0.004		No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
37	Total Cadmium/7440-43-9	SW6020	WW-04	11020727-05	110214	RECAP SS	0.005	0.002	< 0.002		No
38	Total Lead/7439-92-1	SW6020	WW-04	11020727-05	110214	EPA Site Cleanup	0.015	0.001	0.000794	J	No
39	Total Manganese/7439-96-5	SW6020	WW-04	11020727-05	110214	RECAP SS	0.510	0.002	0.00355		No
40	Total Nickel/7440-02-0	SW6020	WW-04	11020727-05	110214	RECAP SS	0.073	0.002	< 0.002		No
41	Total Thallium/7440-28-0	SW6020	WW-04	11020727-05	110214	RECAP SS	0.002	0.002	0.000413	J	No
42	Total Zinc/7440-66-6	SW6020	WW-04	11020727-05	110214	RECAP SS	1.1	0.01	0.00205	J	No
43	Total Arsenic/7440-38-2	SW6020	(b) (6) WELL	11020727-06	110214	RECAP SS	0.010	0.004	0.00186	J	No
44	Total Cadmium/7440-43-9	SW6020	(b) (6) WELL	11020727-06	110214	RECAP SS	0.005	0.002	< 0.002		No
45	Total Lead/7439-92-1	SW6020	(b) (6) WELL	11020727-06	110214	EPA Site Cleanup	0.015	0.001	0.00341		No
46	Total Manganese/7439-96-5	SW6020	(b) (6) WELL	11020727-06	110214	RECAP SS	0.510	0.002	0.023		No
47	Total Nickel/7440-02-0	SW6020	(b) (6) WELL	11020727-06	110214	RECAP SS	0.073	0.002	0.000568	J	No
48	Total Thallium/7440-28-0	SW6020	(b) (6) WELL	11020727-06	110214	RECAP SS	0.002	0.002	0.000413	J	No
49	Total Zinc/7440-66-6	SW6020	(b) (6) WELL	11020727-06	110214	RECAP SS	1.1	0.01	0.00368	J	No
50	Total Arsenic/7440-38-2	SW6020	BC-03	11020727-07	110214	RECAP SS	0.010	0.004	< 0.004		No
51	Total Cadmium/7440-43-9	SW6020	BC-03	11020727-07	110214	RECAP SS	0.005	0.002	5.56E-05	J	No
52	Total Lead/7439-92-1	SW6020	BC-03	11020727-07	110214	EPA Site Cleanup	0.015	0.001	0.000948	J	No
53	Total Manganese/7439-96-5	SW6020	BC-03	11020727-07	110214	RECAP SS	0.510	0.002	0.00403		No
54	Total Nickel/7440-02-0	SW6020	BC-03	11020727-07	110214	RECAP SS	0.073	0.002	0.00186	J	No
55	Total Thallium/7440-28-0	SW6020	BC-03	11020727-07	110214	RECAP SS	0.002	0.002	0.000424	J	No
56	Total Zinc/7440-66-6	SW6020	BC-03	11020727-07	110214	RECAP SS	1.1	0.01	0.00298	J	No
57	Total Arsenic/7440-38-2	SW6020	BC-07	11020727-08	110214	RECAP SS	0.010	0.004	0.00277	J	No
58	Total Cadmium/7440-43-9	SW6020	BC-07	11020727-08	110214	RECAP SS	0.005	0.002	< 0.002	J	No
59	Total Lead/7439-92-1	SW6020	BC-07	11020727-08	110214	EPA Site Cleanup	0.015	0.001	<0.00137	J	No
60	Total Manganese/7439-96-5	SW6020	BC-07	11020727-08	110214	RECAP SS	0.510	0.002	0.029		No
61	Total Nickel/7440-02-0	SW6020	BC-07	11020727-08	110214	RECAP SS	0.073	0.002	0.00317	J	No
62	Total Thallium/7440-28-0	SW6020	BC-07	11020727-08	110214	RECAP SS	0.002	0.002	<0.002		No
63	Total Zinc/7440-66-6	SW6020	BC-07	11020727-08	110214	RECAP SS	1.1	0.01	<0.01	J	No
64	Total Arsenic/7440-38-2	SW6020	DW-04	11020727-09	110214	RECAP SS	0.010	0.004	0.00187	J	No
65	Total Cadmium/7440-43-9	SW6020	DW-04	11020727-09	110214	RECAP SS	0.005	0.002	< 0.002		No
66	Total Lead/7439-92-1	SW6020	DW-04	11020727-09	110214	EPA Site Cleanup	0.015	0.001	0.000841	J	No
67	Total Manganese/7439-96-5	SW6020	DW-04	11020727-09	110214	RECAP SS	0.510	0.002	0.0026		No
68	Total Nickel/7440-02-0	SW6020	DW-04	11020727-09	110214	RECAP SS	0.073	0.002	0.001	J	No
69	Total Thallium/7440-28-0	SW6020	DW-04	11020727-09	110214	RECAP SS	0.002	0.002	0.000412	J	No
70	Total Zinc/7440-66-6	SW6020	DW-04	11020727-09	110214	RECAP SS	1.1	0.01	0.00239	J	No
71	Total Arsenic/7440-38-2	SW6020	DUPLICATE #1	11020727-10	110214	NA	NA	0.004	0.00165	J	NA
72	Total Cadmium/7440-43-9	SW6020	DUPLICATE #1	11020727-10	110214	NA	NA	0.002	< 0.002		NA

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
73	Total Lead/7439-92-1	SW6020	DUPLICATE #1	11020727-10	110214	NA	NA	0.001	0.000816	J	NA
74	Total Manganese/7439-96-5	SW6020	DUPLICATE #1	11020727-10	110214	NA	NA	0.002	0.00354		NA
75	Total Nickel/7440-02-0	SW6020	DUPLICATE #1	11020727-10	110214	NA	NA	0.002	0.000902	J	NA
76	Total Thallium/7440-28-0	SW6020	DUPLICATE #1	11020727-10	110214	NA	NA	0.002	0.000414	J	NA
77	Total Zinc/7440-66-6	SW6020	DUPLICATE #1	11020727-10	110214	NA	NA	0.01	0.00189	J	NA
78	Total Arsenic/7440-38-2	SW6020	BC-19	11020727-11	110214	RECAP SS	0.010	0.004	< 0.004		No
79	Total Cadmium/7440-43-9	SW6020	BC-19	11020727-11	110214	RECAP SS	0.005	0.002	< 0.002		No
80	Total Lead/7439-92-1	SW6020	BC-19	11020727-11	110214	EPA Site Cleanup	0.015	0.001	0.00085	J	No
81	Total Manganese/7439-96-5	SW6020	BC-19	11020727-11	110214	RECAP SS	0.510	0.002	0.00272		No
82	Total Nickel/7440-02-0	SW6020	BC-19	11020727-11	110214	RECAP SS	0.073	0.002	0.00179	J	No
83	Total Thallium/7440-28-0	SW6020	BC-19	11020727-11	110214	RECAP SS	0.002	0.002	0.000474	J	No
84	Total Zinc/7440-66-6	SW6020	BC-19	11020727-11	110214	RECAP SS	1.1	0.01	0.00365	J	No
85	Total Arsenic/7440-38-2	SW6020	BC-25	11020727-12	110214	RECAP SS	0.010	0.004	< 0.004	J	No
86	Total Cadmium/7440-43-9	SW6020	BC-25	11020727-12	110214	RECAP SS	0.005	0.002	< 0.002	J	No
87	Total Lead/7439-92-1	SW6020	BC-25	11020727-12	110214	EPA Site Cleanup	0.015	0.001	<0.001	J	No
88	Total Manganese/7439-96-5	SW6020	BC-25	11020727-12	110214	RECAP SS	0.510	0.002	0.0264		No
89	Total Nickel/7440-02-0	SW6020	BC-25	11020727-12	110214	RECAP SS	0.073	0.002	0.00068	J	No
90	Total Thallium/7440-28-0	SW6020	BC-25	11020727-12	110214	RECAP SS	0.002	0.002	<0.002		No
91	Total Zinc/7440-66-6	SW6020	BC-25	11020727-12	110214	RECAP SS	1.1	0.01	<0.01	J	No
92	Total Arsenic/7440-38-2	SW6020	MW-3	11020727-13	110214	RECAP SS	0.010	0.004	< 0.004		No
93	Total Cadmium/7440-43-9	SW6020	MW-3	11020727-13	110214	RECAP SS	0.005	0.002	< 0.002		No
94	Total Lead/7439-92-1	SW6020	MW-3	11020727-13	110214	EPA Site Cleanup	0.015	0.001	0.0024		No
95	Total Manganese/7439-96-5	SW6020	MW-3	11020727-13	110214	RECAP SS	0.510	0.002	0.509		No
96	Total Nickel/7440-02-0	SW6020	MW-3	11020727-13	110214	RECAP SS	0.073	0.002	0.00219		No
97	Total Thallium/7440-28-0	SW6020	MW-3	11020727-13	110214	RECAP SS	0.002	0.002	0.000418	J	No
98	Total Zinc/7440-66-6	SW6020	MW-3	11020727-13	110214	RECAP SS	1.1	0.01	0.00235	J	No
99	**Total Cadmium/7440-43-9**	**SW6020**	**MW-6**	**11020727-14**	**110214**	**RECAP SS**	**0.005**	**0.002**	**0.0675**		**Yes**
100	Total Lead/7439-92-1	SW6020	MW-6	11020727-14	110214	EPA Site Cleanup	0.015	0.001	0.00175		No
101	**Total Manganese/7439-96-5**	**SW6020**	**MW-6**	**11020727-14**	**110214**	**RECAP SS**	**0.510**	**0.002**	**3.14**		**Yes**
102	Total Nickel/7440-02-0	SW6020	MW-6	11020727-14	110214	RECAP SS	0.073	0.002	0.0354		No
103	Total Thallium/7440-28-0	SW6020	MW-6	11020727-14	110214	RECAP SS	0.002	0.002	0.000523	J	No
104	Total Zinc/7440-66-6	SW6020	MW-6	11020727-14	110214	RECAP SS	1.100	0.01	0.128		No
105	Total Arsenic/7440-38-2	SW6010B	MW-6	11020727-14	110214	RECAP SS	0.01	0.02	0.00241	J	No
106	Total Arsenic/7440-38-2	SW6020	BB-01	11020727-15	110215	RECAP SS	0.010	0.004	0.00555		No
107	Total Cadmium/7440-43-9	SW6020	BB-01	11020727-15	110215	RECAP SS	0.005	0.002	0.000109	J	No
108	Total Lead/7439-92-1	SW6020	BB-01	11020727-15	110215	EPA Site Cleanup	0.015	0.001	0.00571		No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
109	Total Manganese/7439-96-5	SW6020	BB-01	11020727-15	110215	RECAP SS	0.510	0.002	0.00455		No
110	Total Nickel/7440-02-0	SW6020	BB-01	11020727-15	110215	RECAP SS	0.073	0.002	0.00334		No
111	Total Thallium/7440-28-0	SW6020	BB-01	11020727-15	110215	RECAP SS	0.002	0.002	0.000416	J	No
112	Total Zinc/7440-66-6	SW6020	BB-01	11020727-15	110215	RECAP SS	1.1	0.01	0.0069	J	No
113	Total Arsenic/7440-38-2	SW6020	SOUTH WELL	11020727-16	110215	RECAP SS	0.010	0.004	< 0.004	J	No
114	Total Cadmium/7440-43-9	SW6020	SOUTH WELL	11020727-16	110215	RECAP SS	0.005	0.002	< 0.002	J	No
115	Total Lead/7439-92-1	SW6020	SOUTH WELL	11020727-16	110215	EPA Site Cleanup	0.015	0.001	<0.001	J	No
116	Total Manganese/7439-96-5	SW6020	SOUTH WELL	11020727-16	110215	RECAP SS	0.510	0.002	0.00484		No
117	Total Nickel/7440-02-0	SW6020	SOUTH WELL	11020727-16	110215	RECAP SS	0.073	0.002	0.00204		No
118	Total Thallium/7440-28-0	SW6020	SOUTH WELL	11020727-16	110215	RECAP SS	0.002	0.002	<0.002		No
119	Total Zinc/7440-66-6	SW6020	SOUTH WELL	11020727-16	110215	RECAP SS	1.1	0.01	<0.01	J	No
120	Total Arsenic/7440-38-2	SW6020	BC-17	11020727-17	110215	RECAP SS	0.010	0.004	0.00374	J	No
121	Total Cadmium/7440-43-9	SW6020	BC-17	11020727-17	110215	RECAP SS	0.005	0.002	0.000764	J	No
122	**Total Lead/7439-92-1**	**SW6020**	**BC-17**	**11020727-17**	**110215**	**EPA Site Cleanup**	**0.015**	**0.001**	**0.0243**		**Yes**
123	Total Manganese/7439-96-5	SW6020	BC-17	11020727-17	110215	RECAP SS	0.510	0.002	0.114		No
124	Total Nickel/7440-02-0	SW6020	BC-17	11020727-17	110215	RECAP SS	0.073	0.002	0.00362		No
125	Total Thallium/7440-28-0	SW6020	BC-17	11020727-17	110215	RECAP SS	0.002	0.002	0.000439	J	No
126	Total Zinc/7440-66-6	SW6020	BC-17	11020727-17	110215	RECAP SS	1.1	0.01	0.00406	J	No
127	Total Arsenic/7440-38-2	SW6020	NORTH WELL	11020727-18	110215	RECAP SS	0.010	0.004	< 0.004		No
128	Total Cadmium/7440-43-9	SW6020	NORTH WELL	11020727-18	110215	RECAP SS	0.005	0.002	< 0.002		No
129	Total Lead/7439-92-1	SW6020	NORTH WELL	11020727-18	110215	EPA Site Cleanup	0.015	0.001	0.00135		No
130	Total Manganese/7439-96-5	SW6020	NORTH WELL	11020727-18	110215	RECAP SS	0.510	0.002	0.00405		No
131	Total Nickel/7440-02-0	SW6020	NORTH WELL	11020727-18	110215	RECAP SS	0.073	0.002	0.00148	J	No
132	Total Thallium/7440-28-0	SW6020	NORTH WELL	11020727-18	110215	RECAP SS	0.002	0.002	0.000412	J	No
133	Total Zinc/7440-66-6	SW6020	NORTH WELL	11020727-18	110215	RECAP SS	1.1	0.01	0.00277	J	No
134	Total Arsenic/7440-38-2	SW6020	BC-21R	11020727-19	110215	RECAP SS	0.010	0.004	< 0.004		No
135	Total Cadmium/7440-43-9	SW6020	BC-21R	11020727-19	110215	RECAP SS	0.005	0.002	< 0.002		No
136	Total Lead/7439-92-1	SW6020	BC-21R	11020727-19	110215	EPA Site Cleanup	0.015	0.001	0.000912	J	No
137	Total Manganese/7439-96-5	SW6020	BC-21R	11020727-19	110215	RECAP SS	0.510	0.002	0.00758		No
138	Total Nickel/7440-02-0	SW6020	BC-21R	11020727-19	110215	RECAP SS	0.073	0.002	0.0025		No
139	Total Thallium/7440-28-0	SW6020	BC-21R	11020727-19	110215	RECAP SS	0.002	0.002	0.000416	J	No
140	Total Zinc/7440-66-6	SW6020	BC-21R	11020727-19	110215	RECAP SS	1.1	0.01	0.00462	J	No
141	Total Arsenic/7440-38-2	SW6020	BA-01A	11020727-20	110215	RECAP SS	0.010	0.004	0.00706		No
142	Total Cadmium/7440-43-9	SW6020	BA-01A	11020727-20	110215	RECAP SS	0.005	0.002	< 0.002		No
143	Total Lead/7439-92-1	SW6020	BA-01A	11020727-20	110215	EPA Site Cleanup	0.015	0.001	0.00121		No
144	Total Manganese/7439-96-5	SW6020	BA-01A	11020727-20	110215	RECAP SS	0.510	0.002	0.007		No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
145	Total Nickel/7440-02-0	SW6020	BA-01A	11020727-20	110215	RECAP SS	0.073	0.002	0.00139	J	No
146	Total Thallium/7440-28-0	SW6020	BA-01A	11020727-20	110215	RECAP SS	0.002	0.002	0.00041	J	No
147	Total Zinc/7440-66-6	SW6020	BA-01A	11020727-20	110215	RECAP SS	1.1	0.01	0.00288	J	No
148	Total Arsenic/7440-38-2	SW6020	DUPLICATE #2	11020727-21	110215	NA	NA	0.004	0.00644		NA
149	Total Cadmium/7440-43-9	SW6020	DUPLICATE #2	11020727-21	110215	NA	NA	0.002	< 0.002		NA
150	Total Lead/7439-92-1	SW6020	DUPLICATE #2	11020727-21	110215	NA	NA	0.001	0.00102		NA
151	Total Manganese/7439-96-5	SW6020	DUPLICATE #2	11020727-21	110215	NA	NA	0.002	0.00638		NA
152	Total Nickel/7440-02-0	SW6020	DUPLICATE #2	11020727-21	110215	NA	NA	0.002	0.00101	J	NA
153	Total Thallium/7440-28-0	SW6020	DUPLICATE #2	11020727-21	110215	NA	NA	0.002	0.000414	J	NA
154	Total Zinc/7440-66-6	SW6020	DUPLICATE #2	11020727-21	110215	NA	NA	0.01	0.0025	J	NA
155	Dissolved Cadmium/7440-43-9	SW6020	BA-01	11020727-22	110215	RECAP SS	0.005	0.002	0.00104	J	No
156	Dissolved Lead/7439-92-1	SW6020	BA-01	11020727-22	110215	EPA Site Cleanup	0.015	0.001	< 0.001		No
157	**Dissolved Manganese/7439-96-5**	**SW6020**	**BA-01**	**11020727-22**	**110215**	**RECAP SS**	**0.510**	**0.002**	**1.23**		**Yes**
158	Dissolved Nickel/7440-02-0	SW6020	BA-01	11020727-22	110215	RECAP SS	0.073	0.002	0.0445	B	No
159	Dissolved Thallium/7440-28-0	SW6020	BA-01	11020727-22	110215	RECAP SS	0.002	0.002	0.000386	J	No
160	Dissolved Zinc/7440-66-6	SW6020	BA-01	11020727-22	110215	RECAP SS	1.100	0.006	0.051		No
161	Dissolved Arsenic/7440-38-2	SW6010B	BA-01	11020727-22	110215	RECAP SS	0.01	0.02	0.0033	J	No
162	Total Cadmium/7440-43-9	SW6020	BA-01	11020727-22	110215	RECAP SS	0.005	0.002	7.33E-05	J	No
163	Total Lead/7439-92-1	SW6020	BA-01	11020727-22	110215	EPA Site Cleanup	0.015	0.001	0.00102		No
164	**Total Manganese/7439-96-5**	**SW6020**	**BA-01**	**11020727-22**	**110215**	**RECAP SS**	**0.510**	**0.002**	**1.37**		**Yes**
165	Total Nickel/7440-02-0	SW6020	BA-01	11020727-22	110215	RECAP SS	0.073	0.002	0.0499		No
166	Total Thallium/7440-28-0	SW6020	BA-01	11020727-22	110215	RECAP SS	0.002	0.002	0.000421	J	No
167	Total Zinc/7440-66-6	SW6020	BA-01	11020727-22	110215	RECAP SS	1.100	0.01	0.0553		No
168	Total Arsenic/7440-38-2	SW6010B	BA-01	11020727-22	110215	RECAP SS	0.01	0.02	0.00241	J	No
169	**Total Cadmium/7440-43-9**	**SW6020**	**DW-3**	**11020727-23**	**110215**	**RECAP SS**	**0.005**	**0.002**	**0.23**	**N**	**Yes**
170	**Total Lead/7439-92-1**	**SW6020**	**DW-3**	**11020727-23**	**110215**	**EPA Site Cleanup**	**0.015**	**0.001**	**0.407**		**Yes**
171	**Total Manganese/7439-96-5**	**SW6020**	**DW-3**	**11020727-23**	**110215**	**RECAP SS**	**0.510**	**0.002**	**1.09**		**Yes**
172	Total Nickel/7440-02-0	SW6020	DW-3	11020727-23	110215	RECAP SS	0.073	0.002	0.0482	N	No
173	Total Thallium/7440-28-0	SW6020	DW-3	11020727-23	110215	RECAP SS	0.002	0.002	0.0007	J	No
174	Total Zinc/7440-66-6	SW6020	DW-3	11020727-23	110215	RECAP SS	1.100	0.01	0.0889	N	No
175	**Total Arsenic/7440-38-2**	**SW6010B**	**DW-3**	**11020727-23**	**110215**	**RECAP SS**	**0.01**	**0.02**	**0.0139**	**J**	**Yes**
176	Total Arsenic/7440-38-2	SW6020	PW-4	11020727-24	110215	RECAP SS	0.010	0.004	0.00245	JN	No
177	Total Cadmium/7440-43-9	SW6020	PW-4	11020727-24	110215	RECAP SS	0.005	0.002	0.000849	JN	No
178	Total Lead/7439-92-1	SW6020	PW-4	11020727-24	110215	EPA Site Cleanup	0.015	0.001	0.002		No
179	**Total Manganese/7439-96-5**	**SW6020**	**PW-4**	**11020727-24**	**110215**	**RECAP SS**	**0.510**	**0.002**	**1.57**		**Yes**
180	Total Nickel/7440-02-0	SW6020	PW-4	11020727-24	110215	RECAP SS	0.073	0.002	0.0408	N	No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
181	Total Thallium/7440-28-0	SW6020	PW-4	11020727-24	110215	RECAP SS	0.002	0.002	0.000438	J	No
182	Total Zinc/7440-66-6	SW6020	PW-4	11020727-24	110215	RECAP SS	1.1	0.01	0.0921	N	No
183	**Total Arsenic/7440-38-2**	**SW6020**	**DW-2**	**11020727-25**	**110215**	**RECAP SS**	**0.010**	**0.1**	**0.0425**	**JN**	**Yes**
184	**Total Cadmium/7440-43-9**	**SW6020**	**DW-2**	**11020727-25**	**110215**	**RECAP SS**	**0.005**	**0.002**	**0.0187**	**N**	**Yes**
185	Total Lead/7439-92-1	SW6020	DW-2	11020727-25	110215	EPA Site Cleanup	0.015	0.005	0.00865		No
186	**Total Manganese/7439-96-5**	**SW6020**	**DW-2**	**11020727-25**	**110215**	**RECAP SS**	**0.510**	**0.002**	**12.9**		**Yes**
187	**Total Nickel/7440-02-0**	**SW6020**	**DW-2**	**11020727-25**	**110215**	**RECAP SS**	**0.073**	**0.002**	**0.575**	**N**	**Yes**
188	**Total Thallium/7440-28-0**	**SW6020**	**DW-2**	**11020727-25**	**110215**	**RECAP SS**	**0.002**	**0.01**	**< 0.01**		**Yes**
189	**Total Zinc/7440-66-6**	**SW6020**	**DW-2**	**11020727-25**	**110215**	**RECAP SS**	**1.1**	**0.01**	**1.41**	**N**	**Yes**
190	Total Arsenic/7440-38-2	SW6020	DUPLICATE #3	11020727-26	110215	NA	NA	0.1	0.0386	JN	NA
191	Total Cadmium/7440-43-9	SW6020	DUPLICATE #3	11020727-26	110215	NA	NA	0.002	0.0193		NA
192	Total Lead/7439-92-1	SW6020	DUPLICATE #3	11020727-26	110215	NA	NA	0.005	0.00794		NA
193	Total Manganese/7439-96-5	SW6020	DUPLICATE #3	11020727-26	110215	NA	NA	0.002	13.5		NA
194	Total Nickel/7440-02-0	SW6020	DUPLICATE #3	11020727-26	110215	NA	NA	0.002	0.602	N	NA
195	Total Thallium/7440-28-0	SW6020	DUPLICATE #3	11020727-26	110215	NA	NA	0.01	< 0.01		NA
196	Total Zinc/7440-66-6	SW6020	DUPLICATE #3	11020727-26	110215	NA	NA	0.01	1.46	N	NA
197	Total Arsenic/7440-38-2	SW6020	BA-05A	11020727-27	110216	RECAP SS	0.010	0.004	0.00203	JN	No
198	Total Cadmium/7440-43-9	SW6020	BA-05A	11020727-27	110216	RECAP SS	0.005	0.002	< 0.002		No
199	Total Lead/7439-92-1	SW6020	BA-05A	11020727-27	110216	EPA Site Cleanup	0.015	0.001	0.000601	J	No
200	Total Manganese/7439-96-5	SW6020	BA-05A	11020727-27	110216	RECAP SS	0.510	0.002	0.00329		No
201	Total Nickel/7440-02-0	SW6020	BA-05A	11020727-27	110216	RECAP SS	0.073	0.002	0.00107	JN	No
202	Total Thallium/7440-28-0	SW6020	BA-05A	11020727-27	110216	RECAP SS	0.002	0.002	< 0.002		No
203	Total Zinc/7440-66-6	SW6020	BA-05A	11020727-27	110216	RECAP SS	1.1	0.01	0.00395	JN	No
204	Total Cadmium/7440-43-9	SW6020	BA-05	11020727-28	110216	RECAP SS	0.005	0.002	< 0.002		No
205	Total Lead/7439-92-1	SW6020	BA-05	11020727-28	110216	EPA Site Cleanup	0.015	0.001	0.000582	J	No
206	**Total Manganese/7439-96-5**	**SW6020**	**BA-05**	**11020727-28**	**110216**	**RECAP SS**	**0.510**	**0.002**	**18.5**		**Yes**
207	**Total Nickel/7440-02-0**	**SW6020**	**BA-05**	**11020727-28**	**110216**	**RECAP SS**	**0.073**	**0.002**	**0.0806**	**N**	**Yes**
208	Total Thallium/7440-28-0	SW6020	BA-05	11020727-28	110216	RECAP SS	0.002	0.002	< 0.002		No
209	Total Zinc/7440-66-6	SW6020	BA-05	11020727-28	110216	RECAP SS	1.100	0.01	0.0133	N	No
210	**Total Arsenic/7440-38-2**	**SW6010B**	**BA-05**	**11020727-28**	**110216**	**RECAP SS**	**0.01**	**0.02**	**0.0162**	**J**	**Yes**
211	Total Arsenic/7440-38-2	SW6020	MW-A	11020727-29	110216	RECAP SS	0.010	0.004	0.00134	JN	No
212	Total Cadmium/7440-43-9	SW6020	MW-A	11020727-29	110216	RECAP SS	0.005	0.002	< 0.002		No
213	Total Lead/7439-92-1	SW6020	MW-A	11020727-29	110216	EPA Site Cleanup	0.015	0.001	0.000617	J	No
214	Total Manganese/7439-96-5	SW6020	MW-A	11020727-29	110216	RECAP SS	0.510	0.002	0.00471		No
215	Total Nickel/7440-02-0	SW6020	MW-A	11020727-29	110216	RECAP SS	0.073	0.002	0.00102	JN	No
216	Total Thallium/7440-28-0	SW6020	MW-A	11020727-29	110216	RECAP SS	0.002	0.002	< 0.002		No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
217	Total Zinc/7440-66-6	SW6020	MW-A	11020727-29	110216	RECAP SS	1.1	0.01	0.0039	JN	No
218	**Total Arsenic/7440-38-2**	**SW6020**	**DW-1**	**11020727-30**	**110216**	**RECAP SS**	**0.010**	**0.004**	**0.0819**	**N**	**Yes**
219	**Total Cadmium/7440-43-9**	**SW6020**	**DW-1**	**11020727-30**	**110216**	**RECAP SS**	**0.005**	**0.002**	**0.0154**	**N**	**Yes**
220	Total Lead/7439-92-1	SW6020	DW-1	11020727-30	110216	EPA Site Cleanup	0.015	0.001	0.00383		No
221	**Total Manganese/7439-96-5**	**SW6020**	**DW-1**	**11020727-30**	**110216**	**RECAP SS**	**0.510**	**0.002**	**1.58**		**Yes**
222	Total Nickel/7440-02-0	SW6020	DW-1	11020727-30	110216	RECAP SS	0.073	0.002	0.0206	N	No
223	Total Thallium/7440-28-0	SW6020	DW-1	11020727-30	110216	RECAP SS	0.002	0.002	0.000385	J	No
224	Total Zinc/7440-66-6	SW6020	DW-1	11020727-30	110216	RECAP SS	1.1	0.01	0.0579	N	No
225	**Total Arsenic/7440-38-2**	**SW6020**	**MW-1**	**11020727-31**	**110216**	**RECAP SS**	**0.010**	**0.1**	**0.0395**	**JN**	**Yes**
226	Total Cadmium/7440-43-9	SW6020	MW-1	11020727-31	110216	RECAP SS	0.005	0.002	0.00475	N	No
227	Total Lead/7439-92-1	SW6020	MW-1	11020727-31	110216	EPA Site Cleanup	0.015	0.005	0.00578		No
228	**Total Manganese/7439-96-5**	**SW6020**	**MW-1**	**11020727-31**	**110216**	**RECAP SS**	**0.510**	**0.002**	**5.69**		**Yes**
229	**Total Nickel/7440-02-0**	**SW6020**	**MW-1**	**11020727-31**	**110216**	**RECAP SS**	**0.073**	**0.002**	**0.226**	**N**	**Yes**
230	**Total Thallium/7440-28-0**	**SW6020**	**MW-1**	**11020727-31**	**110216**	**RECAP SS**	**0.002**	**0.01**	**< 0.01**		**Yes**
231	Total Zinc/7440-66-6	SW6020	MW-1	11020727-31	110216	RECAP SS	1.1	0.01	0.258	N	No
232	Dissolved Arsenic/7440-38-2	SW6020	BA-03A	11020727-32	110216	RECAP SS	0.010	0.004	0.00165	J	No
233	Dissolved Cadmium/7440-43-9	SW6020	BA-03A	11020727-32	110216	RECAP SS	0.005	0.002	0.000969	J	No
234	Dissolved Lead/7439-92-1	SW6020	BA-03A	11020727-32	110216	EPA Site Cleanup	0.015	0.001	< 0.001		No
235	Dissolved Manganese/7439-96-5	SW6020	BA-03A	11020727-32	110216	RECAP SS	0.510	0.002	0.0395		No
236	Dissolved Nickel/7440-02-0	SW6020	BA-03A	11020727-32	110216	RECAP SS	0.073	0.002	0.00363	B	No
237	Dissolved Thallium/7440-28-0	SW6020	BA-03A	11020727-32	110216	RECAP SS	0.002	0.002	0.000364	J	No
238	Dissolved Zinc/7440-66-6	SW6020	BA-03A	11020727-32	110216	RECAP SS	1.1	0.006	0.0032	J	No
239	Total Arsenic/7440-38-2	SW6020	BA-03A	11020727-32	110216	RECAP SS	0.010	0.004	< 0.004		No
240	**Total Cadmium/7440-43-9**	**SW6020**	**BA-03A**	**11020727-32**	**110216**	**RECAP SS**	**0.005**	**0.002**	**0.0443**		**Yes**
241	**Total Lead/7439-92-1**	**SW6020**	**BA-03A**	**11020727-32**	**110216**	**EPA Site Cleanup**	**0.015**	**0.001**	**0.0241**		**Yes**
242	Total Manganese/7439-96-5	SW6020	BA-03A	11020727-32	110216	RECAP SS	0.510	0.002	0.507		No
243	Total Nickel/7440-02-0	SW6020	BA-03A	11020727-32	110216	RECAP SS	0.073	0.002	0.0178		No
244	Total Thallium/7440-28-0	SW6020	BA-03A	11020727-32	110216	RECAP SS	0.002	0.002	< 0.002		No
245	Total Zinc/7440-66-6	SW6020	BA-03A	11020727-32	110216	RECAP SS	1.1	0.01	0.0798		No
246	Total Arsenic/7440-38-2	SW6020	BA-03	11020727-33	110216	RECAP SS	0.010	0.004	< 0.004		No
247	**Total Cadmium/7440-43-9**	**SW6020**	**BA-03**	**11020727-33**	**110216**	**RECAP SS**	**0.005**	**0.002**	**0.0517**	**N**	**Yes**
248	**Total Lead/7439-92-1**	**SW6020**	**BA-03**	**11020727-33**	**110216**	**EPA Site Cleanup**	**0.015**	**0.001**	**0.0321**		**Yes**
249	**Total Manganese/7439-96-5**	**SW6020**	**BA-03**	**11020727-33**	**110216**	**RECAP SS**	**0.510**	**0.002**	**0.674**		**Yes**
250	Total Nickel/7440-02-0	SW6020	BA-03	11020727-33	110216	RECAP SS	0.073	0.002	0.024	N	No
251	Total Thallium/7440-28-0	SW6020	BA-03	11020727-33	110216	RECAP SS	0.002	0.002	0.000599	J	No
252	Total Zinc/7440-66-6	SW6020	BA-03	11020727-33	110216	RECAP SS	1.1	0.01	0.115	N	No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
253	Total Arsenic/7440-38-2	SW6020	MW-2	11020727-34	110216	RECAP SS	0.010	0.004	< 0.004		No
254	**Total Cadmium/7440-43-9**	**SW6020**	**MW-2**	**11020727-34**	**110216**	**RECAP SS**	**0.005**	**0.002**	**0.112**	**N**	**Yes**
255	Total Lead/7439-92-1	SW6020	MW-2	11020727-34	110216	EPA Site Cleanup	0.015	0.001	0.00382		No
256	**Total Manganese/7439-96-5**	**SW6020**	**MW-2**	**11020727-34**	**110216**	**RECAP SS**	**0.510**	**0.002**	**1.11**		**Yes**
257	Total Nickel/7440-02-0	SW6020	MW-2	11020727-34	110216	RECAP SS	0.073	0.002	0.0612	N	No
258	Total Thallium/7440-28-0	SW6020	MW-2	11020727-34	110216	RECAP SS	0.002	0.002	0.000341	J	No
259	Total Zinc/7440-66-6	SW6020	MW-2	11020727-34	110216	RECAP SS	1.1	0.01	0.27	N	No
260	Total Arsenic/7440-38-2	SW6020	DUPLICATE #4	11020727-35	110216	NA	NA	0.004	< 0.004		NA
261	Total Cadmium/7440-43-9	SW6020	DUPLICATE #4	11020727-35	110216	NA	NA	0.002	0.108		NA
262	Total Lead/7439-92-1	SW6020	DUPLICATE #4	11020727-35	110216	NA	NA	0.001	0.00304		NA
263	Total Manganese/7439-96-5	SW6020	DUPLICATE #4	11020727-35	110216	NA	NA	0.002	1.05		NA
264	Total Nickel/7440-02-0	SW6020	DUPLICATE #4	11020727-35	110216	NA	NA	0.002	0.0693		NA
265	Total Thallium/7440-28-0	SW6020	DUPLICATE #4	11020727-35	110216	NA	NA	0.002	0.000331	J	NA
266	Total Zinc/7440-66-6	SW6020	DUPLICATE #4	11020727-35	110216	NA	NA	0.01	0.257		NA

Abrev.: NA = Not Applicable
mg/L= milligrams per Liter
N = Recovery in the Matrix Spike and Matrix Spike Duplicate exceeded the control limit acceptance criteria
J = Flagged by lab due Estimated Value between MDL and PQL
B/V = Analyte Detected in the associated Method Blank above Rep. Limit

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

	Potentiometric Data			Groundwater Analytical Data														
					Total Metals							Dissolved						
Monitoring/ Sample Well No. & Date	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)	Zinc (mg/L)
FIRST WATER-BEARING ZONE																		
DW-01																		
May-09	13.36	10.97	2.39	**5.71**	**0.157**	NA	0.000127 JN	0.417	0.00686 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	13.36	11.70	1.66	**5.60**	**0.169**	NA	0.00115	0.291	0.00454	0.000945 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	13.36	9.68	3.68	**5.16**	**0.0410**	NA	<0.002	**2.10**	0.0268	<0.002	NA	**0.102 N**	NA	0.000443 J	**2.03 E**	0.0263 N	<0.002	NA
February-10	13.36	8.96	4.40	**5.19**	**0.0648**	NA	0.00357	**5.19**	0.0187	<0.002	NA	0.0029 J	NA	0.00283	**6.21**	0.022	<0.002	NA
April-10	13.36	11.10	2.26	**5.53**	**0.12**	NA	0.00254	**4.72**	0.0254	0.000324 J	NA	**0.041**	NA	0.000628 J	**3.82**	0.0222	<0.002	NA
September-10	13.36	9.25	4.11	**5.60**	**0.141**	NA	0.000682 J	**1.62**	0.0197 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	13.36	9.25	4.11	**5.66**	**0.0519**	0.00268	0.000477 J	**0.592**	0.00618	<0.002	0.0190	NA	NA	NA	NA	NA	NA	NA
February-11	13.36	11.40	1.96	**5.56**	**0.0819 N**	**0.0154 N**	0.00383	**1.58**	0.0206 N	0.000385 J	0.0579 N	NA	NA	NA	NA	NA	NA	NA
DW-02																		
May-09	14.12	4.51	9.61	**2.90**	**0.0628 N**	NA	0.00566 N	**9.22**	**0.370 N**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	14.12	6.13	7.99	**3.06**	**0.127**	NA	0.0138	**16.3**	**0.783**	**0.00475 J**	NA	NA	NA	NA	NA	NA	NA	NA
December-09	14.12	3.90	10.22	**2.90**	**0.0926**	NA	0.00438 J	**10.9**	**0.471**	**<0.01**	NA	NA	NA	NA	NA	NA	NA	NA
February-10	14.12	3.84	10.28	**3.20**	**0.0915**	NA	**0.0460**	**9.15**	**0.388**	**<0.01**	NA	NA	NA	NA	NA	NA	NA	NA
April-10	14.12	4.88	9.24	**3.06**	**0.0407**	NA	0.0114	**16.9**	**0.824**	**<0.01**	NA	NA	NA	NA	NA	NA	NA	NA
September-10	14.12	3.90	10.22	**2.82**	**<0.1**	NA	0.00871	**7.23**	**0.331 N**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	14.12	3.90	10.22	**2.81**	**0.0484 J**	**0.0182**	0.00554	**14.5**	**0.527**	<0.002	**1.36**	NA	NA	NA	NA	NA	NA	NA
February-11	14.12	4.25	9.87	**2.89**	**0.0425 JN**	**0.0187 N**	0.00865	**12.9**	**0.575 N**	**<0.01**	**1.41 N**	NA	NA	NA	NA	NA	NA	NA
DW-03																		
May-09	11.59	5.49	6.10	**3.74**	**0.0245 N**	NA	**0.0207 N**	**1.82**	0.0467 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	11.59	7.07	4.52	**3.79**	**0.0218**	NA	0.00243	**3.28**	**0.0789**	0.000979 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	11.59	4.92	6.67	**4.02**	**<0.02**	NA	**0.215**	0.205	0.0111	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	11.59	4.80	6.79	**3.88**	0.00180 J	NA	**0.220**	0.284	0.0145	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	11.59	5.58	6.01	**3.76**	**0.035**	NA	**0.0846**	**6.73**	**0.178**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	11.59	5.05	6.54	**3.52**	0.00868	NA	0.00343	0.312	0.0122 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	11.59	5.05	6.54	**3.40**	**0.0110**	**0.00639**	**0.132**	**1.26**	0.0309	<0.002	0.0541	NA	NA	NA	NA	NA	NA	NA
February-11	11.59	5.66	5.93	**3.68**	**0.0139 J**	**0.230 N**	**0.407**	**1.09**	0.0482 N	0.000700 J	0.0889 N	NA	NA	NA	NA	NA	NA	NA
MW-01																		
May-09	15.08	13.28	1.80	**3.11**	**0.0708 N**	NA	0.000232 JN	**4.89**	**0.199 N**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	15.08	14.01	1.07	**3.33**	**0.0774**	NA	0.00539	**5.44**	**0.237**	**0.00477 J**	NA	NA	NA	NA	NA	NA	NA	NA
December-09	15.08	12.64	2.44	**3.43**	**0.0467 J**	NA	<0.01	**5.26**	**0.223**	**<0.01**	NA	NA	NA	NA	NA	NA	NA	NA
February-10	15.08	12.64	2.44	**3.11**	**0.0792**	NA	0.00389 J	3.57	**0.15**	**<0.01**	NA	NA	NA	NA	NA	NA	NA	NA
April-10	15.08	13.81	1.27	**3.46**	**0.043**	NA	0.00261 J	**5.6**	**0.239**	0.000744 J	NA	NA	NA	NA	NA	NA	NA	NA
September-10	15.08	12.05	3.03	**3.27**	**<0.1**	NA	0.000786 J	**5.01**	**0.228 N**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	15.08	12.05	3.03	**3.37**	**0.0329 J**	**0.00636**	0.00182	**5.22**	**0.186**	<0.002	0.246	NA	NA	NA	NA	NA	NA	NA
February-11	15.08	14.55	0.53	**3.40**	**0.0395 JN**	0.00475 N	0.00578	**5.69**	**0.226 N**	**<0.01**	0.258 N	NA	NA	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.0-9.0**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

	Potentiometric Data			**Groundwater Analytical Data**														
					Total Metals							Dissolved						
Monitoring/ Sample Well No. & Date	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)	Zinc (mg/L)
FIRST WATER-BEARING ZONE																		
MW-02																		
May-09	14.23	7.14	7.09	**3.05**	<0.01	NA	0.00229 N	**1.40**	**0.0753 N**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	14.23	8.37	5.86	**3.04**	**<0.02**	NA	0.00496	**2.33**	**0.0918**	0.00189 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	14.23	6.53	7.70	**3.16**	**<0.02**	NA	0.00257	**0.934**	**0.0958**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	14.23	6.50	7.73	**2.92**	**<0.02**	NA	0.00150	**0.728**	**0.0775**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	14.23	7.25	6.98	**3.39**	0.0035 J	NA	0.00418	**1.91**	**0.0801**	0.000804 J	NA	NA	NA	NA	NA	NA	NA	NA
September-10	14.23	6.95	7.28	**3.40**	**<0.02**	NA	0.00133	**0.568**	**0.0898 N**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	14.23	6.95	7.28	**3.15**	<0.004	**0.0918**	0.00234	**0.940**	0.0494	<0.002	0.237	NA	NA	NA	NA	NA	NA	NA
February-11	14.23	7.28	6.95	**3.23**	<0.004	**0.112 N**	0.00382	**1.11**	0.0612 N	0.000341 J	0.270 N	NA	NA	NA	NA	NA	NA	NA
MW-06																		
May-09	16.77	8.36	8.41	**3.72**	<0.01	NA	<0.002	**2.34**	0.0260	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	16.77	10.41	6.36	**3.89**	**<0.02**	NA	0.00148	**2.31**	0.0233	0.00102 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	16.77	6.59	10.18	**3.72**	**<0.02**	NA	<0.002	**2.44 N**	0.0207 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	16.77	6.48	10.29	**3.92**	**<0.02**	NA	0.000493 J	**2.25 N**	0.0191 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	16.77	8.21	8.56	**3.90**	<0.004	NA	<0.002	**1.92**	0.0179	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	16.77	8.41	8.36	**3.30**	**<0.02**	NA	0.000190 J	**2.24**	0.0286 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	16.77	8.41	8.36	**3.81**	**<0.02**	**0.0617**	<0.001	**3.38**	0.0317	<0.002	0.110	NA	NA	NA	NA	NA	NA	NA
February-11	16.77	8.19	8.58	**3.61**	0.00241 J	**0.0675**	0.00175	**3.14**	0.0354	0.000523 J	0.128	NA	NA	NA	NA	NA	NA	NA
PW-04																		
May-09	12.22	5.08	7.14	**3.83**	<0.01	NA	0.000447 JN	**2.37**	0.0530 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	12.22	7.12	5.10	**3.93**	**<0.02**	NA	0.00223	**1.73**	0.0452	0.000969 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	12.22	4.14	8.08	**4.24**	**<0.02**	NA	<0.002	**1.51**	0.0393	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	12.22	3.46	8.76	**4.06**	**<0.02**	NA	0.000655 J	**1.50**	0.0358	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	12.22	4.50	7.72	**4.15**	<0.005	NA	0.00109 J	**0.931**	0.0237	0.000151 J	NA	NA	NA	NA	NA	NA	NA	NA
August-10	12.22	4.82	7.40	**3.55**	<0.004	NA	0.000784 J	**1.11**	0.0339 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	12.22	4.52	7.70	**3.87**	0.00168 J	0.00111 J	0.000757 J	**1.40**	0.0342	<0.002	0.0708	NA	NA	NA	NA	NA	NA	NA
February-11	12.22	5.28	6.94	**4.06**	0.00245 JN	0.000849 JN	0.002	**1.57**	0.0408 N	0.000438 J	0.0921 N	NA	NA	NA	NA	NA	NA	NA
BA-03																		
May-09	14.57	6.76	7.81	**3.98**	<0.01	NA	**0.129 N**	**1.95**	**0.0742 N**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	14.57	8.14	6.43	**3.11**	**0.0105 J**	NA	**0.346**	**4.55**	**0.188**	0.00195 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	14.57	6.33	8.24	**4.63**	**<0.02**	NA	**0.0329**	**0.755**	0.0321	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	14.57	6.05	8.52	**4.52**	**0.0150 J**	NA	**0.146**	**2.2**	**0.0898**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	14.57	6.83	7.74	**4.58**	0.004 J	NA	**0.144**	**2.23**	**0.0899**	0.000412 J	NA	NA	NA	NA	NA	NA	NA	NA
September-10	14.57	6.76	7.81	**3.85**	<0.004	NA	**0.0827**	**1.55**	0.0612 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	14.57	6.76	7.81	**3.46**	<0.01	**0.130**	**0.111**	**2.14**	0.0671	<0.002	0.304	NA	NA	NA	NA	NA	NA	NA
February-11	14.57	6.73	7.84	**4.13**	<0.004	**0.0517 N**	**0.0321**	**0.674**	0.0240 N	0.000599 J	0.115 N	NA	NA	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.0-9.0**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

	Potentiometric Data			**Groundwater Analytical Data**														
					Total Metals							Dissolved						
Monitoring/ Sample Well No. & Date	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)	Zinc (mg/L)
FIRST WATER-BEARING ZONE																		
BA-09																		
May-09	9.46	8.35	1.11	**3.63**	**0.0297**	NA	<0.002	**2.99**	**0.146**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	9.46	8.98	0.48	**3.63**	**0.0407**	NA	0.000985 J	**3.91**	**0.194**	**<0.01**	NA	NA	NA	NA	NA	NA	NA	NA
December-09	9.46	5.61	3.85	**3.60**	**0.0364**	NA	<0.01	**2.04 N**	**0.121 N**	**<0.01**	NA	NA	NA	NA	NA	NA	NA	NA
February-10	9.46	7.09	2.37	**3.58**	**0.0452**	NA	<0.005	**3.41**	**0.161**	**<0.01**	NA	NA	NA	NA	NA	NA	NA	NA
April-10	9.46	8.56	0.90	**3.71**	**0.0222**	NA	0.000272 J	**4.08**	**0.195**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	9.46	6.57	2.89	**2.81**	**0.0255 J**	NA	<0.001	**3.31**	**0.160**	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	9.46	6.57	2.89	**3.80**	**0.0239 J**	<0.002	<0.001	**2.05**	**0.104**	<0.002	0.161	NA	NA	NA	NA	NA	NA	NA
February-11	9.46	8.65	0.81	**3.50**	**0.0268 J**	0.000453 J	0.00123	**2.61**	**0.141**	0.000442 J	0.440	NA	NA	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.0-9.0**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**
SECOND WATER-BEARING ZONE																		
DW-04																		
May-09	14.21	4.22	9.99	7.10	<0.004	NA	<0.002	0.0434	0.00161 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	14.21	5.79	8.42	7.15	<0.004	NA	0.00139	0.0662	0.000995 J	0.000935 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	14.21	4.72	9.49	7.13	<0.004	NA	<0.002	0.0519 N	<0.002 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	14.21	3.89	10.32	7.88	<0.004	NA	0.000534 J	0.000732 JN	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	14.21	4.12	10.09	7.51	<0.004	NA	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	14.21	4.28	9.93	7.48	<0.004	NA	<0.001	0.0444	0.00109 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	14.21	4.28	9.93	6.92	<0.004	<0.002	<0.001	0.0614	0.00121 J	<0.002	0.00314 J	NA	NA	NA	NA	NA	NA	NA
February-11	14.21	4.32	9.89	7.12	0.00187 J	<0.002	0.000841 J	0.00260	0.00100 J	0.000412 J	0.00239 J	NA	NA	NA	NA	NA	NA	NA
MW-A																		
May-09	15.12	9.74	5.38	7.19	<0.004	NA	<0.002	0.00508	0.00150 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	15.12	10.58	4.54	7.14	<0.004	NA	0.000868 J	0.0142	0.00154 J	0.000933 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	15.12	9.52	5.60	7.07	<0.004	NA	<0.002	0.00287	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	15.12	9.29	5.83	7.39	<0.004	NA	<0.001	0.00402	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	15.12	10.12	5.00	6.91	<0.004	NA	0.000271 J	0.00724	0.00178 J	0.00015 J	NA	NA	NA	NA	NA	NA	NA	NA
September-10	15.12	9.08	6.04	7.43	<0.004	NA	<0.001	0.00991	0.00197 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	15.12	9.08	6.04	7.02	<0.004	<0.002	<0.001	0.00425	0.000523 J	<0.002	0.00300 J	NA	NA	NA	NA	NA	NA	NA
February-11	15.12	10.68	4.44	7.16	0.00134 JN	<0.002	0.000617 J	0.00471	0.00102 JN	<0.002	0.00390 JN	NA	NA	NA	NA	NA	NA	NA
MW-03																		
May-09	14.80	5.39	9.41	6.71	<0.004	NA	0.000594 J	**7.26**	0.00504	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	14.80	7.78	7.02	6.59	<0.004	NA	0.00544	**0.946**	0.00260	0.000957 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	14.80	6.14	8.66	6.93	<0.004	NA	0.00333	**0.535 N**	0.00132 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	14.80	4.78	10.02	6.82	<0.004	NA	0.00508	0.462 N	0.00141 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	14.80	5.40	9.40	6.60	<0.004	NA	0.0015 J	**0.677**	0.00138 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	14.80	5.40	9.40	6.88	<0.004	NA	0.00306	**0.771**	0.00388	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	14.80	5.40	9.40	6.53	<0.004	<0.002	0.00318	**0.850**	0.00193 J	<0.002	0.00144 J	NA	NA	NA	NA	NA	NA	NA
February-11	14.80	6.19	8.61	6.58	<0.004	<0.002	0.00240	0.509	0.00219	0.000418 J	0.00235 J	NA	NA	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

	Potentiometric Data			Groundwater Analytical Data														
					Total Metals							Dissolved						
Monitoring/ Sample Well No. & Date	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)	Zinc (mg/L)
SECOND WATER-BEARING ZONE																		
MW-04																		
May-09	17.38	13.54	3.84	**6.40**	<0.004	NA	0.00121 J	0.0223	0.00410	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	17.38	15.61	1.77	**6.41**	<0.004	NA	0.00128	0.0127	0.00102 J	0.000941 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	17.38	13.41	3.97	**6.42**	<0.004	NA	<0.002	0.00898 N	<0.002 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	17.38	12.46	4.92	6.77	<0.004	NA	0.000524 J	0.00770 N	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	17.38	13.38	4.00	6.70	<0.004	NA	<0.002	0.00843	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	17.38	13.70	3.68	6.61	<0.004	NA	<0.001	0.00439	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	17.38	13.70	3.68	6.56	<0.004	<0.002	<0.001	0.0106	0.000668 J	<0.002	0.00342 J	NA	NA	NA	NA	NA	NA	NA
February-11	17.38	14.45	2.93	6.59	<0.004	<0.002	0.00154	0.0134	0.0011 J	0.000417 J	0.00537 J	<0.004	0.000979 J	<0.001	0.000235 J	0.00148 JB	0.000592 J	0.00204 J
BA-01																		
May-09	14.57	5.65	8.92	**6.22**	0.00908 JN	NA	<0.002	**1.16**	0.0343 N	<0.002	NA	**0.0153**	NA	<0.002	**1.24**	0.0368	<0.002	NA
August-09	14.57	7.46	7.11	**6.27**	**<0.02**	NA	0.000762 J	**0.879**	0.0211	0.000939 J	NA	**0.0128 J**	NA	0.000697 J	**1.02**	0.0235	0.00190 J	NA
December-09	14.57	6.30	8.27	**6.28**	**<0.02**	NA	<0.002	**0.806**	0.0194	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	14.57	5.44	9.13	**6.16**	**0.0172 J**	NA	0.000806 J	**1.34**	0.0465	<0.002	NA	0.00829 J	NA	<0.001	**1.59**	0.0546	<0.002	NA
April-10	14.57	5.80	8.77	**5.94**	**0.015**	NA	0.00105 J	**1.51**	0.0612	<0.002	NA	0.0044 J	NA	<0.001	**1.42**	0.0605 B	<0.002	NA
August-10	14.57	5.40	9.17	**6.04**	0.00247 J	NA	<0.001	**1.05**	0.0329	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	14.57	5.40	9.17	**6.10**	<0.004	<0.002	<0.001	**1.03**	0.0188	<0.002	0.0174	<0.004	0.000236 J	<0.001	**1.06**	0.0216	<0.002	0.02
February-11	14.57	6.56	8.01	**6.06**	0.00241 J	0.0000733 J	0.00102	**1.37**	0.0499	0.000421 J	0.0553	0.0033 J	0.00104 J	<0.001	**1.23**	0.0445 B	0.000386 J	0.051
BA-05																		
May-09	14.20	7.17	7.03	**6.17**	<0.004	NA	0.000314 JN	**12.4**	0.0492 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	14.20	8.35	5.85	**6.23**	**<0.02**	NA	0.00101	**9.62**	0.0319	0.000938 J	NA	0.00236 J	NA	0.000630 J	**12.0**	0.0410	0.000941 J	NA
December-09	14.20	8.43	5.77	**6.08**	<0.004	NA	<0.002	**17.3**	0.0554	<0.002	NA	<0.004	NA	<0.002	**16.3 E**	0.0543 N	<0.002	NA
February-10	14.20	7.05	7.15	**6.33**	<0.004	NA	<0.001	**15.4**	0.058	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	14.20	7.58	6.62	**6.15**	0.00195 J	NA	0.000365 J	**13.5**	0.0517	0.00015 J	NA	<0.004	NA	<0.001	**14.1**	0.0557 B	<0.002	NA
August-10	14.20	6.75	7.45	**6.31**	0.00165 J	NA	<0.001	**8.52**	0.0308	<0.002	NA	0.00162 J	NA	<0.001	**9.29**	0.0358	<0.002	NA
December-10	14.20	6.75	7.45	**6.29**	0.00212 J	0.0000547 J	<0.001	**24.0**	**0.079**	<0.002	0.0119	<0.004	0.000229 J	<0.001	**22.3**	**0.0808**	<0.002	0.00821
February-11	14.20	8.09	6.11	**6.09**	**0.0162 J**	<0.002	0.000582 J	**18.5**	**0.0806 N**	<0.002	0.0133 N	NA	NA	NA	NA	NA	NA	NA
BA-09A																		
May-09	11.10	0.88	10.22	6.69	<0.004	NA	0.00125 J	0.0382	0.00160 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	11.10	1.79	9.31	6.50	<0.004	NA	0.00282	0.0372	<0.002	0.000951 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	11.10	0.90	10.20	6.82	<0.004	NA	<0.002	0.0305 N	<0.002 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	11.10	0.60	10.50	7.19	<0.004	NA	0.000504 J	0.0234 N	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	11.10	1.23	9.87	6.92	0.00192 J	NA	0.000828 J	0.0239	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	11.10	0.99	10.11	6.99	0.00187 J	NA	<0.001	0.0335	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	11.10	4.20	6.90	6.82	0.00201 J	<0.002	<0.001	0.0283	0.00182 J	<0.002	0.00188 J	NA	NA	NA	NA	NA	NA	NA
February-11	11.10	0.84	10.26	6.95	0.00279 J	<0.002	0.000878 J	0.0267	0.000516 J	0.000424 J	0.00341 J	NA	NA	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

	Potentiometric Data				Groundwater Analytical Data														
					Total Metals							Dissolved							
Monitoring/ Sample Well No. & Date	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)	Zinc (mg/L)	
SECOND WATER-BEARING ZONE																			
BC-03																			
May-09	16.32	5.11	11.21	7.19	<0.004	NA	0.00218	0.0170	0.00352	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
August-09	16.32	7.51	8.81	7.15	<0.004	NA	0.000948 J	0.0246	0.00147 J	0.000937 J	NA	NA	NA	NA	NA	NA	NA	NA	
December-09	16.32	5.49	10.83	7.05	<0.004	NA	<0.002	0.0124 N	0.000822 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
February-10	16.32	3.65	12.67	7.46	<0.004	NA	0.000221 J	0.00138 JN	0.00146 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
April-10	16.32	4.45	11.87	7.17	<0.004	NA	<0.002	0.000141 J	0.000884 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
August-10	16.32	5.10	11.22	7.39	<0.004	NA	<0.001	0.0165	0.00185 J	<0.002	NA	<0.004	NA	<0.001	0.0145	0.00186 J	<0.002	NA	
December-10	16.32	5.10	11.22	7.02	<0.004	<0.002	<0.001	0.00873	0.00129 J	<0.002	0.00187 J	NA	NA	NA	NA	NA	NA	NA	
February-11	16.32	4.56	11.76	7.06	<0.004	0.0000556 J	0.000948 J	0.00403	0.00186 J	0.000424 J	0.00298 J	NA	NA	NA	NA	NA	NA	NA	
BC-07																			
May-09	11.37	2.80	8.57	7.14	<0.004	NA	<0.002	0.0852	0.00212	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
August-09	11.37	4.84	6.53	7.04	<0.004	NA	0.00104	0.0798	0.00179 J	0.00127 J	NA	NA	NA	NA	NA	NA	NA	NA	
December-09	11.37	2.80	8.57	7.01	<0.004	NA	<0.002	0.0451 N	0.00130 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
February-10	11.37	2.24	9.13	7.39	<0.004	NA	0.000163 J	0.0129 N	0.000783 JN	0.000220 J	NA	NA	NA	NA	NA	NA	NA	NA	
April-10	11.37	2.92	8.45	7.19	0.0016 J	NA	<0.002	0.0314	0.000742 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
August-10	11.37	2.85	8.52	7.53	0.00203 J	NA	0.00504	0.220	0.00225	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
December-10	11.37	2.85	8.52	6.95	<0.004	<0.002	0.000352 J	0.0461	0.00185 J	<0.002	0.00202 J	NA	NA	NA	NA	NA	NA	NA	
February-11	11.37	2.79	8.58	7.09	0.00277 J	<0.002 J	<0.00137 J	0.0290	0.00317 J	<0.002	<0.01 J	NA	NA	NA	NA	NA	NA	NA	
BC-17																			
May-09	15.18	4.26	10.92	6.97	<0.004	NA	**0.0165**	0.298	0.00318	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
August-09	15.18	6.68	8.50	6.68	0.00282 J	NA	**0.0296**	0.354	0.00224	0.000956 J	NA	NA	NA	NA	NA	NA	NA	NA	
December-09	15.18	4.45	10.73	7.11	<0.004	NA	**0.0232**	0.0790 N	<0.002 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
February-10	15.18	3.90	11.28	7.06	<0.004	NA	**0.0209**	0.0709 N	0.00138 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
April-10	15.18	4.30	10.88	6.69	0.00248 J	NA	**0.0172**	0.106	0.00169 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
August-10	15.18	4.80	10.38	6.97	0.00233 J	NA	**0.0230**	0.242	0.00503	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
December-10	15.18	4.80	10.38	6.94	0.00270 J	<0.002	0.0144	0.0227	0.00143 J	<0.002	0.00366 J	NA	NA	NA	NA	NA	NA	NA	
February-11	15.18	4.38	10.80	6.71	0.00374 J	0.000764 J	**0.0243**	0.114	0.00362	0.000439 J	0.00406 J	NA	NA	NA	NA	NA	NA	NA	
BC-19																			
May-09	13.85	4.61	9.24	6.94	<0.004	NA	<0.002	0.0132	0.00264	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
August-09	13.85	6.55	7.30	6.90	<0.004	NA	0.000885 J	0.0345	0.00199 J	0.000937 J	NA	NA	NA	NA	NA	NA	NA	NA	
December-09	13.85	4.95	8.90	7.06	<0.004	NA	<0.002	0.0035 N	0.00105 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
February-10	13.85	4.02	9.83	7.26	<0.004	NA	0.000185 J	0.00119 JN	0.00104 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
April-10	13.85	4.40	9.45	6.97	<0.004	NA	<0.002	0.000316 J	0.00134 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
August-10	13.85	4.45	9.40	7.39	<0.004	NA	<0.001	0.0275	0.00184 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	
December-10	13.85	4.45	9.40	7.04	0.00165 J	<0.002	<0.001	0.00136 J	0.00142 J	<0.002	0.00235 J	NA	NA	NA	NA	NA	NA	NA	
February-11	13.85	4.67	9.18	6.97	<0.004	<0.002	0.000850 J	0.00272	0.00179 J	0.000474 J	0.00365 J	NA	NA	NA	NA	NA	NA	NA	
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**	

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

	Potentiometric Data			Groundwater Analytical Data														
					Total Metals							Dissolved						
Monitoring/ Sample Well No. & Date	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)	Zinc (mg/L)
SECOND WATER-BEARING ZONE																		
BC-21R																		
May-09	15.28	4.88	10.40	6.81	<0.004	NA	<0.002	0.00628	0.00252	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	15.28	7.92	7.36	6.75	<0.004	NA	0.000768 J	0.0763	0.00265	0.000935 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	15.28	5.56	9.72	7.03	<0.004	NA	<0.002	0.00886 N	0.000685 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	15.28	4.01	11.27	7.24	<0.004	NA	0.000162 J	0.00642 N	0.000979 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	15.28	4.67	10.61	6.83	<0.004	NA	<0.002	0.00468	0.00123 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	15.28	5.00	10.28	7.10	<0.004	NA	<0.001	0.0193	0.00187 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	15.28	5.00	10.28	6.84	<0.004	<0.002	<0.001	0.00649	0.00141 J	<0.002	0.00285 J	NA	NA	NA	NA	NA	NA	NA
February-11	15.28	5.40	9.88	6.86	<0.004	<0.002	0.000912 J	0.00758	0.00250	0.000416 J	0.00462 J	NA	NA	NA	NA	NA	NA	NA
BC-25																		
May-09	15.73	6.01	9.72	6.80	<0.004	NA	<0.002	**0.781**	0.00321	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	15.73	8.74	6.99	6.95	<0.004	NA	0.000870 J	0.202	0.00138 J	0.000931 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	15.73	6.71	9.02	6.95	<0.004	NA	<0.002	0.181 N	<0.002 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	15.73	5.02	10.71	7.32	<0.004	NA	0.000153 J	0.00641 N	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	15.73	5.68	10.05	6.75	<0.004	NA	<0.002	0.0277	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	15.73	6.22	9.51	7.17	<0.004	NA	<0.001	0.295	0.00125 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	15.73	6.22	9.51	6.78	<0.004	<0.002	<0.001	0.170	0.000532 J	<0.002	<0.01	NA	NA	NA	NA	NA	NA	NA
February-11	15.73	6.74	8.99	6.88	<0.004 J	<0.002 J	<0.001 J	0.0264	0.000680 J	<0.002	<0.01 J	NA	NA	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**
THIRD WATER-BEARING ZONE																		
BA-03A																		
May-09	14.76	1.74	13.02	6.84	<0.004	NA	**0.0640 N**	0.166	0.00768 N	<0.002	NA	0.00194 J	NA	0.000412 J	0.0617	<0.002	<0.002	NA
August-09	14.76	3.00	11.76	8.18	<0.004	NA	**0.0278**	0.0836	0.00413	0.000997 J	NA	0.00157 J	NA	0.000824 J	0.0529	0.000800 J	0.000941 J	NA
December-09	14.76	1.90	12.86	7.58	<0.004	NA	<0.002	0.0366	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	14.76	1.80	12.96	8.39	<0.004	NA	<0.001	0.0238	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	14.76	1.33	13.43	8.13	<0.004	NA	0.00119 J	0.037	0.00163 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
September-10	14.76	1.70	13.06	**8.68**	<0.004	NA	0.000862 J	0.0396	0.000720 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	14.76	1.70	13.06	8.04	<0.004	<0.002	0.000492 J	0.0327	<0.002	<0.002	0.00335 J	NA	NA	NA	NA	NA	NA	NA
February-11	14.76	1.59	13.17	8.34	<0.004	**0.0443**	**0.0241**	0.507	0.0178	<0.002	0.0798	0.00165 J	0.000969 J	<0.001	0.0395	0.00363 B	0.000364 J	0.0032 J
BA-05A																		
May-09	14.42	3.22	11.20	7.16	<0.004	NA	<0.002	0.00258	0.00200 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	14.42	4.35	10.07	7.25	<0.004	NA	0.000936 J	0.0275	0.000768 J	0.000934 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	14.42	3.32	11.10	6.82	<0.004	NA	<0.002	0.0248	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	14.42	3.06	11.36	7.38	<0.004	NA	<0.001	0.012	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	14.42	2.95	11.47	7.39	0.00238 J	NA	0.000326 J	0.00985	0.00176 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
September-10	14.42	3.25	11.17	7.38	0.00152 J	NA	<0.001	0.0318	0.00135 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	14.42	3.25	11.17	7.04	0.00147 J	<0.002	<0.001	0.0320	<0.002	<0.002	0.00232 J	NA	NA	NA	NA	NA	NA	NA
February-11	14.42	3.11	11.31	7.29	0.00203 JN	<0.002	0.000601 J	0.00329	0.00107 JN	<0.002	0.00395 JN	NA	NA	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

	Potentiometric Data			Groundwater Analytical Data														
					Total Metals							Dissolved						
Monitoring/ Sample Well No. & Date	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)	Zinc (mg/L)
THIRD WATER-BEARING ZONE																		
BB-01																		
May-09	15.75	2.86	12.89	**10.10**	0.00319 J	NA	0.00499	0.00493	0.00281	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	15.75	4.10	11.65	**9.66**	0.00442	NA	0.00952	0.00687	0.00201	0.000938 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	15.75	2.96	12.79	**9.75**	0.00235 J	NA	0.00354	0.00384	0.000723 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	15.75	2.79	12.96	**10.31**	0.00319 J	NA	0.00591	0.00421 N	0.00104 JN	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	15.75	2.42	13.33	**9.66**	0.00518	NA	0.00449	0.00489	0.000688 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	15.75	2.88	12.87	**11.04**	0.00570	NA	0.00426	0.00398	0.00121 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	15.75	2.88	12.87	**9.63**	0.00507	0.0000958 J	0.00499	0.00323	0.000982 J	<0.002	0.00382 J	NA	NA	NA	NA	NA	NA	NA
February-11	15.75	2.67	13.08	**9.86**	0.00555	0.000109 J	0.00571	0.00455	0.00334	0.000416 J	0.00690 J	NA	NA	NA	NA	NA	NA	NA
BA-01A																		
May-09	15.03	4.26	10.77	7.29	0.00341 J	NA	<0.002	0.00674	0.00129 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	15.03	5.38	9.65	7.13	0.00451	NA	0.000999 J	0.0223	<0.002	0.000930 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	15.03	4.50	10.53	7.50	0.00490	NA	<0.002	0.0175 N	<0.002 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	15.03	4.12	10.91	7.65	0.00417	NA	0.000339 J	0.00660 N	<0.002	0.000237 J	NA	NA	NA	NA	NA	NA	NA	NA
April-10	15.03	4.01	11.02	7.38	0.00638	NA	<0.002	0.00523	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	15.03	4.44	10.59	7.72	0.00667	NA	0.000200 J	0.0232	0.00207	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	15.03	4.46	10.57	7.10	0.00624	<0.002	<0.001	0.0123	<0.002	<0.002	0.00301 J	NA	NA	NA	NA	NA	NA	NA
February-11	15.03	4.37	10.66	7.36	0.00706	<0.002	0.00121	0.00700	0.00139 J	0.000410 J	0.00288 J	NA	NA	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**
WATER WELLS																		
(b) (6) **Well**																		
May-09	NA	NA	NA	6.84	<0.004	NA	0.00167 J	0.0209	0.00210	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	NA	NA	NA	7.73	<0.004	NA	0.00327	0.0220	0.000961 J	0.000934 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	NA	NA	NA	7.81	<0.004	NA	0.00184 J	0.0202 N	<0.002 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	NA	NA	NA	**8.60**	<0.004	NA	0.00292	0.0203 N	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	NA	NA	NA	8.26	0.00171 J	NA	0.00177 J	0.0249	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	NA	NA	NA	8.32	<0.004	NA	<0.001	< 0.0160	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	NA	NA	NA	8.22	<0.004	<0.002	0.00188	0.0213	0.000527 J	<0.002	0.00202 J	NA	NA	NA	NA	NA	NA	NA
February-11	NA	NA	NA	8.28	0.00186 J	<0.002	0.00341	0.0230	0.000568 J	0.000413 J	0.00368 J	NA	NA	NA	NA	NA	NA	NA
WW-04																		
May-09	NA	NA	NA	**8.68**	<0.004	NA	0.000549 J	0.00217	0.00126 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	NA	NA	NA	8.27	<0.004	NA	0.00177	0.00421	<0.002	0.000931 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	NA	NA	NA	7.73	<0.004	NA	<0.002	0.00254 N	<0.002 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	NA	NA	NA	**9.10**	<0.004	NA	<0.001	0.00297 N	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	NA	NA	NA	**8.72**	<0.004	NA	<0.002	0.00256	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	NA	NA	NA	**9.47**	<0.004	NA	<0.001	0.00306	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	NA	NA	NA	**8.69**	<0.004	<0.002	<0.001	0.00333	<0.002	<0.002	0.00256 J	NA	NA	NA	NA	NA	NA	NA
February-11	NA	NA	NA	**8.83**	<0.004	<0.002	0.000794 J	0.00355	<0.002	0.000413 J	0.00205 J	NA	NA	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

	Potentiometric Data			Groundwater Analytical Data														
					Total Metals							Dissolved						
Monitoring/ Sample Well No. & Date	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)	Zinc (mg/L)
WATER WELLS																		
WW-09																		
May-09	NA	NA	NA	**8.54**	<0.004	NA	<0.002	0.0163	0.00277	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	NA	NA	NA	8.03	<0.004	NA	0.00110	0.0177	0.00709	0.00131 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	NA	NA	NA	7.18	<0.004	NA	<0.002	0.0139 N	<0.002 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	NA	NA	NA	8.29	<0.004	NA	0.000381 J	0.0144 N	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	NA	NA	NA	7.94	<0.004	NA	<0.002	0.017	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	NA	NA	NA	**8.99**	<0.004	NA	0.00198	0.0228	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	NA	NA	NA	7.39	<0.004	<0.002	<0.001	0.0164	<0.002	<0.002	0.0731	NA	NA	NA	NA	NA	NA	NA
February-11	NA	NA	NA	7.97	<0.004 J	<0.002 J	<0.00123 J	0.0161	<0.002 J	<0.002	<0.01 J	NA	NA	NA	NA	NA	NA	NA
North Well																		
May-09	NA	NA	NA	**9.06**	<0.004	NA	<0.002	0.00305	0.00123 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	NA	NA	NA	**8.75**	<0.004	NA	0.00127	0.00455	<0.002	0.000929 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	NA	NA	NA	8.13	<0.004	NA	<0.002	0.00268 N	<0.002 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	NA	NA	NA	**9.10**	<0.004	NA	0.000732 J	0.00324 N	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	NA	NA	NA	**8.79**	<0.004	NA	0.000872 J	0.00457	0.0013 J	0.000339 J	NA	NA	NA	NA	NA	NA	NA	NA
August-10	NA	NA	NA	**9.53**	<0.004	NA	0.000511 J	0.00379	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	NA	NA	NA	8.50	<0.004	<0.002	<0.001	0.00347	<0.002	<0.002	0.00179 J	NA	NA	NA	NA	NA	NA	NA
February-11	NA	NA	NA	**8.63**	<0.004	<0.002	0.00135	0.00405	0.00148 J	0.000412 J	0.00277 J	NA	NA	NA	NA	NA	NA	NA
South Well																		
May-09	NA	NA	NA	**9.03**	<0.004	NA	<0.002	0.00316	0.00141 J	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-09	NA	NA	NA	**8.85**	<0.004	NA	0.000807 J	0.00479	<0.002	0.000932 J	NA	NA	NA	NA	NA	NA	NA	NA
December-09	NA	NA	NA	**9.32**	<0.004	NA	<0.002	0.00378 N	<0.002 N	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
February-10	NA	NA	NA	**9.42**	<0.004	NA	0.000213 J	0.00364 N	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
April-10	NA	NA	NA	**8.80**	<0.004	NA	<0.002	0.00378	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
August-10	NA	NA	NA	**9.79**	<0.004	NA	<0.001	0.00381	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
December-10	NA	NA	NA	**8.75**	<0.004	<0.002	<0.001	0.00413	<0.002	<0.002	0.00560 J	NA	NA	NA	NA	NA	NA	NA
February-11	NA	NA	NA	**9.00**	<0.004 J	<0.002 J	<0.001 J	0.00484	0.00204	<0.002	<0.01 J	NA	NA	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**	**0.010**	**0.005**	**0.015**	**0.51**	**0.073**	**0.0020**	**1.1**

Notes:

1) Top-of-casing (TOC) elevation - (depth to fluid) = Corrected GROUNDWATER (GW) elevation

2) Site specific cleanup standards were found in previous reports for Lead and pH only. The additional screening standards are from the LDEQ RECAP Screening Standards (SS). Screening Standards were provided by the LDEQ.

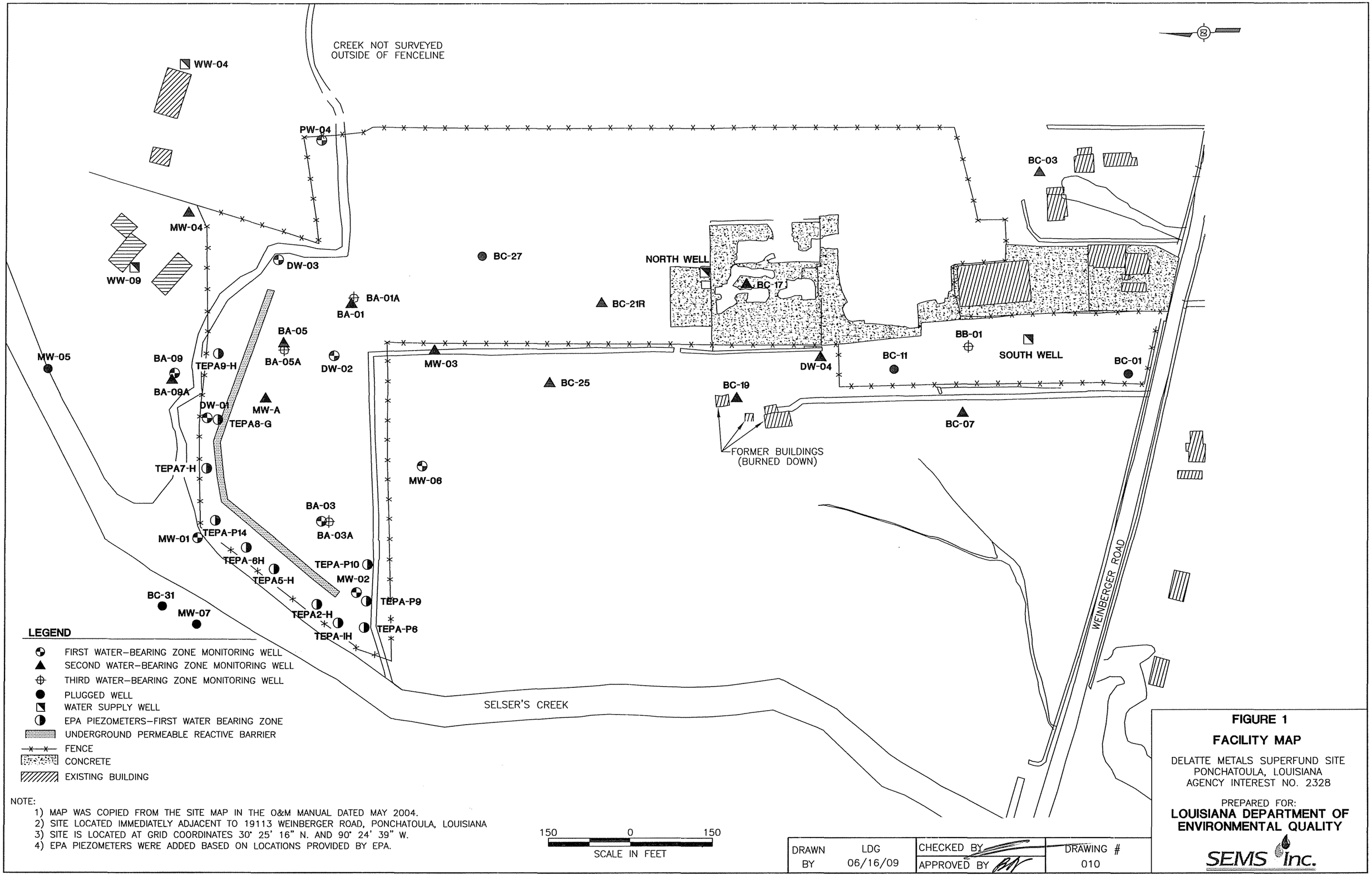
3) The Site Cleanup Standard for pH = 7.0 s.u.; however EPA Drinking Water Standards for pH = 6.5-8.5 s.u. and the EPA Storm Water Discharge Standards for pH=6.0-9.0 s.u are being used for comparison purposes.

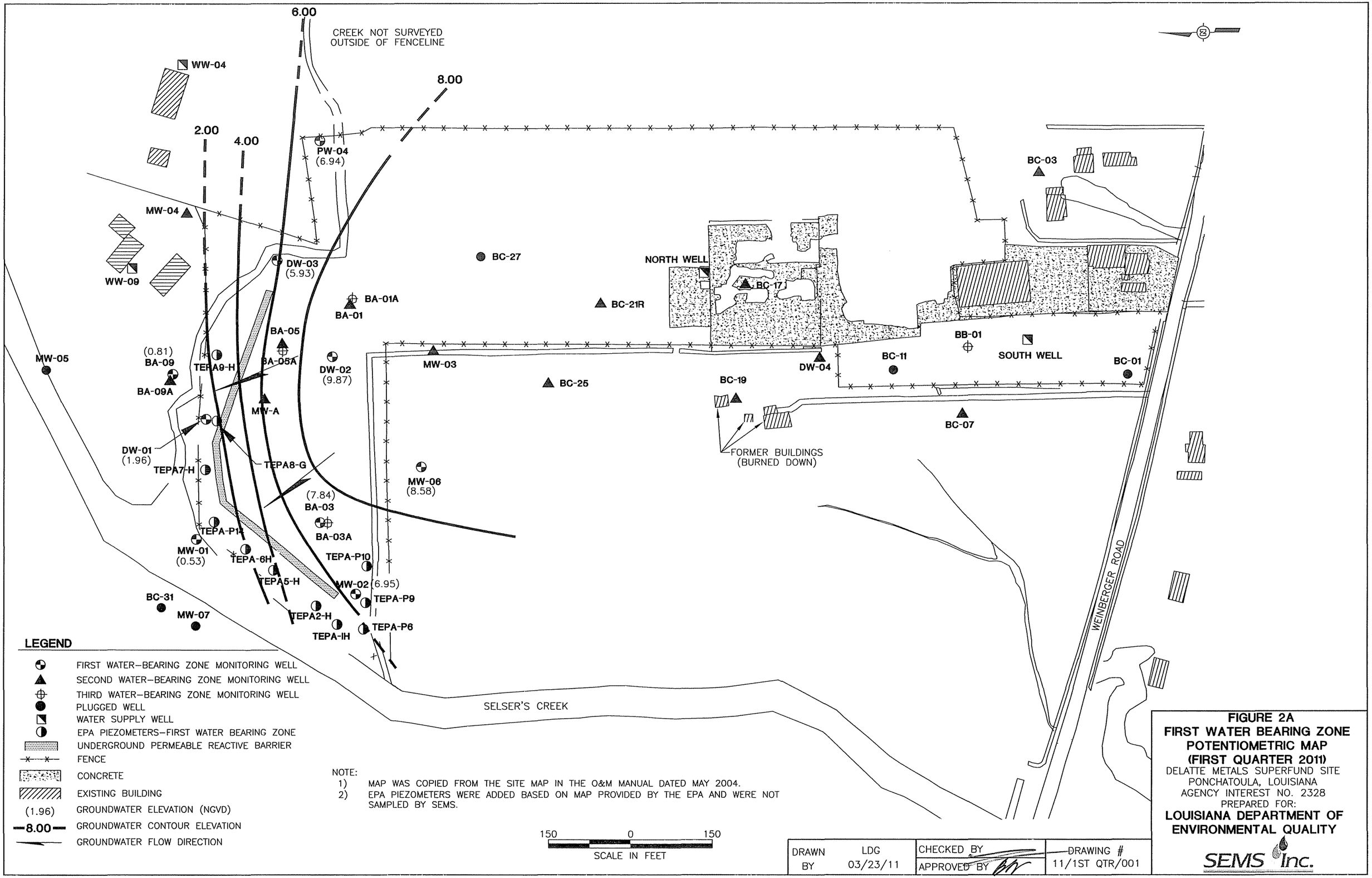
4) Bold Values Exceed Site Cleanup or RECAP SS

5) Reporting Limits from the analytical reports are used for non-detect results

Abrev.: NA = Not Applicable mg/L= milligrams per Liter NF = Not Found
NM = Not Measured NS=Not Sampled J = Flagged by lab due Estimated Value between MDL and PQL
D= Surrogate Recovery Unreportable due to Dilution B/V = Analyte Detected in the associated Method Blank above Rep. Limit
N = Recovery in the Matrix Spike and Matrix Spike Duplicate exceeded the control limit acce E= Concentrations Exceeding Calibration Rand of Instrument

FIGURES


CREEK NOT SURVEYED
OUTSIDE OF FENCELINE
WW-04
PW-04
MW-04
WW-09
DW-03
BC-27
NORTH WELL
BC-17
BC-21R
BA-01A
BA-01
BA-05
BA-05A
DW-02
MW-03
DW-04
BC-03
BB-01
SOUTH WELL
BC-11
BC-01
MW-05
BA-09
TEPA9-H
BA-09A
BC-25
BC-19
DW-01
MW-A
TEPA8-G
BC-07
FORMER BUILDINGS
(BURNED DOWN)
TEPA7-H
MW-06
BA-03
BA-03A
MW-01
TEPA-P14
TEPA-8H
TEPA-P10
TEPA5-H
MW-02
BC-31
TEPA-P9
MW-07
TEPA2-H
TEPA-P6
TEPA-1H
WEINBERGER ROAD
SELSER'S CREEK
LEGEND
FIRST WATER-BEARING ZONE MONITORING WELL
SECOND WATER-BEARING ZONE MONITORING WELL
THIRD WATER-BEARING ZONE MONITORING WELL
PLUGGED WELL
WATER SUPPLY WELL
EPA PIEZOMETERS-FIRST WATER BEARING ZONE
UNDERGROUND PERMEABLE REACTIVE BARRIER
FENCE
CONCRETE
EXISTING BUILDING
NOTE:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) SITE LOCATED IMMEDIATELY ADJACENT TO 19113 WEINBERGER ROAD, PONCHATOULA, LOUISIANA
3) SITE IS LOCATED AT GRID COORDINATES 30° 25' 16" N. AND 90° 24' 39" W.
4) EPA PIEZOMETERS WERE ADDED BASED ON LOCATIONS PROVIDED BY EPA.
150 0 150
SCALE IN FEET
DRAWN BY LDG 06/16/09
CHECKED BY
APPROVED BY
DRAWING # 010
FIGURE 1
FACILITY MAP
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
SEMS Inc.



LEGEND

- FIRST WATER–BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- EPA PIEZOMETERS–FIRST WATER BEARING ZONE
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (1.96) GROUNDWATER ELEVATION (NGVD)
- 8.00 GROUNDWATER CONTOUR ELEVATION
- GROUNDWATER FLOW DIRECTION

NOTE:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/23/11	CHECKED BY / APPROVED BY	DRAWING # 11/1ST QTR/001

FIGURE 2A
FIRST WATER BEARING ZONE POTENTIOMETRIC MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

10.00
8.00
6.00
4.00

WW-04
MW-04 (2.93)
WW-09
DW-03
BC-27
BA-01 (8.01)
BA-01A
(6.11) BA-05
BA-05A
DW-02
BC-21R (9.88)
NORTH WELL
BC-17 (10.80)
(11.76) BC-03
BB-01
SOUTH WELL
BC-11
BC-01
MW-05
BA-09
BA-09A (10.26) (NU)
DW-01
MW-A (4.44)
MW-03 (8.61)
BC-25 (8.99)
DW-04 (9.89)
(9.18) BC-19
BC-07 (8.58)
FORMER BUILDINGS (BURNED DOWN)
MW-06
BA-03
BA-03A
MW-01
MW-02
BC-31
MW-07
WEINBERGER ROAD
SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (9.89) GROUNDWATER ELEVATION (NGVD)
- 4.00 GROUNDWATER CONTOUR ELEVATION
- GROUNDWATER FLOW DIRECTION
- NU = NOT USED FOR CONTOURING

NOTE: MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/23/11	CHECKED BY	DRAWING # POT-002
		APPROVED BY BW	

FIGURE 2B
SECOND WATER BEARING ZONE POTENTIOMETRIC MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
AI NO. 2328
PONCHATULA, LOUISIANA
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04
PW-04
MW-04
WW-09
DW-03
BC-27
NORTH WELL
BC-17
BC-03
11.00
12.00
(10.66)
BA-01A
BA-01
BC-21R
(13.08)
BB-01
BA-05
BA-05A
(11.31)
DW-02
MW-03
SOUTH WELL
BC-11
BC-01
MW-05
BA-09
BA-09A
DW-01
MW-A
BC-25
BC-19
DW-04
13.00
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-06
BA-03
BA-03A
(13.17)
MW-01
MW-02
BC-31
MW-07
WEINBERGER ROAD
SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (13.17) GROUNDWATER ELEVATION (NGVD)
- —11.00— GROUNDWATER CONTOUR ELEVATION
- GROUNDWATER FLOW DIRECTION

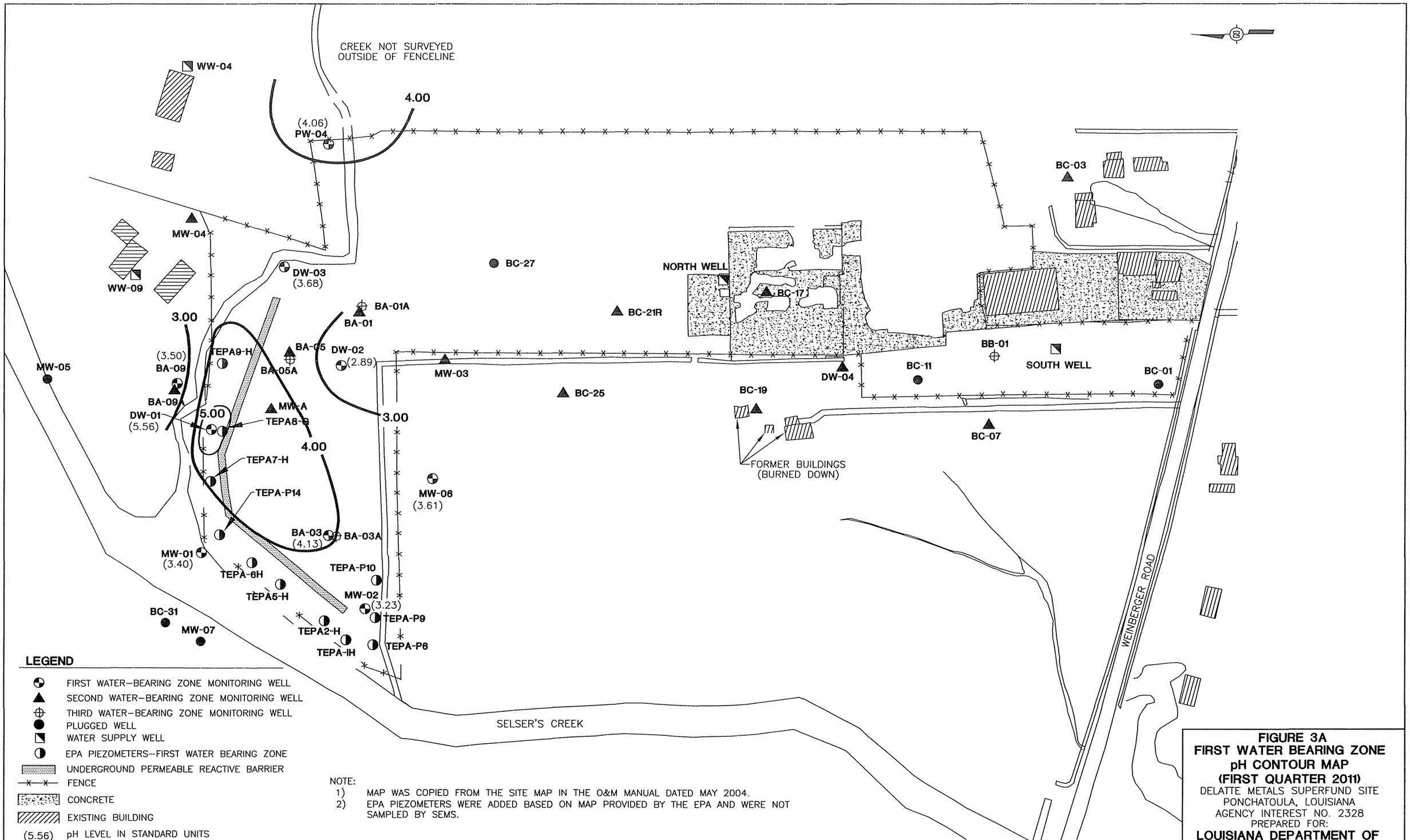
NOTE: MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/23/11	CHECKED BY	DRAWING # POT/003
		APPROVED BY	

FIGURE 2C
THIRD WATER BEARING ZONE POTENTIOMETRIC MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER–BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- EPA PIEZOMETERS--FIRST WATER BEARING ZONE
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (5.56) pH LEVEL IN STANDARD UNITS
- -3.00- pH CONTOUR

NOTE:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/23/11	CHECKED BY	DRAWING # 11/1ST QTR/004
		APPROVED BY	

FIGURE 3A
FIRST WATER BEARING ZONE
pH CONTOUR MAP
(FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04

PW-04

MW-04
(6.59)

WW-09

DW-03

BA-01A

BA-01
(6.06)

(6.09)
BA-05

BA-05A

DW-02

MW-05

BA-09

BA-09A
(6.95)

DW-01

6.50

MW-A
(7.16)

BC-27

NORTH WELL

BC-17
(6.71)

BC-21R
(6.86)

MW-03
(6.58)

BC-25
(6.88)

(6.97)
BC-19

DW-04
(7.12)

BC-11

BB-01

SOUTH WELL

BC-01

(7.06)
BC-03

BC-07
(7.09)

FORMER BUILDINGS
(BURNED DOWN)

MW-06

BA-03

BA-03A

MW-01

MW-02

BC-31

MW-07

WEINBERGER ROAD

SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (7.12) pH LEVEL IN STANDARD UNITS
- pH CONTOUR

NOTE: MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/23/11	CHECKED BY APPROVED BY	DRAWING # 11/1ST QTR/005

FIGURE 3B
SECOND WATER BEARING ZONE pH COUNTOUR MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04
PW-04
MW-04
WW-09
DW-03
BC-27
(7.36)
BA-01A
BA-01
BC-21R
NORTH WELL
BC-17
BC-03
(9.86)
BB-01
SOUTH WELL
BC-01
BA-05
BA-05A
(7.29)
DW-02
MW-03
DW-04
BC-11
MW-05
BA-09
BA-09A
DW-01
MW-A
BC-25
BC-19
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-06
BA-03
8.00
BA-03A
(8.34)
MW-01
MW-02
BC-31
MW-07
9.00
WEINBERGER ROAD
SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (8.34) pH LEVEL IN STANDARD UNITS
- pH CONTOUR

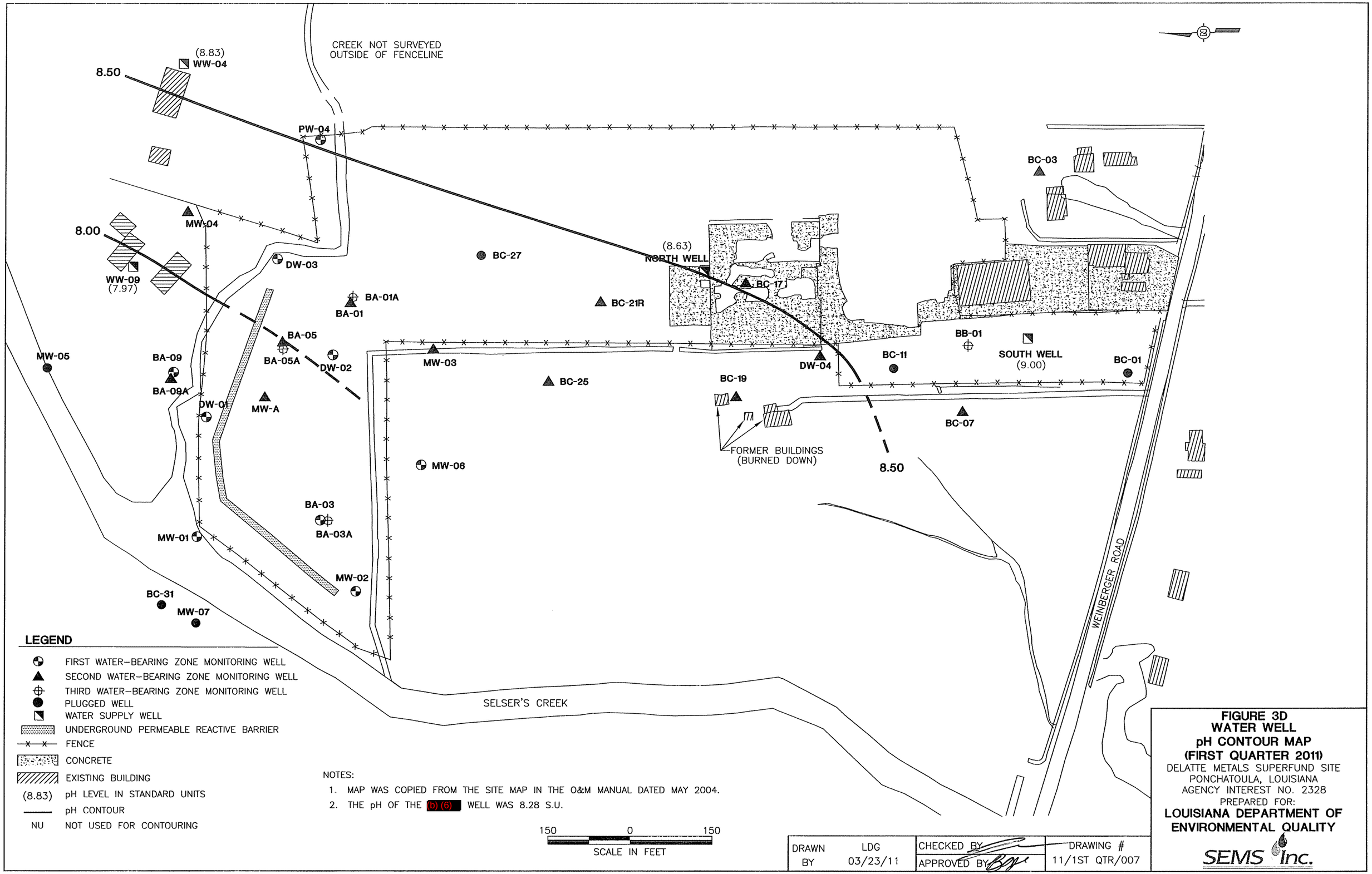
NOTE: MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/23/11	CHECKED BY	DRAWING # 11/1ST QTR/006
		APPROVED BY	

FIGURE 3C
THIRD WATER BEARING ZONE pH CONTOUR MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (8.83) pH LEVEL IN STANDARD UNITS
- pH CONTOUR
- NU NOT USED FOR CONTOURING

NOTES:

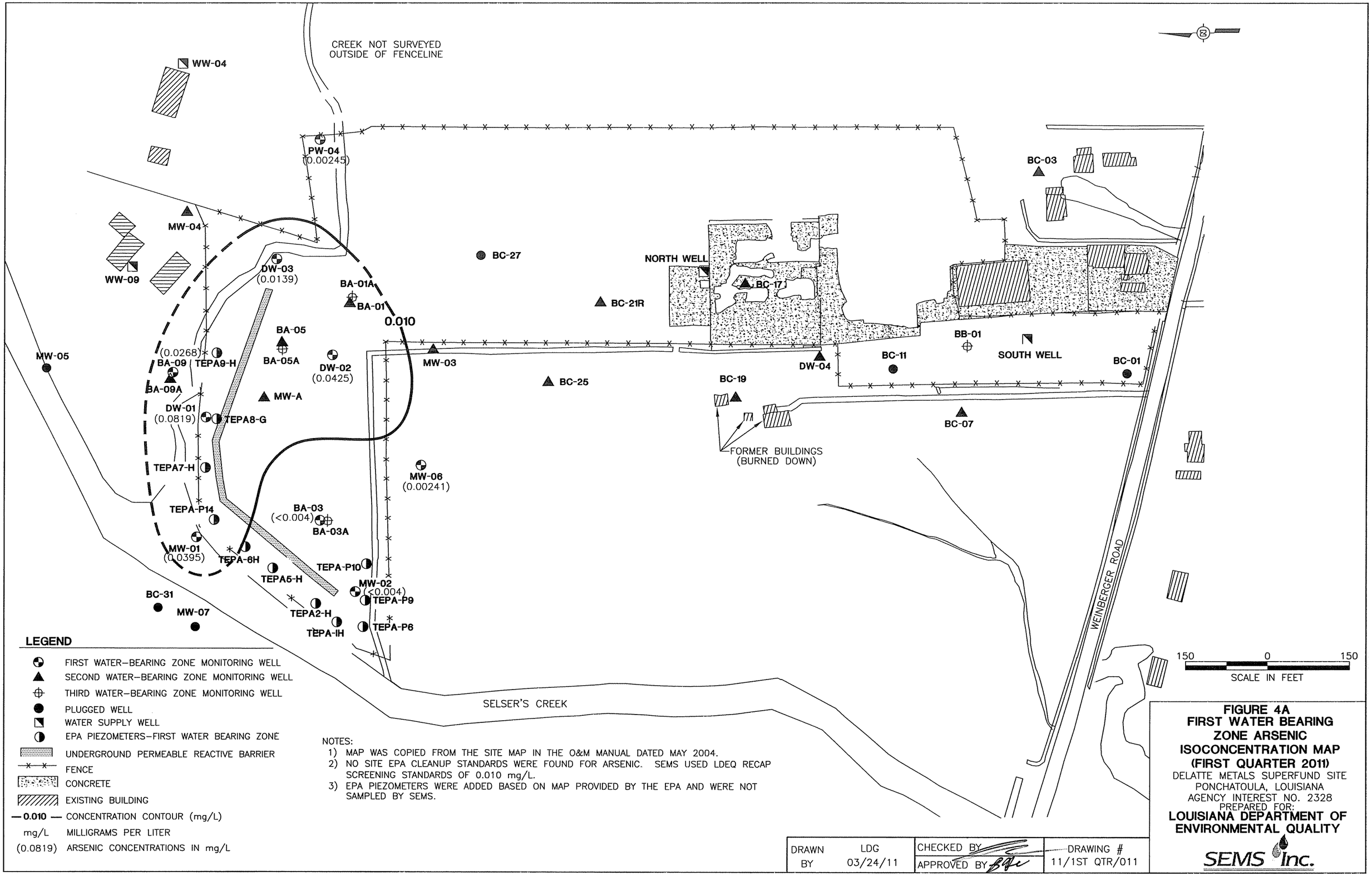
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. THE pH OF THE (b) (6) WELL WAS 8.28 S.U.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/23/11	CHECKED BY	DRAWING # 11/1ST QTR/007
		APPROVED BY	

FIGURE 3D
WATER WELL
pH CONTOUR MAP
(FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

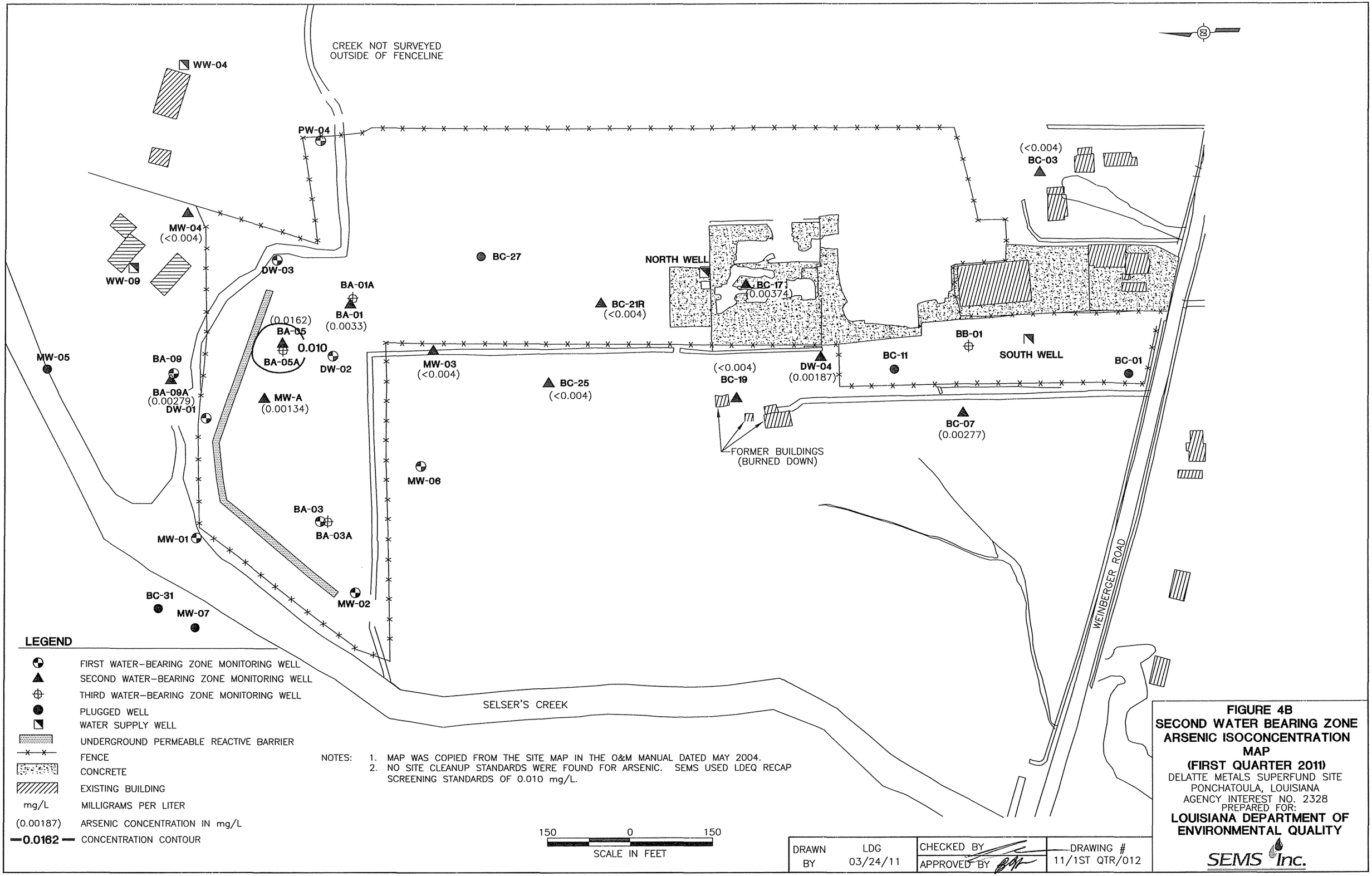
- FIRST WATER–BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- EPA PIEZOMETERS–FIRST WATER BEARING ZONE
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- —0.010— CONCENTRATION CONTOUR (mg/L)
- mg/L MILLIGRAMS PER LITER
- (0.0819) ARSENIC CONCENTRATIONS IN mg/L

NOTES:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE EPA CLEANUP STANDARDS WERE FOUND FOR ARSENIC. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.010 mg/L.
3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.

DRAWN BY	LDG 03/24/11	CHECKED BY	DRAWING # 11/1ST QTR/011
		APPROVED BY	

FIGURE 4A
FIRST WATER BEARING ZONE ARSENIC ISOCONCENTRATION MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L — MILLIGRAMS PER LITER
- (0.00187) — ARSENIC CONCENTRATION IN mg/L
- —0.0162— CONCENTRATION CONTOUR

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE CLEANUP STANDARDS WERE FOUND FOR ARSENIC. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.010 mg/L.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY APPROVED BY	DRAWING # 11/1ST QTR/012

FIGURE 4B
SECOND WATER BEARING ZONE ARSENIC ISOCONCENTRATION MAP
(FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04
PW-04
MW-04
WW-09
DW-03
(0.00706)
BA-01A
BA-01
BC-27
NORTH WELL
BC-17
BC-21R
BC-03
BB-01
(0.00555)
SOUTH WELL
BC-01
BC-11
DW-04
MW-03
BC-25
BC-19
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-05
BA-09
BA-09A
DW-01
BA-05
BA-05A
(0.00203)
DW-02
MW-A
MW-06
BA-03
BA-03A
(0.00165)
MW-01
MW-02
BC-31
MW-07
WEINBERGER ROAD
SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MILLIGRAMS PER LITER
- (<0.004) ARSENIC CONCETRATIONS IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE CLEANUP STANDARDS WERE FOUND FOR ARSENIC. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.010 mg/L.
3. NO WELLS SAMPLED EXCEEDED LDEQ SCREENING STANDARDS FOR ARSENIC

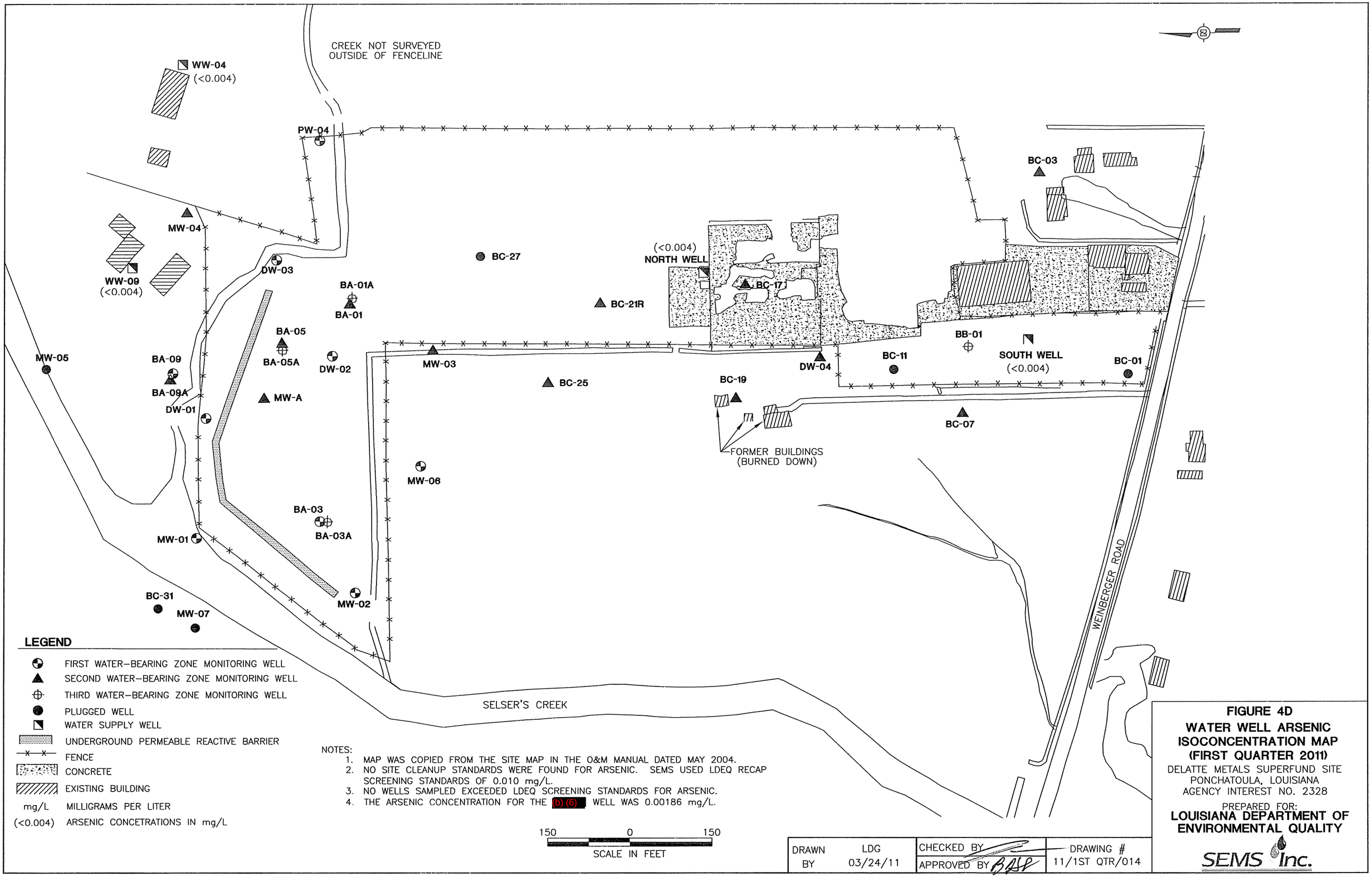
150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY / APPROVED BY	DRAWING # 11/1ST QTR/013

FIGURE 4C
THIRD WATER BEARING ZONE ARSENIC ISOCONCENTRATION MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MILLIGRAMS PER LITER
- (<0.004) ARSENIC CONCETRATIONS IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE CLEANUP STANDARDS WERE FOUND FOR ARSENIC. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.010 mg/L.
3. NO WELLS SAMPLED EXCEEDED LDEQ SCREENING STANDARDS FOR ARSENIC.
4. THE ARSENIC CONCENTRATION FOR THE (b) (6) WELL WAS 0.00186 mg/L.

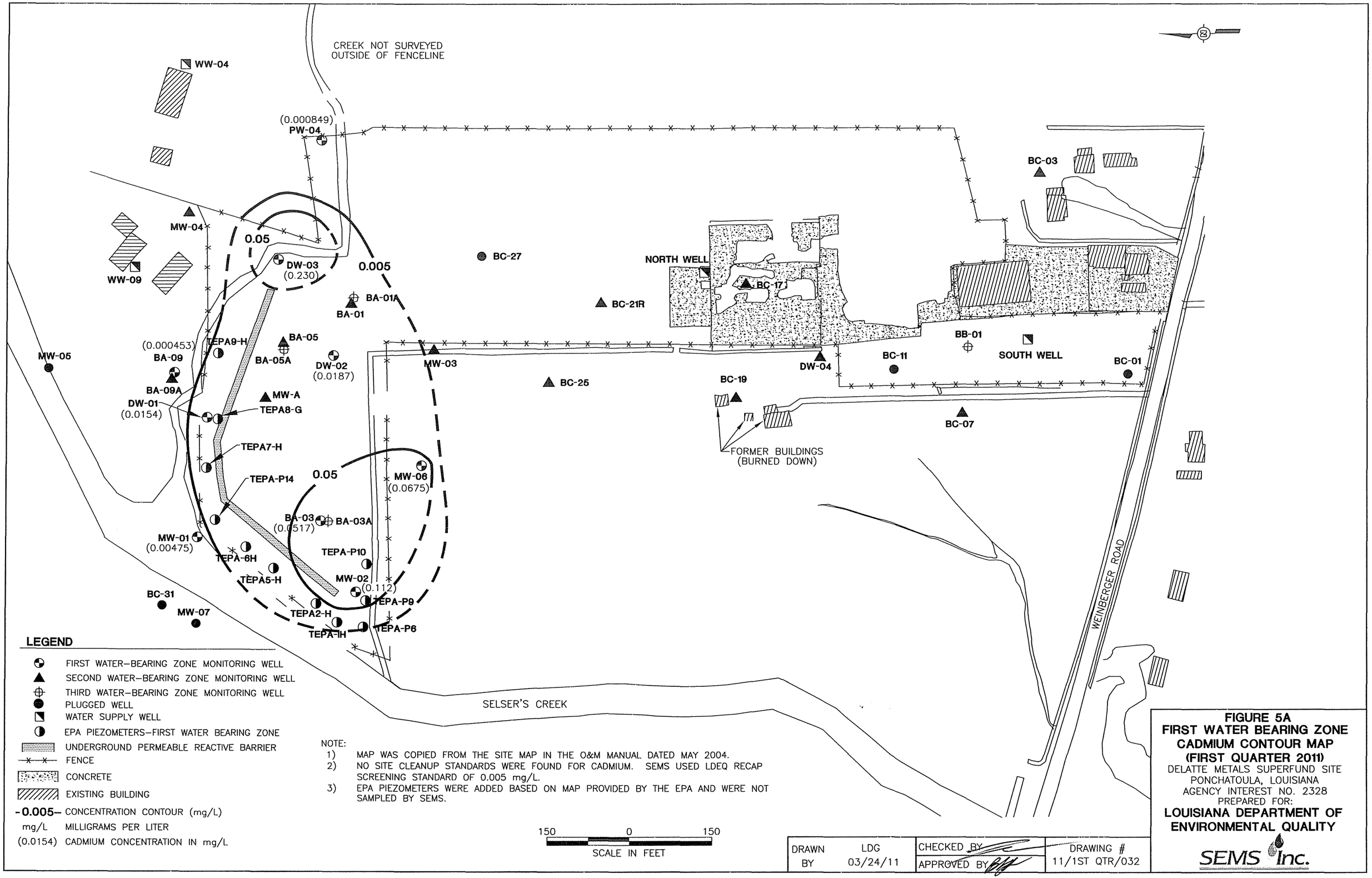
150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY APPROVED BY	DRAWING # 11/1ST QTR/014

FIGURE 4D
WATER WELL ARSENIC ISOCONCENTRATION MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER–BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- EPA PIEZOMETERS–FIRST WATER BEARING ZONE
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- -0.005- CONCENTRATION CONTOUR (mg/L)
- mg/L MILLIGRAMS PER LITER
- (0.0154) CADMIUM CONCENTRATION IN mg/L

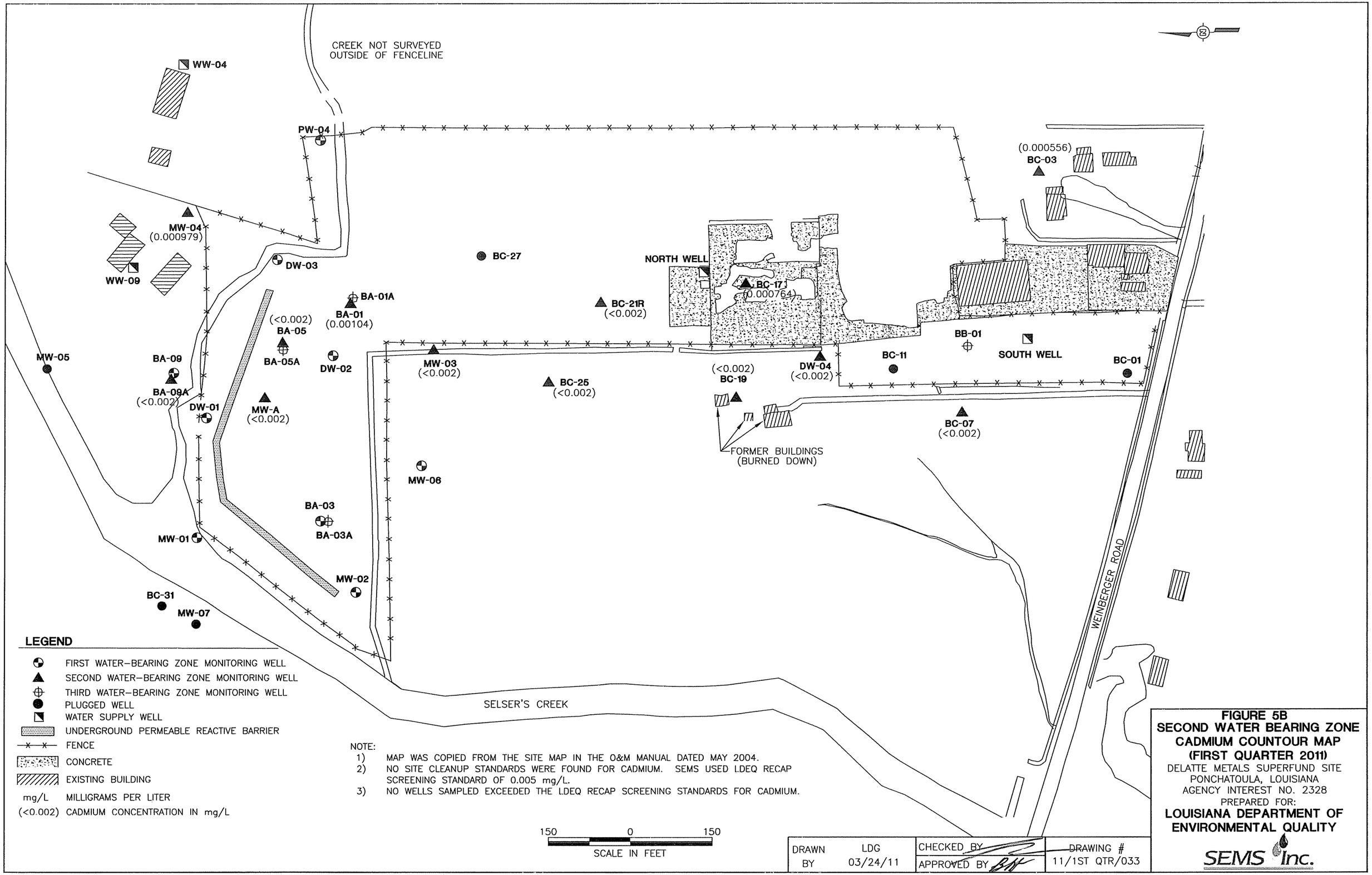
NOTE:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE CLEANUP STANDARDS WERE FOUND FOR CADMIUM. SEMS USED LDEQ RECAP SCREENING STANDARD OF 0.005 mg/L.
3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY	DRAWING # 11/1ST QTR/032
		APPROVED BY	

FIGURE 5A
FIRST WATER BEARING ZONE CADMIUM CONTOUR MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MILLIGRAMS PER LITER
- (<0.002) CADMIUM CONCENTRATION IN mg/L

NOTE:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE CLEANUP STANDARDS WERE FOUND FOR CADMIUM. SEMS USED LDEQ RECAP SCREENING STANDARD OF 0.005 mg/L.
3) NO WELLS SAMPLED EXCEEDED THE LDEQ RECAP SCREENING STANDARDS FOR CADMIUM.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY	DRAWING # 11/1ST QTR/033
		APPROVED BY	

FIGURE 5B
SECOND WATER BEARING ZONE CADMIUM COUNTOUR MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04
PW-04
MW-04
WW-09
DW-03
BC-27
NORTH WELL
BC-17
BC-03
(<0.002)
BA-01A
BA-01
BC-21R
BA-05
BA-05A
(<0.002)
DW-02
MW-03
DW-04
BC-11
BB-01
(0.000109)
SOUTH WELL
BC-01
MW-05
BA-09
BA-09A
DW-01
MW-A
BC-25
BC-19
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-06
BA-03
BA-03A
(0.000969)
MW-01
MW-02
BC-31
MW-07
WEINBERGER ROAD
SELSER'S CREEK

LEGEND

- FIRST WATER--BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MILLIGRAMS PER LITER
- (0.0443) CADMIUM CONCENTRATION IN mg/L

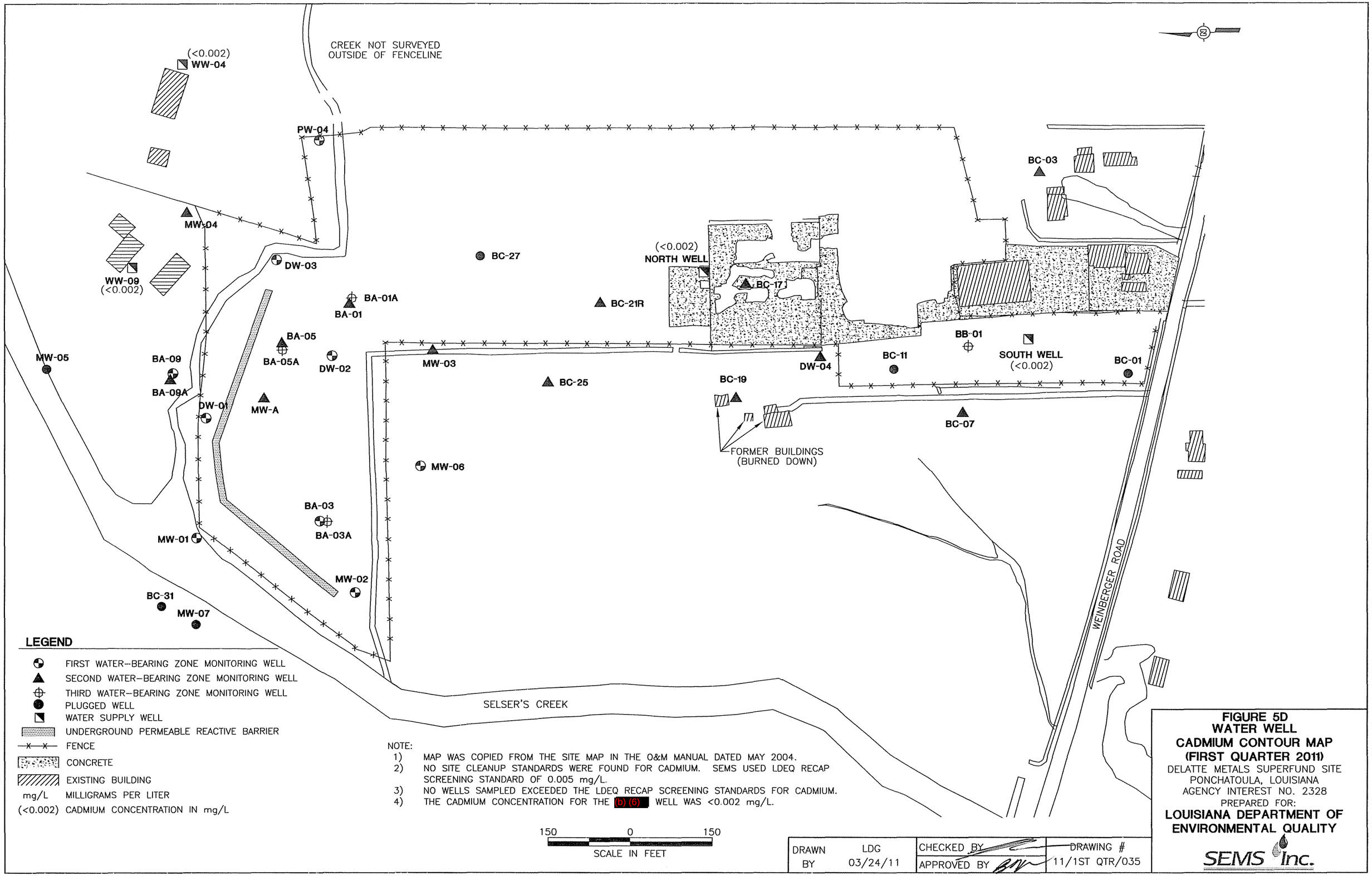
NOTE:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE CLEANUP STANDARDS WERE FOUND FOR CADMIUM. SEMS USED LDEQ RECAP SCREENING STANDARD OF 0.005 mg/L.
3) NO WELLS SAMPLED EXCEEDED THE LDEQ RECAP SCREENING STANDARDS FOR CADMIUM.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY	DRAWING # 11/1ST QTR/034
		APPROVED BY	

FIGURE 5C
THIRD WATER BEARING ZONE CADMIUM CONTOUR MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MILLIGRAMS PER LITER
- (<0.002) CADMIUM CONCENTRATION IN mg/L

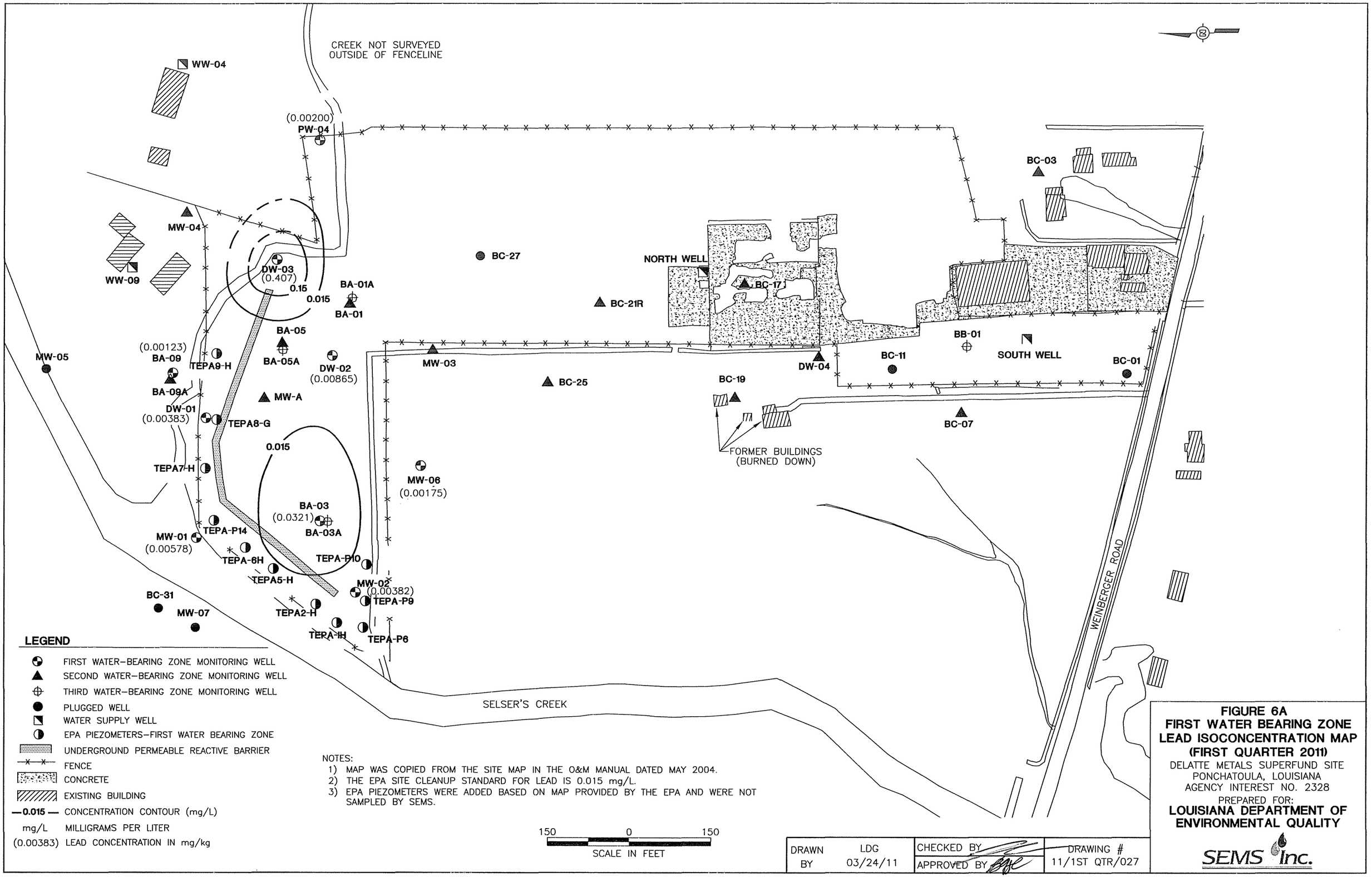
NOTE:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE CLEANUP STANDARDS WERE FOUND FOR CADMIUM. SEMS USED LDEQ RECAP SCREENING STANDARD OF 0.005 mg/L.
3) NO WELLS SAMPLED EXCEEDED THE LDEQ RECAP SCREENING STANDARDS FOR CADMIUM.
4) THE CADMIUM CONCENTRATION FOR THE (b) (6) WELL WAS <0.002 mg/L.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY	DRAWING # 11/1ST QTR/035
		APPROVED BY	

FIGURE 5D
WATER WELL
CADMIUM CONTOUR MAP
(FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.


CREEK NOT SURVEYED
OUTSIDE OF FENCELINE
WW-04
(0.00200)
PW-04
MW-04
WW-09
DW-03
(0.407)
0.15
0.015
BA-01A
BA-01
BC-27
NORTH WELL
BC-17
BC-21R
BC-03
BB-01
SOUTH WELL
BC-11
BC-01
DW-04
MW-03
BC-25
BC-19
BC-07
FORMER BUILDINGS
(BURNED DOWN)
BA-05
BA-05A
DW-02
(0.00865)
(0.00123)
BA-09
BA-09A
TEPA9-H
MW-05
MW-A
DW-01
(0.00383)
TEPA8-G
0.015
TEPA7-H
MW-06
(0.00175)
BA-03
(0.0321)
BA-03A
TEPA-P14
MW-01
(0.00578)
TEPA-6H
TEPA-P10
TEPA5-H
MW-02
(0.00382)
TEPA-P9
BC-31
MW-07
TEPA2-H
TEPA-1H
TEPA-P6
WEINBERGER ROAD
SELSER'S CREEK
LEGEND
FIRST WATER-BEARING ZONE MONITORING WELL
SECOND WATER-BEARING ZONE MONITORING WELL
THIRD WATER-BEARING ZONE MONITORING WELL
PLUGGED WELL
WATER SUPPLY WELL
EPA PIEZOMETERS-FIRST WATER BEARING ZONE
UNDERGROUND PERMEABLE REACTIVE BARRIER
FENCE
CONCRETE
EXISTING BUILDING
0.015 CONCENTRATION CONTOUR (mg/L)
mg/L MILLIGRAMS PER LITER
(0.00383) LEAD CONCENTRATION IN mg/kg
NOTES:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) THE EPA SITE CLEANUP STANDARD FOR LEAD IS 0.015 mg/L.
3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.
150 0 150
SCALE IN FEET
DRAWN BY LDG 03/24/11
CHECKED BY
APPROVED BY
DRAWING # 11/1ST QTR/027
FIGURE 6A
FIRST WATER BEARING ZONE
LEAD ISOCONCENTRATION MAP
(FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF
ENVIRONMENTAL QUALITY
SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04

PW-04

MW-04
(<0.001)

WW-09

DW-03

BA-01A

BA-01
(<0.001)

(0.000582)
BA-05

BA-05A

DW-02

MW-05

BA-09

BA-09A
(0.000878)

MW-A
(0.000617)

DW-01

BC-27

NORTH WELL

BC-17
(0.243)

BC-21R
(0.000912)

MW-03
(0.00240)

BC-25
(0.000836)

(0.000850)
BC-19

DW-04
(0.000841)

BC-11

BB-01

SOUTH WELL

BC-01

(0.000948)
BC-03

BC-07
(0.00137)

FORMER BUILDINGS
(BURNED DOWN)

MW-06

BA-03

BA-03A

MW-01

MW-02

BC-31

MW-07

WEINBERGER ROAD

SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MILLIGRAMS PER LITER
- (0.000841) LEAD CONCENTRATION IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. THE EPA SITE CLEANUP STANDARD FOR LEAD IS 0.015 mg/L.
3. NO WELLS EXCEEDED THE SITE CLEANUP STANDARDS FOR LEAD.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/23/11	CHECKED BY APPROVED BY	DRAWING # 11/1ST QTR/008

FIGURE 6B
SECOND WATER BEARING ZONE LEAD ISOCONCENTRATION MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04
PW-04
MW-04
WW-09
DW-03
(0.00121)
BA-01A
BA-01
BC-27
BC-21R
NORTH WELL
BC-17
BC-03
BA-05
BA-05A
(0.000601)
DW-02
MW-03
BC-25
DW-04
BB-01
(0.00571)
SOUTH WELL
BC-11
BC-01
MW-05
BA-09
BA-09A
DW-01
MW-A
BC-19
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-06
BA-03
BA-03A
(<0.001)
MW-01
MW-02
BC-31
MW-07
WEINBERGER ROAD
SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MILLIGRAMS PER LITER
- (0.0241) LEAD CONCENTRATION IN mg/L

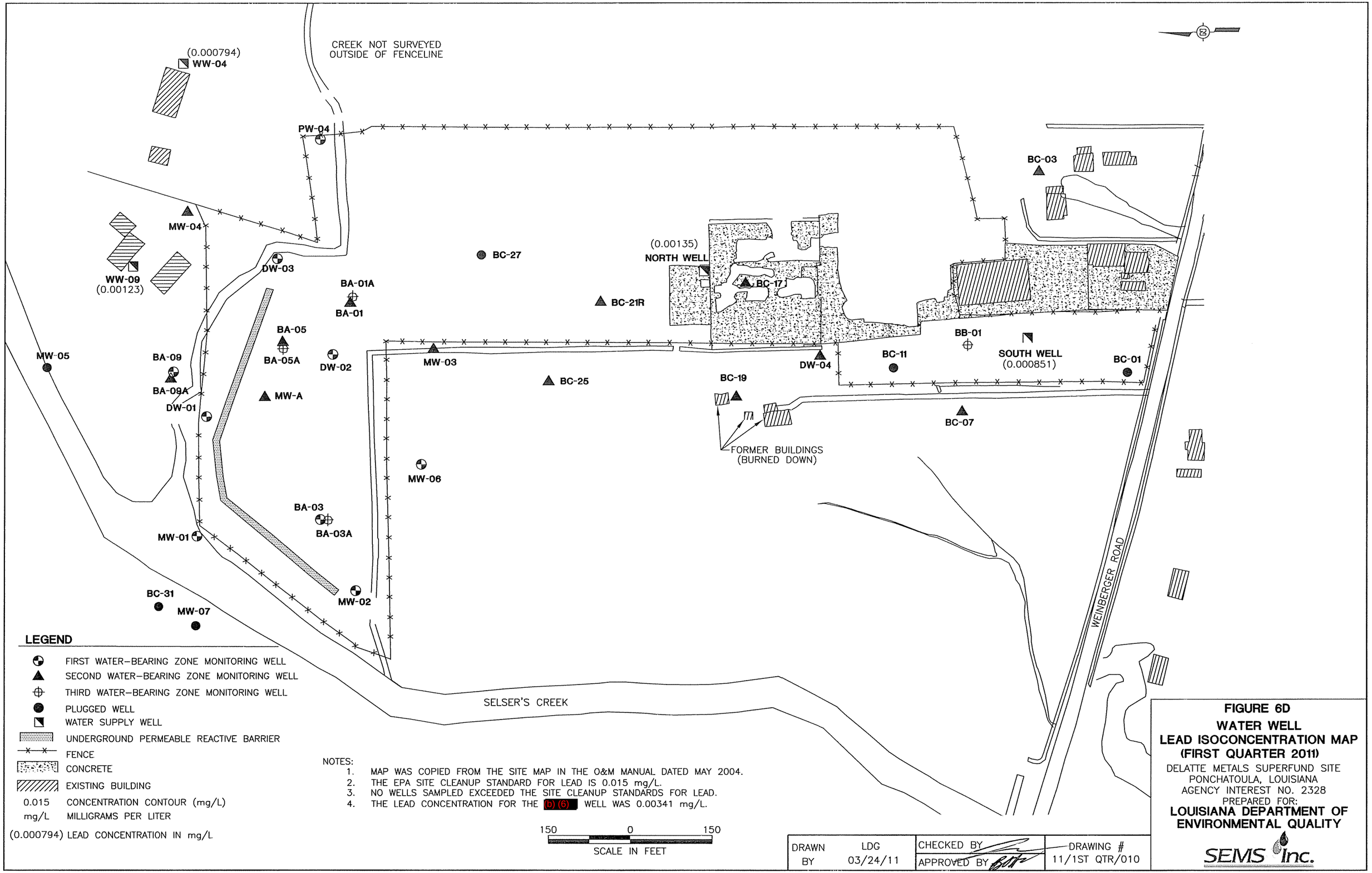
NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. THE EPA SITE CLEANUP STANDARD FOR LEAD IS 0.015 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE SITE CLEANUP STANDARDS FOR LEAD

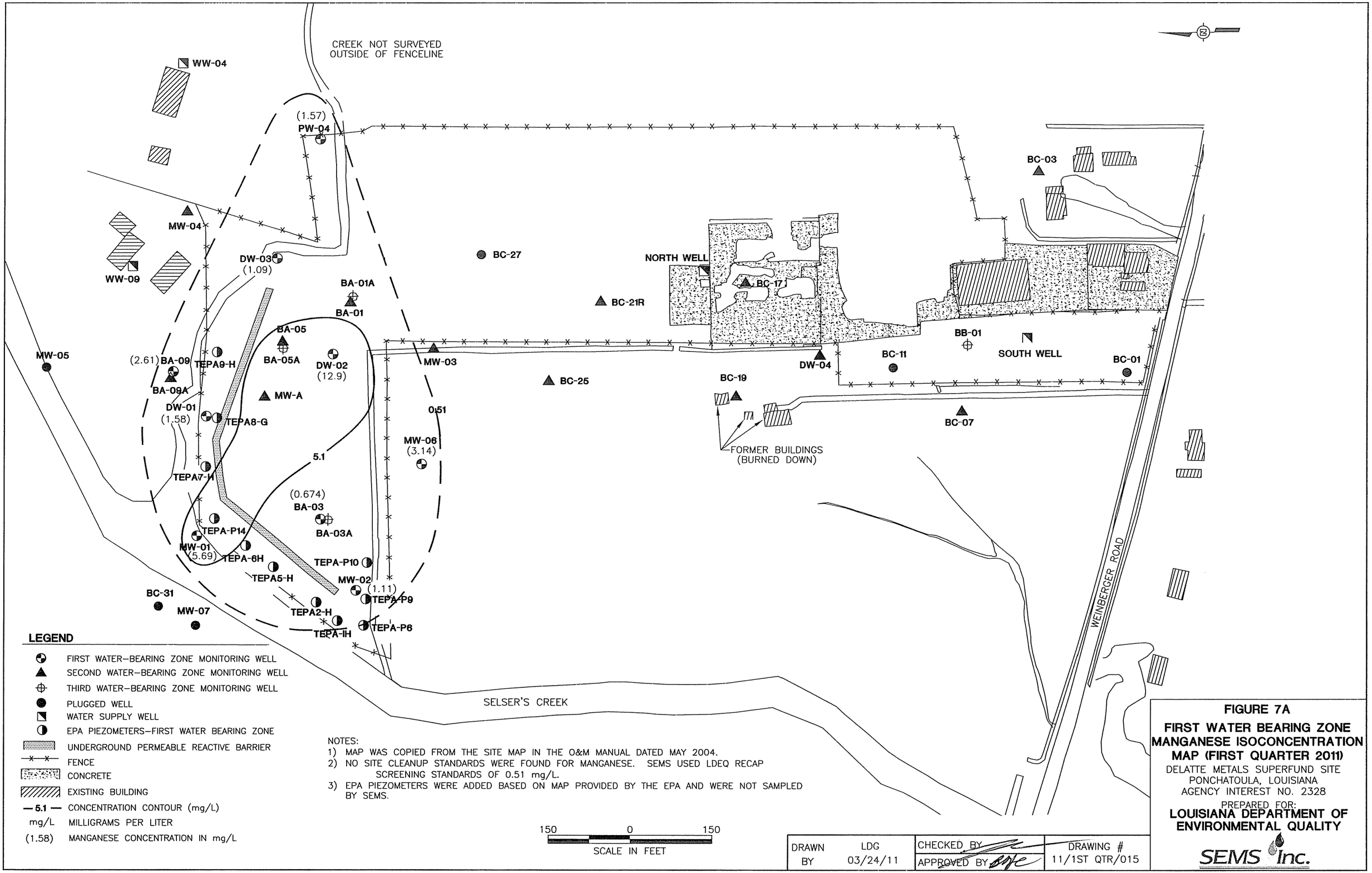
150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/23/11	CHECKED BY APPROVED BY	DRAWING # 11/1ST QTR/009

FIGURE 6C
THIRD WATER BEARING ZONE LEAD ISOCONCENTRATION MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.


CREEK NOT SURVEYED
OUTSIDE OF FENCELINE
(0.000794)
WW-04
PW-04
MW-04
WW-09
(0.00123)
DW-03
BA-01A
BA-01
BC-27
(0.00135)
NORTH WELL
BC-17
BC-21R
BC-03
BB-01
SOUTH WELL
(0.000851)
BC-01
BC-11
DW-04
MW-03
BC-25
BC-19
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-05
BA-09
BA-09A
DW-01
BA-05
BA-05A
DW-02
MW-A
MW-06
BA-03
BA-03A
MW-01
BC-31
MW-07
MW-02
WEINBERGER ROAD
SELSER'S CREEK
LEGEND
FIRST WATER-BEARING ZONE MONITORING WELL
SECOND WATER-BEARING ZONE MONITORING WELL
THIRD WATER-BEARING ZONE MONITORING WELL
PLUGGED WELL
WATER SUPPLY WELL
UNDERGROUND PERMEABLE REACTIVE BARRIER
FENCE
CONCRETE
EXISTING BUILDING
0.015 CONCENTRATION CONTOUR (mg/L)
mg/L MILLIGRAMS PER LITER
(0.000794) LEAD CONCENTRATION IN mg/L
NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. THE EPA SITE CLEANUP STANDARD FOR LEAD IS 0.015 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE SITE CLEANUP STANDARDS FOR LEAD.
4. THE LEAD CONCENTRATION FOR THE (b) (6) WELL WAS 0.00341 mg/L.
150 0 150
SCALE IN FEET
DRAWN BY LDG 03/24/11
CHECKED BY
APPROVED BY
DRAWING # 11/1ST QTR/010
FIGURE 6D
WATER WELL
LEAD ISOCONCENTRATION MAP
(FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
SEMS Inc.



LEGEND

- FIRST WATER–BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- EPA PIEZOMETERS–FIRST WATER BEARING ZONE
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- — 5.1 — CONCENTRATION CONTOUR (mg/L)
- mg/L MILLIGRAMS PER LITER
- (1.58) MANGANESE CONCENTRATION IN mg/L

NOTES:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE CLEANUP STANDARDS WERE FOUND FOR MANGANESE. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.51 mg/L.
3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY	DRAWING # 11/1ST QTR/015
		APPROVED BY	

FIGURE 7A

FIRST WATER BEARING ZONE MANGANESE ISOCONCENTRATION MAP (FIRST QUARTER 2011)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04

PW-04

MW-04
(0.000235)

WW-09

DW-03

BA-01A

5.1

BA-01
(1.23)

(18.5)
BA-05

BA-05A

DW-02

0.51

MW-05

BA-09

BA-09A
(0.0267)

DW-01

MW-A
(0.00471)

MW-03
(0.509)

BC-27

(0.00758)
BC-21R

NORTH WELL

BC-17
(0.114)

(0.00403)
BC-03

BB-01

SOUTH WELL

BC-11

BC-01

(0.00272)
BC-19

DW-04
(0.00260)

BC-25
(0.0264)

BC-07
(0.0290)

FORMER BUILDINGS
(BURNED DOWN)

MW-06

BA-03

BA-03A

MW-01

MW-02

BC-31

MW-07

WEINBERGER ROAD

SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- —0.51— CONCENTRATION CONTOUR
- mg/L MILLIGRAMS PER LITER
- (0.00260) MANGANESE CONCETRATION IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE CLEANUP STANDARDS WERE FOUND FOR MANGANESE. SEMS USED LDEQ RECAP SCREENING STANDARD OF 0.51 mg/L

150 0 150
SCALE IN FEET

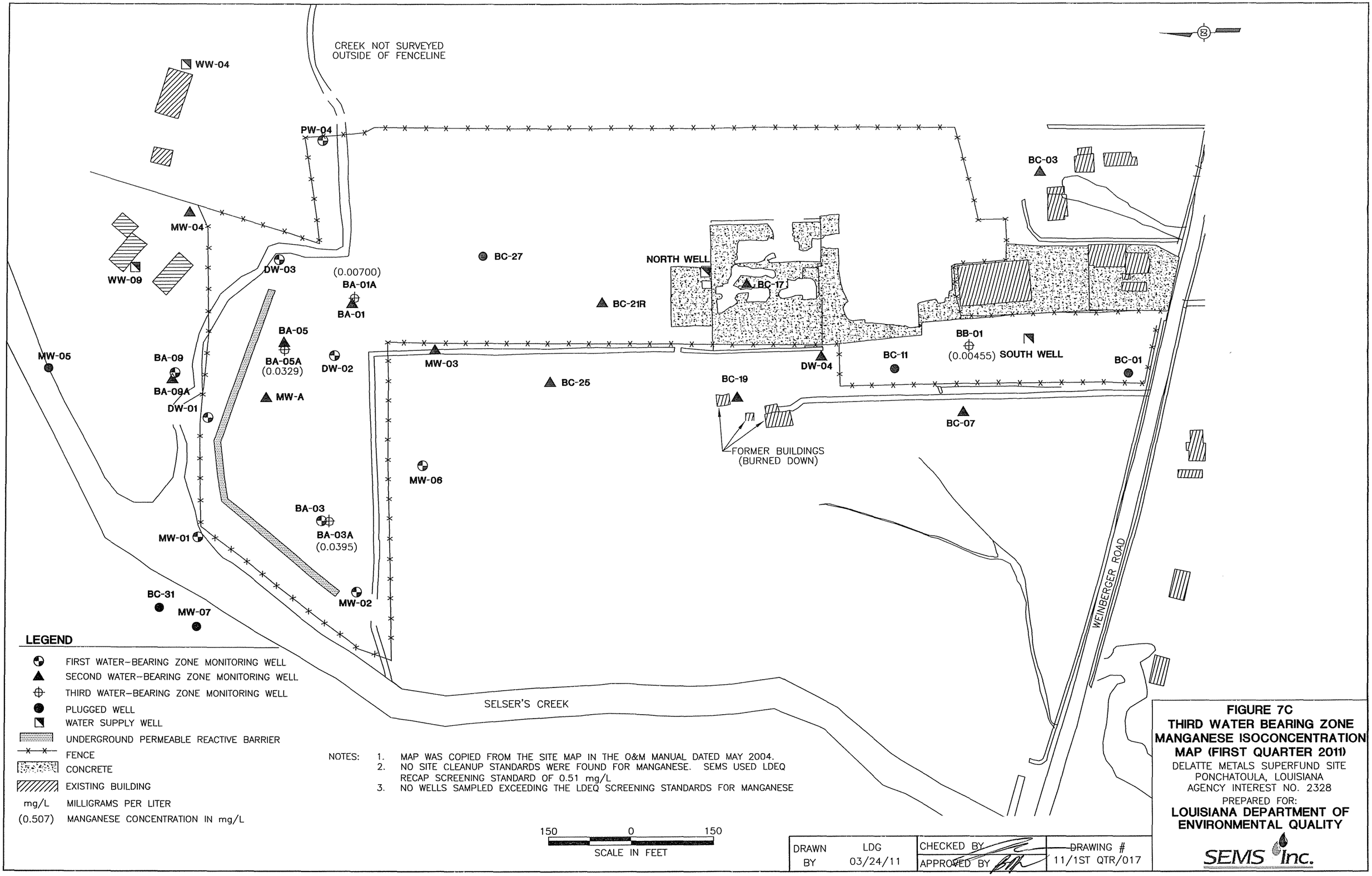
DRAWN BY	LDG 03/24/11	CHECKED BY / APPROVED BY	DRAWING # 11/1ST QTR/016

FIGURE 7B

SECOND WATER BEARING ZONE MANGANESE ISOCONCENTRATION MAP (FIRST QUARTER 2011)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MILLIGRAMS PER LITER
- (0.507) MANGANESE CONCENTRATION IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE CLEANUP STANDARDS WERE FOUND FOR MANGANESE. SEMS USED LDEQ RECAP SCREENING STANDARD OF 0.51 mg/L
3. NO WELLS SAMPLED EXCEEDING THE LDEQ SCREENING STANDARDS FOR MANGANESE

DRAWN BY	LDG 03/24/11	CHECKED BY / APPROVED BY	DRAWING # 11/1ST QTR/017

FIGURE 7C
THIRD WATER BEARING ZONE MANGANESE ISOCONCENTRATION MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

(0.00355)
WW-04

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

PW-04

MW-04

WW-09
(0.0161)

DW-03

BA-01A

BA-01

BC-27

(0.00405)
NORTH WELL

BC-17

BC-21R

BC-03

BB-01

SOUTH WELL
(0.00484)

BC-01

BA-05

BA-05A

DW-02

MW-03

DW-04

BC-11

MW-05

BA-09

BA-09A

DW-01

MW-A

BC-25

BC-19

BC-07

FORMER BUILDINGS
(BURNED DOWN)

MW-06

BA-03

BA-03A

MW-01

MW-02

BC-31

MW-07

WEINBERGER ROAD

SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MILLIGRAMS PER LITER
- (0.00256) MANGANESE CONCENTRATION IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE CLEANUP STANDARDS WERE FOUND FOR MANGANESE. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.51 mg/L.
3. NO WELLS SAMPLED EXCEEDING THE LDEQ SCREENING STANDARDS FOR MANGANESE.
4. THE MANGANESE CONCENTRATION FOR THE (b) (6) WELL WAS 0.0230 mg/L.

150 0 150
SCALE IN FEET

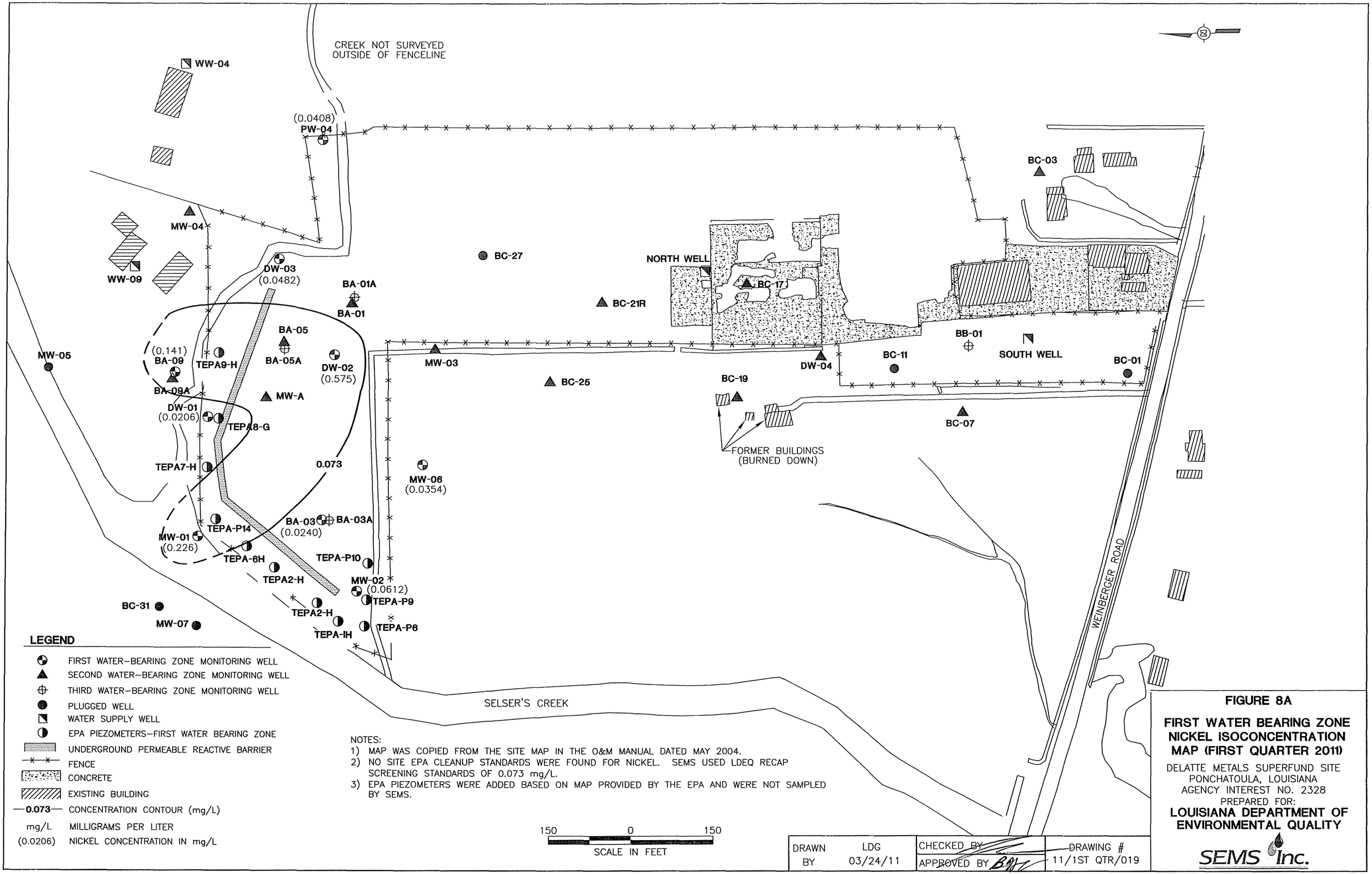
DRAWN BY	LDG 03/24/11	CHECKED BY APPROVED BY	DRAWING # 11/1ST QTR/018

FIGURE 7D
WATER WELL MANGANESE ISOCONCENTRATION MAP (FIRST QUARTER 2011)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER–BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- EPA PIEZOMETERS–FIRST WATER BEARING ZONE
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- —0.073— CONCENTRATION CONTOUR (mg/L)
- mg/L MILLIGRAMS PER LITER
- (0.0206) NICKEL CONCENTRATION IN mg/L

NOTES:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE EPA CLEANUP STANDARDS WERE FOUND FOR NICKEL. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.073 mg/L.
3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.

150 0 150
SCALE IN FEET

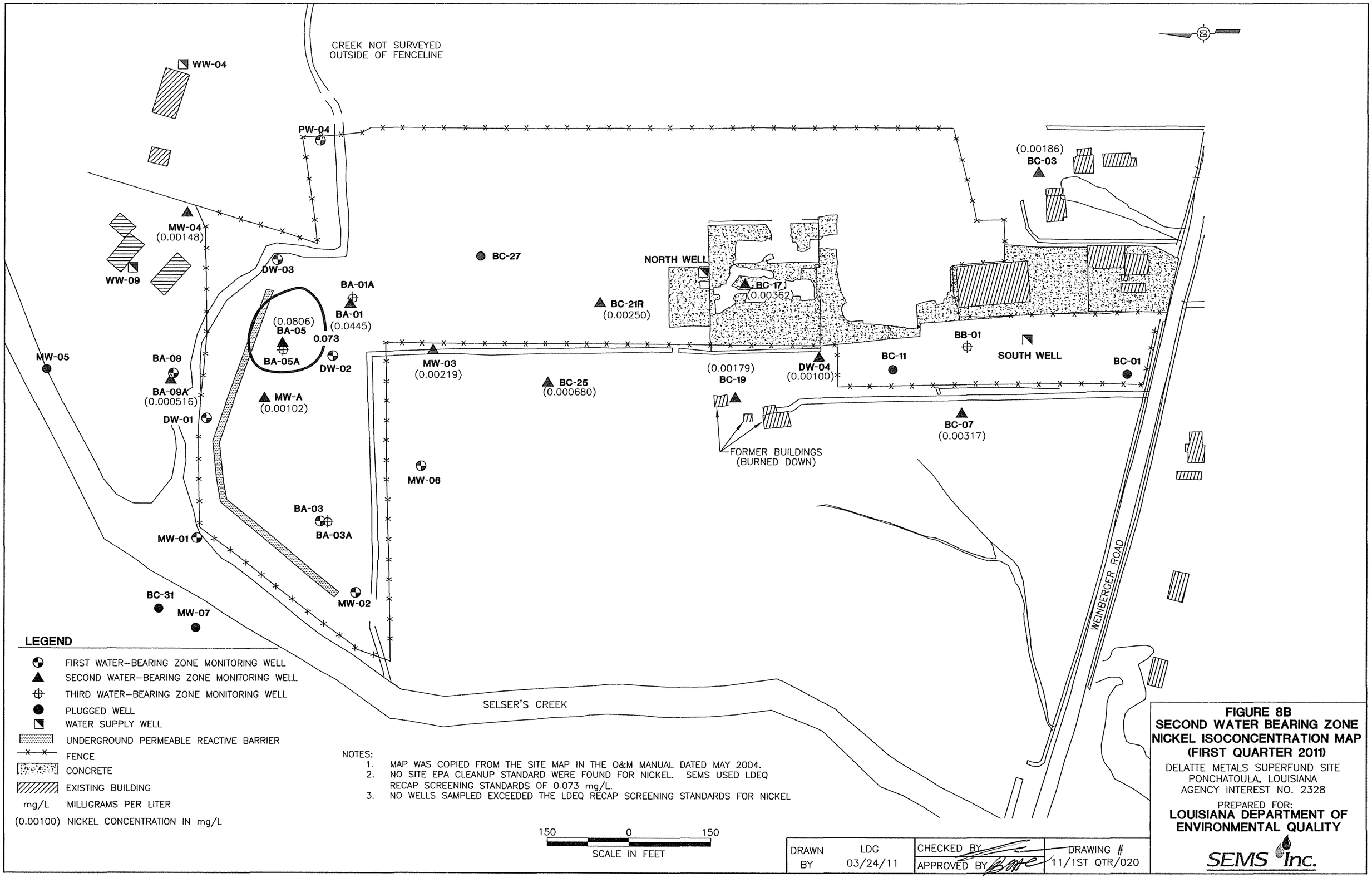
DRAWN BY	LDG 03/24/11	CHECKED BY	DRAWING # 11/1ST QTR/019
		APPROVED BY	

FIGURE 8A

FIRST WATER BEARING ZONE NICKEL ISOCONCENTRATION MAP (FIRST QUARTER 2011)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MILLIGRAMS PER LITER
- (0.00100) NICKEL CONCENTRATION IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE EPA CLEANUP STANDARD WERE FOUND FOR NICKEL. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.073 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE LDEQ RECAP SCREENING STANDARDS FOR NICKEL

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY APPROVED BY	DRAWING # 11/1ST QTR/020

FIGURE 8B
SECOND WATER BEARING ZONE NICKEL ISOCONCENTRATION MAP (FIRST QUARTER 2011)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04
PW-04
MW-04
WW-09
DW-03
(0.00139)
BA-01A
BA-01
BC-27
NORTH WELL
BC-17
BC-21R
BC-03
BB-01
(0.00334)
SOUTH WELL
BC-11
BC-01
DW-04
MW-05
BA-09
BA-09A
DW-01
BA-05
BA-05A
(0.00107)
DW-02
MW-A
MW-03
BC-25
BC-19
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-06
BA-03
BA-03A
(0.00363)
MW-01
MW-02
BC-31
MW-07
WEINBERGER ROAD
SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MILLIGRAMS PER LITER
- (0.0178) NICKEL CONCENTRATION IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE EPA CLEANUP STANDARD WERE FOUND FROM NICKEL. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.073 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE LDEQ RECAP SCREENING STANDARDS FOR NICKEL

150 0 150
SCALE IN FEET

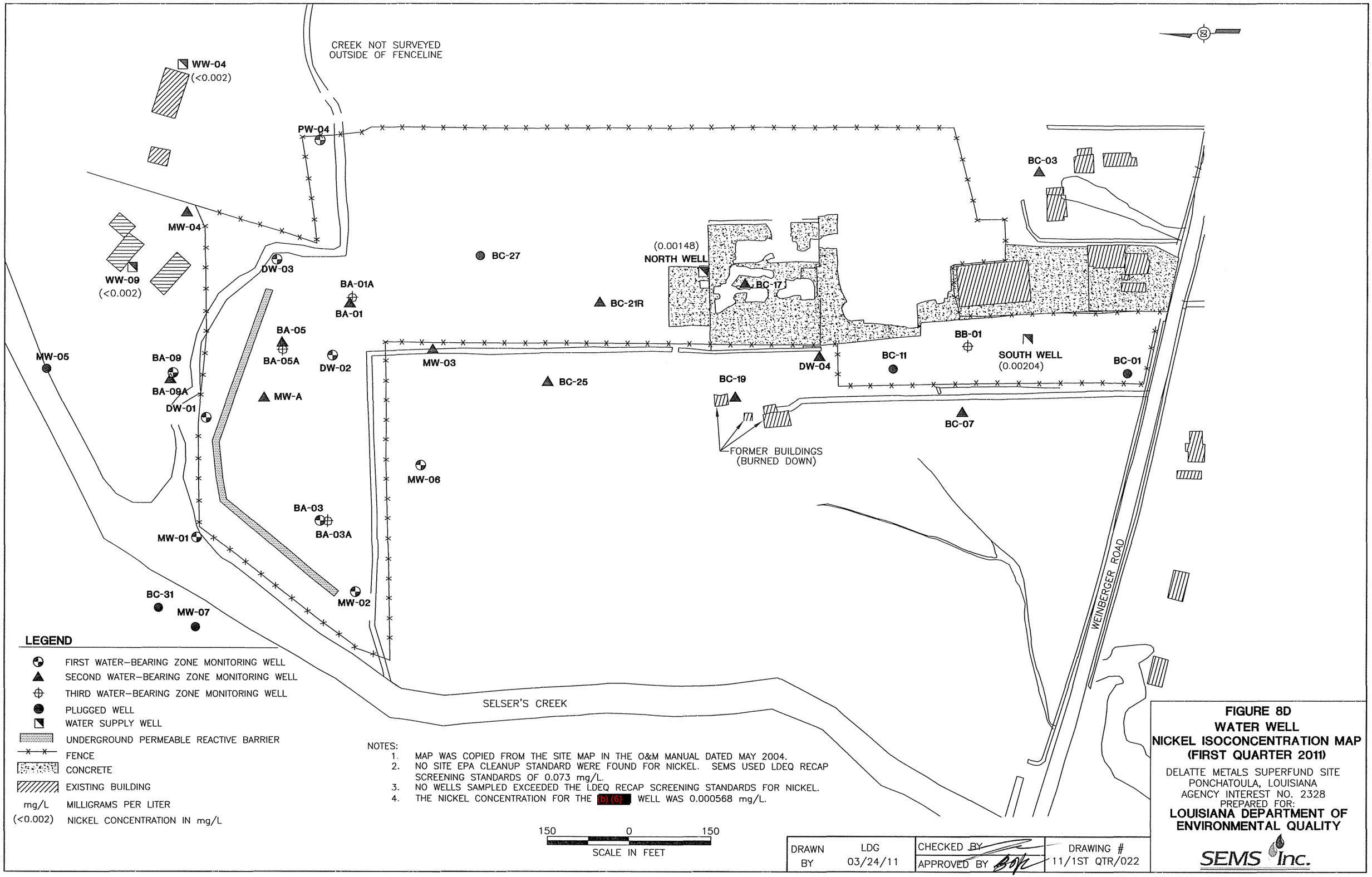
DRAWN BY	LDG 03/24/11	CHECKED BY APPROVED BY	DRAWING # 11/1ST QTR/021

FIGURE 8C
THIRD WATER BEARING ZONE NICKEL ISOCONCENTRATION MAP (FIRST QUARTER 2011)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER–BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L — MILLIGRAMS PER LITER
- (<0.002) — NICKEL CONCENTRATION IN mg/L

NOTES:

1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE EPA CLEANUP STANDARD WERE FOUND FOR NICKEL. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.073 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE LDEQ RECAP SCREENING STANDARDS FOR NICKEL.
4. THE NICKEL CONCENTRATION FOR THE (b) (6) WELL WAS 0.000568 mg/L.

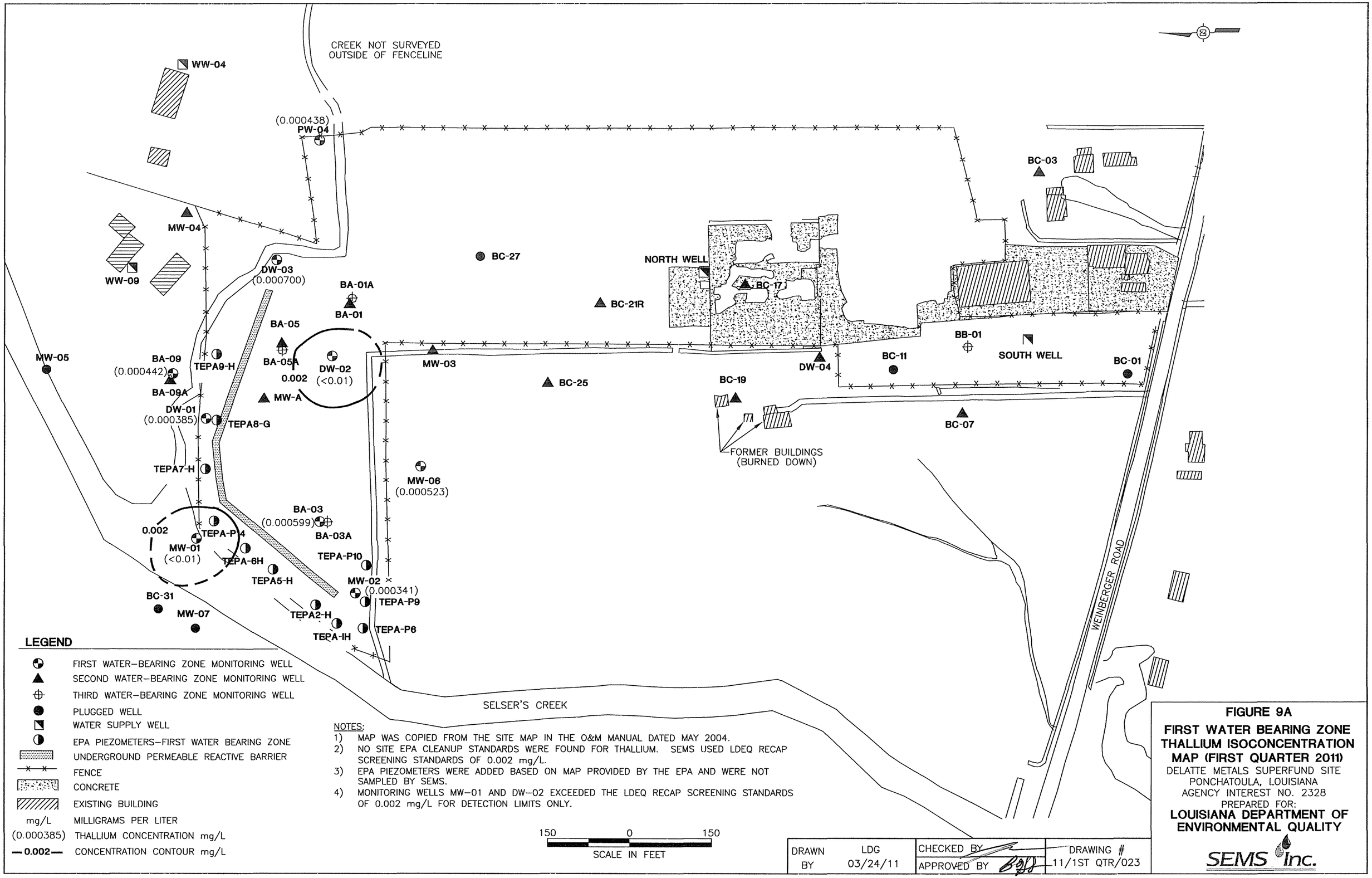
150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY	DRAWING # 11/1ST QTR/022
		APPROVED BY	

FIGURE 8D
WATER WELL
NICKEL ISOCONCENTRATION MAP
(FIRST QUARTER 2011)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER–BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- EPA PIEZOMETERS–FIRST WATER BEARING ZONE
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L — MILLIGRAMS PER LITER
- (0.000385) — THALLIUM CONCENTRATION mg/L
- —0.002— CONCENTRATION CONTOUR mg/L

NOTES:

1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE EPA CLEANUP STANDARDS WERE FOUND FOR THALLIUM. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.002 mg/L.
3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.
4) MONITORING WELLS MW–01 AND DW–02 EXCEEDED THE LDEQ RECAP SCREENING STANDARDS OF 0.002 mg/L FOR DETECTION LIMITS ONLY.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY	DRAWING # 11/1ST QTR/023
		APPROVED BY	

FIGURE 9A

FIRST WATER BEARING ZONE THALLIUM ISOCONCENTRATION MAP (FIRST QUARTER 2011)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04

PW-04

MW-04
(0.000592)

WW-09

DW-03

BA-01A

BA-01
(0.000386)

BA-05
(<0.002)

BA-05A

BA-09

BA-09A
(0.000424)

MW-05

DW-01

DW-02

MW-A
(<0.002)

BC-27

NORTH WELL

BC-17
(0.000439)

BC-21R
(0.000416)

MW-03
(0.000418)

BC-25
(0.000414)

BC-19
(0.000474)

DW-04
(0.000412)

BC-03
(0.000424)

BB-01

SOUTH WELL

BC-11

BC-01

BC-07
(0.000413)

FORMER BUILDINGS
(BURNED DOWN)

MW-06

BA-03

BA-03A

MW-01

MW-02

BC-31

MW-07

WEINBERGER ROAD

SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MILLIGRAMS PER LITER
- (0.000417) THALLIUM CONCENTRATION mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE EPA CLEANUP STANDARDS WERE FOUND FOR THALLIUM. SEMS USED LDEQ
3. RECAP SCREENING STANDARDS OF 0.002 mg/L
4. NO WELLS SAMPLED EXCEEDED THE LDEQ SCREENING STANDARDS FOR THALLIUM.

150 0 150
SCALE IN FEET

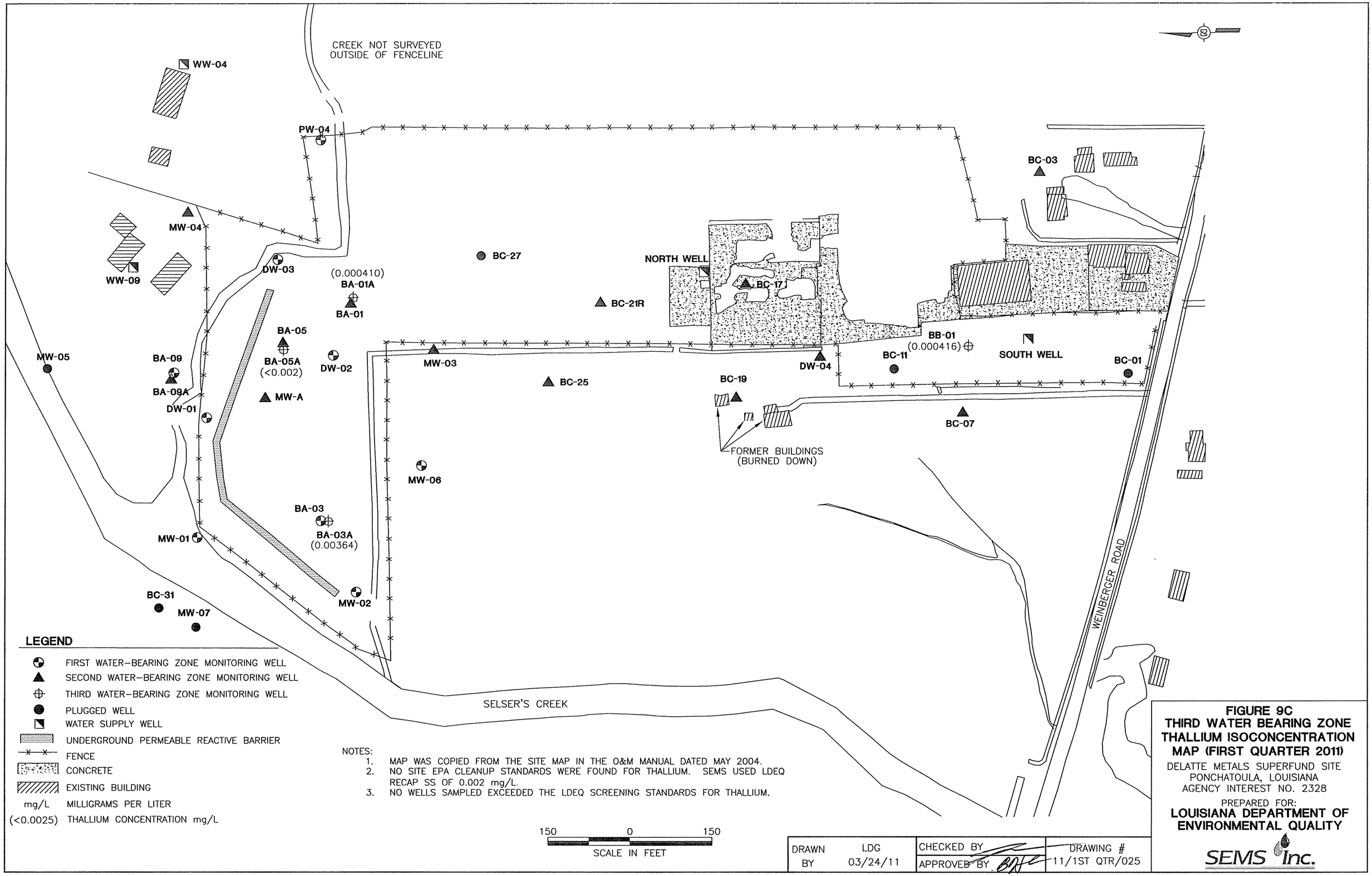
DRAWN BY	LDG 03/24/11	CHECKED BY	DRAWING # 11/1ST QTR/024
		APPROVED BY	

FIGURE 9B

SECOND WATER BEARING ZONE THALLIUM ISOCONCENTRATION MAP (FIRST QUARTER 2011)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L — MILLIGRAMS PER LITER
- (<0.0025) — THALLIUM CONCENTRATION mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE EPA CLEANUP STANDARDS WERE FOUND FOR THALLIUM. SEMS USED LDEQ RECAP SS OF 0.002 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE LDEQ SCREENING STANDARDS FOR THALLIUM.

150 0 150
SCALE IN FEET

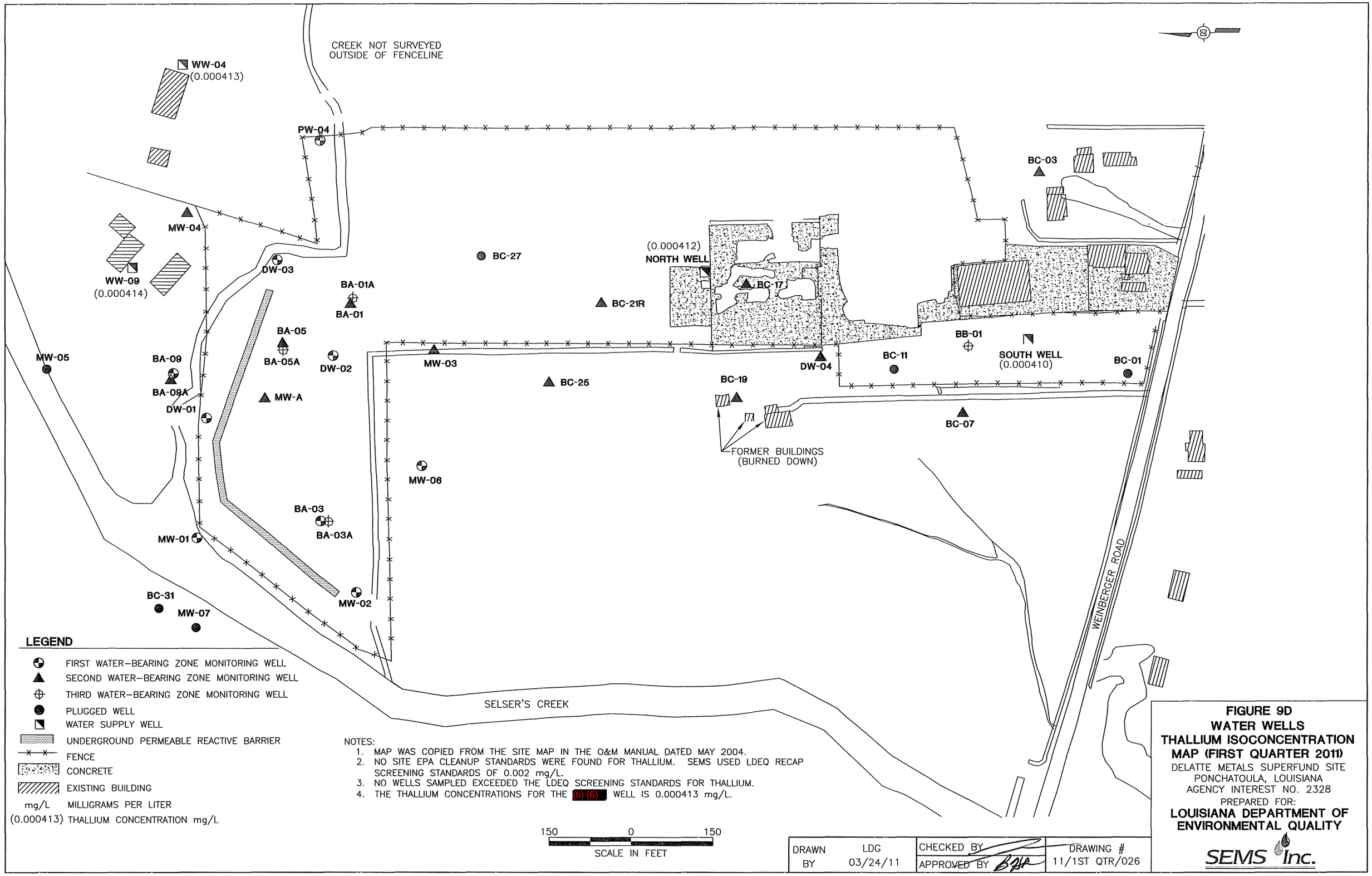
DRAWN BY	LDG 03/24/11	CHECKED BY	DRAWING # 11/1ST QTR/025
		APPROVED BY	

FIGURE 9C
THIRD WATER BEARING ZONE THALLIUM ISOCONCENTRATION MAP (FIRST QUARTER 2011)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MILLIGRAMS PER LITER
- (0.000413) THALLIUM CONCENTRATION mg/L

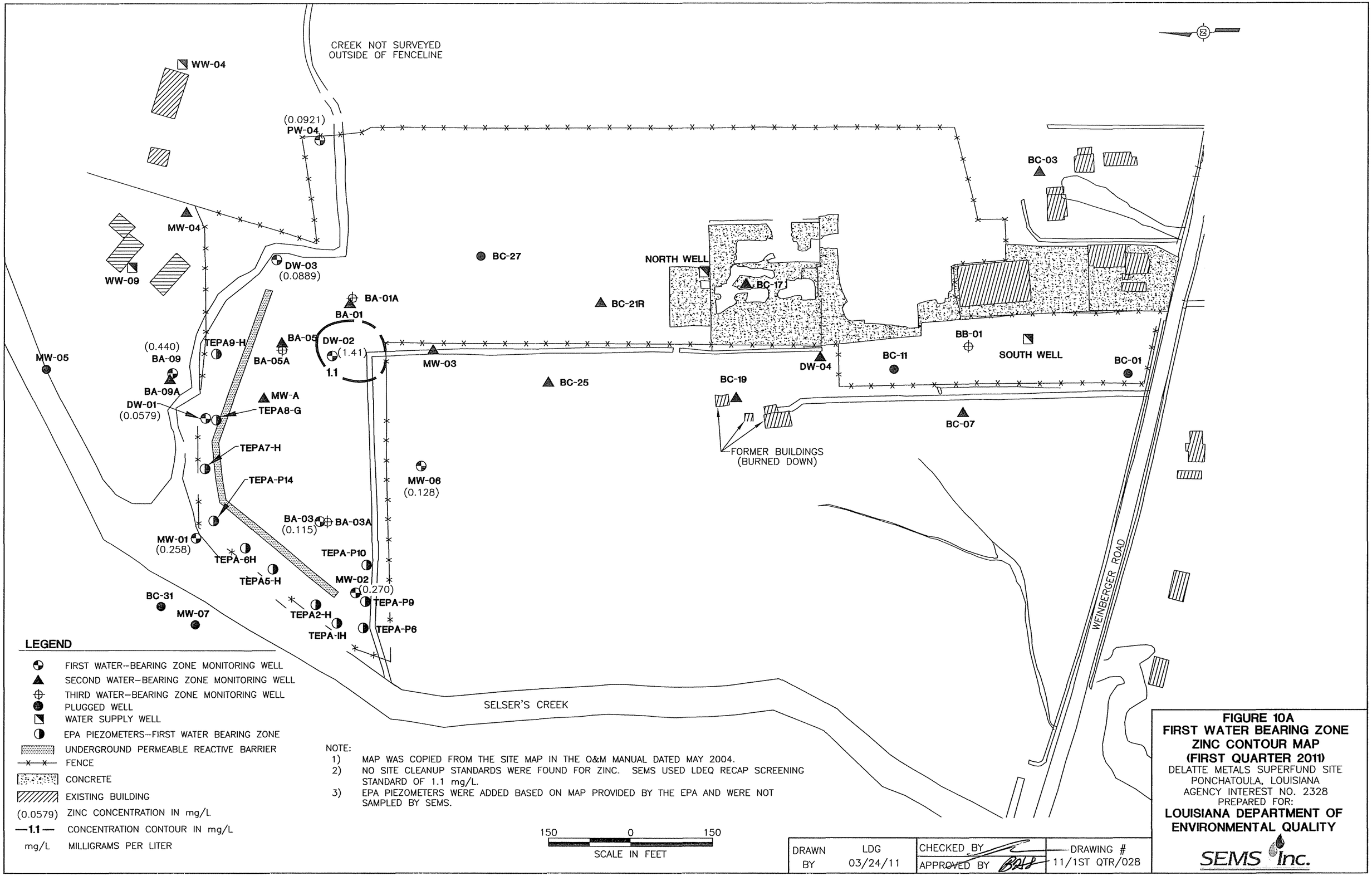
NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE EPA CLEANUP STANDARDS WERE FOUND FOR THALLIUM. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.002 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE LDEQ SCREENING STANDARDS FOR THALLIUM.
4. THE THALLIUM CONCENTRATIONS FOR THE (b) (6) WELL IS 0.000413 mg/L.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY APPROVED BY	DRAWING # 11/1ST QTR/026

FIGURE 9D
WATER WELLS
THALLIUM ISOCONCENTRATION MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER--BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- EPA PIEZOMETERS--FIRST WATER BEARING ZONE
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (0.0579) ZINC CONCENTRATION IN mg/L
- —1.1— CONCENTRATION CONTOUR IN mg/L
- mg/L MILLIGRAMS PER LITER

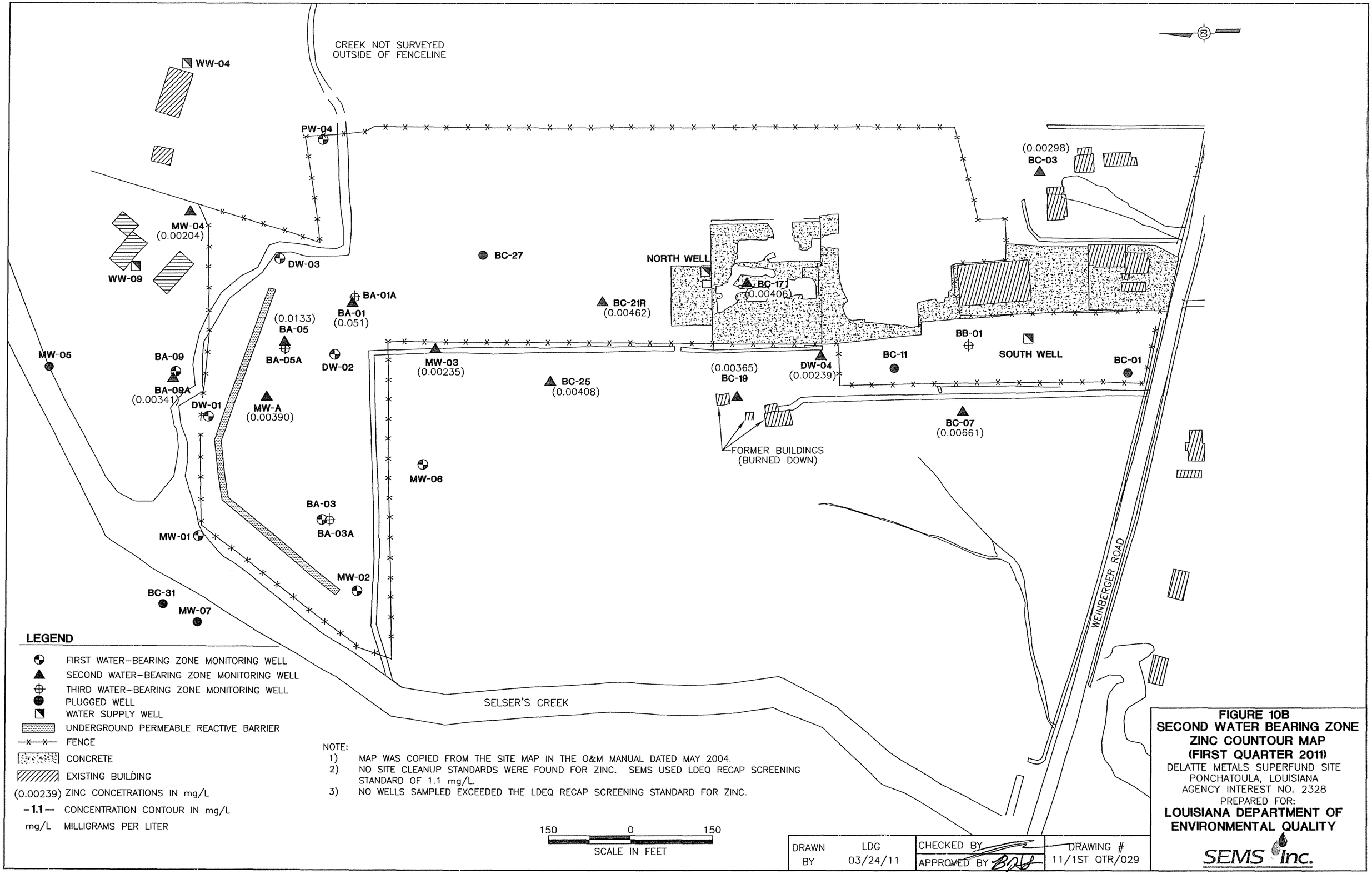
NOTE:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE CLEANUP STANDARDS WERE FOUND FOR ZINC. SEMS USED LDEQ RECAP SCREENING STANDARD OF 1.1 mg/L.
3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.

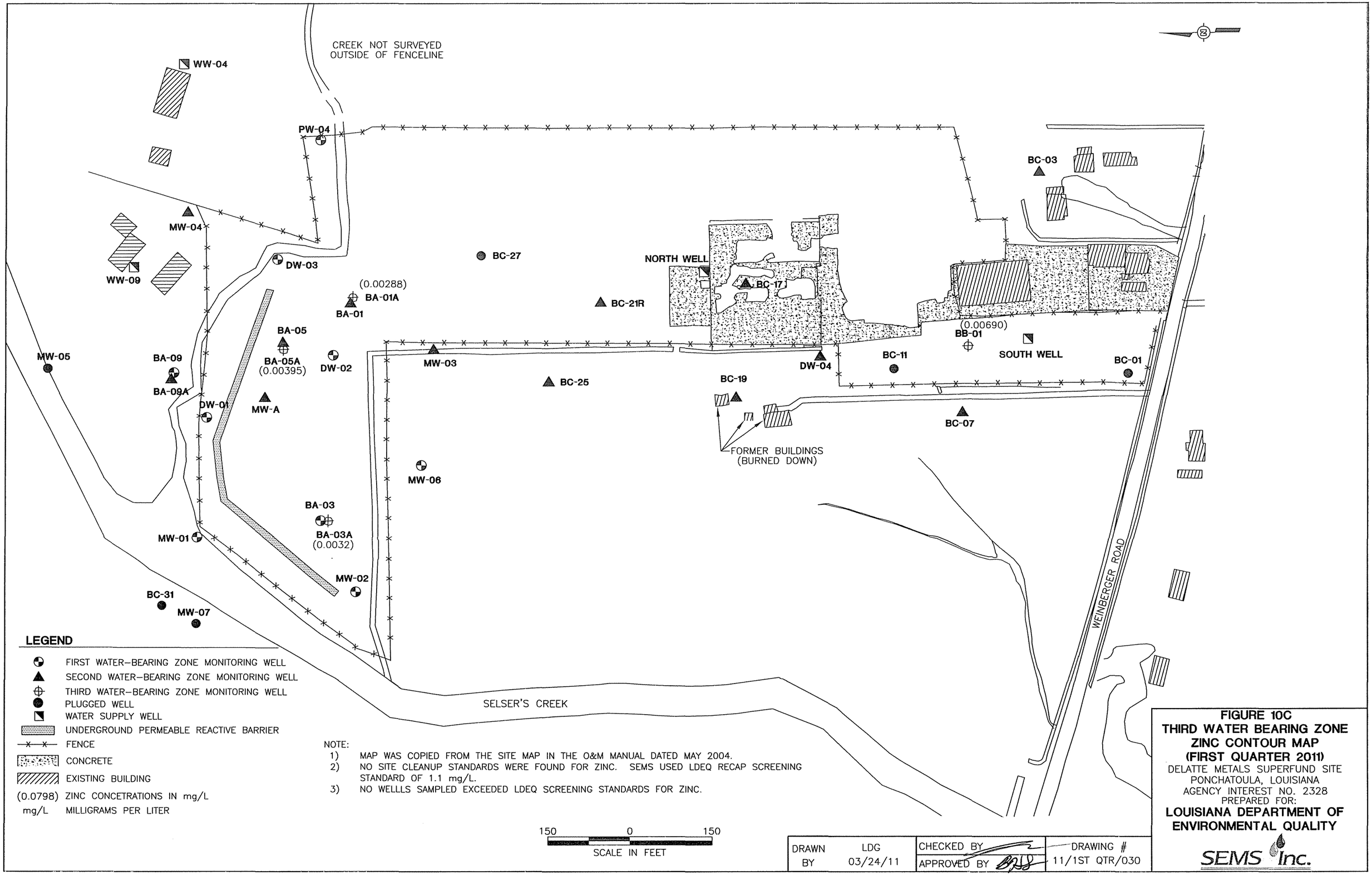
150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY APPROVED BY	DRAWING # 11/1ST QTR/028

FIGURE 10A
FIRST WATER BEARING ZONE ZINC CONTOUR MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.


CREEK NOT SURVEYED
OUTSIDE OF FENCELINE
WW-04
PW-04
MW-04
(0.00204)
WW-09
DW-03
BC-27
NORTH WELL
BC-17
(0.00406)
BA-01A
BA-01
(0.051)
BC-21R
(0.00462)
(0.0133)
BA-05
BA-05A
DW-02
MW-03
(0.00235)
BC-25
(0.00408)
(0.00365)
BC-19
DW-04
(0.00239)
BC-11
BB-01
SOUTH WELL
BC-01
(0.00298)
BC-03
MW-05
BA-09
BA-09A
(0.00341)
DW-01
MW-A
(0.00390)
BC-07
(0.00661)
FORMER BUILDINGS
(BURNED DOWN)
MW-06
BA-03
BA-03A
MW-01
MW-02
BC-31
MW-07
WEINBERGER ROAD
SELSER'S CREEK
LEGEND
FIRST WATER-BEARING ZONE MONITORING WELL
SECOND WATER-BEARING ZONE MONITORING WELL
THIRD WATER-BEARING ZONE MONITORING WELL
PLUGGED WELL
WATER SUPPLY WELL
UNDERGROUND PERMEABLE REACTIVE BARRIER
FENCE
CONCRETE
EXISTING BUILDING
(0.00239) ZINC CONCETRATIONS IN mg/L
-1.1- CONCENTRATION CONTOUR IN mg/L
mg/L MILLIGRAMS PER LITER
NOTE:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE CLEANUP STANDARDS WERE FOUND FOR ZINC. SEMS USED LDEQ RECAP SCREENING STANDARD OF 1.1 mg/L.
3) NO WELLS SAMPLED EXCEEDED THE LDEQ RECAP SCREENING STANDARD FOR ZINC.
150 0 150
SCALE IN FEET
DRAWN BY LDG 03/24/11
CHECKED BY
APPROVED BY
DRAWING # 11/1ST QTR/029
FIGURE 10B
SECOND WATER BEARING ZONE
ZINC COUNTOUR MAP
(FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
SEMS Inc.



LEGEND

- FIRST WATER–BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (0.0798) ZINC CONCETRATIONS IN mg/L
- mg/L MILLIGRAMS PER LITER

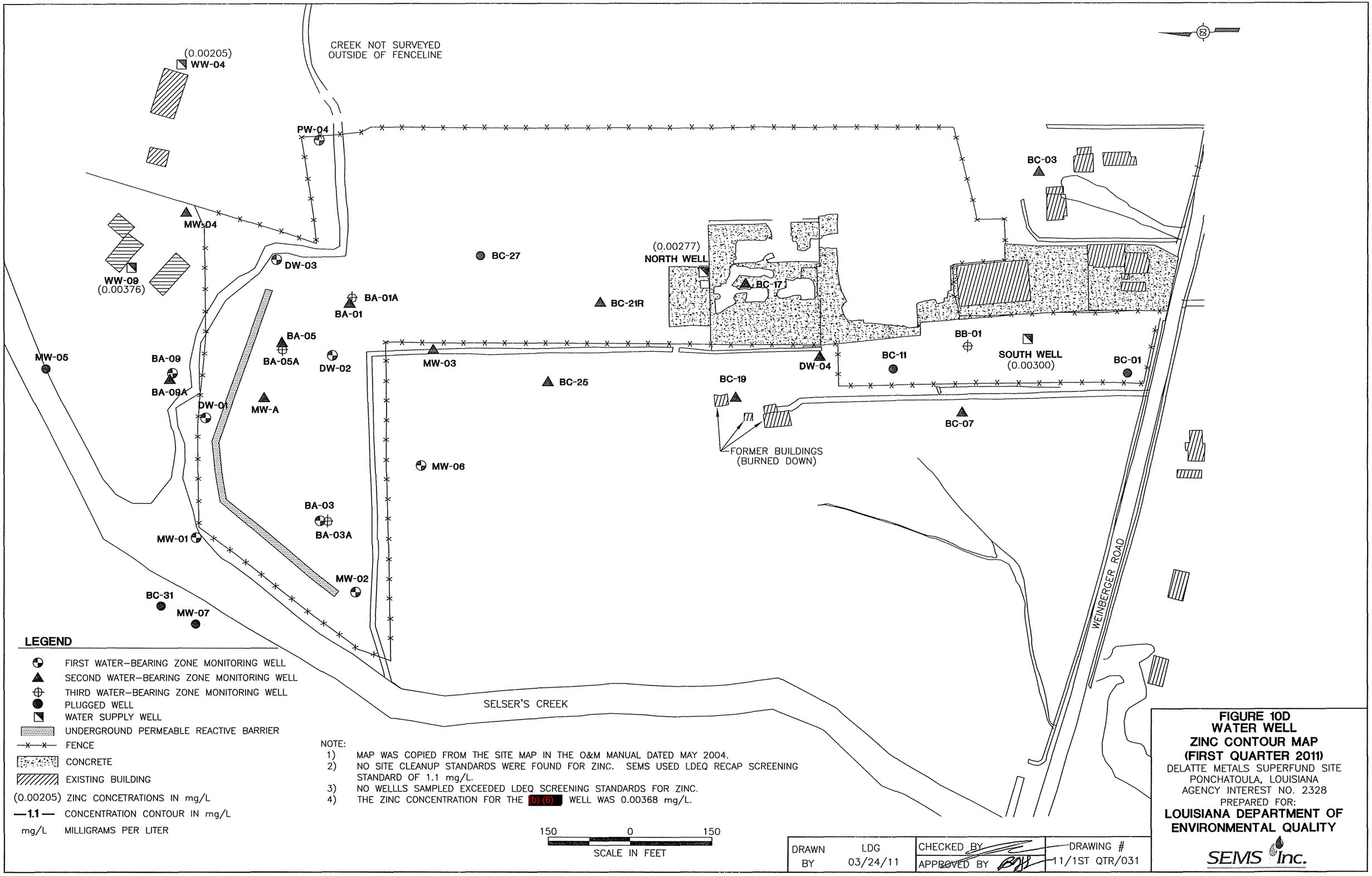
NOTE:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE CLEANUP STANDARDS WERE FOUND FOR ZINC. SEMS USED LDEQ RECAP SCREENING STANDARD OF 1.1 mg/L.
3) NO WELLLS SAMPLED EXCEEDED LDEQ SCREENING STANDARDS FOR ZINC.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY	DRAWING # 11/1ST QTR/030
		APPROVED BY	

FIGURE 10C
THIRD WATER BEARING ZONE ZINC CONTOUR MAP (FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (0.00205) ZINC CONCETRATIONS IN mg/L
- —1.1— CONCENTRATION CONTOUR IN mg/L
- mg/L MILLIGRAMS PER LITER

NOTE:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE CLEANUP STANDARDS WERE FOUND FOR ZINC. SEMS USED LDEQ RECAP SCREENING STANDARD OF 1.1 mg/L.
3) NO WELLLS SAMPLED EXCEEDED LDEQ SCREENING STANDARDS FOR ZINC.
4) THE ZINC CONCENTRATION FOR THE (b) (6) WELL WAS 0.00368 mg/L.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 03/24/11	CHECKED BY	DRAWING # 11/1ST QTR/031
		APPROVED BY	

FIGURE 10D
WATER WELL
ZINC CONTOUR MAP
(FIRST QUARTER 2011)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

ATTACHMENT A

FIELD DATA SHEETS & WASTE MANIFESTS

DELATTE METALS SUPERFUND SITE OPERATION AND MAINTENANCE ACTIVITY LOG

PROJECT GENERAL INFORMATION

Client: LDEQ

Date: 2/14 - 16 / 2011

Facility #: Delatte Metals Superfund Site

Activities: Notify facility of arrival. Inspect facility monitoring wells and PRB for integrity. Gauge, and sample appropriate wells.

Address: Weinberger Road, Ponchatoula, LA

Project #: 207-0016

SEMS ACTIVITY DOCUMENTATION (Continued On Back)

Time (Military)	Notes & Observations
Arrived : ( )	Notified facility personnel of arrival : YES NO Have H&S plan : YES NO
See Log 5	Potentiometric data collection procedures: Locate monitoring wells, open to allow for water level equilibration, inspect/document well integrity, measure total well depth, measure depth-to-water (to 0.00'). Measure wells from least contaminated to most contaminated. Well purging procedures: Use low flow micro purge methods and monitor water quality characteristics. When water quality characteristics stabilize record characteristics and collect sample. Transport purge water to on-site 55-gallon drums for containment and disposal. Groundwater sample collection procedures: Collect samples with dedicated well equipment by low flow micro purge methods after water quality characteristics have stabilized. Transfer samples to a proper container (on ice) for transport to the designated lab for analyses. Ship samples for overnight delivery, with completed chain-of-custody documentation. Sample wells in the same order as they were purged.
Departed : ( )	

SEMS EQUIPMENT & MATERIALS USED

Task	Description	Accounting Code	Unit	Quantity
005	Operation, maintenance and related activities per well.		well	31
0006	Return to grade area of PRB		yards	
00007	Well labels		each	
00008	Well Locks		each	1
00009	Concrete Pad		each	
00010	Well cover		each	

SEMS PERSONNEL INFORMATION

Employee Name: Louis Moon X

Employee Signature:

SEMS, Inc.

DELATTE METALS SUPERFUND SITE OPERATION AND MAINTENANCE ACTIVITY LOG

SEMS EQUIPMENT & MATERIALS USED

Task	Description	Accounting Code	Unit	Quantity
00011	Repainting		well	2
00012	Post Replacement		each	
00013	Clearing access to wells		event	
00014	Characterization, profiling related to disposal		event	
00015	Disposal of decon water and purge water, Haz		gallon	
00016	Disposal of decon water and purge water, Non-Haz		gallon	
00017	Disposal of PPE, and sampling equipment, Haz		drum	
00018	Disposal of PPE, and sampling equipment, Non-Haz		drum	

Employee Name: L. MENDEZ Employee Signature:

SEMS, Inc.

TAILGATE SAFETY MEETING

GENERAL INFORMATION

Company: SEMS, Inc.

Date: 2/14/11 Time: 1415 Job Number: 207-0016

Customer: LDEQ Address: Delatte Metals Weinberger Rd.

Job Location: Ponchatoula, LA

Type of Work: GW Sampling

Protective Clothing/Equipment: Level D

SAFETY TOPICS

Chemical Hazards: Metals & Low pH (Acidic GW)

Physical Hazards: Blades, lifting, snakes, heat

Emergency Procedures: Call 911 or proceed to hospital
meet @ front Enterance if problems occur

Hospital/Clinic: North OAKs Phone:

Hospital Address: 15790 Paul Vega, Hammond, LA

Special Equipment: Level D

Other:

ATTENDEES

NAME PRINTED	SIGNATURE
LANCE METAUX	[signature]
SITE SUPERVISOR	SIGNATURE

TAILGATE SAFETY MEETING

GENERAL INFORMATION

Company: SEMS, Inc.

Date: 2/15/11 Time: 800 Job Number: 207-0016

Customer: LDEQ Address: Delatte Metals Weinberger Rd.

Job Location: Ponchatoula, LA

Type of Work: GW Sampling

Protective Clothing/Equipment: Level D

SAFETY TOPICS

Chemical Hazards: Metals & Low pH (Acidic GW)

Physical Hazards: Blades, lifting, snakes, heat

Emergency Procedures: Call 911 or proceed to hospital
meet @ front Enterance if problems occur

Hospital/Clinic: North OAKs Phone:

Hospital Address: 15790 Paul Vega, Hammond, LA

Special Equipment: Level D

Other:

ATTENDEES

NAME PRINTED	SIGNATURE
L. MENAX	

SITE SUPERVISOR

SIGNATURE

TAILGATE SAFETY MEETING

GENERAL INFORMATION

Company: SEMS, Inc.

Date: 2/16/11 Time: 830 Job Number: 207-0016

Customer: LDEQ Address: Delatte Metals Weinberger Rd.

Job Location: Ponchatoula, LA

Type of Work: GW Sampling

Protective Clothing/Equipment: Level D

SAFETY TOPICS

Chemical Hazards: Metals & Low pH (Acidic GW)

Physical Hazards: Blades, lifting, snakes, heat

Emergency Procedures: Call 911 or proceed to hospital
meet @ front Enterance if problems occur

Hospital/Clinic: North OAKs Phone:

Hospital Address: 15790 Paul Vega, Hammond, LA

Special Equipment: Level D

Other:

ATTENDEES

NAME PRINTED	SIGNATURE
L. Mercx	[signature]
SITE SUPERVISOR	SIGNATURE

Delatte Metals O&M PRB Inspection Checklist

SEMS Project #: 207-0016

Field Crew: LANCE MEEK
JESSE HUGHES (2/14/11)
KENNY KARR (2/15/11 - 2/16/11)

Date Inspected 2/16/11

Is the soil overlying the PRB cracked, eroded, or show any other pathways that could allow for surface water to enter the subsurface?	
PRB Cleared	YES.
PRB Accessible	YES.
PRB Cracks Identified	NO CRACKS IDENTIFIED. PRB SATURATED FROM RAIN.
PRB Erosion Identified	NO EROSION.
Photos Taken	NO.
NOTES:	

PRB=Permeable reactive barrier

Delatte Metals O&M QA/QC Checklist

SEMS Project #: 207-0016
Field Crew: LANCE MEAGER
JESSE HOPPES
KENNY KARIL

MS/MSD (Every 20 Samples)
Field Duplicate (Every 10 Samples)

MS/ MSD	Field Duplicate	Sample ID on COC	Sample Location ID of Original Sample (Field Duplicate)	Date	Time	Notes
	X	DUPLICATE #1	DW-04	2/14/11	1309	
X		BC-19 MS	BC-19	2/14/11	1329	
X		BC-19 MSD	"	2/14/11	"	
	X	DUPLICATE #2	BA-01A	2/15/11	1019	
	X	DUPLICATE #3	DW-2	2/15/11	1353	
X		BA-03 MS	BA-03	2/16/11	1220	
X		BA-03 MSD	BA-03	2/16/11	1220	
	X	DUPLICATE #4	MW-2	2/16/11	1248	

Delatte Metals O&M Well Inspection Checklist

SEMS Project #: 207-0016
Field Crew: LANCE MEAUX
JESSE HOPPES
KENNY KARR

Well No.	Date Inspected	Wells Labeled	Wells Locked	Post Condition	Paint Needed	Pad Condition	Well Access	Standing/ Ponded Water	Collision Damage	Frost Heaving	Casing Degradation	Well Subsidence	Photos Taken	Notes
BA-09A	2/14/11	✓	✓	GOOD	X	✓	✓	X	X	X	X	X	X	
BA-09		✓	✓	GOOD	X	✓	✓	X	X	X	X	X	X	
MW-4		✓	✓	GOOD	X	✓	✓	X	X	X	X	X	X	
WW-09		NA					✓						X	
WW-04		NA					✓						X	
(b) (6) WELL		NA					✓						X	
BC-03		✓	✓	GOOD	X	✓	✓	X	X	X	X	X	X	
BC-07		✓	✓	GOOD	X	✓	✓	✓	X	X	X	X	X	
MW-04		✓	✓	GOOD	X	✓	✓	✓	X	X	X	X	X	
BC-19		✓	✓	GOOD	X	✓	✓	✓	X	X	X	X	X	
BC25		✓	✓	GOOD	✓	✓	✓	✓	X	X	X	X	X	PAINTED
MW-3	X	✓	✓	GOOD	X	✓	✓	✓	X	X	X	X	X	

Delatte Metals O&M Well Inspection Checklist

SEMS Project #: 207-0016
Field Crew: LANCE METALS
JESSE HOPPES
KENNY KAHLA

Well No.	Date Inspected	Wells Labeled	Wells Locked	Post Condition	Paint Needed	Pad Condition	Well Access	Standing/ Ponded Water	Collision Damage	Frost Heaving	Casing Degradation	Well Subsidence	Photos Taken	Notes
MW-6	2/14/11	✓	✓	✓	X	✓	✓	X	X	X	X	X	X	
BB-01	2/15/11	✓	✓	✓	X	✓	✓	X	X	X	X	X	X	
SOUTH WELL		NA					✓						X	
BC-17		✓	✓	✓	X	✓	✓	X	X	X	X	X	X	
NORTH WELL		NA	✓	✓			✓						X	
BC-2R		✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	PAINTED
BA-02A		✓	✓	✓	X	✓	✓	X	X	X	X	X	X	
BA-01		✓	✓	✓	X	✓	✓	X	X	X	X	X	X	CHANGED LOCK
DW-3		✓	✓	✓	X	✓	✓	X	X	X	X	X	X	
PW-4		✓	✓	✓	✓	X	✓	X	X	X	X	X	X	PAD CRACKING
DW-2		✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	
BA-05A	2/16/11													

Delatte Metals O&M Well Inspection Checklist

SEMS Project #: 207-0016
Field Crew: LANCE MEAUX
JESSE HOBBES
KENNY KARR

Well No.	Date Inspected	Wells Labeled	Wells Locked	Post Condition	Paint Needed	Pad Condition	Well Access	Standing/ Ponded Water	Collision Damage	Frost Heaving	Casing Degradation	Well Subsidence	Photos Taken	Notes
BA-05	2/16/11	✓	✓	✓	X	✓	✓	X	X	X	X	X	X	
MW-A		✓	✓	✓	X	✓	✓	X	X	X	X	X	X	
OW-1		✓	✓	✓	X	✓	✓	X	X	X	X	X	X	
MW-1		✓	✓	✓	X	✓	✓	X	X	X	X	X	X	REPLACED TUBING
BA-03A		✓	✓	✓	X	✓	✓	X	X	X	X	X	X	
BA-03		✓	✓	✓	X	✓	✓	X	X	X	X	X	X	
MW-02		✓	✓	✓	X	✓	✓	X	X	X	X	X	X	

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-09A
Date Purged/Sampled: 2/14/11 **Sampled By:** JTA

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 42.0 ft.
Static Depth to Groundwater (DTW): ____ ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 31.5 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: 210 mL/min
Volume Purged: ____ gallons
Date/Time of Sample: 2/14 @ 919 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
901	300 mL/min	—	—	—	—	—	—	0.84
905	240 mL/min	17.99	0.328	4.39	6.63	91	2.4	2.13
909	"	18.30	0.211	3.11	6.83	101	2.1	2.91
913	210 mL/min	18.19	0.211	2.60	6.91	106	1.7	3.36
916	"	18.21	0.201	1.80	6.94	109	1.1	3.61
919	"	18.41	0.212	1.84	6.95	112	1.7	3.82

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-09
Date Purged/Sampled: 2/14/16 **Sampled By:** JAH

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 18 ft.
Static Depth to Groundwater (DTW): 8.65 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 7.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 255 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/14 @1001 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
926	315 ml/min	—	—	—	—	—	—	8.65
933	255 ml/min	18.13	3.57	0.93	3.47	52	3.4	8.92
938	"	18.05	3.46	0.69	3.55	-18	2.0	8.88
941	"	18.09	3.35	0.63	3.56	-26	2.0	8.89
945	"	18.09	3.17	0.59	3.56	5	1.9	8.88
949	"	17.91	3.06	0.82	3.32	15	2.8	8.88
952	"	17.91	2.97	0.74	3.35	119	3.1	8.88
~~955~~ 955	"	17.95	2.82	0.63	3.44	93	3.4	8.89
958	"	18.00	2.64	0.56	3.48	67	3.4	8.89

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

1001	"	18.06	2.58	0.52	3.50	42	2.7	8.88

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project:	Delatte Metals Superfund Site
Project No.:	207-0016
Site Location:	Ponchatoula, Louisiana
Monitor Well No.:	MW-4
Date Purged/Sampled:	2/14/11 **Sampled By:** JAH + CSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 24 ft.
Static Depth to Groundwater (**DTW**): 14.45 ft.
Screen Length (**SL**) from Boring Logs: 10 ft.
Depth to Top of Well Screen (**TD-SL**): 13.5 ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: 180 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/14 @ 1044 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1022	300 mL/min	—	—	—	—	—	—	14.45
1026	240 mL/min	19.36	0.282	3.93	6.29	-128	9.7	15.65
1029	"	19.33	0.282	3.77	6.37	-121	10.3	15.98
1032	"	19.36	0.281	3.56	6.45	-113	11.2	16.14
1035	"	19.46	0.282	3.40	6.51	-103	12.5	16.38
1038	"	19.47	0.281	3.26	6.55	-97	10.4	16.48
1041	180 mL/min	19.45	0.280	3.01	6.58	-90	13.6	16.40
1044	"	19.34	0.280	2.96	6.59	-82	15.0	16.30

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	1	Dissolved Metals Collected	1

SHEET 1 OF 1

FIELD FILTERED

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: WW-09
Date Purged/Sampled: 2/14/11 **Sampled By:** JAH & ISH

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 60 ft.
Static Depth to Groundwater (DTW): UNK ft.
Screen Length (SL) from Boring Logs: UNK ft.
Depth to Top of Well Screen (TD-SL): UNK ft.
Height of Water Column (H=TD-DTW): UNK ft.

Purge Flow Rate: _____ mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/14 @ 1105 Time

WELL CASING VOLUME CALCULATIONS

☐ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☒ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☒ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☒ Other (Specify) Let water flow for 20 minutes

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1045	-	-	-	-	-	-	-	-
1105	-	19.80	0.234	3.05	7.97	172	5.5	-

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project:	Delatte Metals Superfund Site
Project No.:	207-0016
Site Location:	Ponchatoula, Louisiana
Monitor Well No.:	WW-04
Date Purged/Sampled:	2/14/11 **Sampled By:** JAH + CSR

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): UNK ft.
Static Depth to Groundwater (**DTW**): UNK ft.
Screen Length (**SL**) from Boring Logs: UNK ft.
Depth to Top of Well Screen (**TD-SL**): UNK ft.
Height of Water Column (**H=TD-DTW**): UNK ft.

Purge Flow Rate: _____ mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/14 @ 1135 Time

WELL CASING VOLUME CALCULATIONS

☐ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☒ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☒ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☒ Other (Specify) Let water flow for 20 minutes

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1125	—	—	—	—	—	—	—	—
1135	—	20.34	0.236	2.34	8.83	-236	44	—

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: (b) (6) Well
Date Purged/Sampled: 2/14 **Sampled By:** [illegible]

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): UNK ft.
Static Depth to Groundwater (DTW): UNK ft.
Screen Length (SL) from Boring Logs: UNK ft.
Depth to Top of Well Screen (TD-SL): UNK ft.
Height of Water Column (H=TD-DTW): UNK ft.

Purge Flow Rate: _____ mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/14 @1140 Time

WELL CASING VOLUME CALCULATIONS

☐ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☒ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☒ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☒ Other (Specify) Let water flow for 20 minutes

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1120	-	-	-	-	-	-	-	-
1140	-	20.76	0233	2.97	8.28	-186	2.6	-

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-03
Date Purged/Sampled: 2/14/11 **Sampled By:** JAH & CSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 28.0 ft.
Static Depth to Groundwater (DTW): 4.56 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 17.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: _____ mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/14 @ 1214 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1203	270 mL/min	—	—	—	—	—	—	4.56
1208	240 mL/min	20.24	2.93	2.43	7.08	-32	1.4	6.08
1211	~~285~~ mL/min	20.14	2.94	2.26	7.06	15	1.3	6.97
1214	"	20.25	2.93	2.16	7.06	44	0.7	7.47

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-07
Date Purged/Sampled: 2/14/11 **Sampled By:** JAH + GM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 18.5 ft.
Static Depth to Groundwater (**DTW**): 2.79 ft.
Screen Length (**SL**) from Boring Logs: 10 ft.
Depth to Top of Well Screen (**TD-SL**): 8.0 ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: 240 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/14 @ 1249 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1237	330 mL/min	—	—	—	—	—	—	2.79
1242	240 mL/min	14.95	1.98	3.55	2.13	544	4.3	4.65
1246	"	15.15	1.97	3.45	2.09	548	3.5	5.35
1249	240 mL/min	15.03	1.97	3.47	7.09	549	3.9	6.41

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

✓ STAND ING WATER ON PAD

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: DW-04
Date Purged/Sampled: 7/14/11 **Sampled By:** JAH + CSK

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 38 ft.
Static Depth to Groundwater (DTW): 4.32 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 27.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 240 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 7/14 @1309 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1259	385 mL/min	—	—	—	—	—	—	4.32
1303	240 mL/min	19.34	1.52	2.55	7.14	540	31	5.12
1306	"	19.61	1.51	2.52	7.13	540	1.9	5.26
1309	"	19.61	1.51	2.51	7.12	541	1.8	5.32

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

* DUPLICATE #1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-19
Date Purged/Sampled: 2/14/11 **Sampled By:** JAH & CM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 22.5 ft.
Static Depth to Groundwater (**DTW**): 4.67 ft.
Screen Length (**SL**) from Boring Logs: 10 ft.
Depth to Top of Well Screen (**TD-SL**): 12.0 ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: 240 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/14 @1328 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1318	240 mL/min	—	—	—	—	—	—	4.67
1322	"	19.16	2.46	3.50	6.98	483	2.2	5.49
1326	"	18.85	2.43	3.42	6.97	458	2.3	6.20
1329	"	18.48	2.48	3.35	6.97	435	2.4	6.69

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

MS/MSD Taken

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-25
Date Purged/Sampled: 2/14/12 **Sampled By:** [illegible]

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 32.0 ft.
Static Depth to Groundwater (**DTW**): 6.74 ft.
Screen Length (**SL**) from Boring Logs: 10 ft.
Depth to Top of Well Screen (**TD-SL**): 21.5 ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: 280 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/14 @ 1351 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1341	320 mL/min	—	—	—	—	—	—	6.74
1345	280 mL/min	19.10	0.701	1.37	6.93	224	1.7	7.08
1349	"	19.10	0.700	1.34	6.96	240	1.9	7.09
1351	"	19.15	0.700	1.28	6.88	284	1.8	7.08

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

✝ Weeds Removed

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: MW-3
Date Purged/Sampled: 2/14/13 **Sampled By:** JAH & CRV

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 27.5 ft.
Static Depth to Groundwater (**DTW**): 6.19 ft.
Screen Length (**SL**) from Boring Logs: 10 ft.
Depth to Top of Well Screen (**TD-SL**): 17.0 ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: 285 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/14 @ 1413 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1403	320 ml/min	—	—	—	—	—	—	6.19
1407	"	19.16	1.71	1.56	6.60	265	2.3	7.05
1410	285 ml/min	19.38	1.72	1.32	6.59	341	2.3	7.23
1413	"	19.37	1.72	1.47	6.58	374	2.2	7.37

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: MW-6
Date Purged/Sampled: 2/14/11 **Sampled By:** JAH & LSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 16.5 ft.
Static Depth to Groundwater (**DTW**): 8.19 ft.
Screen Length (**SL**) from Boring Logs: UNK ft.
Depth to Top of Well Screen (**TD-SL**): UNK ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: 240 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/14 @ 1453 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
~~1432~~	240 ml/min	—	—	—	—	—	—	8.19
1437	240 ml/min	16.92	0.618	0.75	3.68	351	15.6	8.70
1441	"	16.86	0.632	0.70	3.65	385	7.8	8.74
~~1445~~	"	16.80	0.636	0.67	3.63	400	7.2	8.74
1447	"	16.87	0.667	0.66	3.62	410	7.8	8.74
1450	"	16.84	0.693	0.57	3.61	417	6.5	8.74
1453	"	16.86	0.713	0.62	3.61	424	6.0	8.74

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BB-01
Date Purged/Sampled: 2/15/11 **Sampled By:** CSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 96.0 ft.
Static Depth to Groundwater (**DTW**): 26.7 ft.
Screen Length (**SL**) from Boring Logs: 10 ft.
Depth to Top of Well Screen (**TD-SL**): 85.5 ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: 240 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/15 @ 851 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
833	320 ml/min	—	—	—	—	—	—	2.67
842	240 ml/min	18.27	0.240	2.48	9.71	123	117	2.90
846	"	18.29	0.242	1.16	9.84	139	63	2.90
848	"	18.60	0.244	0.89	9.86	157	4.2	2.90
851	"	18.62	0.244	0.77	9.86	169	4.8	2.90

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: South Well
Date Purged/Sampled: 2/15/11 **Sampled By:** LSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): UNK ft.
Static Depth to Groundwater (**DTW**): UNK ft.
Screen Length (**SL**) from Boring Logs: UNK ft.
Depth to Top of Well Screen (**TD-SL**): UNK ft.
Height of Water Column (**H=TD-DTW**): UNK ft.

Purge Flow Rate: NA mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/15 @ 904 Time

WELL CASING VOLUME CALCULATIONS

☐ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☒ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☒ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☒ Other (Specify) Let water flow for 20 minutes

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
844	—	—	—	—	—	—	—	—
904	—	20.8	0.236	2.47	9.00	-75	1.9	—

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-17
Date Purged/Sampled: 2/15/11 **Sampled By:** CSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 28.0 ft.
Static Depth to Groundwater (**DTW**): 4.38 ft.
Screen Length (**SL**) from Boring Logs: 10 ft.
Depth to Top of Well Screen (**TD-SL**): 17.5 ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: 240 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/15 @ 921 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
911	320 mL/min	—	—	—	—	—	—	4.38
915	240 mL	18.84	1.57	1.06	6.74	498	3.3	7.36
918	"	18.65	1.57	1.00	6.72	510	2.9	7.80
921	"	18.59	1.57	0.97	6.71	511	3.3	8.41

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: North Well
Date Purged/Sampled: 2/15/12 **Sampled By:** LSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): UNK ft.
Static Depth to Groundwater (**DTW**): UNK ft.
Screen Length (**SL**) from Boring Logs: UNK ft.
Depth to Top of Well Screen (**TD-SL**): UNK ft.
Height of Water Column (**H=TD-DTW**): UNK ft.

Purge Flow Rate: _____ mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/15 @ 933 Time

WELL CASING VOLUME CALCULATIONS

☐ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☒ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☒ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☒ Other (Specify) Let flow for 20 minutes

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
913	—	—	—	—	—	—	—	—
933	—	21.15	0.240	5.00	8.63	212	3.4	—

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BL-21R
Date Purged/Sampled: 2/15/12 **Sampled By:** GM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 17.5 ft.
Static Depth to Groundwater (**DTW**): 5.40 ft.
Screen Length (**SL**) from Boring Logs: 5 ft.
Depth to Top of Well Screen (**TD-SL**): 12.0 ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: 280 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/15 @ 955 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
945	280 mL/min	—	—	—	—	—	—	5.40
949	"	16.74	1.160	4.91	7.10	416	2.5	6.68
952	"	16.70	1.159	4.53	6.92	533	2.3	7.13
955	"	16.99	1.159	4.43	6.88	550	4.7	7.48
958	"	17.39	1.157	4.26	6.86	551	2.4	7.71

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

WELL LOCK DAMAGED

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-01 A
Date Purged/Sampled: 2/15/11 **Sampled By:** CSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 46.0 ft.
Static Depth to Groundwater (**DTW**): 4.37 ft.
Screen Length (**SL**) from Boring Logs: 10 ft.
Depth to Top of Well Screen (**TD-SL**): 35.5 ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: 280 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/15 @1019 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1009	300 mL/min	—	—	—	—	—	—	4.37
1013	280 mL/min	19.51	0.223	2.59	7.39	464	2.3	5.79
1016	"	19.44	0.221	2.62	7.38	447	1.9	6.28
1019	"	19.43	0.221	2.56	7.36	430	1.9	6.62

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

DUP #2

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-01
Date Purged/Sampled: 9/15/11 **Sampled By:** LSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 26.0 ft.
Static Depth to Groundwater (**DTW**): 6.56 ft.
Screen Length (**SL**) from Boring Logs: 10 ft.
Depth to Top of Well Screen (**TD-SL**): 15.5 ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: 240 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 9/15 @1121 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1027	260 mL/min	—	—	—	—	—	—	6.56
1031	240 mL/min	19.24	2.64	0.61	5.81	110	224	7.47
1036	"	19.90	2.65	0.40	5.79	106	180	7.71
1041	"	20.07	2.64	0.34	5.79	100	151	7.91
1046	"	19.96	2.58	0.32	5.81	88	114	8.00
1051	"	19.84	2.53	0.32	5.85	79	104	8.03
1056	"	20.19	2.46	0.30	5.90	75	81.5	8.15
1101	"	20.48	2.39	0.29	5.94	72	67.0	8.23
1106	"	20.56	2.33	0.28	5.97	63	56.7	8.34

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

OVER

Total Metals Collected	✓	Dissolved Metals Collected	✓

SHEET 1 OF 1

53 Low Flow Sampling Log1 Changed lock Field Filtered

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: DW-3
Date Purged/Sampled: 2/15/11 **Sampled By:** [illegible]

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 16 ft.
Static Depth to Groundwater (DTW): 5.66 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 5.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 240 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/15 @1304 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1245	300 mL/min	—	—	—	—	—	—	5.66
1249	240 mL/min	15.73	0.657	3.66	3.60	400	7.9	5.79
1252	"	17.03	0.804	1.35	3.63	384	7.1	5.80
1255	"	16.79	0.752	1.34	3.64	381	6.8	5.80
1259	"	16.49	0.722	1.17	3.67	376	5.5	5.80
1301	"	16.41	0.720	1.12	3.67	372	4.9	5.82
1304	"	16.38	0.735	1.09	3.68	364	4.3	5.82

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	☒

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project:	Delatte Metals Superfund Site
Project No.:	207-0016
Site Location:	Ponchatoula, Louisiana
Monitor Well No.:	PW-4
Date Purged/Sampled:	2/15/11 **Sampled By:** LSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**):	19.5 ft.	**Purge Flow Rate:**	280 mL/min
Static Depth to Groundwater (**DTW**):	5.28 ft.	**Volume Purged:**	_____ gallons
Screen Length (**SL**) from Boring Logs:	UNK ft.		
Depth to Top of Well Screen (**TD-SL**):	UNK ft.	**Date/Time of Sample:**	2/15 @ 1325 Time
Height of Water Column (**H=TD-DTW**):	_____ ft.		

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1315	280 mL/min	—	—	—	—	—	—	5.28
1319	"	16.65	1.068	0.52	4.13	94	2.3	5.46
1322	"	16.72	1.053	0.42	4.08	36	2.8	5.50
1325	"	16.76	1.056	0.39	4.06	7	2.3	5.53

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

DAD CRACKNELL

LOW-FLOW GROUNDWATER SAMPLING LOG

Project:	Delatte Metals Superfund Site
Project No.:	207-0016
Site Location:	Ponchatoula, Louisiana
Monitor Well No.:	DW-2
Date Purged/Sampled:	2/15/11 **Sampled By:** CSA

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**):	11 ft.	**Purge Flow Rate:**	240	mL/min
Static Depth to Groundwater (**DTW**):	4.25 ft.	**Volume Purged:**		gallons
Screen Length (**SL**) from Boring Logs:	5 ft.	**Date/Time of Sample:**	2/15 @1353	Time
Depth to Top of Well Screen (**TD-SL**):	5.5 ft.			
Height of Water Column (**H=TD-DTW**):	ft.			

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1337	240 mL/min	—	—	—	—	—	—	4.25
1341	"	15.13	8.35	1.85	3.04	114	25	4.35
1344	"	14.92	7.48	2.03	2.98	183	3.6	4.35
1347	"	14.79	7.19	2.63	2.92	221	4.2	4.39
1350	"	14.69	7.09	3.00	2.90	236	5.3	4.39
1353	"	14.76	7.05	3.01	2.89	236	6.0	4.39

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

DUP # 3

LOW-FLOW GROUNDWATER SAMPLING LOG

Project:	Delatte Metals Superfund Site
Project No.:	207-0016
Site Location:	Ponchatoula, Louisiana
Monitor Well No.:	BA-05A
Date Purged/Sampled:	2/16/11 **Sampled By:** GSA

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 54.0 ft.
Static Depth to Groundwater (**DTW**): 31 ft.
Screen Length (**SL**) from Boring Logs: 5 ft.
Depth to Top of Well Screen (**TD-SL**): 36.0 ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: 200 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/16 @ 1703 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
850	200 ml/min	—	—	—	—	—	—	3.11
854	"	17.74	0.227	8.84	6.92	-12	4.2	4.47
857	"	17.82	0.223	7.72	7.20	3	3.5	4.84
900	"	18.02	0.222	6.78	7.25	15	3.0	5.23
903	"	18.18	0.222	6.85	7.29	21	3.0	5.61

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-05
Date Purged/Sampled: 2/16/11 **Sampled By:** CSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 18.5 ft.
Static Depth to Groundwater (DTW): 5.09 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 8.0 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 200 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/16 @ 937 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
905	240 mL/min	—	—	—	—	—	—	8.09
909	200 mL/min	16.62	4.72	2.77	6.16	7	23.2	8.65
913	"	16.56	5.64	0.98	6.10	4	25.1	9.26
917	"	16.71	5.66	0.80	6.10	3	22.8	9.71
921	"	16.93	5.66	0.73	6.09	4	18.3	9.95
925	"	17.37	5.66	0.67	6.09	3	12.8	10.20
929	"	17.70	5.64	0.72	6.09	3	11.7	10.42
933	"	15.04	5.61	0.69	6.08	0	10.6	10.60
937	"	15.24	5.60	0.65	6.09	-5	9.6	10.77

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: MW-A
Date Purged/Sampled: 2/16/11 **Sampled By:** CSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 27 ft.
Static Depth to Groundwater (DTW): 10.68 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 16.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 240 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/16 @1321 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
946	240 ml/min	—	—	—	—	—	—	10.63
952	"	19.05	0.666	3.17	7.07	-39	7.3	11.42
953	"	19.29	0.644	2.93	7.13	-12	5.5	11.58
956	"	19.44	0.646	2.87	7.16	0	5.5	11.69
1001	"	19.48	0.646	2.85	7.16	8	4.3	11.80

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: DW-1
Date Purged/Sampled: 2/16/01 **Sampled By:** CSR

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 19 ft.
Static Depth to Groundwater (DTW): 11.40 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 8.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 220 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/16 @ 1042 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1006	220 mL/min	—	—	—	—	—	—	11.40
1010	"	18.29	0.478	4.55	6.23	101	40.7	11.69
1014	"	18.22	0.479	3.74	5.91	132	18.7	11.70
1018	"	18.19	0.502	3.28	5.84	130	14.2	11.73
1022	"	18.26	0.533	2.94	5.80	128	14.3	11.75
1026	"	18.28	0.587	2.43	5.75	95	12.4	11.78
1030	"	18.29	0.657	2.11	5.70	-13	12.0	11.80
1034	"	18.31	0.722	1.76	5.66	-67	11.5	11.82
1038	"	18.32	0.794	1.49	5.60	-84	10.3	11.82
1042	"	18.30	0.858	1.27	5.56	-97	9.7	11.83

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: MW-1
Date Purged/Sampled: 2/16/11 **Sampled By:** CSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 28.5 ft.
Static Depth to Groundwater (**DTW**): 14.55 ft.
Screen Length (**SL**) from Boring Logs: 15 ft.
Depth to Top of Well Screen (**TD-SL**): 13 ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: 160 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/16 @ 1119 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1106	160 mL/m	—	—	—	—	—	—	14.55
1110	"	19.49	4.20	1.68	3.54	7	4.7	14.60
1113	"	19.60	4.34	1.64	3.47	12	3.3	14.60
1116	"	19.63	4.40	1.54	3.42	15	2.7	14.60
1119	"	19.65	4.41	1.56	3.40	18	2.1	14.60

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

DROPPED TUBING IN WELL / RETRIEVED. SET AT 21 FT.

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-03A
Date Purged/Sampled: 2/16/11 **Sampled By:** CSA

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 100 ft.
Static Depth to Groundwater (DTW): 1.59 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 89.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 240 mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/16 @ 1205 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1129	240 ml/min	—	—	—	—	—	—	1.59
1132	4	18.29	0.256	1.40	7.38	-200	88	1.58
1135	"	18.40	0.250	1.11	8.30	-208	264	1.59
1138	"	18.55	0.256	0.95	8.03	-209	240	1.59
1141	"	18.60	0.256	0.88	8.01	-210	212	1.59
1144	"	18.62	0.255	0.72	8.14	-207	200	1.59
1147	"	18.64	0.254	0.68	8.24	-205	113	1.59
1151	"	18.76	0.256	0.62	8.25	-201	71.4	1.59
1154	"	18.87	0.255	0.58	8.30	-202	57.6	1.59

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	✓

SHEET 1 OF 1

FIELD FILTERED

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-03
Date Purged/Sampled: 2/16/14 **Sampled By:** GM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 13.5 ft.
Static Depth to Groundwater (DTW): ____ ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 3 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: 240 mL/min
Volume Purged: ____ gallons
Date/Time of Sample: 2/16 @1220 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1210	240 mL/min	—	—	—	—	—	—	6.73
1214	1	15.69	0.250	3.66	4.19	127	21	6.76
1217	1	15.53	0.251	3.55	4.14	190	7.8	6.76
1220	1	15.51	0.257	3.56	4.13	209	6.8	6.76

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

MS/MSD TAKEN

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: MW-2
Date Purged/Sampled: 2/16/11 **Sampled By:** ISM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 10.5 ft.
Static Depth to Groundwater (DTW): ____ ft.
Screen Length (SL) from Boring Logs: 5 ft.
Depth to Top of Well Screen (TD-SL): 5 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: 280 mL/min
Volume Purged: ____ gallons
Date/Time of Sample: 2/16 @1248 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1235	280 mL/min	—	—	—	—	—	—	7.28
1239	"	16.36	1.179	3.81	3.27	444	4.7	7.70
1242	"	15.88	1.209	2.80	3.22	464	5.4	8.10
1245	"	15.92	1.210	2.42	3.23	450	4.9	8.25
1248	"	15.96	1.208	2.08	3.23	445	4.5	8.37

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	

SHEET 1 OF 1

Duplicate #4

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

SEMS, INC.

Certificate of Analysis Number:

11020727

Report To:		Project Name:	207-0016
SEMS, INC.		Site:	DELATTE METALS
JESSE HOPPES		Site Address:	
11628 S. CHOCTAW DRIVE			PONCHATOULA LA
BATON ROUGE		PO Number:	
LA		State:	Louisiana
70815-		State Cert. No.:	02048
ph: (225) 924-2002	fax: (225) 924-2004	Date Reported:	3/11/2011

I. SAMPLE RECEIPT

A. All samples were received intact. The internal ice chest temperatures were measured upon receipt and recorded on the Sample Receipt Checklist included in this data package.

II. ANALYSIS

A. Holding Times: All analyses were completed within the recommended holding time.

B. Measurement Basis: "J" values may be presented for the analyses in this report. Programmatically, "J" values are those confirmed values for components detected less than the "Rep. Limit" but greater than the laboratory method detection limit (MDL). Thus, it should be noted that positive values may appear on quantitation reports but not on Form I if those values are below the MDL.

C. Analytical Exceptions:

Total Metals by SW846 method 6020: Laboratory batch 98096-Target analytes Lead, Manganese, Thallium, and Zinc were detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results. The sample selected for use in Accutest Gulf Coast/SPL Laboratory's quality control program had Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recoveries that were outside of the advisable quality control limits for Arsenic due to possible matrix interference. Other samples of like matrix collected from this site also may be affected. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed and all recoveries were within quality control limits. Laboratory batch 98097-Target analytes Lead, Manganese, Thallium, and Zinc were detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results. The sample selected for use in Accutest Gulf Coast/SPL Laboratory's quality control program had Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recoveries that were outside of the advisable quality control limits for Arsenic, Cadmium, Lead, Nickel, and Zinc due to possible matrix interference. Other samples of like matrix collected from this site also may be affected. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed and all recoveries were within quality control limits. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Total Metals by SW846 method 6010B: Laboratory batch 98097-Target analyte Arsenic was detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results.

Dissolved Metals by SW846 method 6010B: Laboratory batch 98257-Target analyte Arsenic was detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results.

3/11/2011

Amy K. Jackson
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

SEMS, INC.

Certificate of Analysis Number:

11020727

Dissolved Metals by SW846 method 6020: Laboratory batch 98257-Target analytes Cadmium, Nickel, Thallium, and Zinc were detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results.

III. QUALITY CONTROL

A. Analytical Protocol and Deliverables: The samples were analyzed in accordance with the protocol requirements.

B. Initial and Continuing Calibrations: All QA acceptance criteria were met for initial and continuing calibration samples.

C. Blanks: Method and calibration blanks met the method criteria.

NOTE: This data package was produced using software base on CLP type deliverables. The forms and documentation in this data package are to be considered "CLP-like" and may not meet all the criteria specified in the CLP protocols. The data are reported based on the method requirements.

CERTIFICATION:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

3/11/2011

Amy K. Jackson
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

SEMS, INC.

Certificate of Analysis Number:

11020727

Report To: SEMS, INC.
JESSE HOPPES
11628 S. CHOCTAW DRIVE

BATON ROUGE
LA
70815-
ph: (225) 924-2002 fax: (225) 924-2004

Fax To:

Project Name: 207-0016
Site: DELATTE METALS
Site Address:
PONCHATOULA LA
PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 3/11/2011

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
BA-09A	11020727-01	Water	02/14/2011 9:19	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-09	11020727-02	Water	02/14/2011 10.01	2/18/2011 5:10:00 PM	954-322956, 322	☐
MW-4	11020727-03	Water	02/14/2011 10.44	2/18/2011 5:10:00 PM	954-322956, 322	☐
WW-09	11020727-04	Water	02/14/2011 11:05	2/18/2011 5:10:00 PM	954-322956, 322	☐
WW-04	11020727-05	Water	02/14/2011 11:35	2/18/2011 5:10:00 PM	954-322956, 322	☐
(b) (6) WELL	11020727-06	Water	02/14/2011 11:40	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-03	11020727-07	Water	02/14/2011 12:14	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-07	11020727-08	Water	02/14/2011 12.48	2/18/2011 5:10:00 PM	954-322956, 322	☐
DW-04	11020727-09	Water	02/14/2011 13:09	2/18/2011 5:10:00 PM	954-322956, 322	☐
DUPLICATE #1	11020727-10	Water	02/14/2011 13:09	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-19	11020727-11	Water	02/14/2011 13:28	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-19MS	11020727-11MS	Water	02/14/2011 13:28	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-19MSD	11020727-11MSD	Water	02/14/2011 13:28	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-25	11020727-12	Water	02/14/2011 13:51	2/18/2011 5:10:00 PM	954-322956, 322	☐
MW-3	11020727-13	Water	02/14/2011 14:13	2/18/2011 5:10:00 PM	954-322956, 322	☐
MW-6	11020727-14	Water	02/14/2011 14.53	2/18/2011 5:10:00 PM	954-322956, 322	☐
BB-01	11020727-15	Water	02/15/2011 8:51	2/18/2011 5:10:00 PM	954-322956, 322	☐
SOUTH WELL	11020727-16	Water	02/15/2011 9:04	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-17	11020727-17	Water	02/15/2011 9:21	2/18/2011 5:10:00 PM	954-322956, 322	☐
NORTH WELL	11020727-18	Water	02/15/2011 9:33	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-21R	11020727-19	Water	02/15/2011 9:58	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-01A	11020727-20	Water	02/15/2011 10:19	2/18/2011 5:10:00 PM	954-322956, 322	☐

3/11/2011

Amy K. Jackson
Project Manager

Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

SEMS, INC.

Certificate of Analysis Number:

11020727

Report To: SEMS, INC.
JESSE HOPPES
11628 S. CHOCTAW DRIVE

BATON ROUGE
LA
70815-
ph: (225) 924-2002 fax: (225) 924-2004

Fax To:

Project Name: 207-0016
Site: DELATTE METALS
Site Address:
PONCHATOULA LA
PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 3/11/2011

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
DUPLICATE #2	11020727-21	Water	02/15/2011 10:19	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-01	11020727-22	Water	02/15/2011 11:21	2/18/2011 5:10:00 PM	954-322956, 322	☐
DW-3	11020727-23	Water	02/15/2011 13:04	2/18/2011 5:10:00 PM	954-322956, 322	☐
PW-4	11020727-24	Water	02/15/2011 13:25	2/18/2011 5:10:00 PM	954-322956, 322	☐
DW-2	11020727-25	Water	02/15/2011 13:53	2/18/2011 5:10:00 PM	954-322956, 322	☐
DUPLICATE #3	11020727-26	Water	02/15/2011 13:53	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-05A	11020727-27	Water	02/16/2011 9:03	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-05	11020727-28	Water	02/16/2011 9:37	2/18/2011 5:10:00 PM	954-322956, 322	☐
MW-A	11020727-29	Water	02/16/2011 10:01	2/18/2011 5:10:00 PM	954-322956, 322	☐
DW-1	11020727-30	Water	02/16/2011 10:42	2/18/2011 5:10:00 PM	954-322956, 322	☐
MW-1	11020727-31	Water	02/16/2011 11:19	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-03A	11020727-32	Water	02/16/2011 12:00	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-03	11020727-33	Water	02/16/2011 12:20	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-03MS	11020727-33MS	Water	02/16/2011 12:20	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-03MSD	11020727-33MSD	Water	02/16/2011 12:20	2/18/2011 5:10:00 PM	954-322956, 322	☐
MW-2	11020727-34	Water	02/16/2011 12:48	2/18/2011 5:10:00 PM	954-322956, 322	☐
DUPLICATE #4	11020727-35	Water	02/16/2011 12:48	2/18/2011 5:10:00 PM	954-322956, 322	☐

3/11/2011

Amy K. Jackson
Project Manager

Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-09A **Collected:** 02/14/2011 9:19 **SPL Sample ID:** 11020727-01

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	0.00279	J	0.00133	0.004	0.01	1	02/24/11 11:04	RJD	3947725
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:04	RJD	3947725
Lead	0.000878	J	0.00028	0.001	0.015	1	02/24/11 11:04	RJD	3947725
Manganese	0.0267		0.000217	0.002		1	02/24/11 11:04	RJD	3947725
Nickel	0.000516	J	0.000477	0.002	0.073	1	02/24/11 11:04	RJD	3947725
Thallium	0.000424	J	0.00025	0.002	0.002	1	02/24/11 11:04	RJD	3947725
Zinc	0.00341	J	0.00122	0.01	1.1	1	02/24/11 11:04	RJD	3947725

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:03:49 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-09 **Collected:** 02/14/2011 10:01 **SPL Sample ID:** 11020727-02

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Cadmium	0.000453	J	5.28E-05	0.002	0.005	1	02/24/11 11:07	RJD	3947726
Lead	0.00123		0.00028	0.001	0.015	1	02/24/11 11:07	RJD	3947726
Manganese	2.61		0.000217	0.002		1	02/24/11 11:07	RJD	3947726
Nickel	**0.141**	**>MCL**	**0.000477**	**0.002**	**0.073**	**1**	**02/24/11 11:07**	**RJD**	**3947726**
Thallium	0.000442	J	0.00025	0.002	0.002	1	02/24/11 11:07	RJD	3947726
Zinc	0.44		0.00122	0.01	1.1	1	02/24/11 11:07	RJD	3947726

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL		SW6010B Units: mg/L		
Arsenic	**0.0268**	**J>MCL**	**0.00985**	**0.1**	**0.01**	**5**	**03/07/11 11:52**	**SVW**	**3963210**

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:03:51 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-4 **Collected:** 02/14/2011 10:44 **SPL Sample ID:** 11020727-03

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
DISSOLVED METALS BY ICP/MS					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	03/03/11 13:44	RJD	3958775
Cadmium	0.000979	J	5.28E-05	0.002	0.005	1	03/03/11 5:25	RJD	3958425
Lead	ND		0.00028	0.001	0.015	1	03/03/11 5:25	RJD	3958425
Manganese	0.000235	J	0.000217	0.002		1	03/03/11 5:25	RJD	3958425
Nickel	0.00148	JB	0.000477	0.002	0.073	1	03/03/11 13:44	RJD	3958775
Thallium	0.000592	J	0.00025	0.002	0.002	1	03/03/11 5:25	RJD	3958425
Zinc	0.00204	J	0.00122	0.006	1.1	1	03/03/11 13:44	RJD	3958775

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/25/2011 8:00	SA	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11:10	RJD	3947727
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:10	RJD	3947727
Lead	0.00154		0.00028	0.001	0.015	1	02/24/11 11:10	RJD	3947727
Manganese	0.0134		0.000217	0.002		1	02/24/11 11:10	RJD	3947727
Nickel	0.0011	J	0.000477	0.002	0.073	1	02/24/11 11:10	RJD	3947727
Thallium	0.000417	J	0.00025	0.002	0.002	1	02/24/11 11:10	RJD	3947727
Zinc	0.00537	J	0.00122	0.01	1.1	1	02/24/11 11:10	RJD	3947727

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:03:53 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: WW-09 **Collected:** 02/14/2011 11:05 **SPL Sample ID:** 11020727-04

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11:12	RJD	3947728
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:12	RJD	3947728
Lead	0.00123		0.00028	0.001	0.015	1	02/24/11 11:12	RJD	3947728
Manganese	0.0161		0.000217	0.002		1	02/24/11 11:12	RJD	3947728
Nickel	ND		0.000477	0.002	0.073	1	02/24/11 11:12	RJD	3947728
Thallium	0.000414	J	0.00025	0.002	0.002	1	02/24/11 11:12	RJD	3947728
Zinc	0.00376	J	0.00122	0.01	1.1	1	02/24/11 11:12	RJD	3947728

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:03:54 AM

ACCUTEST®
LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: WW-04 **Collected:** 02/14/2011 11:35 **SPL Sample ID:** 11020727-05

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11:15	RJD	3947729
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:15	RJD	3947729
Lead	0.000794	J	0.00028	0.001	0.015	1	02/24/11 11:15	RJD	3947729
Manganese	0.00355		0.000217	0.002		1	02/24/11 11:15	RJD	3947729
Nickel	ND		0.000477	0.002	0.073	1	02/24/11 11:15	RJD	3947729
Thallium	0.000413	J	0.00025	0.002	0.002	1	02/24/11 11:15	RJD	3947729
Zinc	0.00205	J	0.00122	0.01	1.1	1	02/24/11 11:15	RJD	3947729

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:03:55 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: (b) (6) WELL **Collected:** 02/14/2011 11:40 **SPL Sample ID:** 11020727-06

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	0.00186	J	0.00133	0.004	0.01	1	02/24/11 11:18	RJD	3947730
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:18	RJD	3947730
Lead	0.00341		0.00028	0.001	0.015	1	02/24/11 11:18	RJD	3947730
Manganese	0.023		0.000217	0.002		1	02/24/11 11:18	RJD	3947730
Nickel	0.000568	J	0.000477	0.002	0.073	1	02/24/11 11:18	RJD	3947730
Thallium	0.000413	J	0.00025	0.002	0.002	1	02/24/11 11:18	RJD	3947730
Zinc	0.00368	J	0.00122	0.01	1.1	1	02/24/11 11:18	RJD	3947730

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:03:57 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BC-03 **Collected:** 02/14/2011 12:14 **SPL Sample ID:** 11020727-07

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11.21	RJD	3947731
Cadmium	0.0000556	J	5.28E-05	0.002	0.005	1	02/24/11 11.21	RJD	3947731
Lead	0.000948	J	0.00028	0.001	0.015	1	02/24/11 11.21	RJD	3947731
Manganese	0.00403		0.000217	0.002		1	02/24/11 11:21	RJD	3947731
Nickel	0.00186	J	0.000477	0.002	0.073	1	02/24/11 11:21	RJD	3947731
Thallium	0.000424	J	0.00025	0.002	0.002	1	02/24/11 11:21	RJD	3947731
Zinc	0.00298	J	0.00122	0.01	1.1	1	02/24/11 11.21	RJD	3947731

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:03:58 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BC-07 **Collected:** 02/14/2011 12:48 **SPL Sample ID:** 11020727-08

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00277	J	0.00133	0.004	0.01	1	02/24/11 11:23	RJD	3947732
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:23	RJD	3947732
Lead	0.00137		0.00028	0.001	0.015	1	02/24/11 11:23	RJD	3947732
Manganese	0.029		0.000217	0.002		1	02/24/11 11:23	RJD	3947732
Nickel	0.00317		0.000477	0.002	0.073	1	02/24/11 11:23	RJD	3947732
Thallium	0.000413	J	0.00025	0.002	0.002	1	02/24/11 11:23	RJD	3947732
Zinc	0.00661	J	0.00122	0.01	1.1	1	02/24/11 11:23	RJD	3947732

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:00 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DW-04 **Collected:** 02/14/2011 13:09 **SPL Sample ID:** 11020727-09

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	0.00187	J	0.00133	0.004	0.01	1	02/24/11 11:26	RJD	3947733
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:26	RJD	3947733
Lead	0.000841	J	0.00028	0.001	0.015	1	02/24/11 11:26	RJD	3947733
Manganese	0.0026		0.000217	0.002		1	02/24/11 11:26	RJD	3947733
Nickel	0.001	J	0.000477	0.002	0.073	1	02/24/11 11:26	RJD	3947733
Thallium	0.000412	J	0.00025	0.002	0.002	1	02/24/11 11:26	RJD	3947733
Zinc	0.00239	J	0.00122	0.01	1.1	1	02/24/11 11:26	RJD	3947733

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:01 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DUPLICATE #1 **Collected:** 02/14/2011 13:09 **SPL Sample ID:** 11020727-10

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	0.00165	J	0.00133	0.004	0.01	1	02/24/11 11:29	RJD	3947734
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:29	RJD	3947734
Lead	0.000816	J	0.00028	0.001	0.015	1	02/24/11 11:29	RJD	3947734
Manganese	0.00354		0.000217	0.002		1	02/24/11 11:29	RJD	3947734
Nickel	0.000902	J	0.000477	0.002	0.073	1	02/24/11 11:29	RJD	3947734
Thallium	0.000414	J	0.00025	0.002	0.002	1	02/24/11 11:29	RJD	3947734
Zinc	0.00189	J	0.00122	0.01	1.1	1	02/24/11 11:29	RJD	3947734

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:02 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BC-19 **Collected:** 02/14/2011 13:28 **SPL Sample ID:** 11020727-11

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 10:39	RJD	3947717
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 10:39	RJD	3947717
Lead	0.00085	J	0.00028	0.001	0.015	1	02/24/11 10:39	RJD	3947717
Manganese	0.00272		0.000217	0.002		1	02/24/11 10:39	RJD	3947717
Nickel	0.00179	J	0.000477	0.002	0.073	1	02/24/11 10:39	RJD	3947717
Thallium	0.000474	J	0.00025	0.002	0.002	1	02/24/11 10:39	RJD	3947717
Zinc	0.00365	J	0.00122	0.01	1.1	1	02/24/11 10:39	RJD	3947717

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:04 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BC-25 **Collected:** 02/14/2011 13:51 **SPL Sample ID:** 11020727-12

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11:46	RJD	3947737
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:46	RJD	3947737
Lead	0.000836	J	0.00028	0.001	0.015	1	02/24/11 11:46	RJD	3947737
Manganese	0.0264		0.000217	0.002		1	02/24/11 11:46	RJD	3947737
Nickel	0.00068	J	0.000477	0.002	0.073	1	02/24/11 11:46	RJD	3947737
Thallium	0.000414	J	0.00025	0.002	0.002	1	02/24/11 11:46	RJD	3947737
Zinc	0.00408	J	0.00122	0.01	1.1	1	02/24/11 11:46	RJD	3947737

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:05 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-3 **Collected:** 02/14/2011 14:13 **SPL Sample ID:** 11020727-13

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11:49	RJD	3947738
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:49	RJD	3947738
Lead	0.0024		0.00028	0.001	0.015	1	02/24/11 11:49	RJD	3947738
Manganese	0.509		0.000217	0.002		1	02/24/11 11:49	RJD	3947738
Nickel	0.00219		0.000477	0.002	0.073	1	02/24/11 11:49	RJD	3947738
Thallium	0.000418	J	0.00025	0.002	0.002	1	02/24/11 11:49	RJD	3947738
Zinc	0.00235	J	0.00122	0.01	1.1	1	02/24/11 11:49	RJD	3947738

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:06 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-6 **Collected:** 02/14/2011 14:53 **SPL Sample ID:** 11020727-14

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Cadmium	**0.0675**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 11:51**	**RJD**	**3947739**
Lead	0.00175		0.00028	0.001	0.015	1	02/24/11 11:51	RJD	3947739
Manganese	3.14		0.000217	0.002		1	02/24/11 11:51	RJD	3947739
Nickel	0.0354		0.000477	0.002	0.073	1	02/24/11 11:51	RJD	3947739
Thallium	0.000523	J	0.00025	0.002	0.002	1	02/24/11 11:51	RJD	3947739
Zinc	0.128		0.00122	0.01	1.1	1	02/24/11 11:51	RJD	3947739

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL		SW6010B Units: mg/L		
Arsenic	0.00241	J	0.00197	0.02	0.01	1	03/06/11 21:28	SVW	3962870

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:08 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BB-01 **Collected:** 02/15/2011 8:51 **SPL Sample ID:** 11020727-15

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00555		0.00133	0.004	0.01	1	02/24/11 11:54	RJD	3947740
Cadmium	0.000109	J	5.28E-05	0.002	0.005	1	02/24/11 11:54	RJD	3947740
Lead	0.00571		0.00028	0.001	0.015	1	02/24/11 11:54	RJD	3947740
Manganese	0.00455		0.000217	0.002		1	02/24/11 11:54	RJD	3947740
Nickel	0.00334		0.000477	0.002	0.073	1	02/24/11 11:54	RJD	3947740
Thallium	0.000416	J	0.00025	0.002	0.002	1	02/24/11 11:54	RJD	3947740
Zinc	0.0069	J	0.00122	0.01	1.1	1	02/24/11 11:54	RJD	3947740

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:09 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: SOUTH WELL **Collected:** 02/15/2011 9:04 **SPL Sample ID:** 11020727-16

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11:57	RJD	3947741
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:57	RJD	3947741
Lead	0.000851	J	0.00028	0.001	0.015	1	02/24/11 11:57	RJD	3947741
Manganese	0.00484		0.000217	0.002		1	02/24/11 11:57	RJD	3947741
Nickel	0.00204		0.000477	0.002	0.073	1	02/24/11 11:57	RJD	3947741
Thallium	0.00041	J	0.00025	0.002	0.002	1	02/24/11 11:57	RJD	3947741
Zinc	0.003	J	0.00122	0.01	1.1	1	02/24/11 11:57	RJD	3947741

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:11 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BC-17 **Collected:** 02/15/2011 9:21 **SPL Sample ID:** 11020727-17

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	0.00374	J	0.00133	0.004	0.01	1	02/24/11 11:59	RJD	3947742
Cadmium	0.000764	J	5.28E-05	0.002	0.005	1	02/24/11 11:59	RJD	3947742
Lead	**0.0243**	**>MCL**	**0.00028**	**0.001**	**0.015**	**1**	**02/24/11 11:59**	**RJD**	**3947742**
Manganese	0.114		0.000217	0.002		1	02/24/11 11:59	RJD	3947742
Nickel	0.00362		0.000477	0.002	0.073	1	02/24/11 11:59	RJD	3947742
Thallium	0.000439	J	0.00025	0.002	0.002	1	02/24/11 11:59	RJD	3947742
Zinc	0.00406	J	0.00122	0.01	1.1	1	02/24/11 11:59	RJD	3947742

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:12 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: NORTH WELL **Collected:** 02/15/2011 9:33 **SPL Sample ID:** 11020727-18

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 12:02	RJD	3947743
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 12:02	RJD	3947743
Lead	0.00135		0.00028	0.001	0.015	1	02/24/11 12:02	RJD	3947743
Manganese	0.00405		0.000217	0.002		1	02/24/11 12:02	RJD	3947743
Nickel	0.00148	J	0.000477	0.002	0.073	1	02/24/11 12:02	RJD	3947743
Thallium	0.000412	J	0.00025	0.002	0.002	1	02/24/11 12:02	RJD	3947743
Zinc	0.00277	J	0.00122	0.01	1.1	1	02/24/11 12:02	RJD	3947743

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:14 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BC-21R **Collected:** 02/15/2011 9:58 **SPL Sample ID:** 11020727-19

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 12:05	RJD	3947744
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 12:05	RJD	3947744
Lead	0.000912	J	0.00028	0.001	0.015	1	02/24/11 12:05	RJD	3947744
Manganese	0.00758		0.000217	0.002		1	02/24/11 12:05	RJD	3947744
Nickel	0.0025		0.000477	0.002	0.073	1	02/24/11 12:05	RJD	3947744
Thallium	0.000416	J	0.00025	0.002	0.002	1	02/24/11 12:05	RJD	3947744
Zinc	0.00462	J	0.00122	0.01	1.1	1	02/24/11 12:05	RJD	3947744

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:15 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-01A **Collected:** 02/15/2011 10:19 **SPL Sample ID:** 11020727-20

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	0.00706		0.00133	0.004	0.01	1	02/24/11 12:07	RJD	3947745
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 12:07	RJD	3947745
Lead	0.00121		0.00028	0.001	0.015	1	02/24/11 12:07	RJD	3947745
Manganese	0.007		0.000217	0.002		1	02/24/11 12:07	RJD	3947745
Nickel	0.00139	J	0.000477	0.002	0.073	1	02/24/11 12:07	RJD	3947745
Thallium	0.00041	J	0.00025	0.002	0.002	1	02/24/11 12:07	RJD	3947745
Zinc	0.00288	J	0.00122	0.01	1.1	1	02/24/11 12:07	RJD	3947745

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:16 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DUPLICATE #2 **Collected:** 02/15/2011 10:19 **SPL Sample ID:** 11020727-21

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	0.00644		0.00133	0.004	0.01	1	02/24/11 15:36	RJD	3948600
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 15:36	RJD	3948600
Lead	0.00102		0.00028	0.001	0.015	1	02/24/11 15:36	RJD	3948600
Manganese	0.00638		0.000217	0.002		1	02/24/11 15:36	RJD	3948600
Nickel	0.00101	J	0.000477	0.002	0.073	1	02/24/11 15:36	RJD	3948600
Thallium	0.000414	J	0.00025	0.002	0.002	1	02/24/11 15:36	RJD	3948600
Zinc	0.0025	J	0.00122	0.01	1.1	1	02/24/11 15:36	RJD	3948600

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:18 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-01 **Collected:** 02/15/2011 11:21 **SPL Sample ID:** 11020727-22

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
DISSOLVED METALS BY ICP/MS					**MCL**		**SW6020 Units: mg/L**		
Cadmium	0.00104	J	5.28E-05	0.002	0.005	1	03/03/11 5:46	RJD	3958433
Lead	ND		0.00028	0.001	0.015	1	03/03/11 5:46	RJD	3958433
Manganese	1.23		0.000217	0.002		1	03/03/11 5:46	RJD	3958433
Nickel	0.0445	B	0.000477	0.002	0.073	1	03/03/11 14:06	RJD	3958783
Thallium	0.000386	J	0.00025	0.002	0.002	1	03/03/11 5:46	RJD	3958433
Zinc	0.051		0.00122	0.006	1.1	1	03/03/11 14:06	RJD	3958783

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/25/2011 8:00	SA	1.00

DISSOLVED METALS BY METHOD 6010B					**MCL**		**SW6010B Units: mg/L**		
Arsenic	0.0033	J	0.00197	0.02	0.01	1	03/06/11 22:48	SVW	3962902

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/25/2011 8:00	SA	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Cadmium	0.0000733	J	5.28E-05	0.002	0.005	1	02/24/11 15:39	RJD	3948601
Lead	0.00102		0.00028	0.001	0.015	1	02/24/11 15:39	RJD	3948601
Manganese	1.37		0.000217	0.002		1	02/24/11 15:39	RJD	3948601
Nickel	0.0499		0.000477	0.002	0.073	1	02/24/11 15:39	RJD	3948601
Thallium	0.000421	J	0.00025	0.002	0.002	1	02/24/11 15:39	RJD	3948601
Zinc	0.0553		0.00122	0.01	1.1	1	02/24/11 15:39	RJD	3948601

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					**MCL**		**SW6010B Units: mg/L**		
Arsenic	0.00241	J	0.00197	0.02	0.01	1	03/06/11 22:05	SVW	3962885

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:20 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DW-3 **Collected:** 02/15/2011 13:04 **SPL Sample ID:** 11020727-23

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Cadmium	**0.23**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 15:42**	**RJD**	**3948602**
Lead	**0.407**	**>MCL**	**0.00028**	**0.001**	**0.015**	**1**	**02/24/11 15:42**	**RJD**	**3948602**
Manganese	1.09		0.000217	0.002		1	02/24/11 15:42	RJD	3948602
Nickel	0.0482		0.000477	0.002	0.073	1	02/24/11 15:42	RJD	3948602
Thallium	0.0007	J	0.00025	0.002	0.002	1	02/24/11 15:42	RJD	3948602
Zinc	0.0889		0.00122	0.01	1.1	1	02/24/11 15:42	RJD	3948602

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL		SW6010B Units: mg/L		
Arsenic	**0.0139**	**J>MCL**	**0.00197**	**0.02**	**0.01**	**1**	**03/06/11 22:07**	**SVW**	**3962886**

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:22 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: PW-4 **Collected:** 02/15/2011 13:25 **SPL Sample ID:** 11020727-24

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00245	J	0.00133	0.004	0.01	1	02/24/11 15:44	RJD	3948603
Cadmium	0.000849	J	5.28E-05	0.002	0.005	1	02/24/11 15:44	RJD	3948603
Lead	0.002		0.00028	0.001	0.015	1	02/24/11 15:44	RJD	3948603
Manganese	1.57		0.000217	0.002		1	02/24/11 15:44	RJD	3948603
Nickel	0.0408		0.000477	0.002	0.073	1	02/24/11 15:44	RJD	3948603
Thallium	0.000438	J	0.00025	0.002	0.002	1	02/24/11 15:44	RJD	3948603
Zinc	0.0921		0.00122	0.01	1.1	1	02/24/11 15:44	RJD	3948603

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:23 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DW-2 **Collected:** 02/15/2011 13:53 **SPL Sample ID:** 11020727-25

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	**0.0425**	**J>MCL**	**0.0331**	**0.1**	**0.01**	**25**	**02/26/11 15:59**	**RJD**	**3951847**
Cadmium	**0.0187**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 15:47**	**RJD**	**3948606**
Lead	0.00865		0.0014	0.005	0.015	5	02/26/11 15:57	RJD	3951846
Manganese	12.9		0.000217	0.002		1	02/24/11 15:47	RJD	3948606
Nickel	**0.575**	**>MCL**	**0.000477**	**0.002**	**0.073**	**1**	**02/24/11 15:47**	**RJD**	**3948606**
Thallium	ND		0.00125	0.01	0.002	5	02/26/11 15:57	RJD	3951846
Zinc	**1.41**	**>MCL**	**0.00122**	**0.01**	**1.1**	**1**	**02/24/11 15:47**	**RJD**	**3948606**

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:25 AM

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LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DUPLICATE #3 **Collected:** 02/15/2011 13:53 **SPL Sample ID:** 11020727-26

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	**0.0386**	**J>MCL**	**0.0331**	**0.1**	**0.01**	**25**	**02/26/11 16:05**	**RJD**	**3951849**
Cadmium	**0.0193**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 16:07**	**RJD**	**3948609**
Lead	0.00794		0.0014	0.005	0.015	5	02/26/11 16:02	RJD	3951848
Manganese	13.5		0.000217	0.002		1	02/24/11 16:07	RJD	3948609
Nickel	**0.602**	**>MCL**	**0.000477**	**0.002**	**0.073**	**1**	**02/24/11 16:07**	**RJD**	**3948609**
Thallium	ND		0.00125	0.01	0.002	5	02/26/11 16:02	RJD	3951848
Zinc	**1.46**	**>MCL**	**0.00122**	**0.01**	**1.1**	**1**	**02/24/11 16:07**	**RJD**	**3948609**

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:26 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-05A **Collected:** 02/16/2011 9:03 **SPL Sample ID:** 11020727-27

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	0.00203	J	0.00133	0.004	0.01	1	02/24/11 16:10	RJD	3948611
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 16:10	RJD	3948611
Lead	0.000601	J	0.00028	0.001	0.015	1	02/26/11 16:07	RJD	3951850
Manganese	0.00329		0.000217	0.002		1	02/24/11 16:10	RJD	3948611
Nickel	0.00107	J	0.000477	0.002	0.073	1	02/24/11 16:10	RJD	3948611
Thallium	ND		0.00025	0.002	0.002	1	02/26/11 16:07	RJD	3951850
Zinc	0.00395	J	0.00122	0.01	1.1	1	02/24/11 16:10	RJD	3948611

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:27 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-05 **Collected:** 02/16/2011 9:37 **SPL Sample ID:** 11020727-28

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 16:13	RJD	3948612
Lead	0.000582	J	0.00028	0.001	0.015	1	02/26/11 16:10	RJD	3951851
Manganese	18.5		0.000217	0.002		1	02/24/11 16:13	RJD	3948612
Nickel	**0.0806**	**>MCL**	**0.000477**	**0.002**	**0.073**	**1**	**02/24/11 16:13**	**RJD**	**3948612**
Thallium	ND		0.00025	0.002	0.002	1	02/26/11 16:10	RJD	3951851
Zinc	0.0133		0.00122	0.01	1.1	1	02/24/11 16:13	RJD	3948612

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL		SW6010B Units: mg/L		
Arsenic	**0.0162**	**J>MCL**	**0.00197**	**0.02**	**0.01**	**1**	**03/06/11 22:12**	**SVW**	**3962887**

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:29 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-A **Collected:** 02/16/2011 10:01 **SPL Sample ID:** 11020727-29

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00134	J	0.00133	0.004	0.01	1	02/24/11 16:16	RJD	3948614
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 16:16	RJD	3948614
Lead	0.000617	J	0.00028	0.001	0.015	1	02/26/11 16:34	RJD	3951855
Manganese	0.00471		0.000217	0.002		1	02/24/11 16:16	RJD	3948614
Nickel	0.00102	J	0.000477	0.002	0.073	1	02/24/11 16:16	RJD	3948614
Thallium	ND		0.00025	0.002	0.002	1	02/26/11 16:34	RJD	3951855
Zinc	0.0039	J	0.00122	0.01	1.1	1	02/24/11 16:16	RJD	3948614

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:30 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DW-1 **Collected:** 02/16/2011 10:42 **SPL Sample ID:** 11020727-30

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	**0.0819**	**>MCL**	**0.00133**	**0.004**	**0.01**	**1**	**02/24/11 16:18**	**RJD**	**3948615**
Cadmium	**0.0154**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 16:18**	**RJD**	**3948615**
Lead	0.00383		0.00028	0.001	0.015	1	02/26/11 16:36	RJD	3951856
Manganese	1.58		0.000217	0.002		1	02/24/11 16:18	RJD	3948615
Nickel	0.0206		0.000477	0.002	0.073	1	02/24/11 16:18	RJD	3948615
Thallium	0.000385	J	0.00025	0.002	0.002	1	02/26/11 16:36	RJD	3951856
Zinc	0.0579		0.00122	0.01	1.1	1	02/24/11 16:18	RJD	3948615

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:32 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-1 **Collected:** 02/16/2011 11:19 **SPL Sample ID:** 11020727-31

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	**0.0395**	**J>MCL**	**0.0331**	**0.1**	**0.01**	**25**	**02/26/11 16:42**	**RJD**	**3951858**
Cadmium	0.00475		5.28E-05	0.002	0.005	1	02/24/11 16:21	RJD	3948617
Lead	0.00578		0.0014	0.005	0.015	5	02/26/11 16:39	RJD	3951857
Manganese	5.69		0.000217	0.002		1	02/24/11 16:21	RJD	3948617
Nickel	**0.226**	**>MCL**	**0.000477**	**0.002**	**0.073**	**1**	**02/24/11 16:21**	**RJD**	**3948617**
Thallium	ND		0.00125	0.01	0.002	5	02/26/11 16:39	RJD	3951857
Zinc	0.258		0.00122	0.01	1.1	1	02/24/11 16:21	RJD	3948617

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:33 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-03A **Collected:** 02/16/2011 12:00 **SPL Sample ID:** 11020727-32

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
DISSOLVED METALS BY ICP/MS					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00165	J	0.00133	0.004	0.01	1	03/03/11 14:12	RJD	3958785
Cadmium	0.000969	J	5.28E-05	0.002	0.005	1	03/03/11 5:49	RJD	3958434
Lead	ND		0.00028	0.001	0.015	1	03/03/11 5:49	RJD	3958434
Manganese	0.0395		0.000217	0.002		1	03/03/11 5:49	RJD	3958434
Nickel	0.00363	B	0.000477	0.002	0.073	1	03/03/11 14:12	RJD	3958785
Thallium	0.000364	J	0.00025	0.002	0.002	1	03/03/11 5:49	RJD	3958434
Zinc	0.0032	J	0.00122	0.006	1.1	1	03/03/11 14:12	RJD	3958785

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/25/2011 8:00	SA	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 16:24	RJD	3948618
Cadmium	**0.0443**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 16:24**	**RJD**	**3948618**
Lead	**0.0241**	**>MCL**	**0.00028**	**0.001**	**0.015**	**1**	**02/26/11 16:44**	**RJD**	**3951859**
Manganese	0.507		0.000217	0.002		1	02/24/11 16:24	RJD	3948618
Nickel	0.0178		0.000477	0.002	0.073	1	02/24/11 16:24	RJD	3948618
Thallium	ND		0.00025	0.002	0.002	1	02/26/11 16:44	RJD	3951859
Zinc	0.0798		0.00122	0.01	1.1	1	02/24/11 16:24	RJD	3948618

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:35 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-03 **Collected:** 02/16/2011 12:20 **SPL Sample ID:** 11020727-33

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 14:01	RJD	3948587
Cadmium	**0.0517**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 14:01**	**RJD**	**3948587**
Lead	**0.0321**	**>MCL**	**0.00028**	**0.001**	**0.015**	**1**	**02/24/11 14:01**	**RJD**	**3948587**
Manganese	0.674		0.000217	0.002		1	02/24/11 14:01	RJD	3948587
Nickel	0.024		0.000477	0.002	0.073	1	02/24/11 14:01	RJD	3948587
Thallium	0.000599	J	0.00025	0.002	0.002	1	02/24/11 14:01	RJD	3948587
Zinc	0.115		0.00122	0.01	1.1	1	02/24/11 14:01	RJD	3948587

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:36 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-2 **Collected:** 02/16/2011 12:48 **SPL Sample ID:** 11020727-34

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL		SW6020 Units: mg/L		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 16:26	RJD	3948620
Cadmium	**0.112**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 16:26**	**RJD**	**3948620**
Lead	0.00382		0.00028	0.001	0.015	1	02/26/11 16:47	RJD	3951860
Manganese	1.11		0.000217	0.002		1	02/24/11 16:26	RJD	3948620
Nickel	0.0612		0.000477	0.002	0.073	1	02/24/11 16:26	RJD	3948620
Thallium	0.000341	J	0.00025	0.002	0.002	1	02/26/11 16:47	RJD	3951860
Zinc	0.27		0.00122	0.01	1.1	1	02/24/11 16:26	RJD	3948620

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:38 AM

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LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DUPLICATE #4 **Collected:** 02/16/2011 12:48 **SPL Sample ID:** 11020727-35

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 16:29	RJD	3948621
Cadmium	**0.108**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 16:29**	**RJD**	**3948621**
Lead	0.00304		0.00028	0.001	0.015	1	02/26/11 16:50	RJD	3951861
Manganese	1.05		0.000217	0.002		1	02/24/11 16:29	RJD	3948621
Nickel	0.0693		0.000477	0.002	0.073	1	02/24/11 16:29	RJD	3948621
Thallium	0.000331	J	0.00025	0.002	0.002	1	02/26/11 16:50	RJD	3951861
Zinc	0.257		0.00122	0.01	1.1	1	02/24/11 16:29	RJD	3948621

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:39 AM

Quality Control Documentation

Version 2.1 - Modified February 11, 2011

3/11/2011 9:04:40 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis: Metals by Method 6010B (ICP), Total **WorkOrder:** 11020727
Method: SW6010B **Lab Batch ID:** 98096

Method Blank

RunID: ICP7300DV_110306D-3962860 Units: mg/L
Analysis Date: 03/06/2011 21:08 Analyst: SVW
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-02A	BA-09
11020727-14A	MW-6

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.02	0.00197

Laboratory Control Sample (LCS)

RunID: ICP7300DV_110306D-3962 Units: mg/L
Analysis Date: 03/06/2011 21:10 Analyst: SVW
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.1135	113.5		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-11
RunID: ICP7300DV_110306D-3962 Units: mg/L
Analysis Date: 03/06/2011 21:16 Analyst: SVW
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	0.01277	J	0.1	0.1096	96.80		0.1	0.1199	107.1		9.001		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:49 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis: Metals by Method 6020 (ICP/MS), Total **WorkOrder:** 11020727
Method: SW6020 **Lab Batch ID:** 98096-I

Method Blank

RunID: ICPMS_110224A-3947715 Units: mg/L
Analysis Date: 02/24/2011 9:58 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.004	0.00133
Cadmium	ND		0.002	0.0000528
Lead	0.000764	J	0.001	0.00028
Manganese	0.000649	J	0.002	0.000217
Nickel	ND		0.002	0.000477
Thallium	0.000411	J	0.002	0.00025
Zinc	0.0025	J	0.01	0.00122

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-01A	BA-09A
11020727-02A	BA-09
11020727-03A	MW-4
11020727-04A	WW-09
11020727-05A	WW-04
11020727-06A	(b) (6) WELL
11020727-07A	BC-03
11020727-08A	BC-07
11020727-09A	DW-04
11020727-10A	DUPLICATE #1
11020727-11A	BC-19
11020727-12A	BC-25
11020727-13A	MW-3
11020727-14A	MW-6
11020727-15A	BB-01
11020727-16A	SOUTH WELL
11020727-17A	BC-17
11020727-18A	NORTH WELL
11020727-19A	BC-21R
11020727-20A	BA-01A

Laboratory Control Sample (LCS)

RunID: ICPMS_110224A-3947716 Units: mg/L
Analysis Date: 02/24/2011 10:01 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.09666	96.66		80	120
Cadmium	0.1000	0.09881	98.81		80	120
Lead	0.1000	0.1055	105.5		80	120
Manganese	0.1000	0.1059	105.9		80	120
Nickel	0.1000	0.1038	103.8		80	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:50 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis: Metals by Method 6020 (ICP/MS), Total **WorkOrder:** 11020727
Method: SW6020 **Lab Batch ID:** 98096-I

Laboratory Control Sample (LCS)

RunID: ICPMS_110224A-3947716 Units: mg/L
Analysis Date: 02/24/2011 10:01 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Thallium	0.1000	0.1051	105.1		80	120
Zinc	0.1000	0.09926	99.26		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-11
RunID: ICPMS_110224A-3947719 Units: mg/L
Analysis Date: 02/24/2011 10:44 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.08680	86.80		0.1	0.08618	86.18		0.7139		20	75	125
Cadmium	ND		0.1	0.08894	88.94		0.1	0.09131	91.31		2.636		20	75	125
Lead	0.0008500	JB	0.1	0.09113	90.28		0.1	0.09456	93.71		3.686		20	75	125
Manganese	0.002722	B	0.1	0.09341	90.69		0.1	0.1022	99.47		8.980		20	75	125
Nickel	0.001786	J	0.1	0.09175	89.96		0.1	0.09643	94.64		4.973		20	75	125
Thallium	0.0004739	JB	0.1	0.09276	92.28		0.1	0.09545	94.98		2.866		20	75	125
Zinc	0.003653	JB	0.1	0.08593	82.28		0.1	0.09368	90.03		8.634		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:50 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis: Metals by Method 6010B (ICP), Total
Method: SW6010B
WorkOrder: 11020727
Lab Batch ID: 98097

Method Blank

RunID: ICP7300DV_110306D-3962875 Units: mg/L
Analysis Date: 03/06/2011 21:45 Analyst: SVW
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-22A	BA-01
11020727-23A	DW-3
11020727-28A	BA-05

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	0.00271	J	0.02	0.00197

Laboratory Control Sample (LCS)

RunID: ICP7300DV_110306D-3962 Units: mg/L
Analysis Date: 03/06/2011 21:47 Analyst: SVW
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.1144	114.4		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-33
RunID: ICP7300DV_110306D-3962 Units: mg/L
Analysis Date: 03/06/2011 21:52 Analyst: SVW
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.1173	117.3		0.1	0.1263	126.3	*	7.376		20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:51 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis: Metals by Method 6020 (ICP/MS), Total **WorkOrder:** 11020727
Method: SW6020 **Lab Batch ID:** 98097-I

Method Blank

RunID: ICPMS_110224B-3948585 Units: mg/L
Analysis Date: 02/24/2011 13:55 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.004	0.00133
Cadmium	ND		0.002	0.0000528
Lead	0.000754	J	0.001	0.00028
Manganese	0.000754	J	0.002	0.000217
Nickel	ND		0.002	0.000477
Thallium	0.000412	J	0.002	0.00025
Zinc	0.00166	J	0.01	0.00122

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-21A	DUPLICATE #2
11020727-22A	BA-01
11020727-23A	DW-3
11020727-24A	PW-4
11020727-25A	DW-2
11020727-26A	DUPLICATE #3
11020727-27A	BA-05A
11020727-28A	BA-05
11020727-29A	MW-A
11020727-30A	DW-1
11020727-31A	MW-1
11020727-32A	BA-03A
11020727-33A	BA-03
11020727-34A	MW-2
11020727-35A	DUPLICATE #4

Laboratory Control Sample (LCS)

RunID: ICPMS_110224B-3948586 Units: mg/L
Analysis Date: 02/24/2011 13:58 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.09563	95.63		80	120
Cadmium	0.1000	0.09639	96.39		80	120
Lead	0.1000	0.1113	111.3		80	120
Manganese	0.1000	0.1090	109.0		80	120
Nickel	0.1000	0.1072	107.2		80	120
Thallium	0.1000	0.1107	110.7		80	120
Zinc	0.1000	0.1015	101.5		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:52 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis: Metals by Method 6020 (ICP/MS), Total **WorkOrder:** 11020727
Method: SW6020 **Lab Batch ID:** 98097-I

Sample Spiked: 11020727-33
RunID: ICPMS_110224B-3948589 Units: mg/L
Analysis Date: 02/24/2011 14:13 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.07375	73.75	*	0.1	0.08971	89.71		19.53		20	75	125
Cadmium	0.05171	>MCL	0.1	0.1514	99.71		0.1	0.09545	43.74	*	45.34	*	20	75	125
Lead	0.032123	>MCL	0.1	0.1410	108.9		0.1	0.1102	78.09		24.54	*	20	75	125
Manganese	0.6742	B	0.1	0.9102	N/C		0.1	0.1610	N/C		N/C		20	75	125
Nickel	0.02403		0.1	0.1206	96.55		0.1	0.09893	74.90	*	19.73		20	75	125
Thallium	0.0005994	JB	0.1	0.1035	102.9		0.1	0.1039	103.3		0.3483		20	75	125
Zinc	0.1153	B	0.1	0.2249	109.7		0.1	0.09857	-16.70	*	78.12	*	20	75	125

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 11020727-33
RunID: ICPMS_110224B-3948591 Units: mg/L
Analysis Date: 02/24/2011 14:18 Analyst: RJD

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	ND	0.5	0.4538	90.75	0.5	0.4661	93.22	2.681	20	75	125
Cadmium	0.0517	0.5	0.5241	94.48	0.5	0.5241	94.48	0.00001908	20	75	125
Nickel	0.024	0.5	0.5174	98.67	0.5	0.5131	97.81	0.8398	20	75	125
Zinc	0.115	0.5	0.6145	99.85	0.5	0.6053	98.01	1.502	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:53 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis: Dissolved Metals by ICP
Method: SW6010B
WorkOrder: 11020727
Lab Batch ID: 98257

Method Blank

RunID: ICP7300DV_110306D-3962892 Units: mg/L
Analysis Date: 03/06/2011 22:27 Analyst: SVW
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-22B	BA-01

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	0.00232	J	0.02	0.00197

Laboratory Control Sample (LCS)

RunID: ICP7300DV_110306D-3962 Units: mg/L
Analysis Date: 03/06/2011 22:30 Analyst: SVW
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.1004	100.4		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-03
RunID: ICP7300DV_110306D-3962 Units: mg/L
Analysis Date: 03/06/2011 22:35 Analyst: SVW
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.1066	106.6		0.1	0.09671	96.71		9.762		20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:53 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis: Dissolved Metals by ICP/MS
Method: SW6020
WorkOrder: 11020727
Lab Batch ID: 98257-I

Method Blank

RunID: ICPMS_110303E-3958773 Units: mg/L
Analysis Date: 03/03/2011 13:37 Analyst: RJD
Preparation Date: 02/25/2011 8.00 Prep By: SA Method: SW3005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-03B	MW-4
11020727-22B	BA-01
11020727-32B	BA-03A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.004	0.00133
Nickel	0.002	J	0.002	0.000477
Zinc	0.00136	J	0.006	0.00122

Laboratory Control Sample (LCS)

RunID: ICPMS_110303E-3958774 Units: mg/L
Analysis Date: 03/03/2011 13:40 Analyst: RJD
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.09896	98.96		80	120
Nickel	0.1000	0.09972	99.72		80	120
Zinc	0.1000	0.09756	97.56		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-03
RunID: ICPMS_110303E-3958777 Units: mg/L
Analysis Date: 03/03/2011 13:49 Analyst: RJD
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.09812	98.12		0.1	0.09735	97.35		0.7820		20	75	125
Nickel	0.001476	JB	0.1	0.09617	94.69		0.1	0.09586	94.38		0.3193		20	75	125
Zinc	0.002042	JB	0.1	0.09722	95.18		0.1	0.09632	94.28		0.9301		20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:54 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis:	**Dissolved Metals by ICP/MS**	**WorkOrder:**	**11020727**
Method:	**SW6020**	**Lab Batch ID:**	**98257-I**

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:54 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis: Dissolved Metals by ICP/MS
Method: SW6020
WorkOrder: 11020727
Lab Batch ID: 98257-I

Method Blank

RunID: ICPMS_110303C-3958423 Units: mg/L
Analysis Date: 03/03/2011 5:19 Analyst: RJD
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-03B	MW-4
11020727-22B	BA-01
11020727-32B	BA-03A

Analyte	Result	Qual	Rep Limit	MDL
Cadmium	0.000962	J	0.002	0.0000528
Lead	ND		0.001	0.00028
Manganese	ND		0.002	0.000217
Thallium	0.000354	J	0.002	0.00025

Laboratory Control Sample (LCS)

RunID: ICPMS_110303C-3958424 Units: mg/L
Analysis Date: 03/03/2011 5:22 Analyst: RJD
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Cadmium	0.1000	0.09135	91.35		80	120
Lead	0.1000	0.1029	102.9		80	120
Manganese	0.1000	0.09068	90.68		80	120
Thallium	0.1000	0.1009	100.9		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-03
RunID: ICPMS_110303C-3958427 Units: mg/L
Analysis Date: 03/03/2011 5:30 Analyst: RJD
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Cadmium	0.0009786	JB	0.1	0.09079	89.82		0.1	0.08941	88.43		1.532		20	75	125
Lead	ND		0.1	0.1007	100.7		0.1	0.1032	103.2		2.420		20	75	125
Manganese	0.0002350	J	0.1	0.09162	91.38		0.1	0.09447	94.24		3.065		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:55 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis: Dissolved Metals by ICP/MS **WorkOrder:** 11020727
Method: SW6020 **Lab Batch ID:** 98257-I

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-03
RunID: ICPMS_110303C-3958427 Units: mg/L
Analysis Date: 03/03/2011 5:30 Analyst: RJD
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Thallium	0.0005920	JB	0.1	0.09894	98.35		0.1	0.09923	98.64		0.2954		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:55 AM

Sample Receipt Checklist

And

Chain of Custody

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	11020727	Received By:	SRS
Date and Time Received:	2/18/2011 5:10:00 PM	Carrier name:	SPL-Driver-Other
Temperature:	3°C	Chilled by:	Water Ice

1.	Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2.	Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3.	Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4.	Chain of custody present?	Yes ☑	No ☐	
5.	Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
6.	Chain of custody agrees with sample labels?	Yes ☑	No ☐	
7.	Samples in proper container/bottle?	Yes ☑	No ☐	
8.	Sample containers intact?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test?	Yes ☑	No ☐	
10.	All samples received within holding time?	Yes ☑	No ☐	
11.	Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
12.	Water - VOA vials have zero headspace?	Yes ☐	No ☐	VOA Vials Not Present ☑
13.	Water - Preservation checked upon receipt (except VOA*)?	Yes ☑	No ☐	Not Applicable ☐

*VOA Preservation Checked After Sample Analysis

SPL Representative: _____ Contact Date & Time: _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 322954

1102 0727 page 1 of 4

Client Name: SEMS INC
Address: 11624 S CHOCTAW DR
City BR State LA Zip 70815
Phone/Fax: 225 924 7202 / 924 7004
Client Contact: THOMAS Email:
Project Name/No.: DELATTE METALS / N2270016
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SEMS INC Ph:

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Requested Analysis: Total Metals 6010B	Requested Analysis: Dissolved Metals 6010B							
BA-09A	2/14/11	919		X	W	P	16	2	1	X								1
BA-09		1001							1	X								1
MW-4		1044							2	X	X							2
WW-09		1105							1	X								1
WW-04		1135							1	X								1
(b) (6) WELL		1140							1	X								1
BC-03		1214							1	X								1
BC-07		1248							1	X								1
DW-04		1309							1	X								1
DUPLICATE #1		1309							1	X								1

Client/Consultant Remarks: DISSOLVED METALS FIELD FILTERED

Laboratory remarks: NOCS SPLDel pH<2 BW

Intact? Y N
Ice? Y N
Temp: 1.52 3.0

Requested TAT
- ☐ 1 Business Day ☐ Contract
- ☐ 2 Business Days ☒ Standard
- ☐ 3 Business Days
- ☐ Other _____

Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler:	2/17/11	1400	2. Received by:
3. Relinquished by:	2/18/11	1445	4. Received by:
5. Relinquished by:	2-18-11	1710	6. Received by Laboratory:

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 322955

page 2 of 4

Client Name: SEMS INC
Address: 11628 S CHOCTAW DR
City BR State LA Zip [illegible]
Phone/Fax: 225 924 7002 / 924 2014
Client Contact: JHOPPES Email:
Project Name/No.: DELTA METALS / N237026
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SEMS INC Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: Total Metals 6010B	Requested Analysis: Dissolved Metals 6010B							
BC-19	2/14/11	1328		X	W	P	16	2	1	X								1
BC-19 MS		1328							1	X								1
BC-19 MSD		1328							1	X								1
BC-25		1351							1	X								1
MW-3		1413							1	X								1
MW-6		1453							1	X								1
BB-01	2/15/11	851							1	X								1
SOUTH WELL		904							1	X								1
BC-17		921							1	X								1
NORTH WELL		933							1	X								1

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: T1 5.2 3.0

Requested TAT

- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other
- Rush TAT requires prior notice

Special Reporting Requirements Results: Fax Email PDF
Standard QC Level 3 QC Level 4 QC TX TRRP LA RECAP

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler:	date 2/17/11	time 1400	2. Received by:
3. Relinquished by:	date 2/18/11	time 1445	4. Received by:
5. Relinquished by:	date 2-18-11	time 1710	6. Received by Laboratory:

8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 322956

page 3 of 4

Client Name: SEMS INC
Address: 11628 S CHOCTAW DR
City BR State LA Zip 70815
Phone/Fax: 225 924 2002 / 924 2014
Client Contact: H JOPPES Email:
Project Name/No.: DELATTE METALS N2070016
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SEMS INC Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other	bottle: P=plastic A=amber glass G=glass V=vial X=other	size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other	pres.: 1=HCl 2=HNO3 3=H2SO4 X=other	Number of Containers	Requested Analysis: Total metals 6010B	Dissolved metals 6010B							
BC-21R	2/15/11	958		X	W	P	16	2	1	X								1
BA-01A	↓	1019		↓	↓	↓	↓	↓	1	X								1
DUPLICATE #2	↓	1019		↓	↓	↓	↓	↓	1	X								1
BA-01	↓	1121		↓	↓	↓	↓	↓	2	X	X							2
DW-3	↓	1304		↓	↓	↓	↓	↓	1	X								1
PW-4	↓	1325		↓	↓	↓	↓	↓	1	X								1
DW-2	↓	1353		↓	↓	↓	↓	↓	1	X								1
DUPLICATE #3	↓	1353		↓	↓	↓	↓	↓	1	X								1
BA-05A	2/16/11	903		↓	↓	↓	↓	↓	1	X								1
BA-05	2/16/11	937		↓	↓	↓	↓	↓	1	X								1

Client/Consultant Remarks: DISSOLVED METALS FIELD FILTERED

Laboratory remarks:

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: T152 310

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other _____
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: [signature]	2/17/11	1400	2. Received by: [signature]
3. Relinquished by: [signature]	2/18/11	1445	4. Received by: Robert Trichter
5. Relinquished by: Robert Trichter	2-18-11	1710	6. Received by Laboratory: Renee Sum

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 322887

page 4 of 4

Client Name: SEMS INC
Address: 11628 S CHOCTAW DR
City BR State LA Zip 70815
Phone/Fax: 225 924 2002 / 924 2004
Client Contact: THOPPES Email:
Project Name/No.: DELATTE METALS / N2070016
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SEMS INC Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other	bottle: P=plastic A=amber glass G=glass V=vial X=other	size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other	pres.: 1=HCl 2=HNO3 3=H2SO4 X=other	Number of Containers	Requested Analysis: Total metals 6010B	Dissolved metals 6010B							
MW-A	2/16/11	1001		X	W	P	16	2	1	X								1
DW-1		1042							1	X								1
MW-1		1119							1	X								1
BA-03A		1200							2	X	X							2
BA-03		1220							1	X								1
BA-03 MS		1220							1	X								1
BA-03 MSD		1220							1	X								1
MW-2		1248							1	X								1
DUPLICATE #4		1248							1	X								1
																		1

Client/Consultant Remarks: DISSOLVED METALS FIELD FILTERED

Laboratory remarks:

Intact? ☒ Y ☐ N
Ice? ☒ Y ☐ N
Temp: TB 23.0

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: [signature]	2/17/11	1400	2. Received by: [signature]
3. Relinquished by: [signature]	2/18/11	1445	4. Received by: Robert Cuiller
5. Relinquished by: Robert Cuiller	2-18-11	1710	6. Received by Laboratory: Renee Sam

☐ 8880 Interchange Drive
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☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

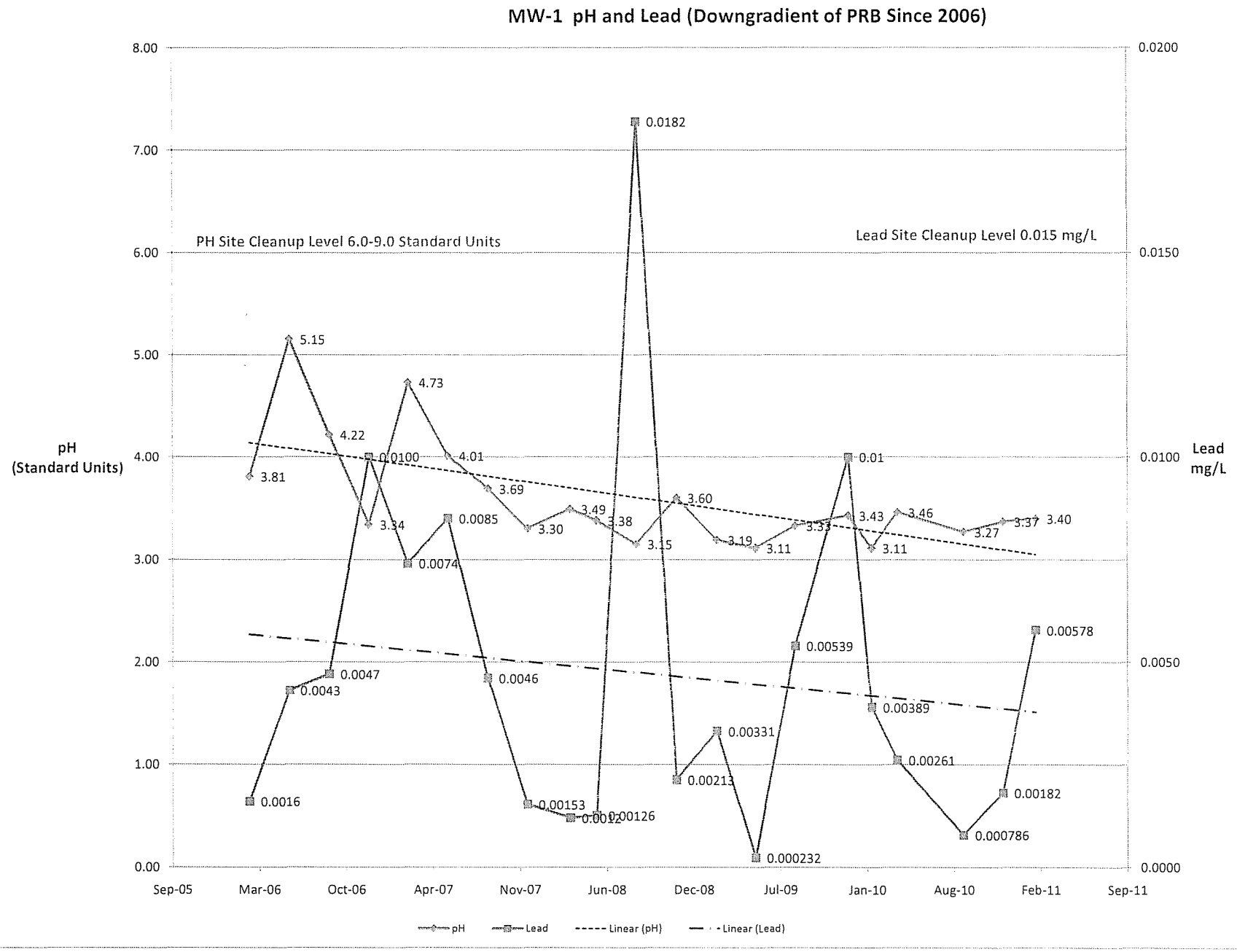
☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

ATTACHMENT C

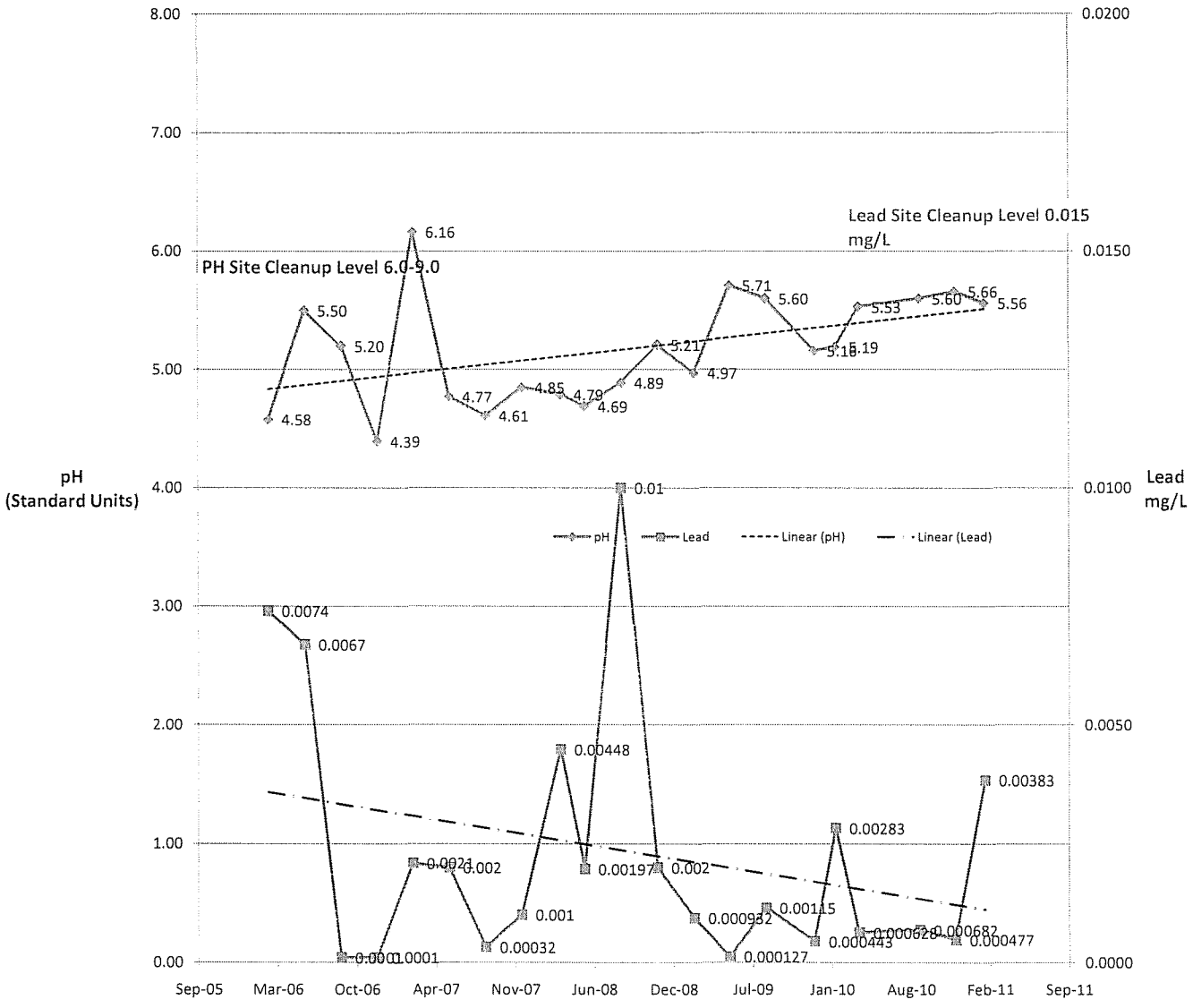
HISTORICAL CONCENTRATION
VS.
TIME GRAPHS

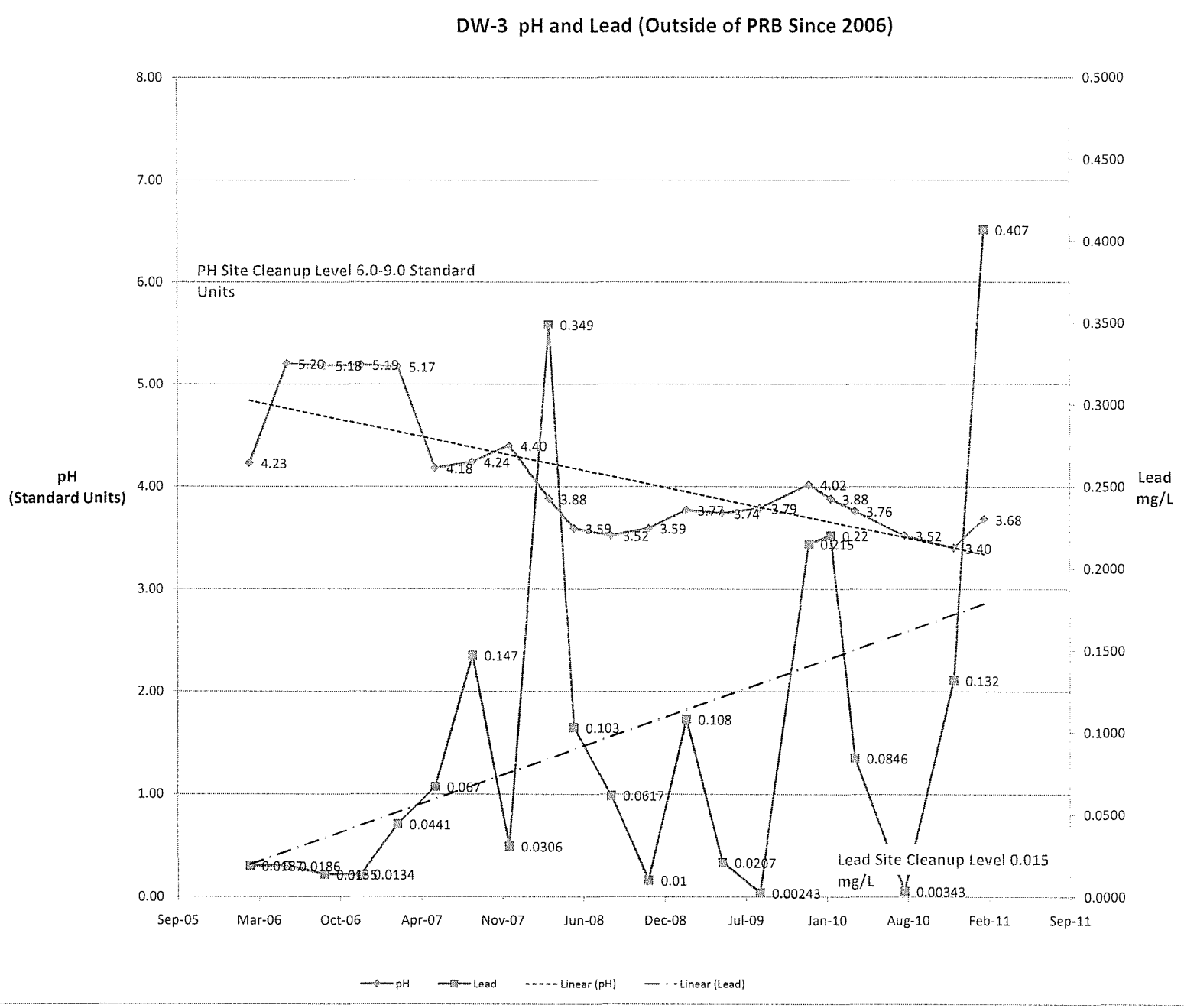
FIRST WATER BEARING ZONE

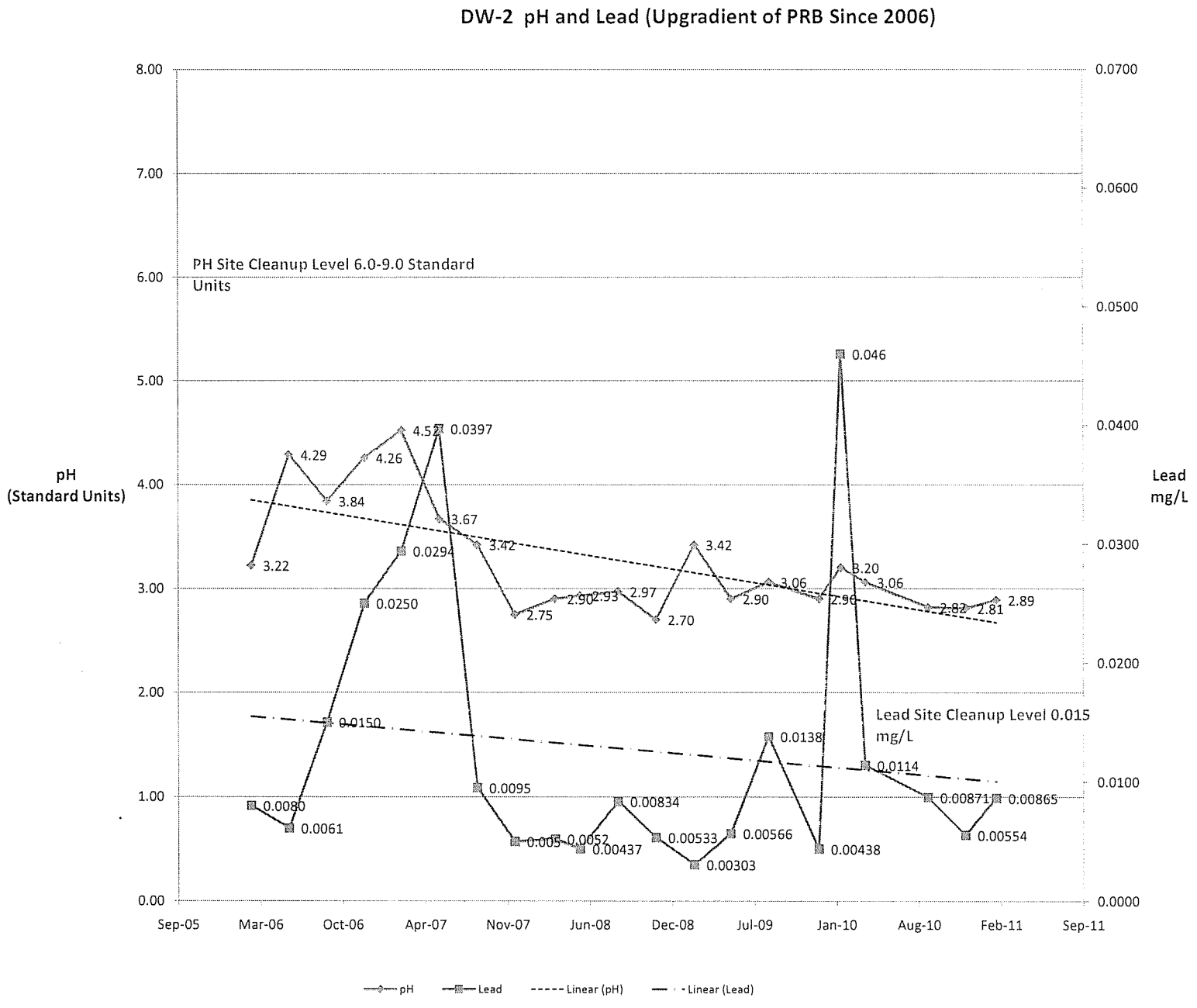
(SINCE 2006)

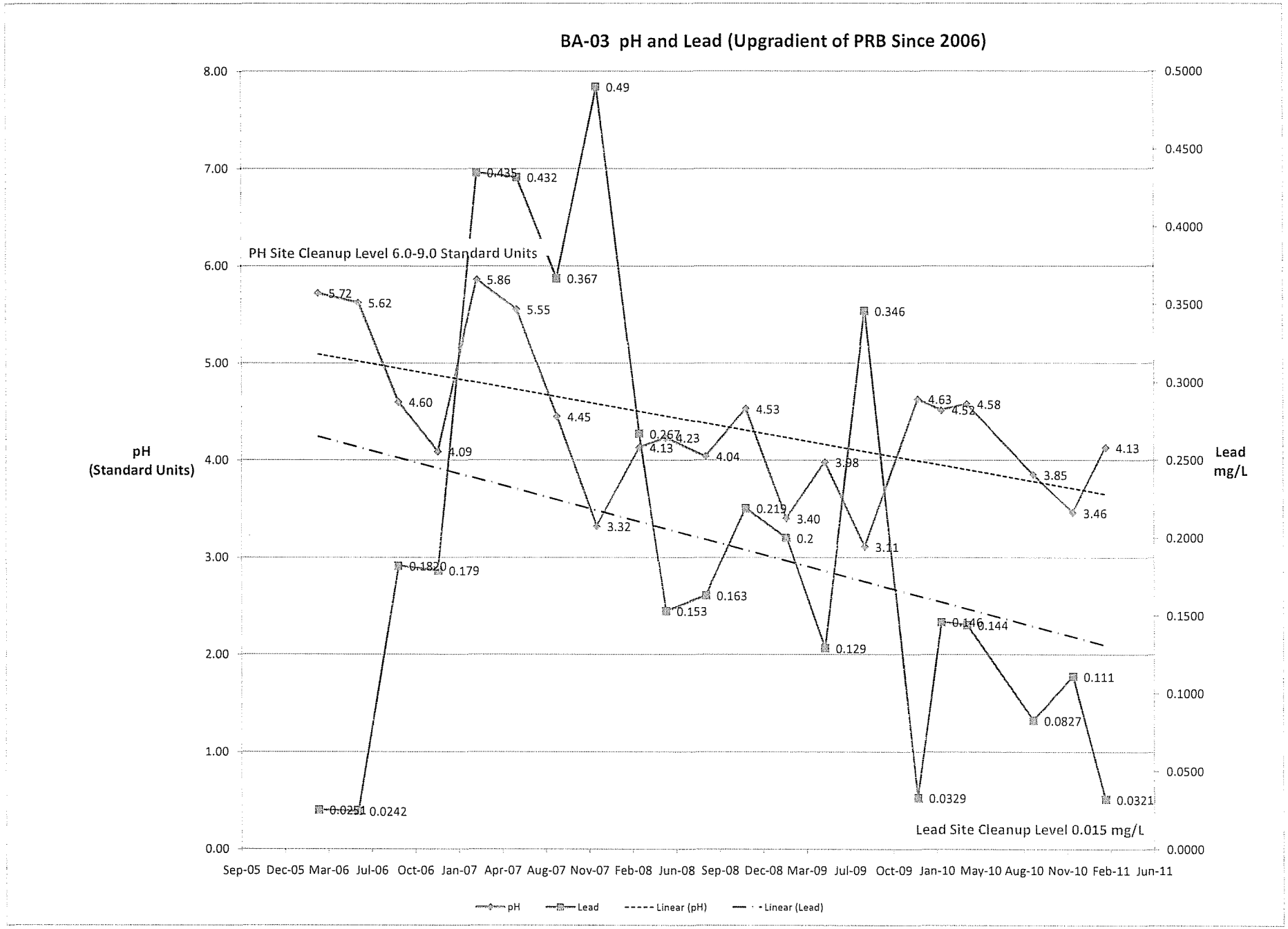

MW-1 pH and Lead (Downgradient of PRB Since 2006)
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
pH (Standard Units)
Lead mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.0200
0.0150
0.0100
0.0050
0.0000
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
3.81
5.15
4.22
3.34
4.73
2.95
4.01
3.69
3.30
3.49
3.38
3.15
3.60
3.19
3.11
3.33
3.43
3.11
3.46
3.27
3.37
3.40
0.0016
0.0043
0.0047
0.0100
0.0074
0.0085
0.0046
0.00153
0.0012
0.00126
0.0182
0.00213
0.00331
0.000232
0.00539
0.01
0.00389
0.00261
0.000786
0.00182
0.00578
pH
Lead
Linear (pH)
Linear (Lead)

DW-1 pH and Lead (Downgradient of PRB Since 2006)



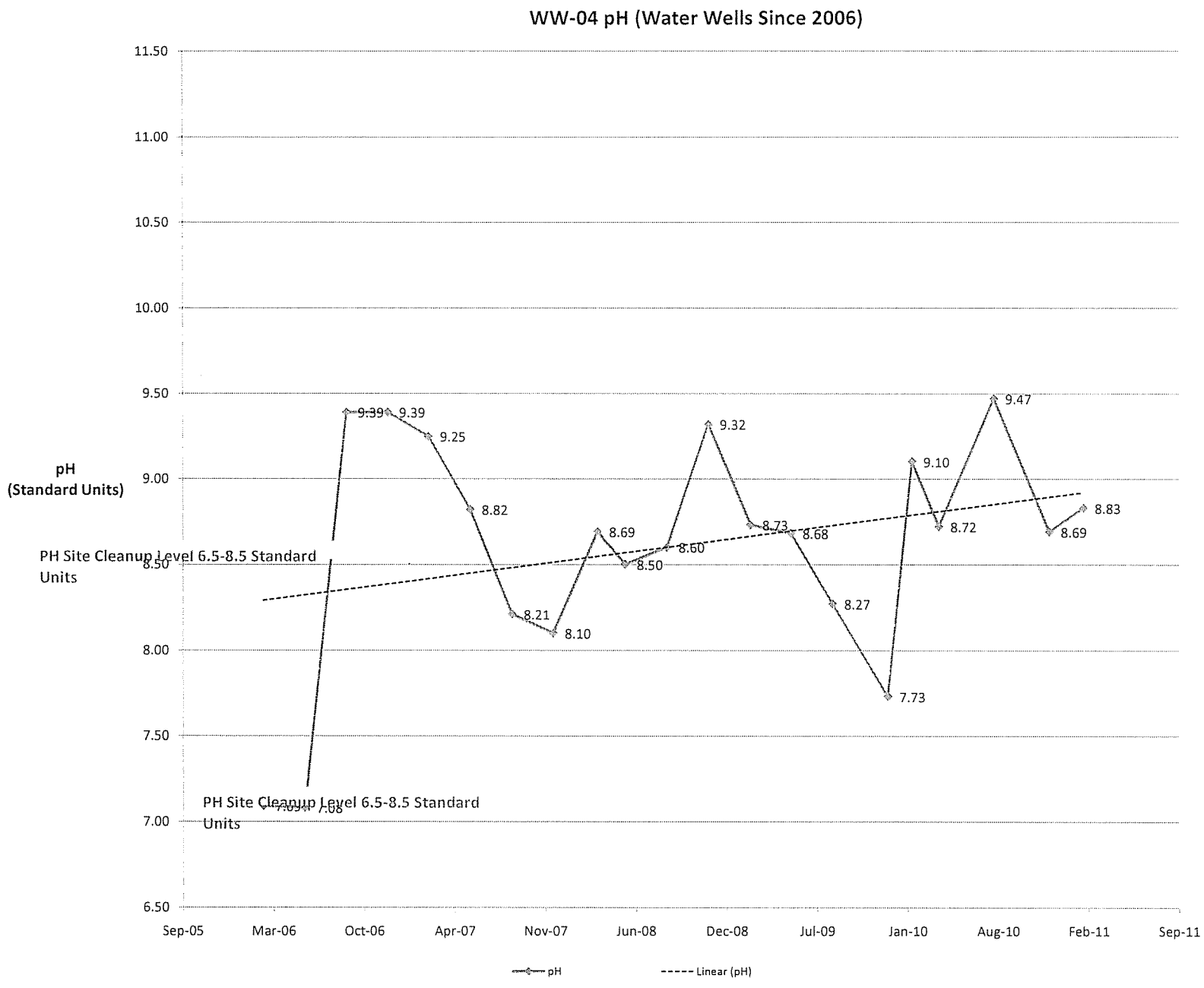

DW-3 pH and Lead (Outside of PRB Since 2006)
pH (Standard Units)
Lead mg/L
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.5000
0.4500
0.4000
0.3500
0.3000
0.2500
0.2000
0.1500
0.1000
0.0500
0.0000
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
4.23
5.20
5.18
5.19
5.17
4.18
4.24
4.40
3.88
3.59
3.52
3.59
3.77
3.74
3.79
4.02
3.88
3.76
3.52
3.40
3.68
0.0187
0.0186
0.0135
0.0134
0.0441
0.067
0.147
0.0306
0.349
0.103
0.0617
0.01
0.108
0.0207
0.00243
0.215
0.22
0.0846
0.00343
0.132
0.407
pH
Lead
Linear (pH)
Linear (Lead)

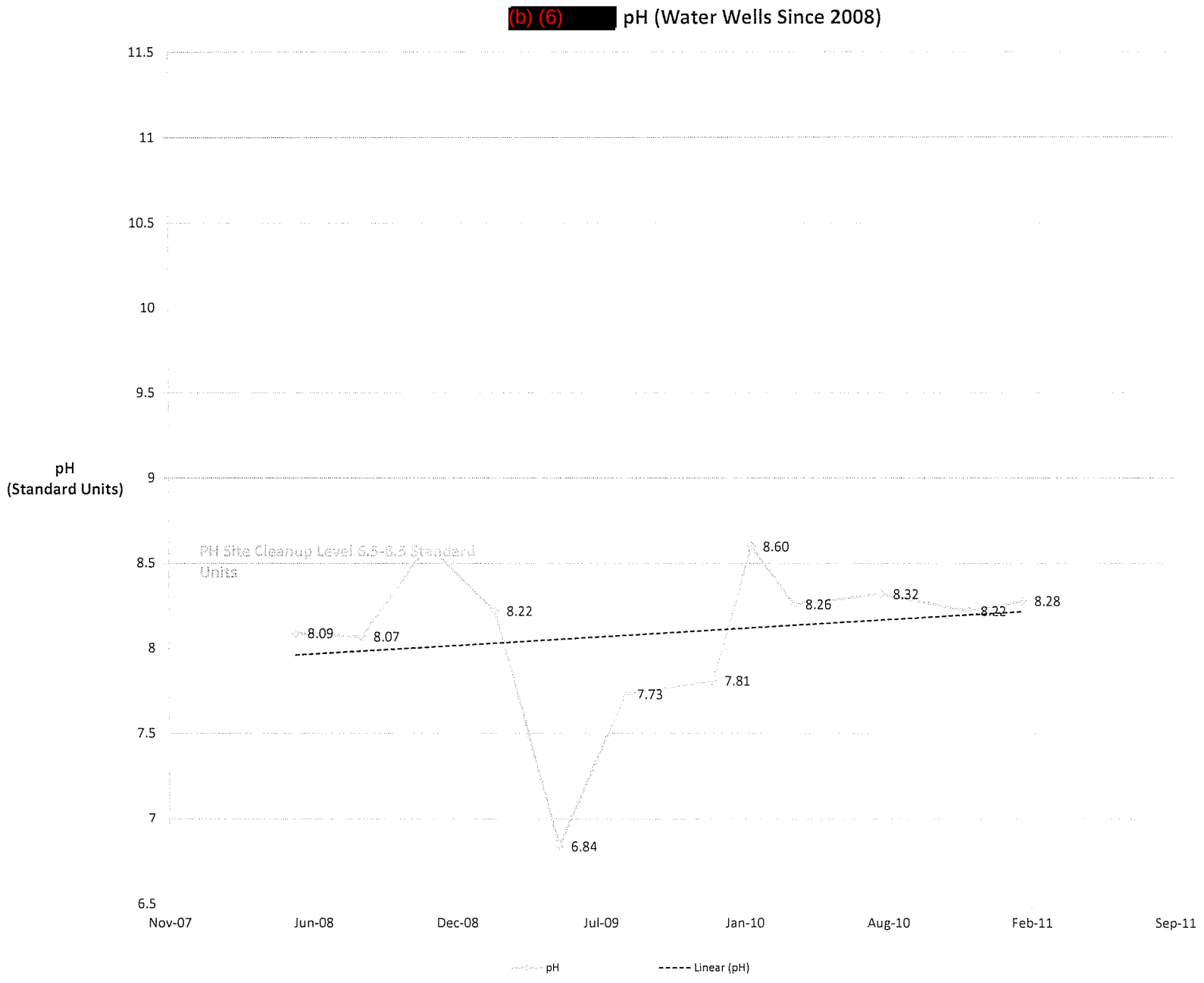

DW-2 pH and Lead (Upgradient of PRB Since 2006)
pH (Standard Units)
Lead mg/L
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.0700
0.0600
0.0500
0.0400
0.0300
0.0200
0.0100
0.0000
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
3.22
4.29
3.84
4.26
4.52
3.67
3.42
2.75
2.90
2.93
2.97
2.70
2.90
3.42
3.06
2.96
3.20
3.06
2.82
2.81
2.89
0.0080
0.0061
0.0150
0.0250
0.0294
0.0397
0.0095
0.005
0.0052
0.00437
0.00834
0.00533
0.00303
0.00566
0.0138
0.00438
0.046
0.0114
0.00871
0.00865
0.00554
pH
Lead
Linear (pH)
Linear (Lead)

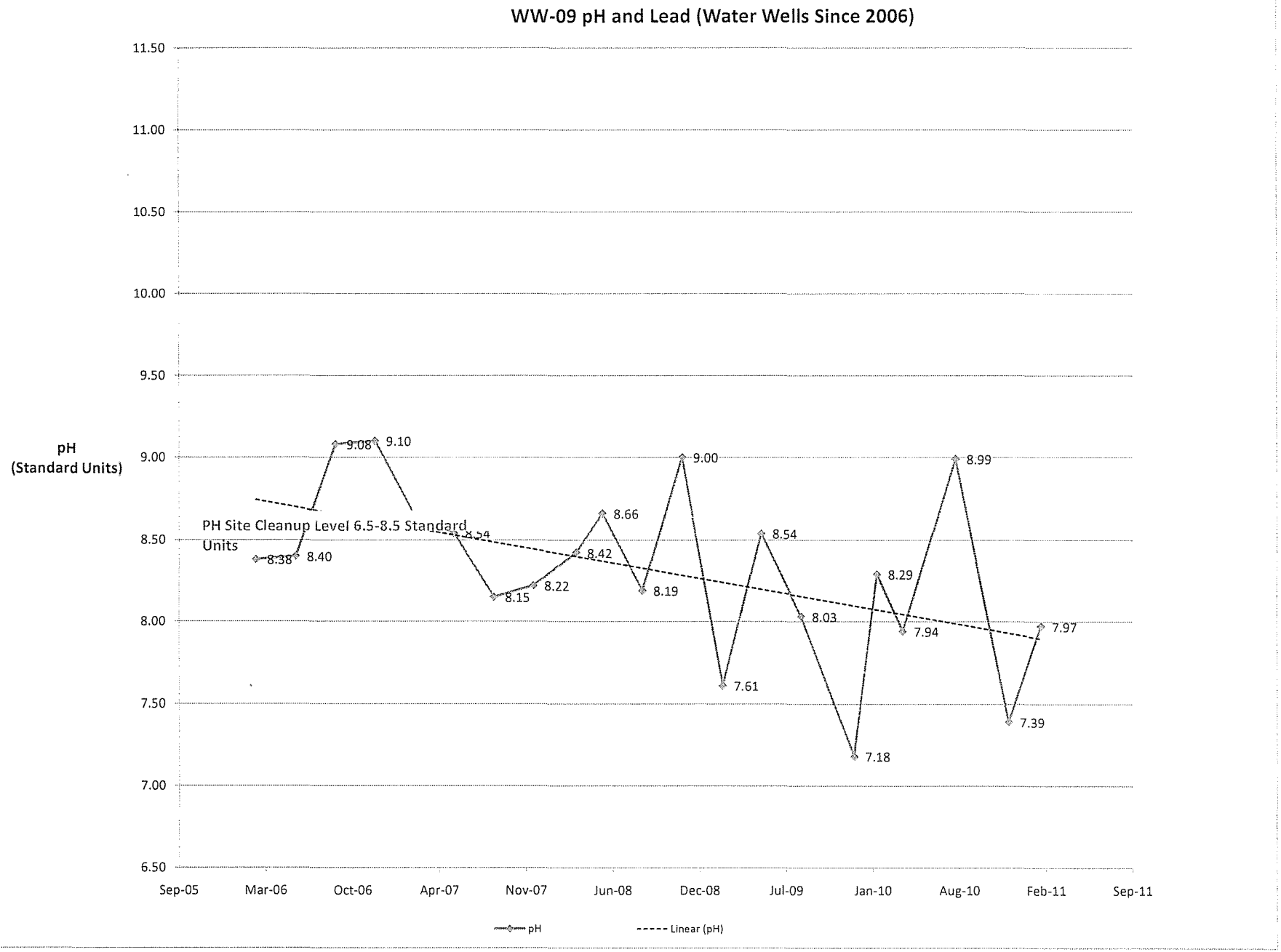

BA-03 pH and Lead (Upgradient of PRB Since 2006)
pH (Standard Units)
Lead mg/L
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.5000
0.4500
0.4000
0.3500
0.3000
0.2500
0.2000
0.1500
0.1000
0.0500
0.0000
Sep-05 Dec-05 Mar-06 Jul-06 Oct-06 Jan-07 Apr-07 Aug-07 Nov-07 Feb-08 Jun-08 Sep-08 Dec-08 Mar-09 Jul-09 Oct-09 Jan-10 May-10 Aug-10 Nov-10 Feb-11 Jun-11
5.72
5.62
4.60
4.09
5.86
5.55
4.45
3.32
4.13
4.23
4.04
4.53
3.40
3.98
3.11
4.63
4.52
4.58
3.85
3.46
4.13
0.0251
0.0242
0.1820
0.179
0.435
0.432
0.367
0.49
0.267
0.153
0.163
0.219
0.2
0.129
0.346
0.0329
0.146
0.144
0.0827
0.111
0.0321
pH
Lead
Linear (pH)
Linear (Lead)

WATER WELLS

(SINCE 2006)

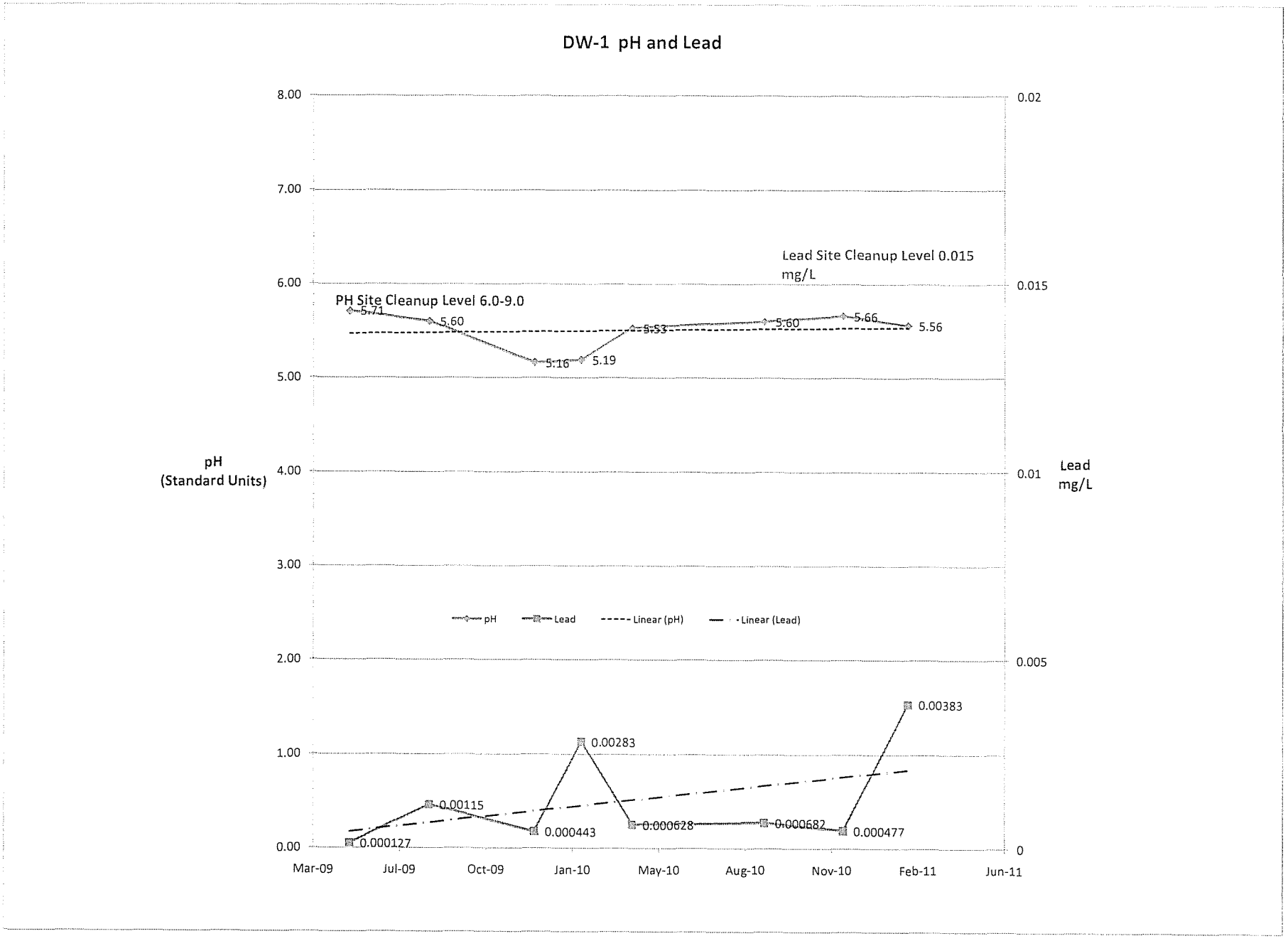

WW-04 pH (Water Wells Since 2006)
11.50
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
pH
(Standard Units)
PH Site Cleanup Level 6.5-8.5 Standard Units
PH Site Cleanup Level 6.5-8.5 Standard Units
9.39
9.39
9.25
8.82
8.21
8.10
8.69
8.50
8.60
9.32
8.73
8.68
8.27
7.73
9.10
8.72
9.47
8.69
8.83
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
pH
Linear (pH)


(b) (6) pH (Water Wells Since 2008)
pH (Standard Units)
11.5
11
10.5
10
9.5
9
8.5
8
7.5
7
6.5
PH Site Cleanup Level 6.5-8.5 Standard Units
8.09
8.07
8.22
6.84
7.73
7.81
8.60
8.26
8.32
8.22
8.28
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
pH
Linear (pH)

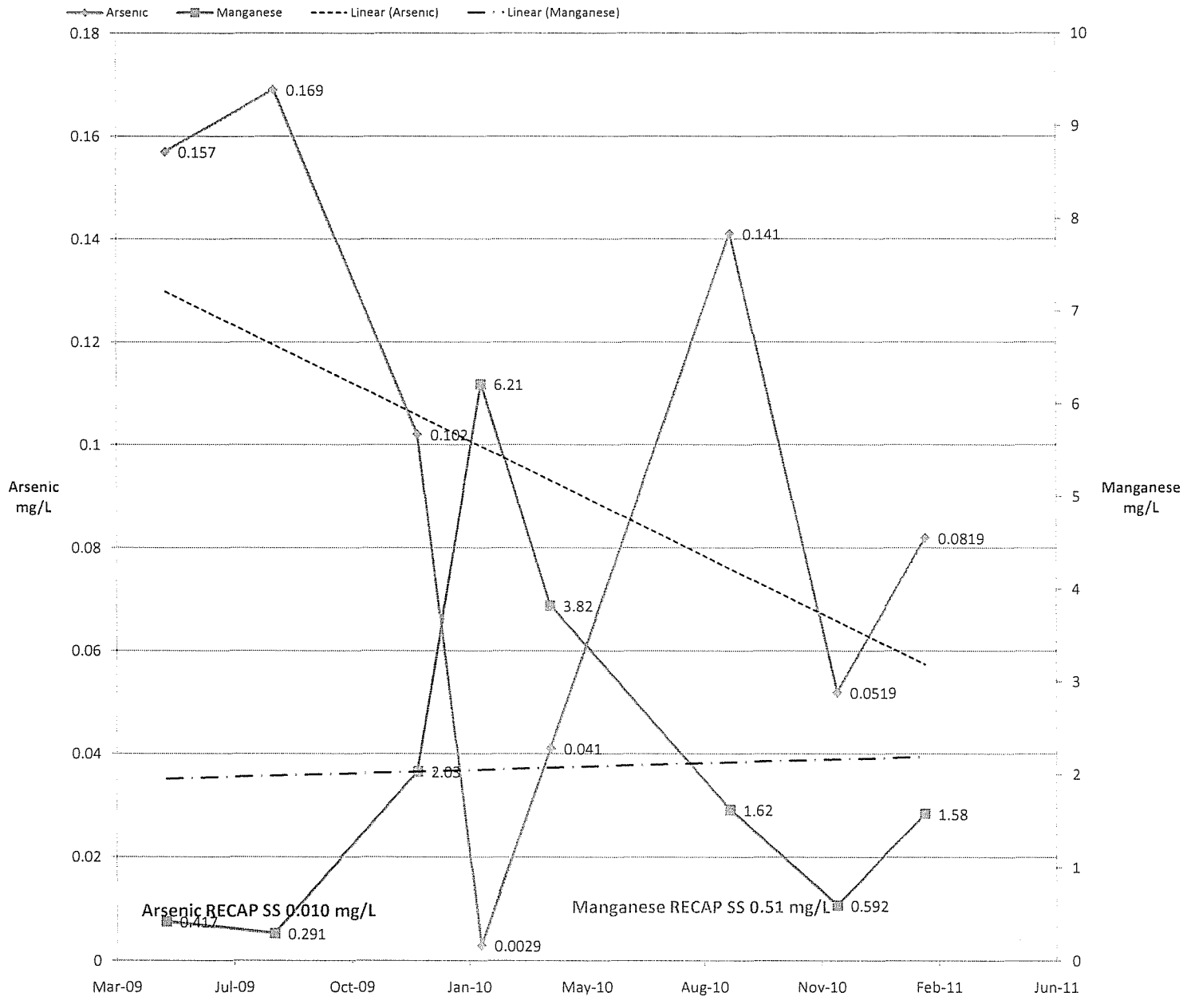

WW-09 pH and Lead (Water Wells Since 2006)
pH
(Standard Units)
11.50
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
PH Site Cleanup Level 6.5-8.5 Standard Units
8.38
8.40
9.08
9.10
8.54
8.15
8.22
8.42
8.66
8.19
9.00
7.61
8.54
8.03
7.18
8.29
7.94
8.99
7.39
7.97
pH
Linear (pH)

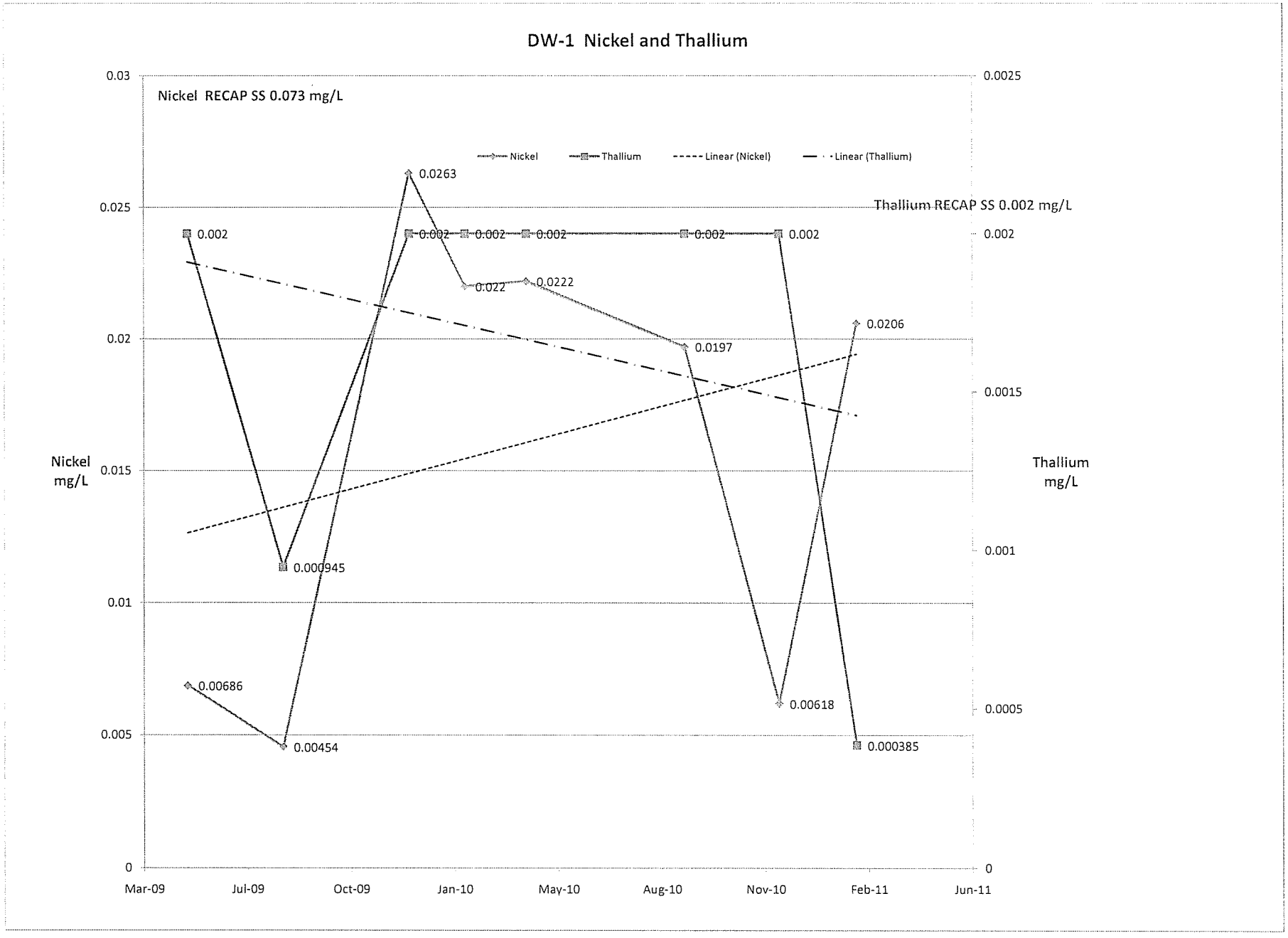
FIRST WATER BEARING ZONE

(PAST EIGHT QUARTERS)

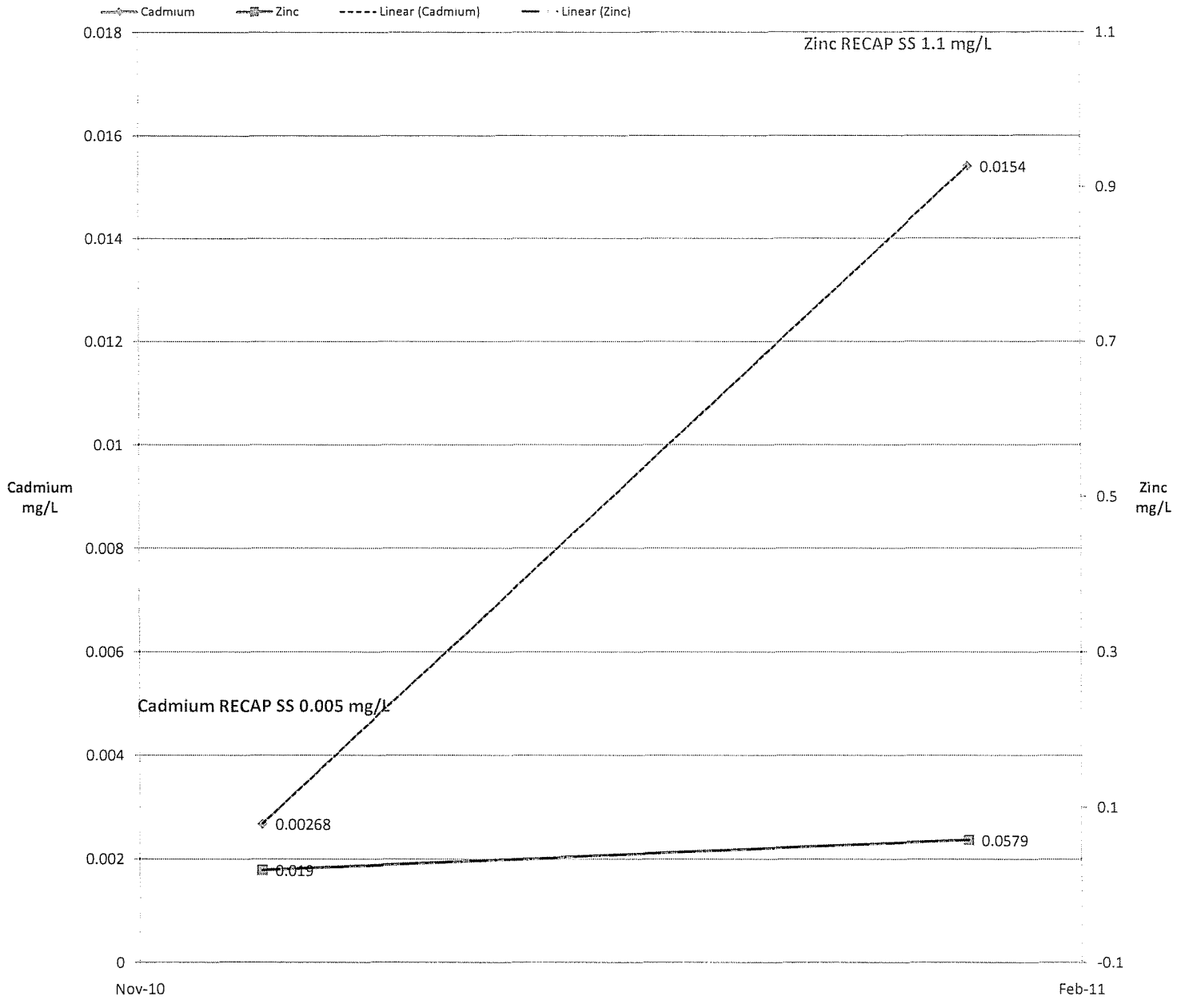

DW-1 pH and Lead
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.02
0.015
0.01
0.005
0
pH (Standard Units)
Lead mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.0-9.0
5.71
5.60
5.16
5.19
5.53
5.60
5.66
5.56
0.000127
0.00115
0.000443
0.00283
0.000628
0.000682
0.000477
0.00383
pH
Lead
Linear (pH)
Linear (Lead)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

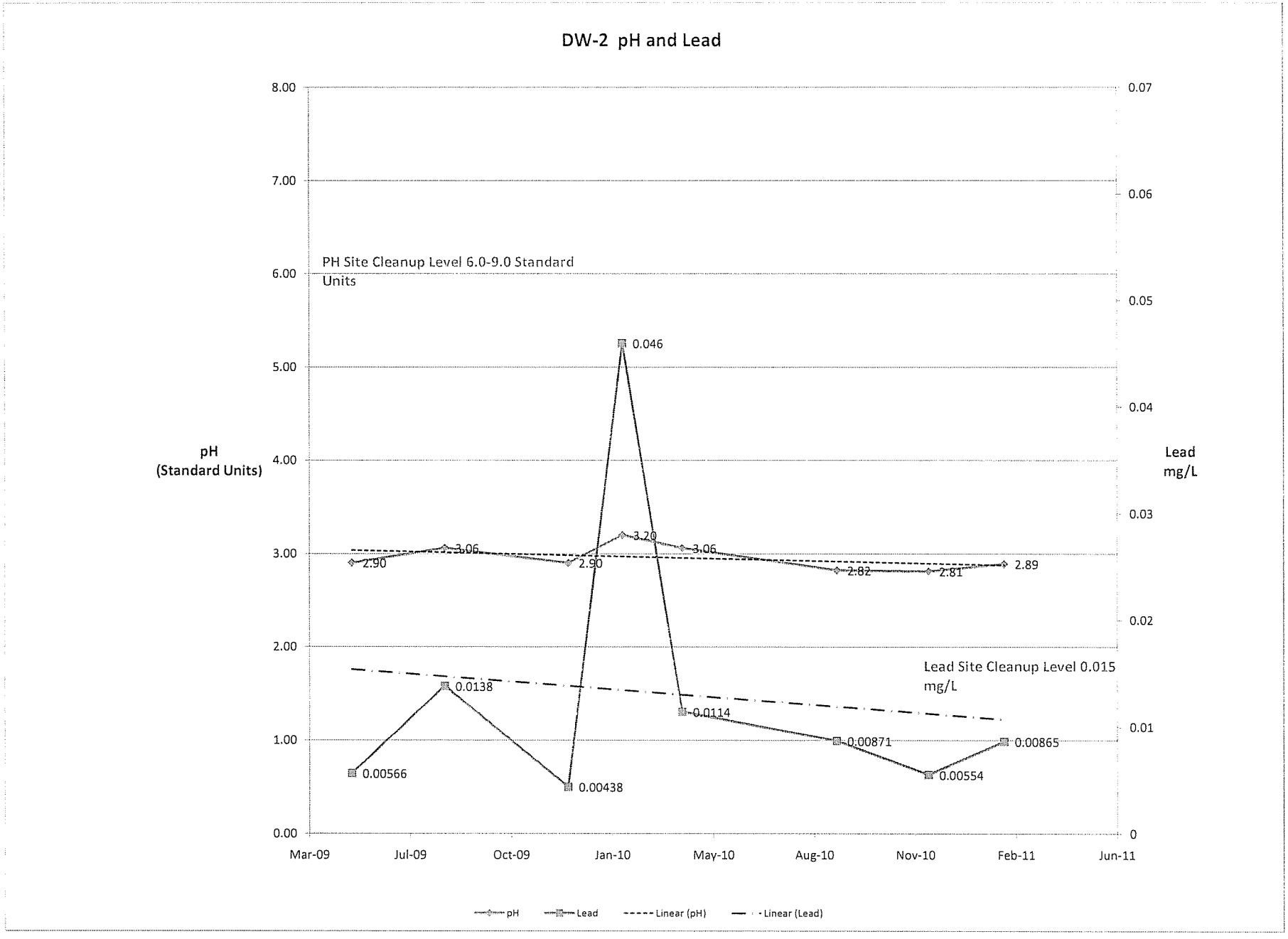
DW-1 Arsenic and Manganese

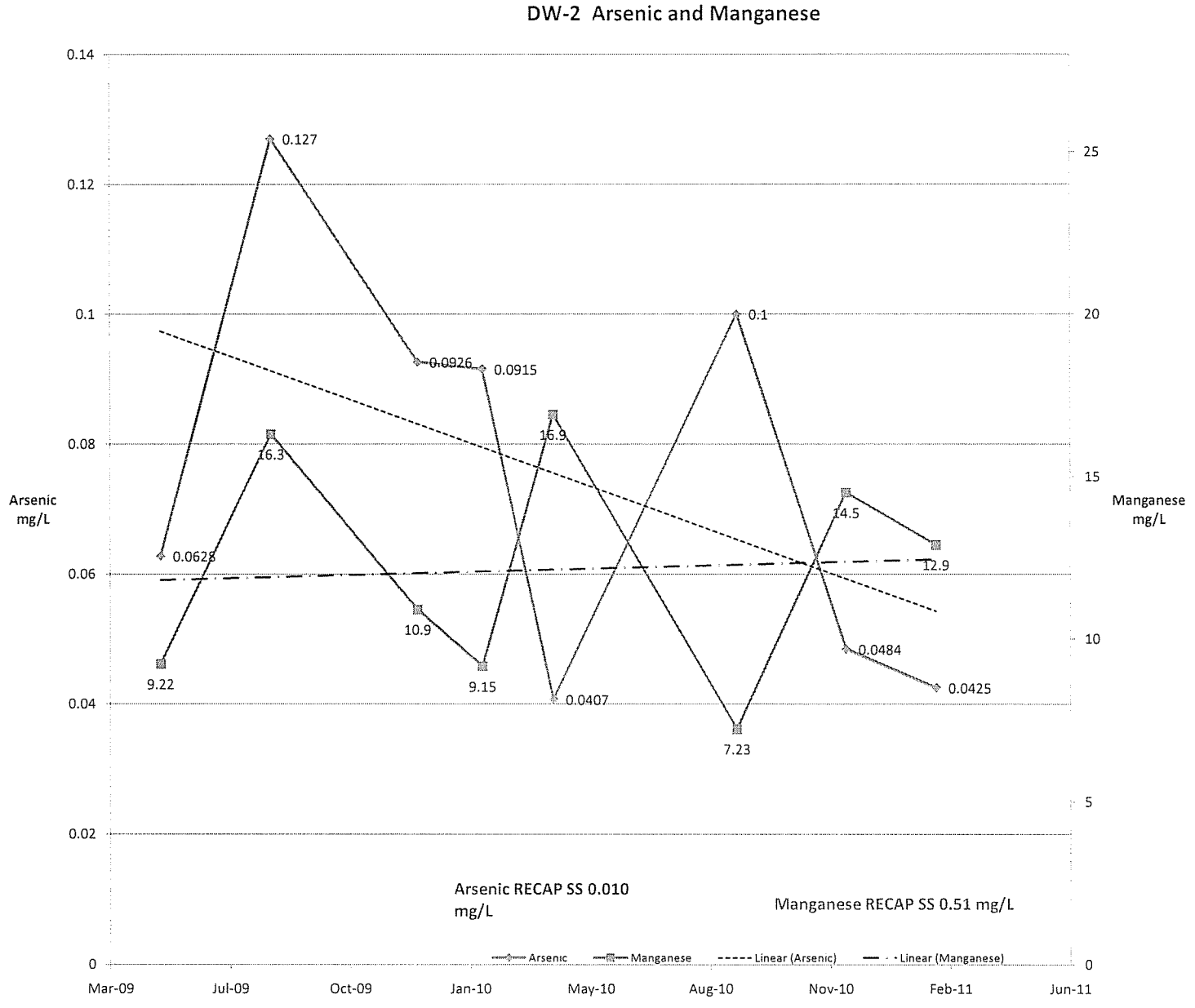


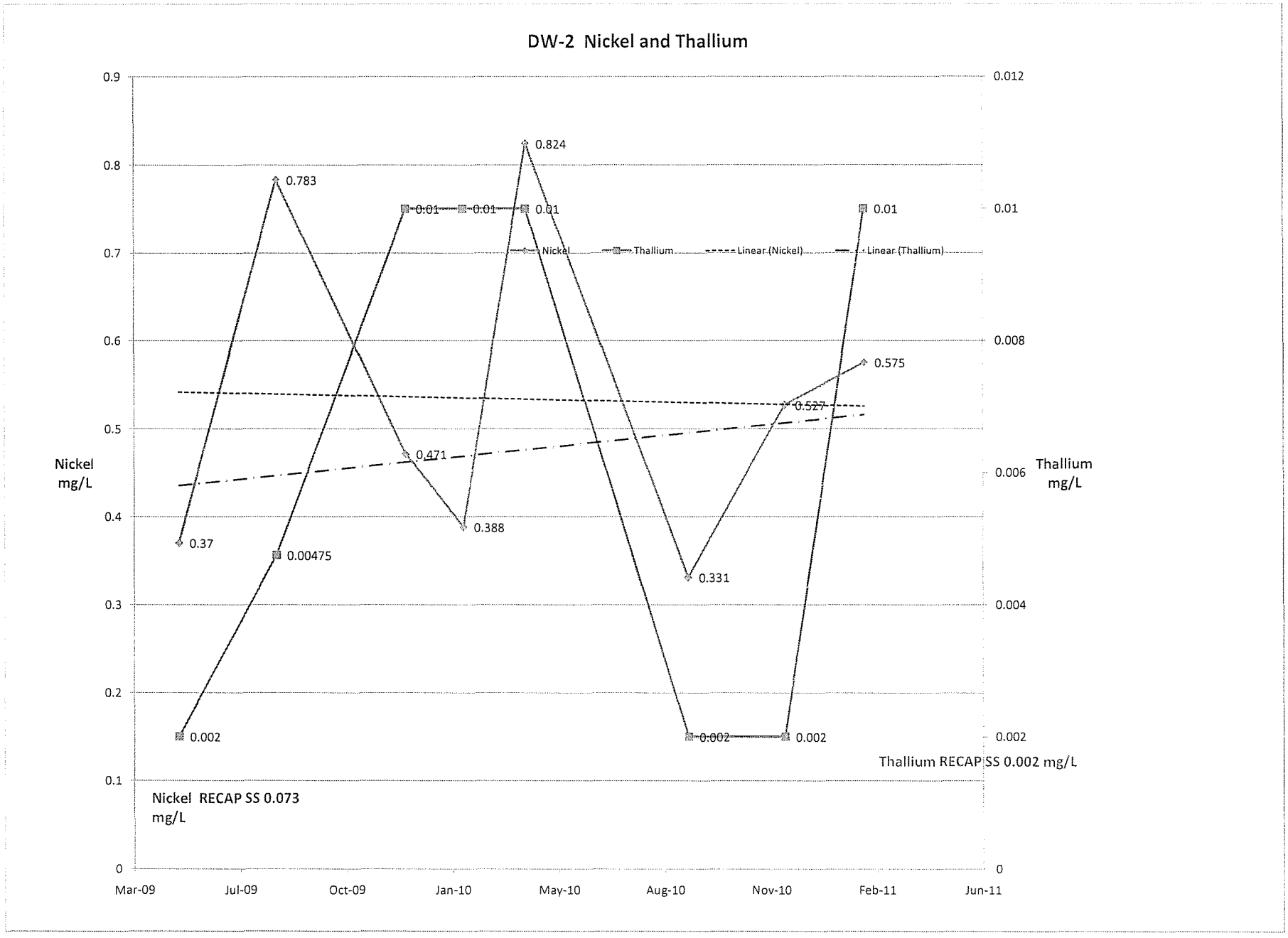

DW-1 Nickel and Thallium
Nickel RECAP SS 0.073 mg/L
Thallium RECAP SS 0.002 mg/L
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Nickel mg/L
Thallium mg/L
0.03
0.025
0.02
0.015
0.01
0.005
0
0.0025
0.002
0.0015
0.001
0.0005
0
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
0.002
0.0263
0.022
0.0222
0.0197
0.0206
0.000945
0.00686
0.00454
0.00618
0.000385

DW-1 Cadmium and Zinc

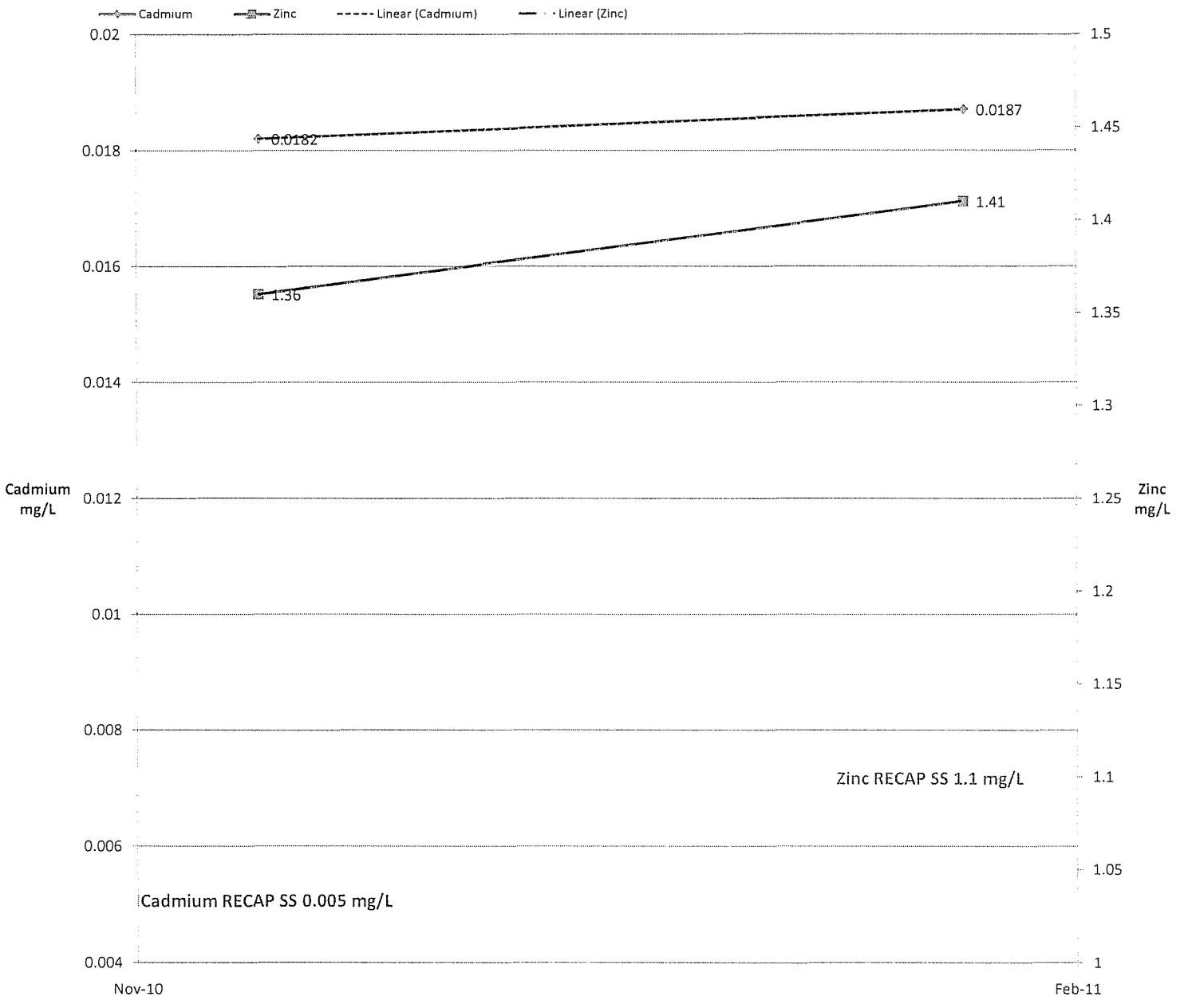


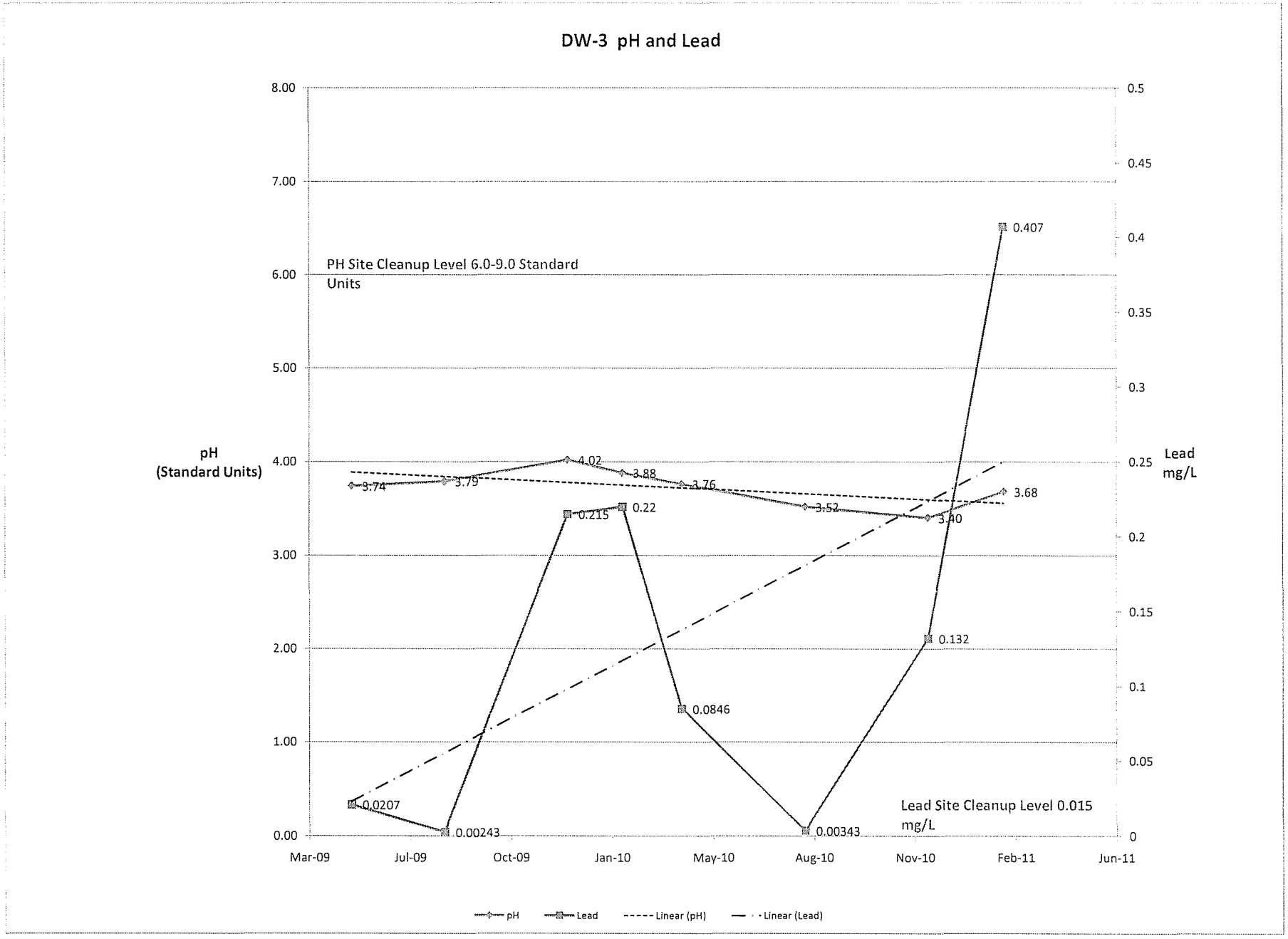

DW-2 pH and Lead
pH (Standard Units)
Lead mg/L
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
2.90
3.06
2.90
3.20
3.06
2.82
2.81
2.89
0.00566
0.0138
0.00438
0.046
0.0114
0.00871
0.00554
0.00865
pH
Lead
Linear (pH)
Linear (Lead)

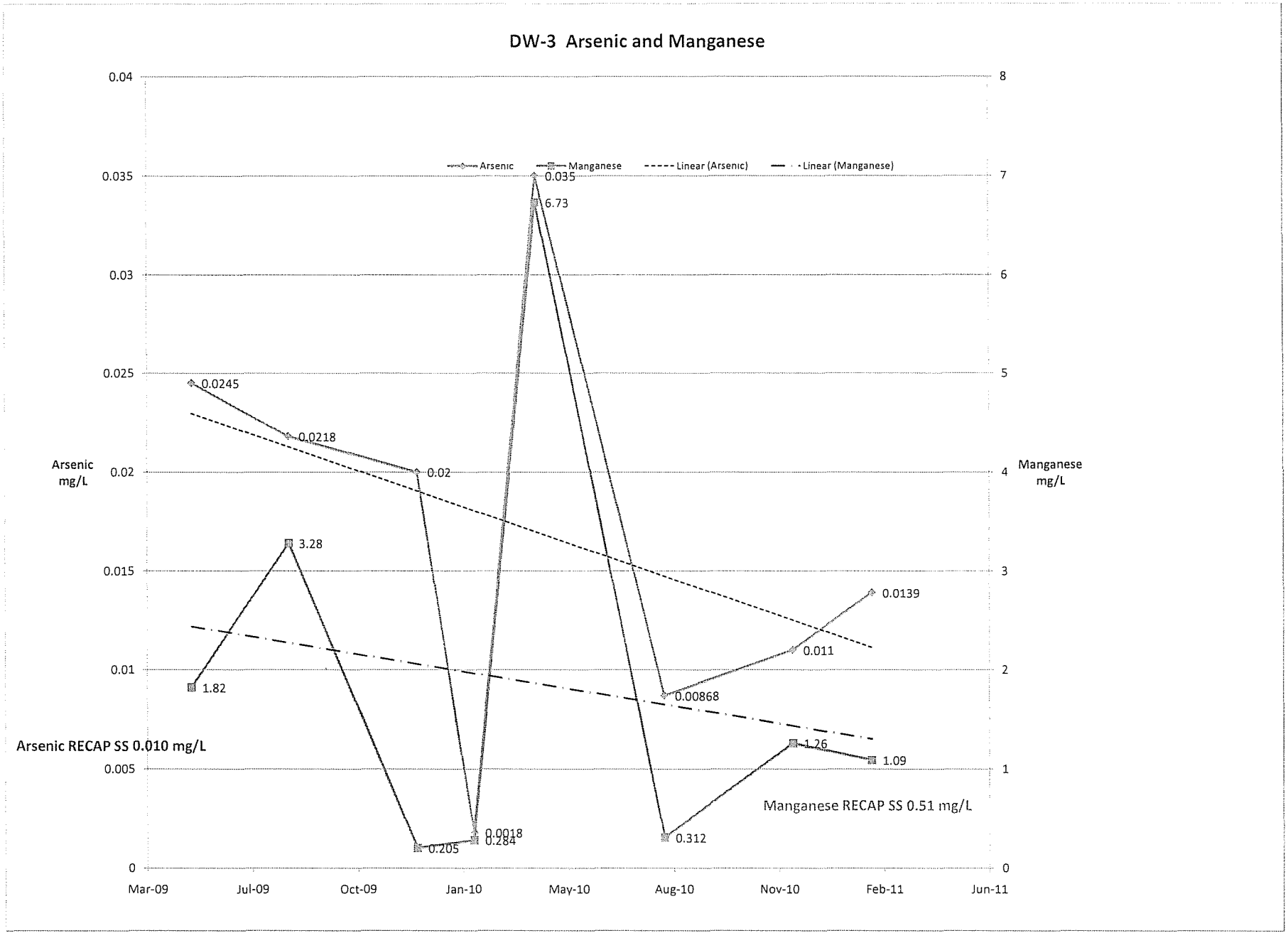

DW-2 Arsenic and Manganese
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Arsenic mg/L
25
20
15
10
5
0
Manganese mg/L
0.127
0.0926
0.0915
0.1
0.0628
16.3
16.9
14.5
12.9
10.9
9.22
9.15
0.0484
0.0425
0.0407
7.23
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

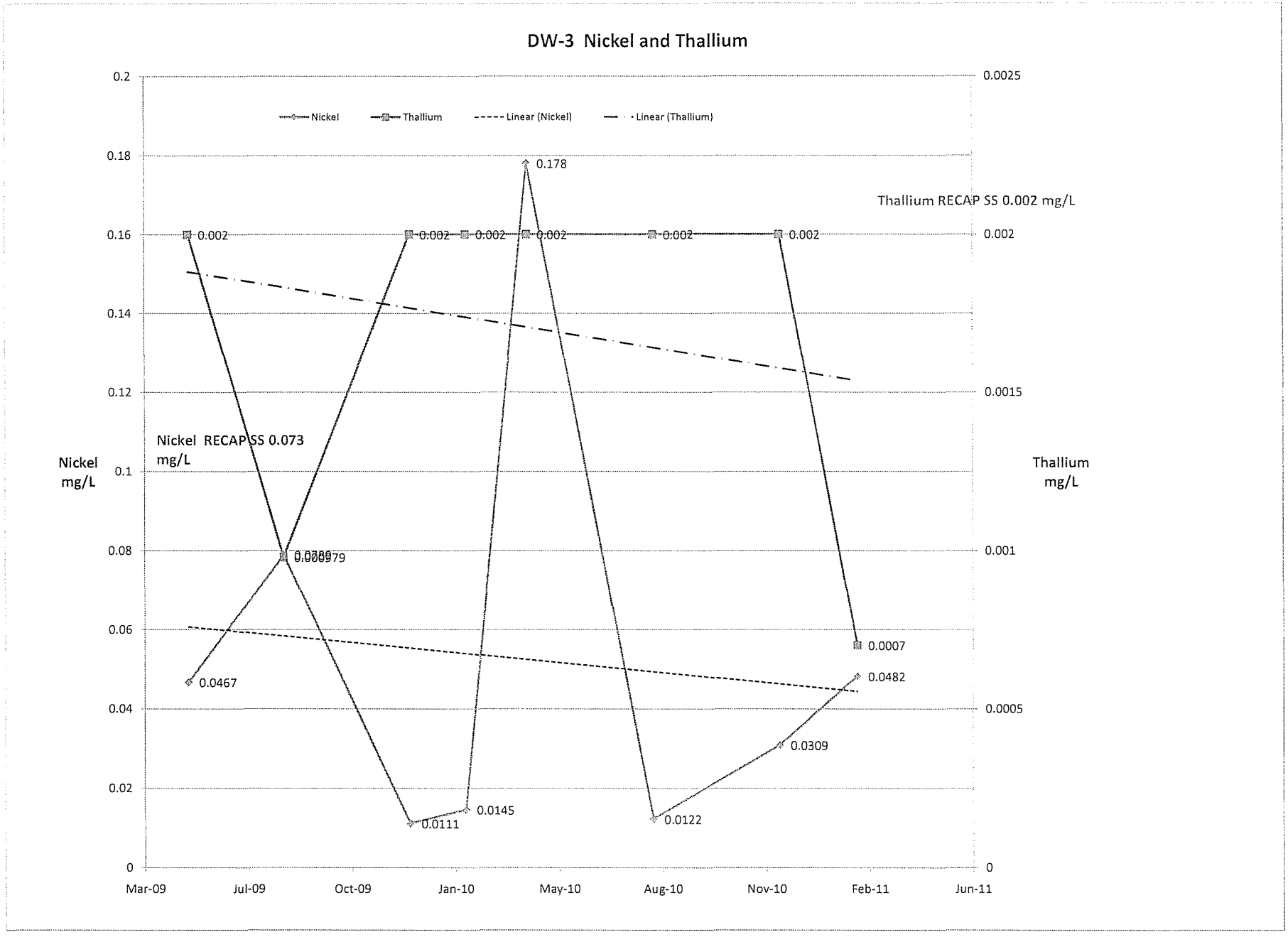

DW-2 Nickel and Thallium
Nickel
mg/L
Thallium
mg/L
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.012
0.01
0.008
0.006
0.004
0.002
0
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
0.37
0.783
0.01
0.01
0.01
0.824
0.388
0.471
0.00475
0.002
0.002
0.002
0.331
0.527
0.575
0.01
Nickel RECAP SS 0.073 mg/L
Thallium RECAP SS 0.002 mg/L

DW-2 Cadmium and Zinc

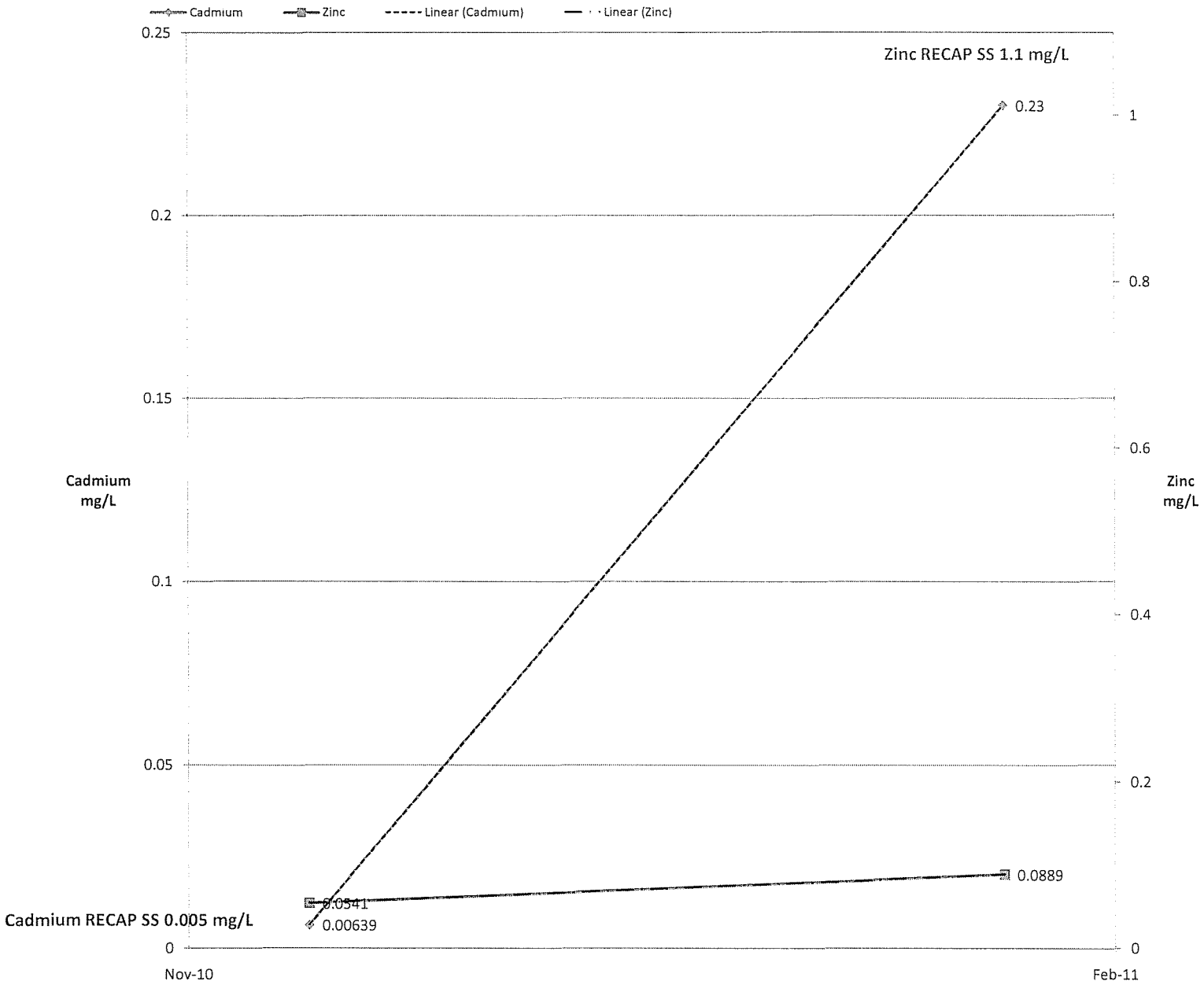


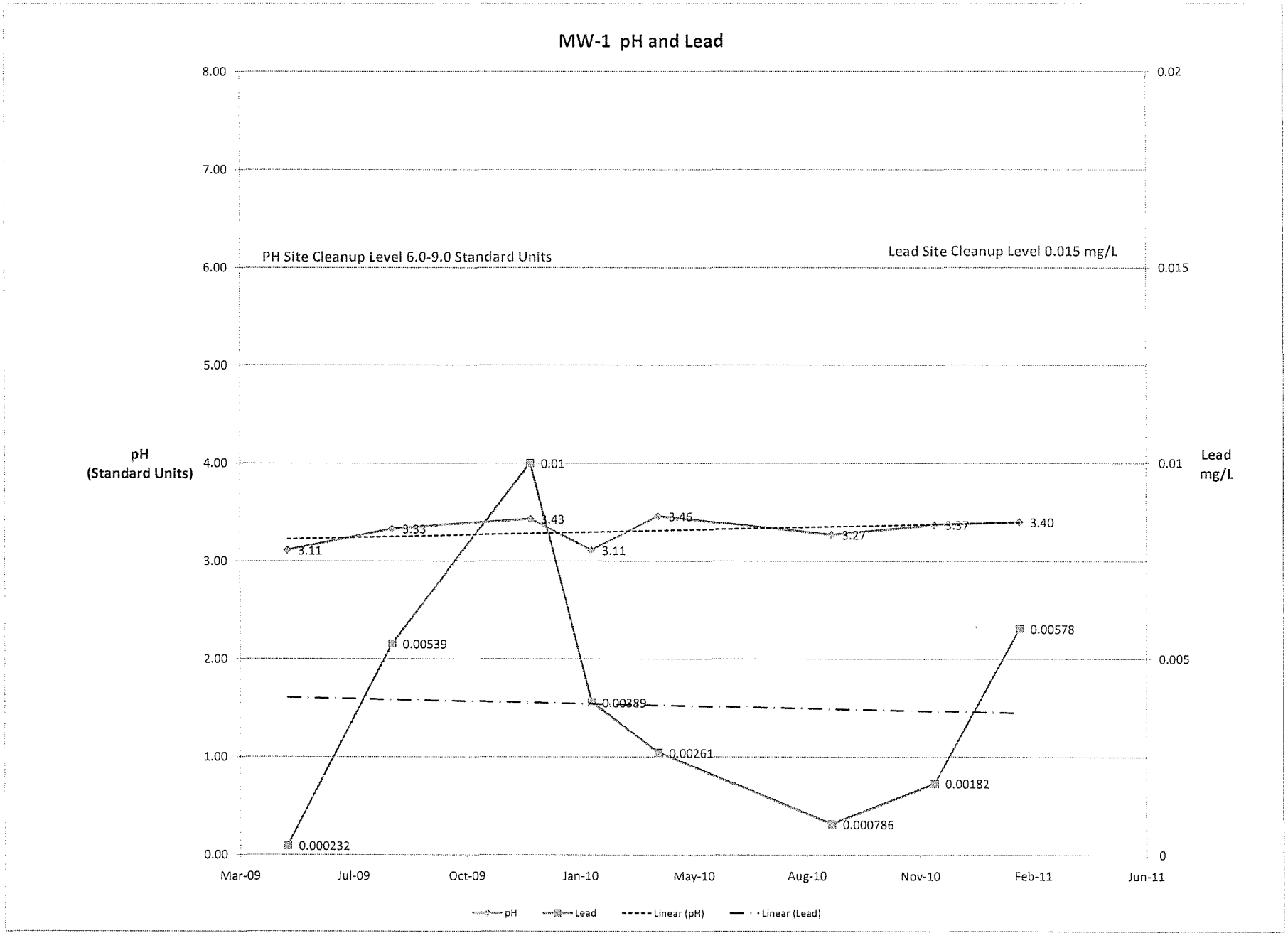

DW-3 pH and Lead
pH
(Standard Units)
Lead
mg/L
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
3.74
3.79
4.02
3.88
3.76
3.52
3.40
3.68
0.0207
0.00243
0.215
0.22
0.0846
0.00343
0.132
0.407
pH
Lead
Linear (pH)
Linear (Lead)

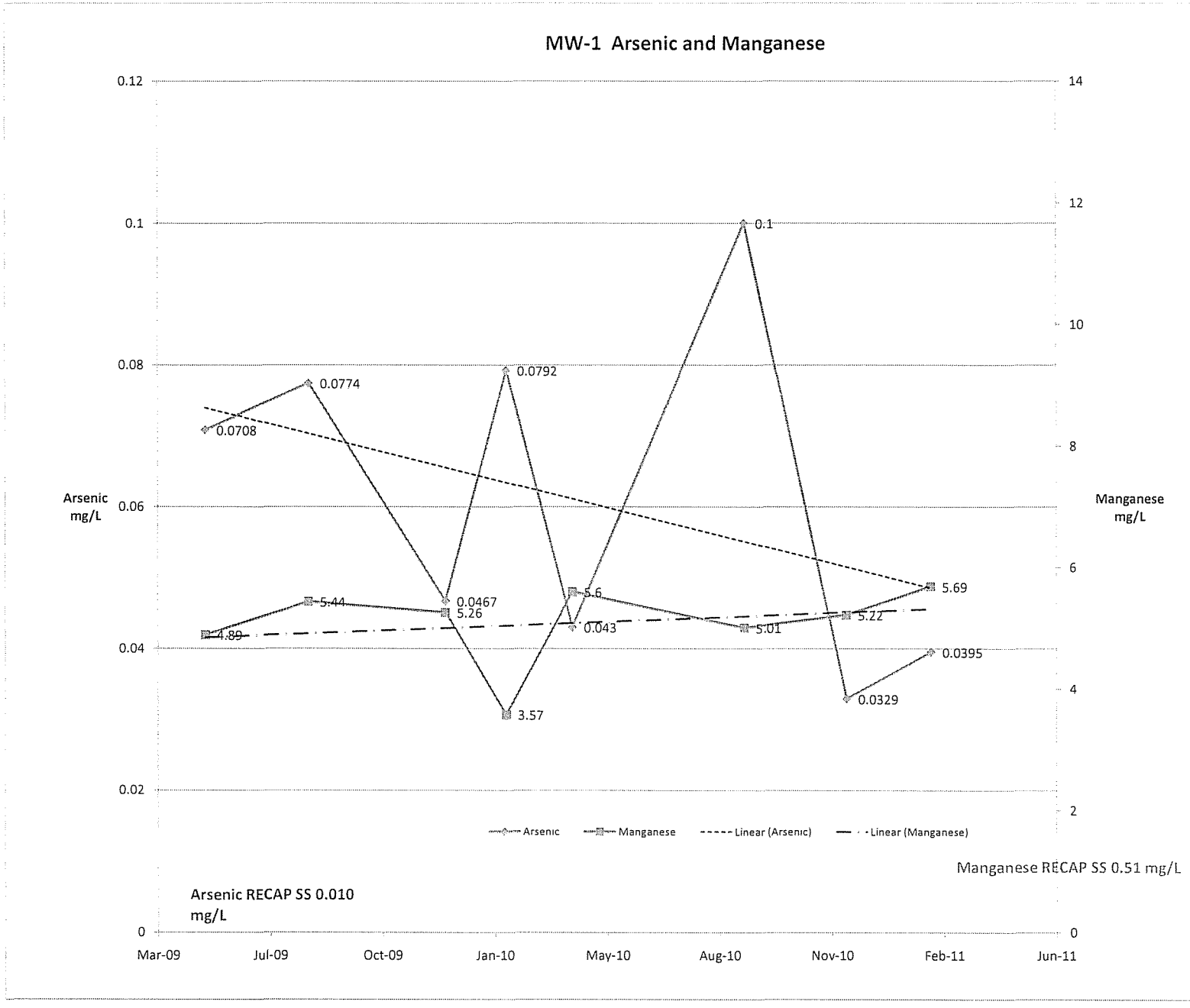

DW-3 Arsenic and Manganese
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Arsenic mg/L
Manganese mg/L
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
8
7
6
5
4
3
2
1
0
0.0245
0.0218
0.02
0.035
6.73
0.0018
0.284
0.205
0.312
0.00868
0.011
0.0139
1.82
3.28
1.26
1.09
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

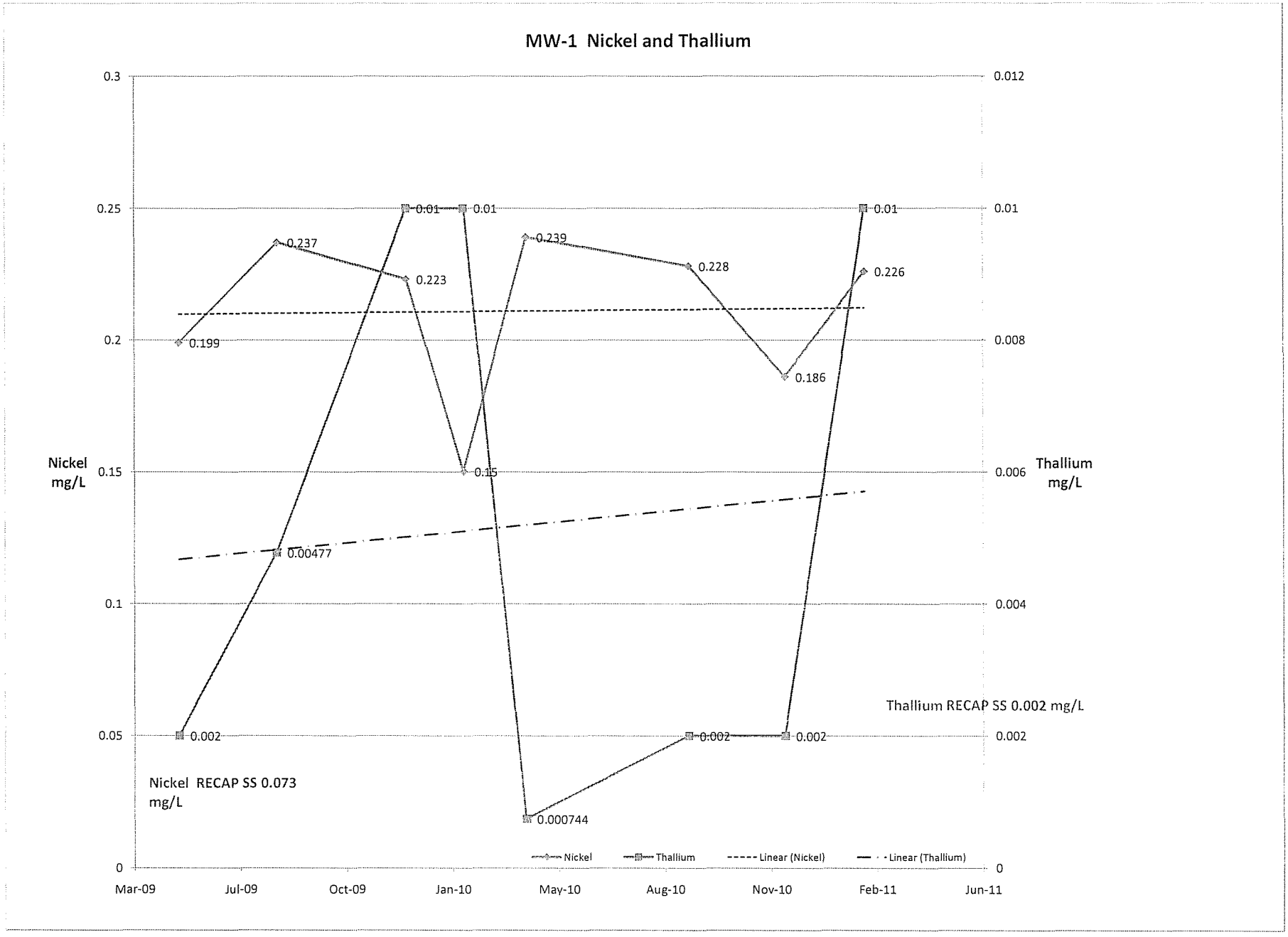

DW-3 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.178
0.002
0.0467
0.0111
0.0145
0.0122
0.0309
0.0482
0.0007
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

DW-3 Cadmium and Zinc

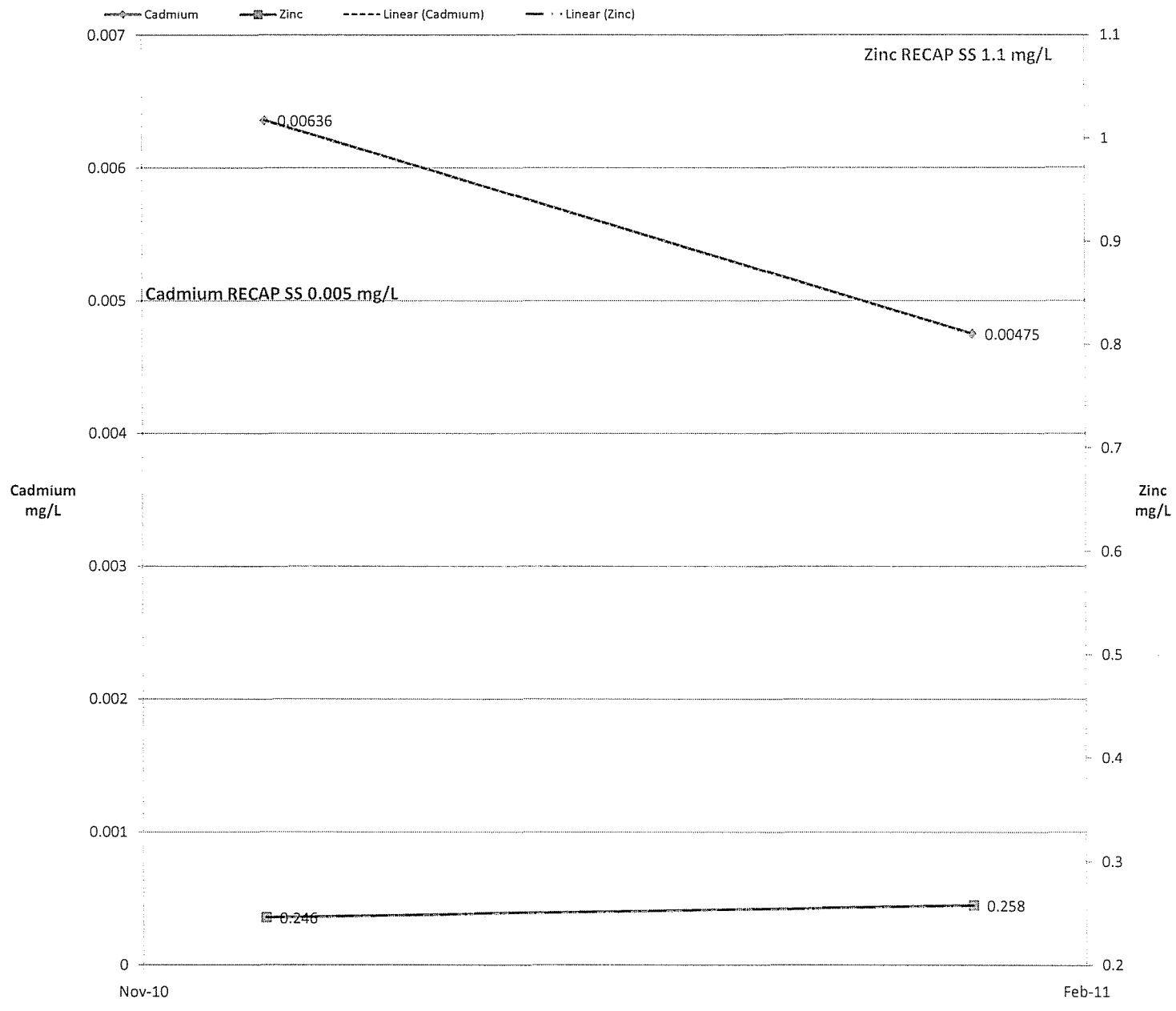


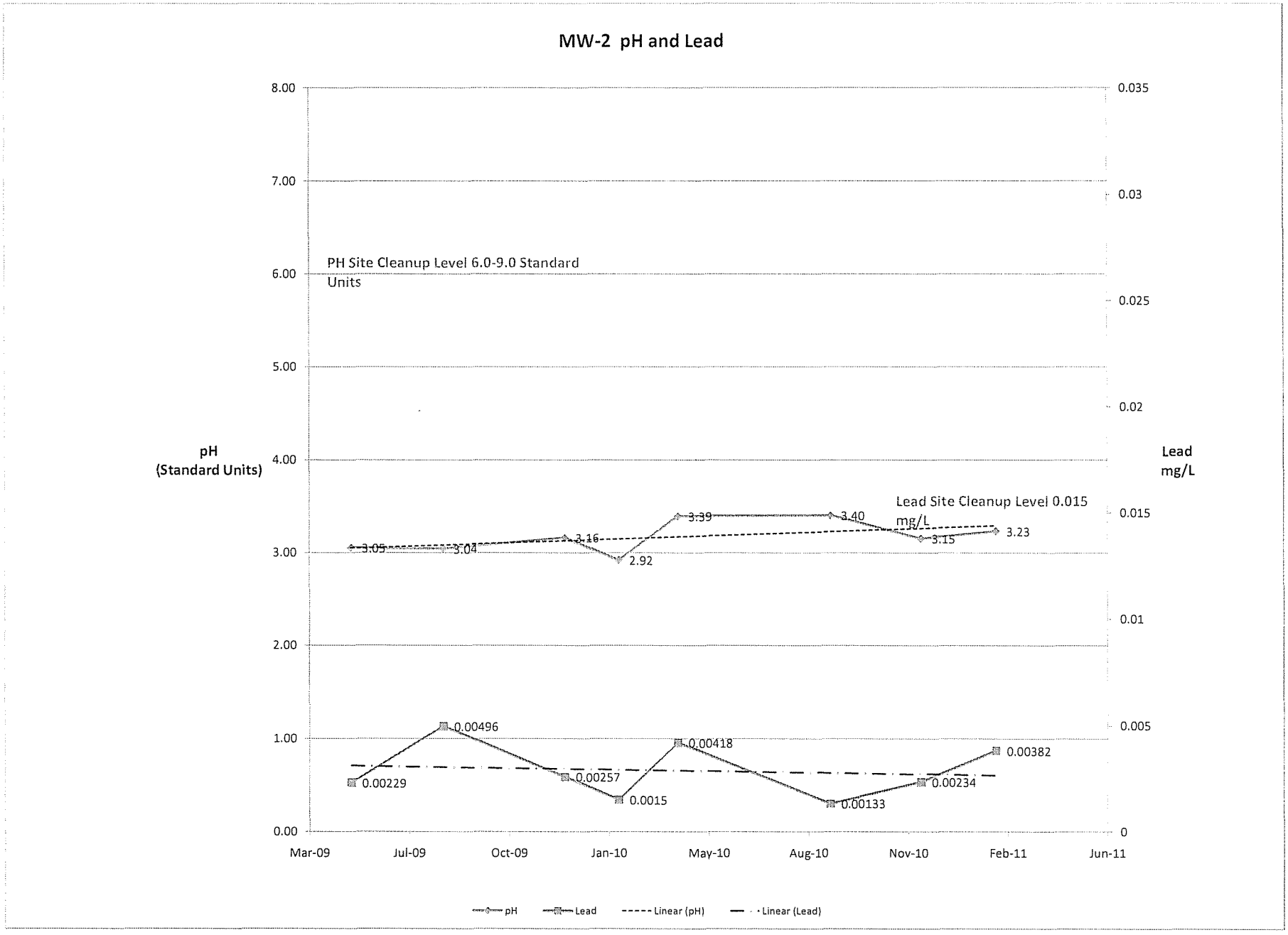

MW-1 pH and Lead
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
pH (Standard Units)
Lead mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.02
0.015
0.01
0.005
0
3.11
3.33
3.43
3.11
3.46
3.27
3.37
3.40
0.000232
0.00539
0.01
0.00389
0.00261
0.000786
0.00182
0.00578
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

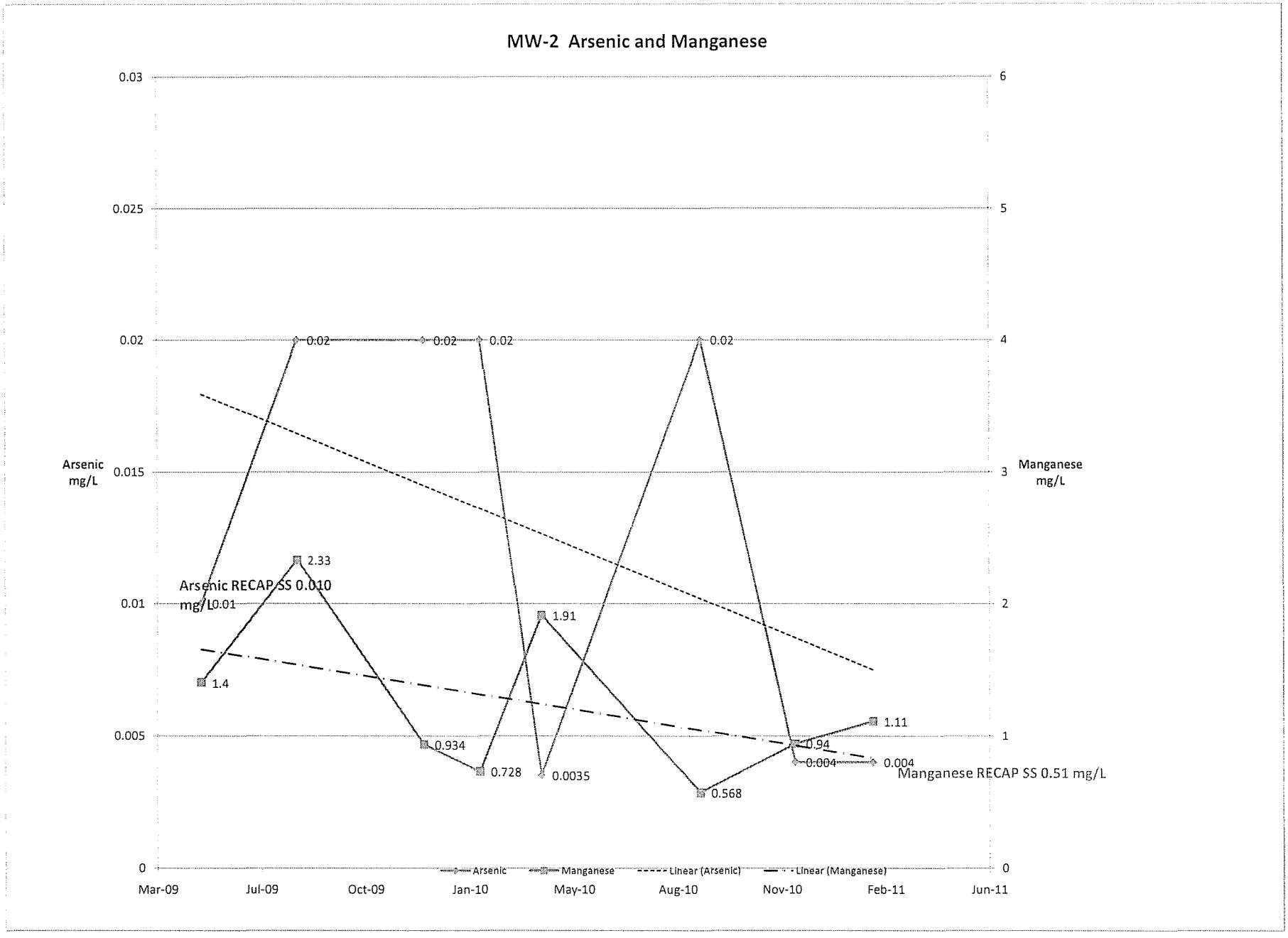

MW-1 Arsenic and Manganese
0.12
0.1
0.08
0.06
0.04
0.02
0
14
12
10
8
6
4
2
0
Arsenic mg/L
Manganese mg/L
0.0708
0.0774
0.0467
3.57
0.0792
0.043
0.1
0.0329
0.0395
4.89
5.44
5.26
5.6
5.01
5.22
5.69
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

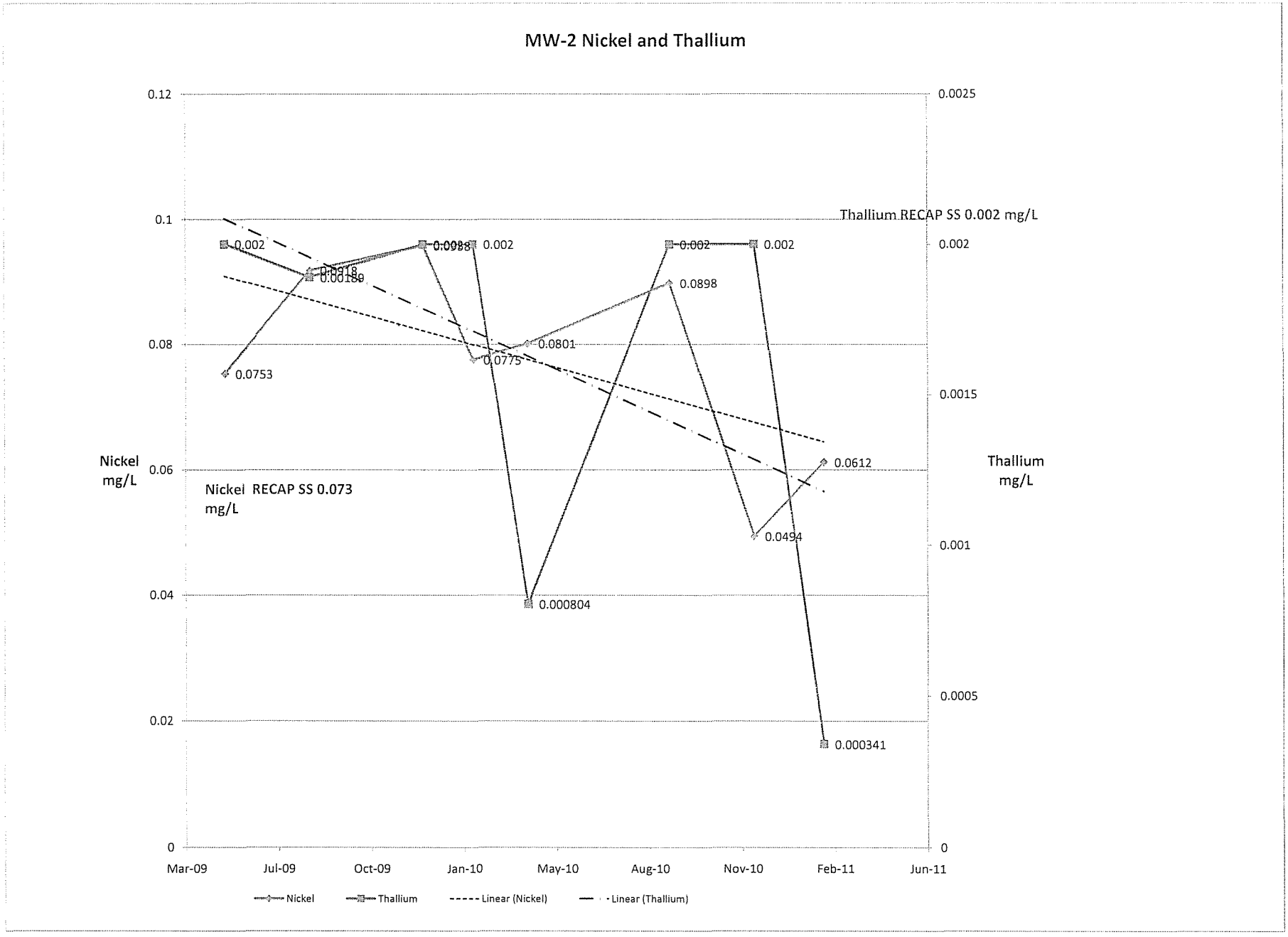

MW-1 Nickel and Thallium
Nickel mg/L
Thallium mg/L
0.3
0.25
0.2
0.15
0.1
0.05
0
0.012
0.01
0.008
0.006
0.004
0.002
0
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
0.199
0.237
0.223
0.15
0.00477
0.002
0.01
0.01
0.000744
0.239
0.228
0.186
0.002
0.002
0.01
0.226
Nickel RECAP SS 0.073 mg/L
Thallium RECAP SS 0.002 mg/L
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)

MW-1 Cadmium and Zinc

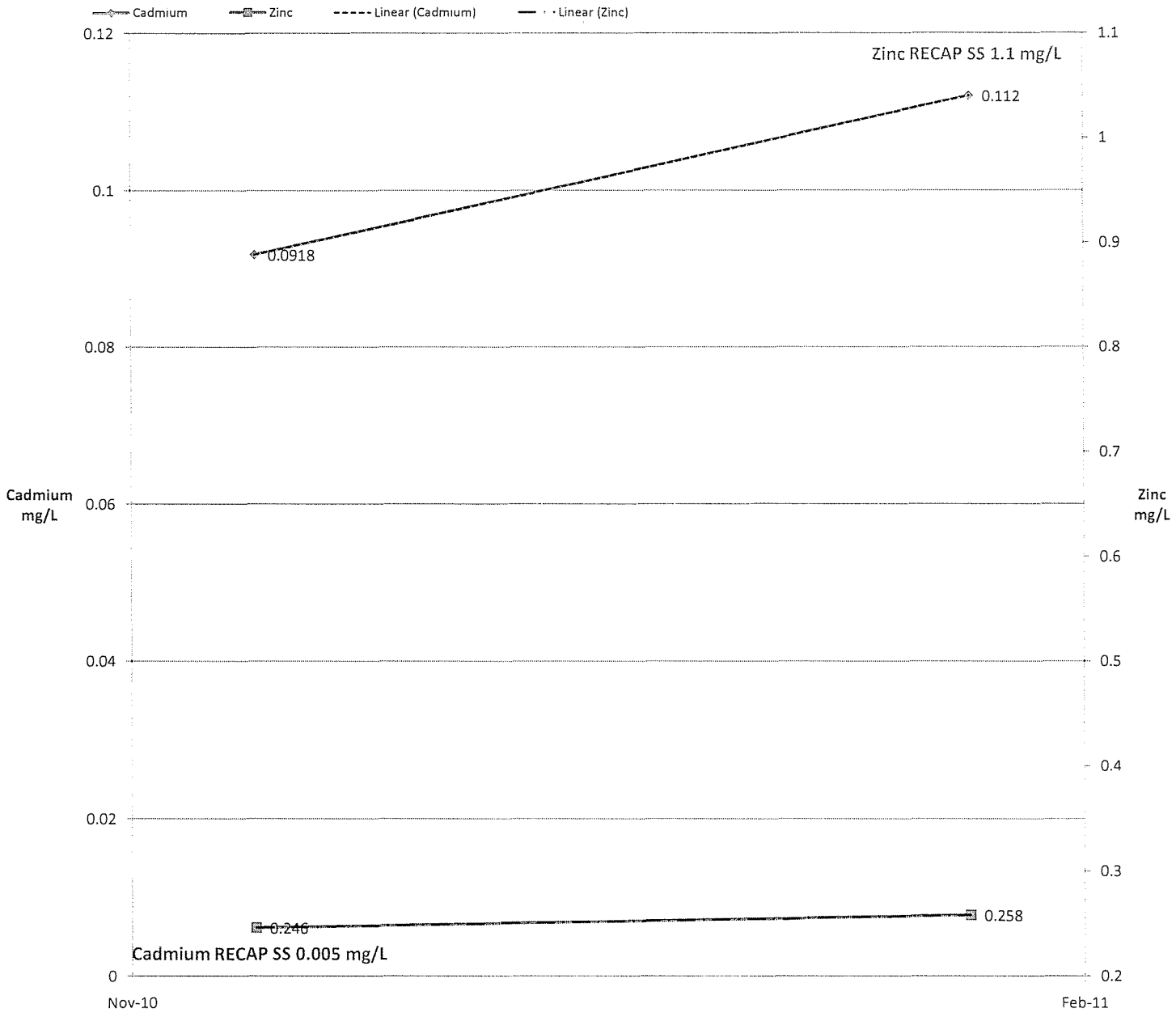


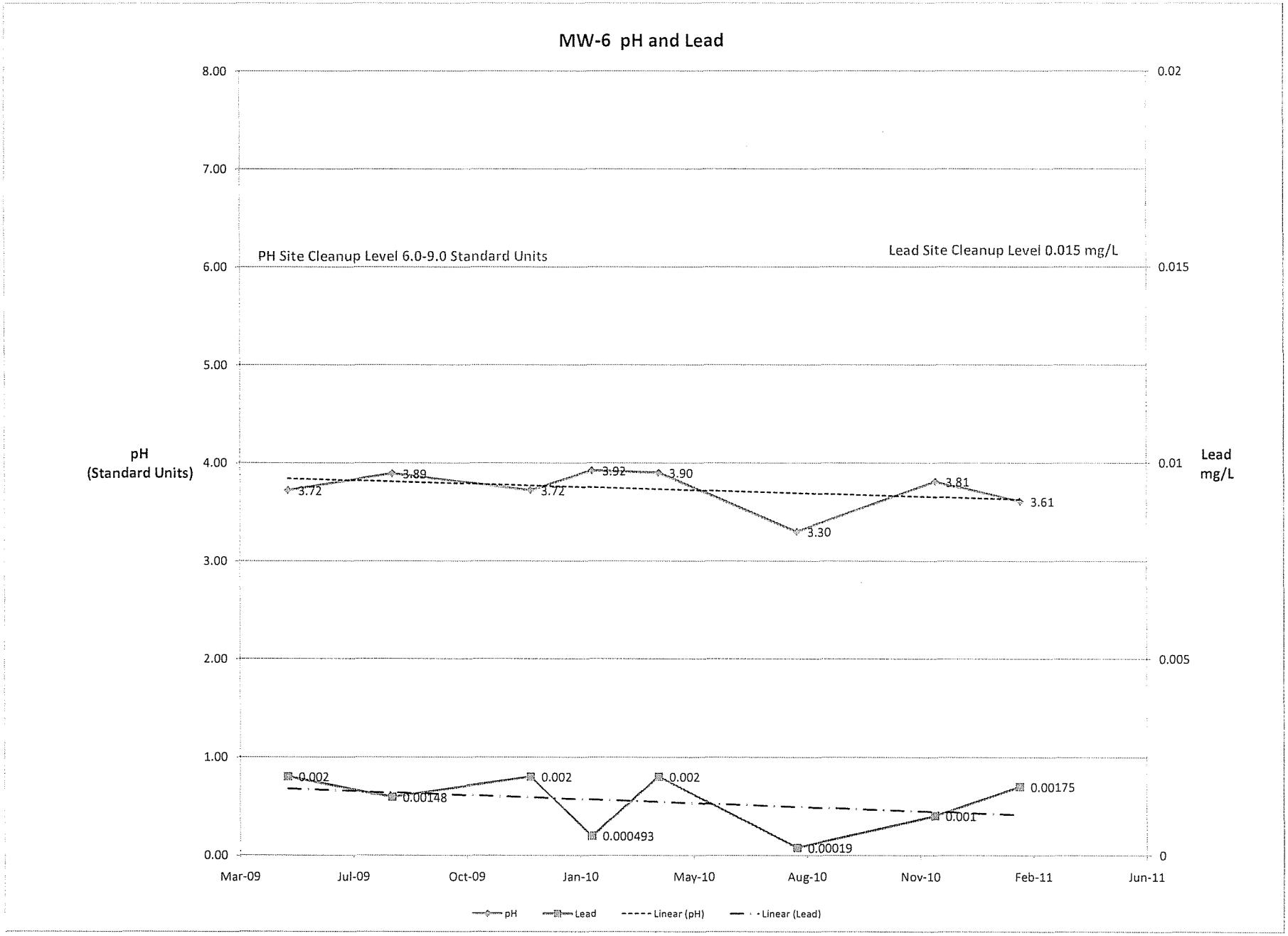

MW-2 pH and Lead
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
pH
(Standard Units)
Lead
mg/L
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
3.05
3.04
3.16
2.92
3.39
3.40
3.15
3.23
0.00229
0.00496
0.00257
0.0015
0.00418
0.00133
0.00234
0.00382
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

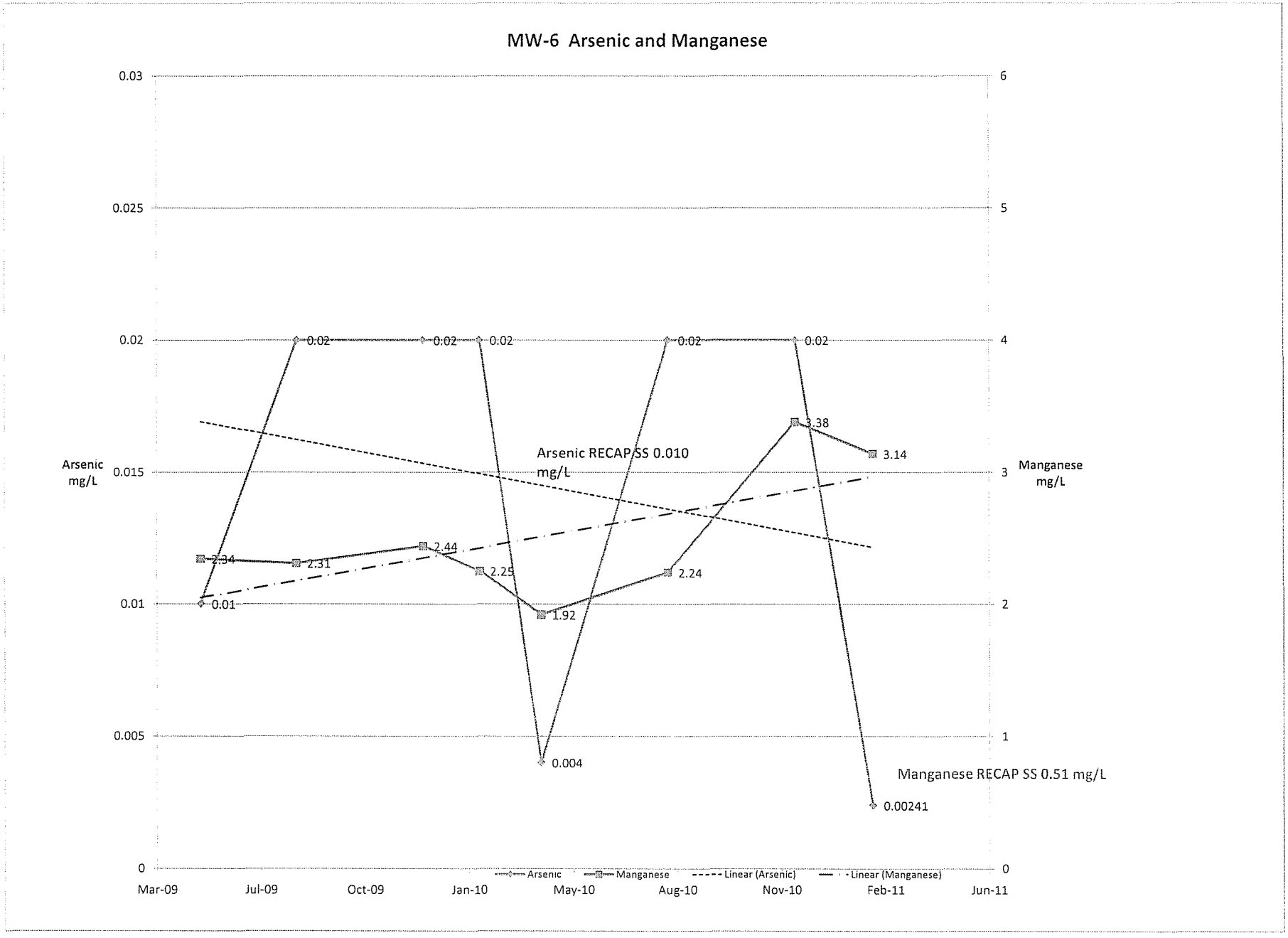

MW-2 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
0.03
0.025
0.02
0.015
0.01
0.005
0
6
5
4
3
2
1
0
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.02
0.02
0.02
0.01
2.33
1.4
0.934
0.728
1.91
0.0035
0.568
1.11
0.94
0.004
0.004
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

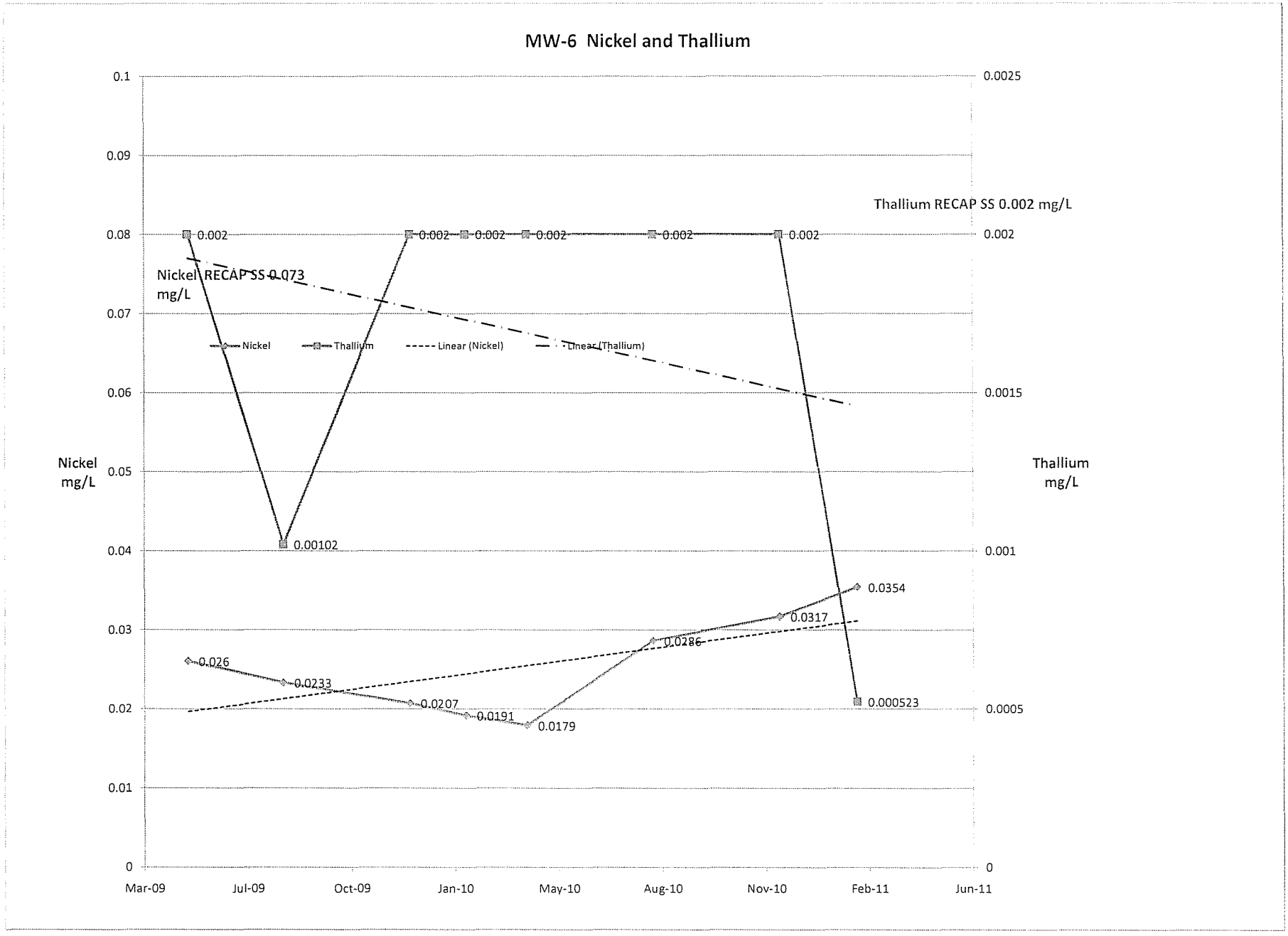

MW-2 Nickel and Thallium
0.12
0.1
0.08
0.06
0.04
0.02
0
Nickel mg/L
Nickel RECAP SS 0.073 mg/L
0.0025
0.002
0.0015
0.001
0.0005
0
Thallium mg/L
Thallium RECAP SS 0.002 mg/L
0.002
0.0753
0.0775
0.0801
0.0898
0.0612
0.0494
0.000804
0.000341
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)

MW-2 Cadmium and Zinc

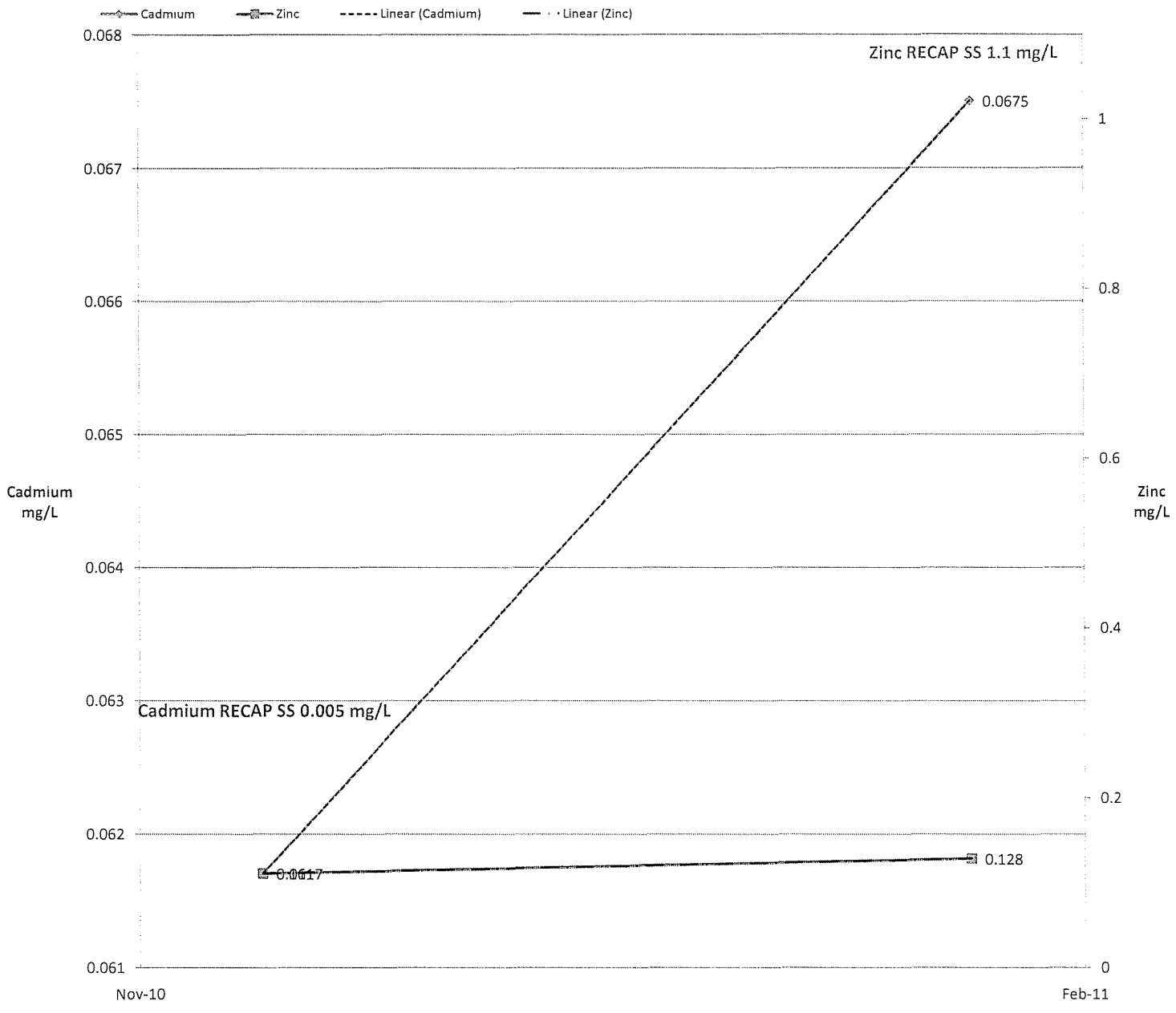


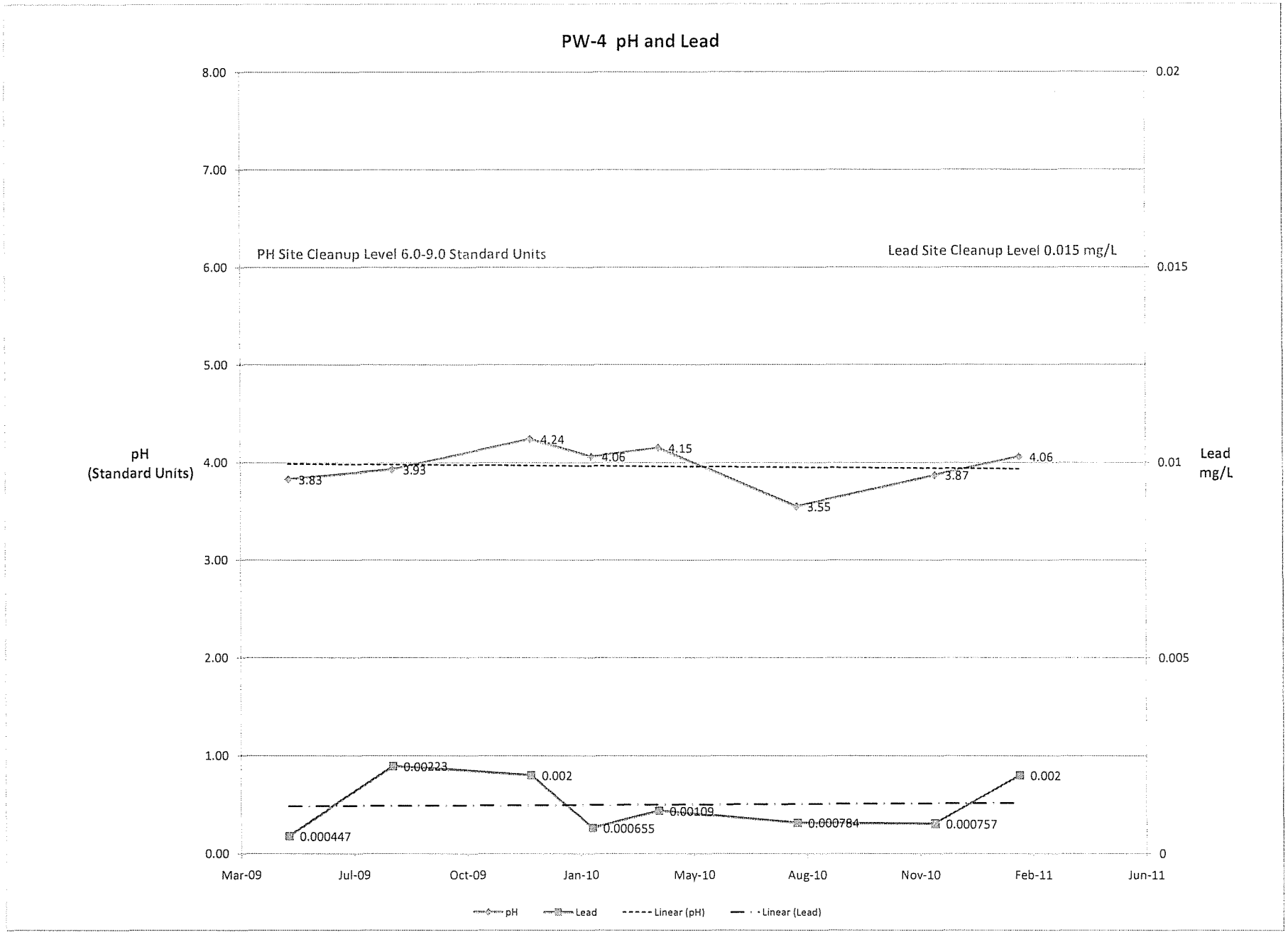

MW-6 pH and Lead
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
pH (Standard Units)
Lead mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.02
0.015
0.01
0.005
0
3.72
3.89
3.72
3.92
3.90
3.30
3.81
3.61
0.002
0.00148
0.002
0.000493
0.002
0.00019
0.001
0.00175
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

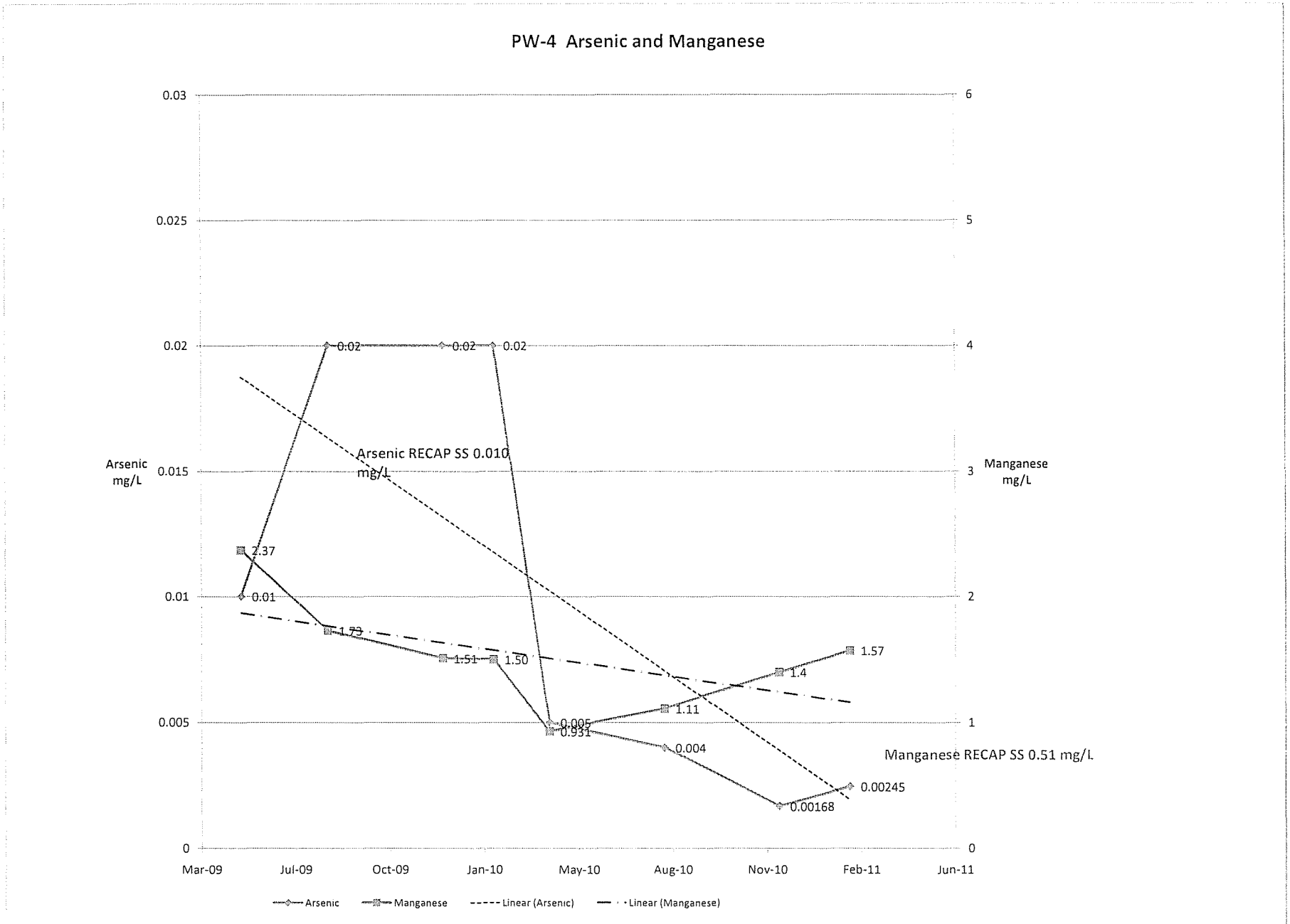

MW-6 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
0.03
0.025
0.02
0.015
0.01
0.005
0
6
5
4
3
2
1
0
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
0.02
0.02
0.02
0.02
0.02
0.01
0.004
0.00241
2.34
2.31
2.44
2.25
1.92
2.24
3.38
3.14
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

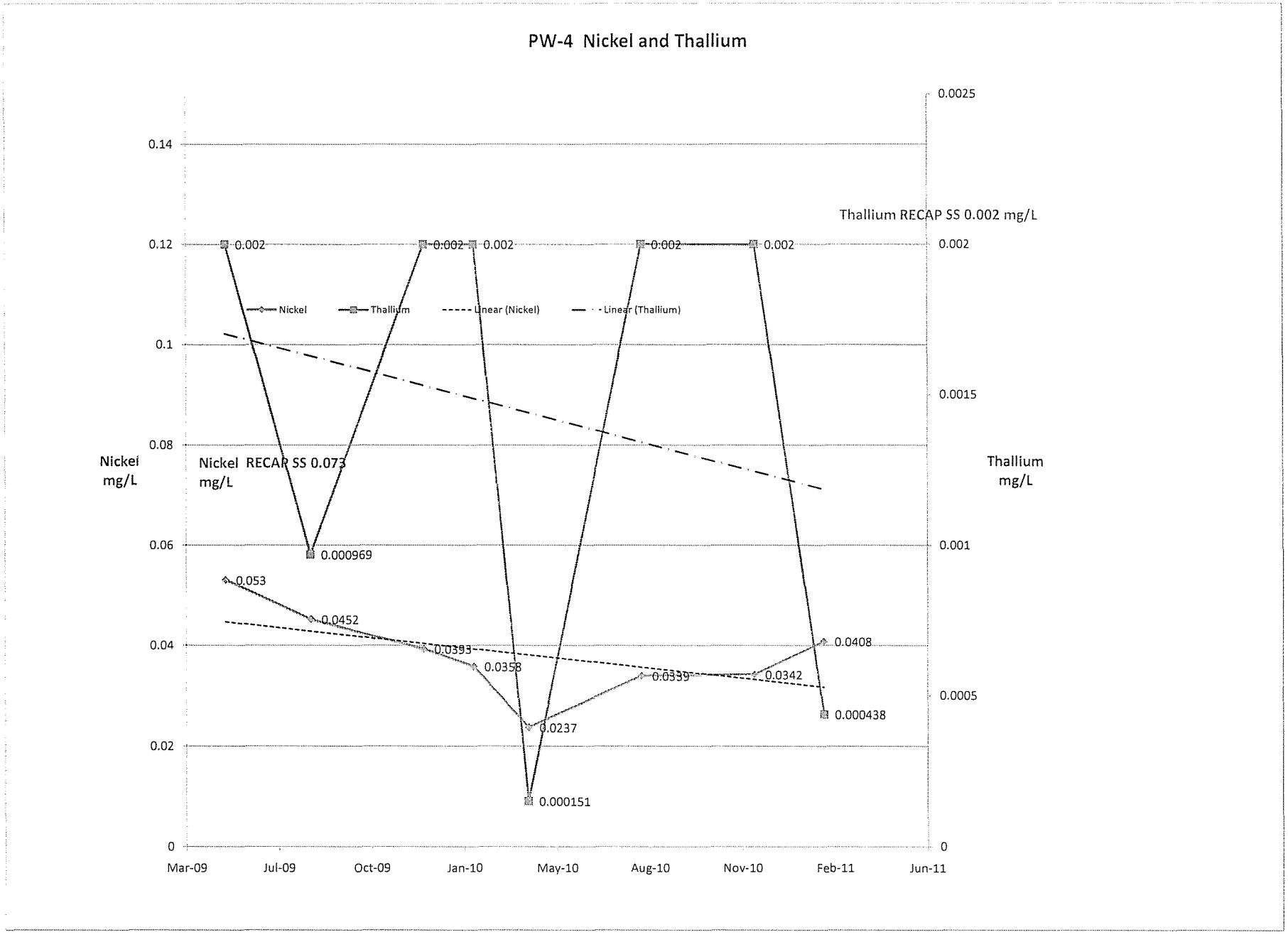

MW-6 Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.00102
0.026
0.0233
0.0207
0.0191
0.0179
0.0286
0.0317
0.0354
0.000523
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

MW-6 Cadmium and Zinc

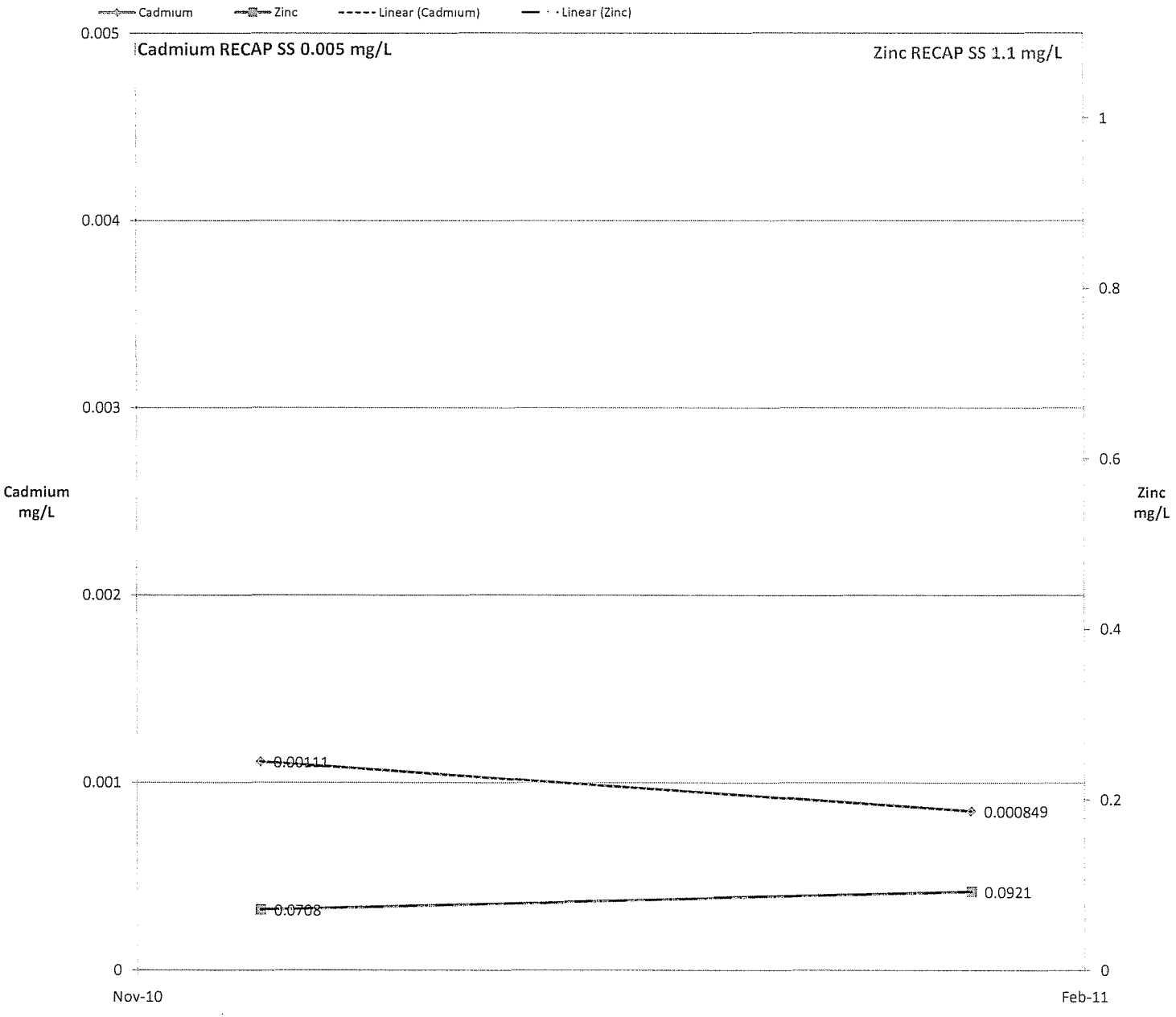


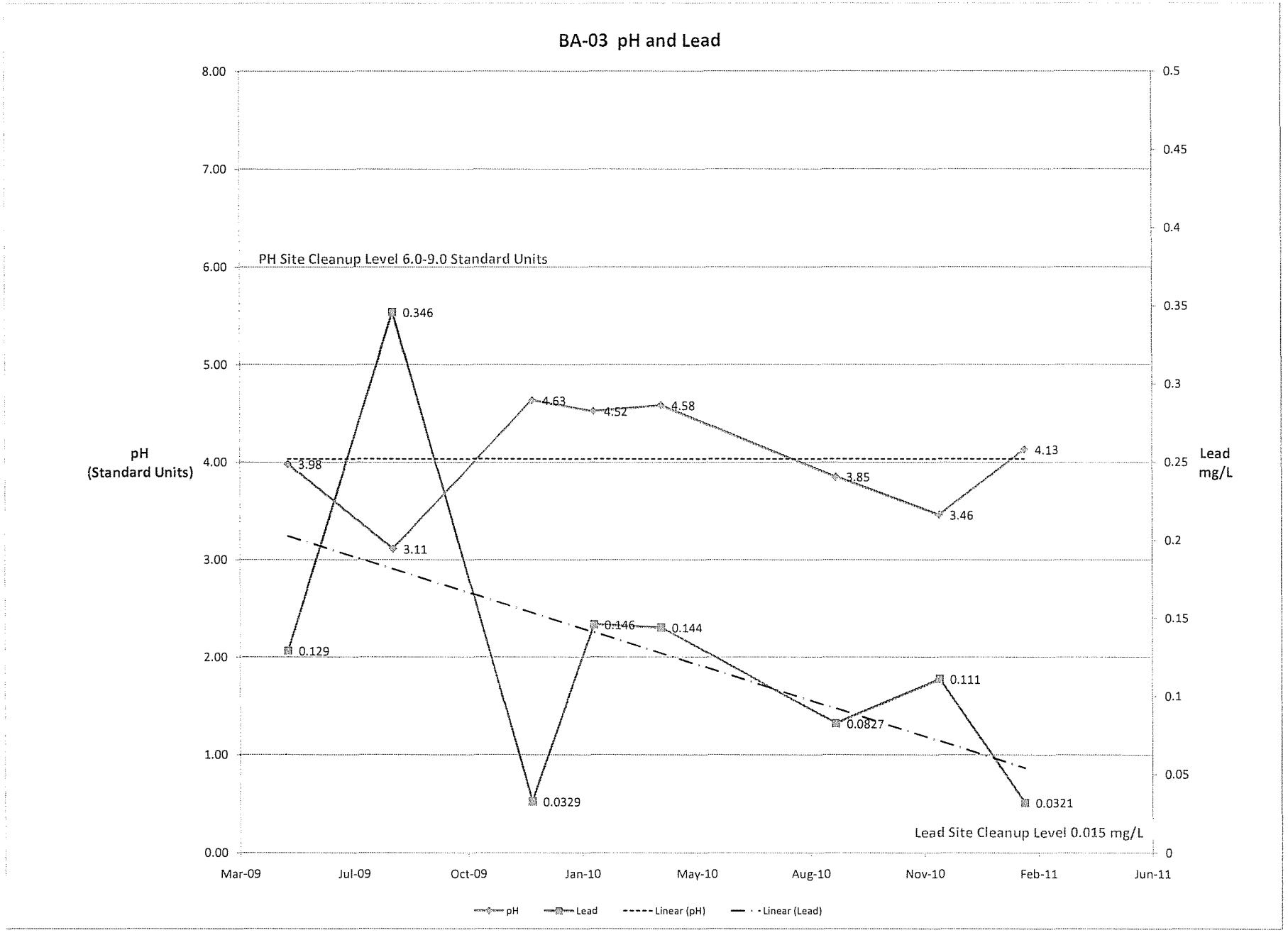

PW-4 pH and Lead
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.02
0.015
0.01
0.005
0
pH
(Standard Units)
Lead
mg/L
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
3.83
3.93
4.24
4.06
4.15
3.55
3.87
4.06
0.000447
0.00223
0.002
0.000655
0.00109
0.000784
0.000757
0.002
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

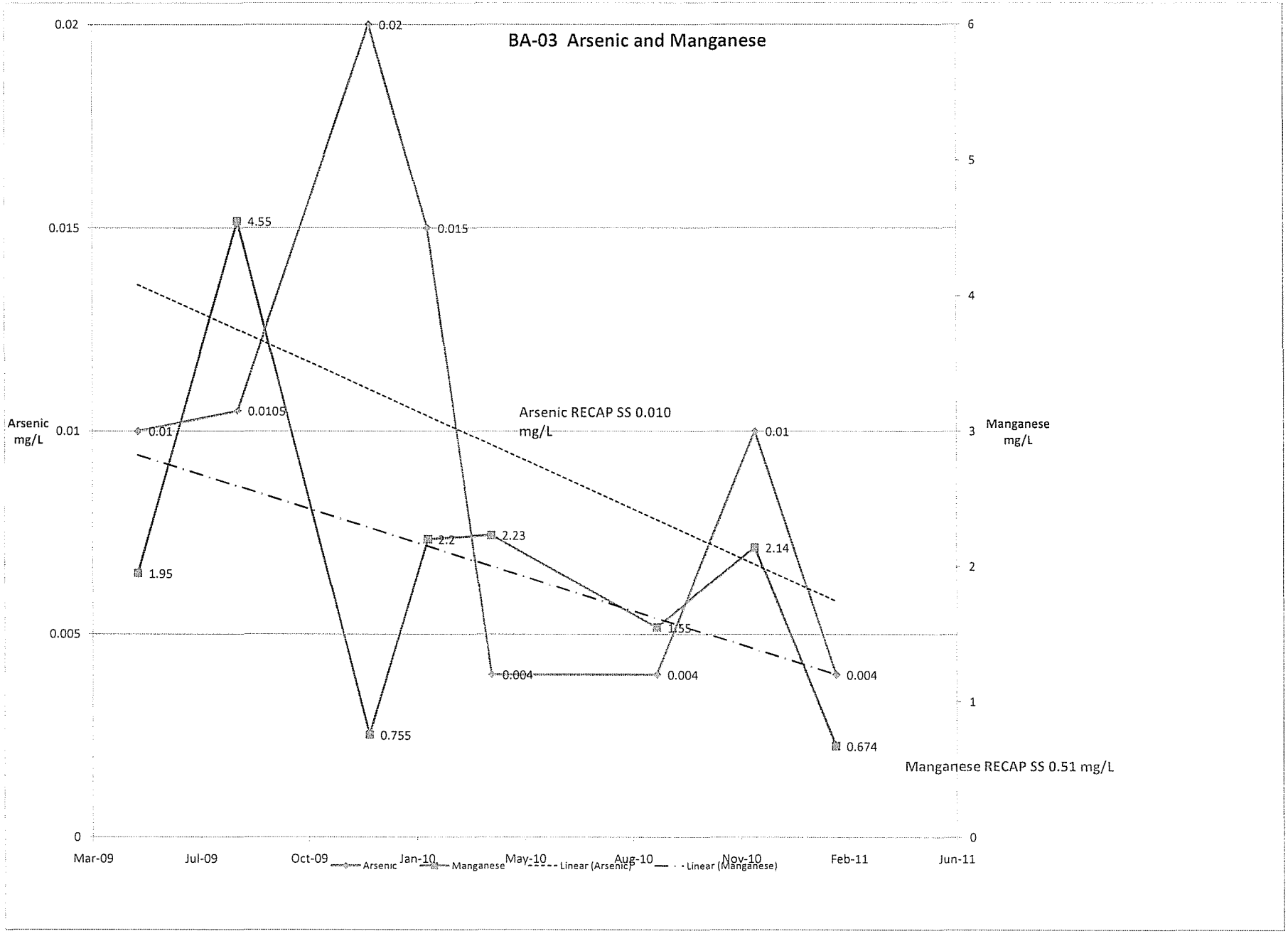

PW-4 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
0.03
0.025
0.02
0.015
0.01
0.005
0
6
5
4
3
2
1
0
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.02
0.02
0.01
0.005
0.004
0.00168
0.00245
2.37
1.73
1.51
1.50
0.931
1.11
1.4
1.57
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

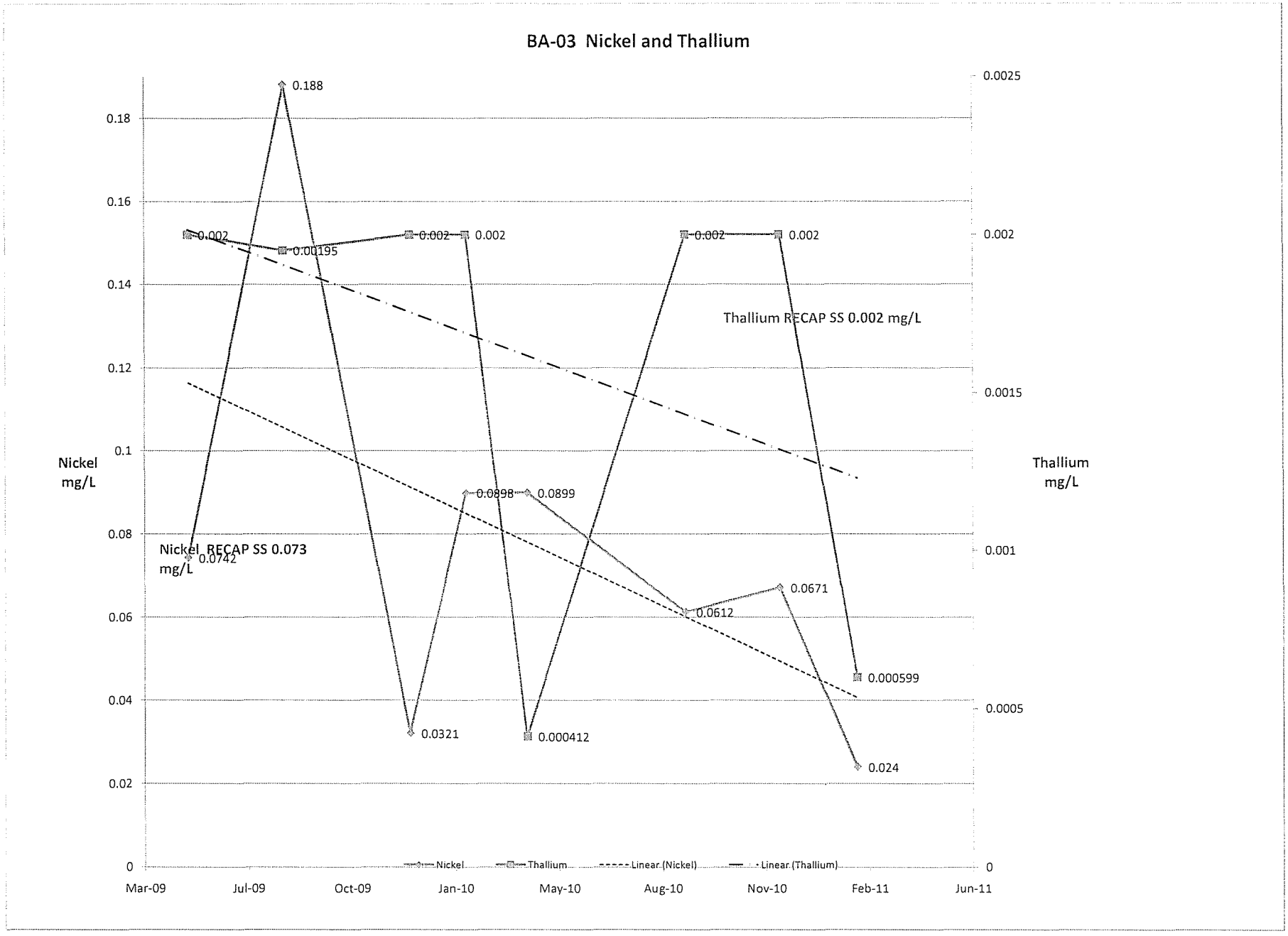

PW-4 Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0.0025
0.002
0.0015
0.001
0.0005
0
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
0.002
0.002
0.002
0.002
0.002
0.000969
0.000151
0.000438
0.053
0.0452
0.0393
0.0358
0.0237
0.0339
0.0342
0.0408

PW-4 Cadmium and Zinc

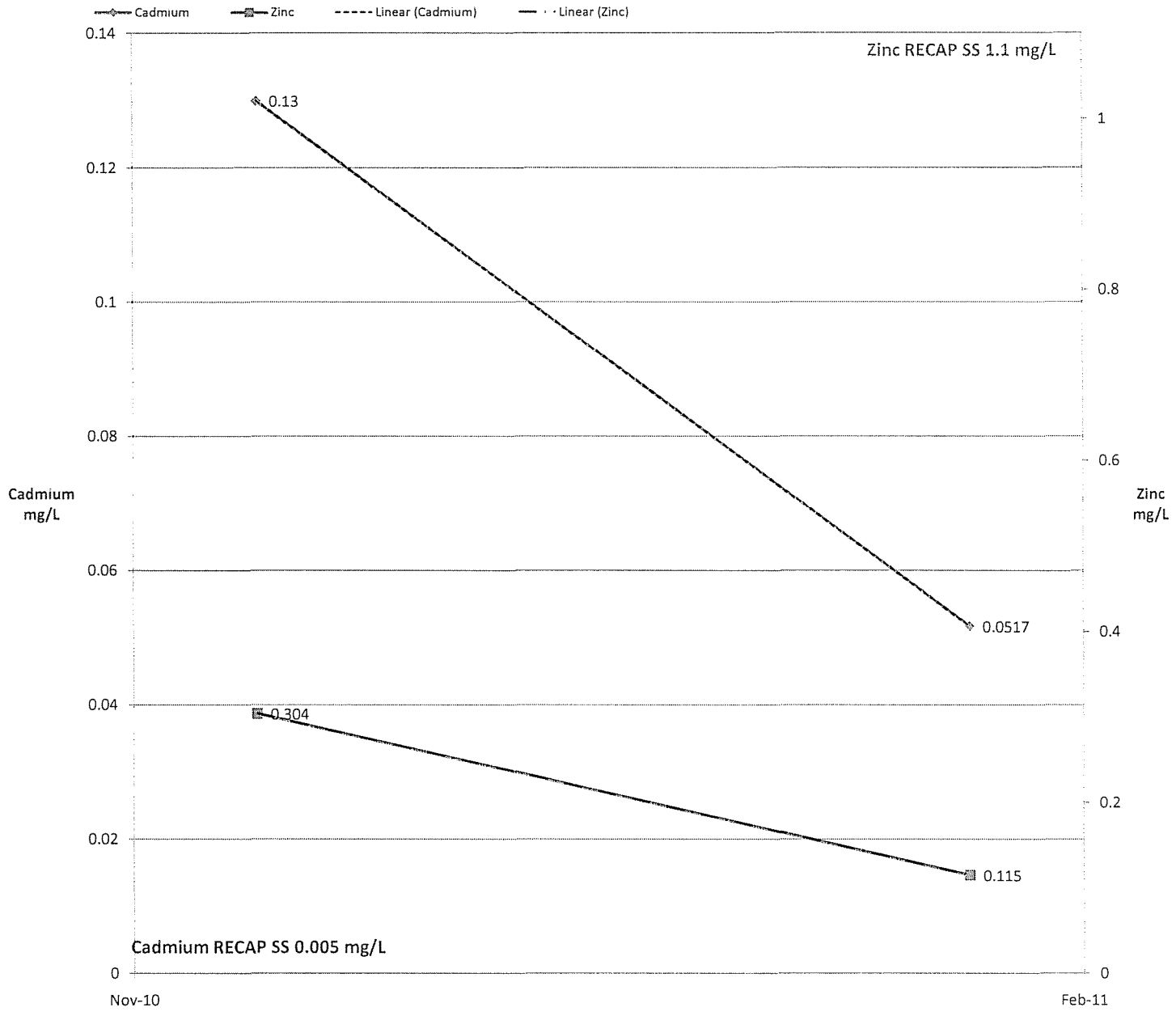


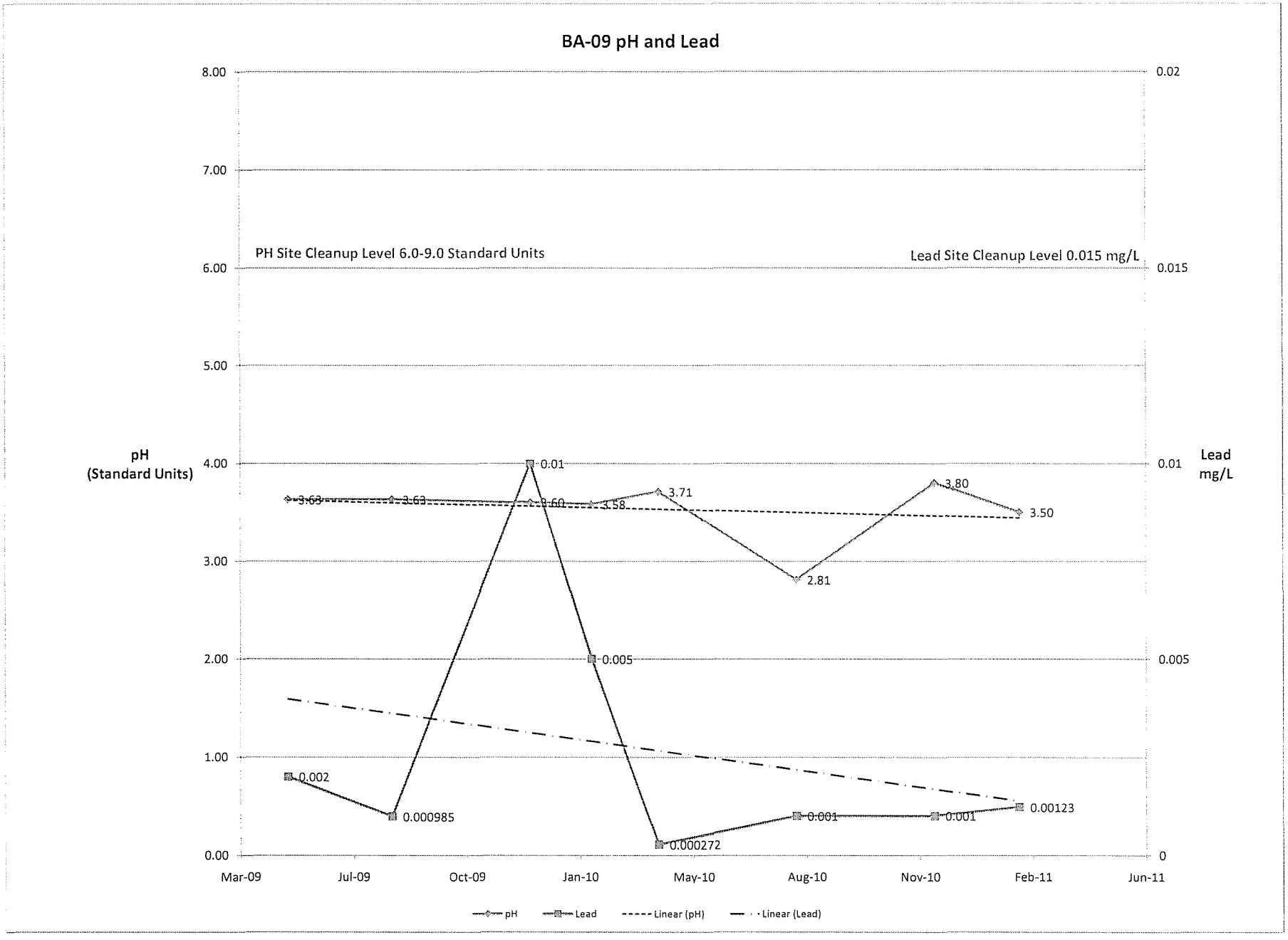

BA-03 pH and Lead
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
pH
(Standard Units)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Lead
mg/L
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
3.98
3.11
4.63
4.52
4.58
3.85
3.46
4.13
0.129
0.346
0.0329
0.146
0.144
0.0827
0.111
0.0321
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

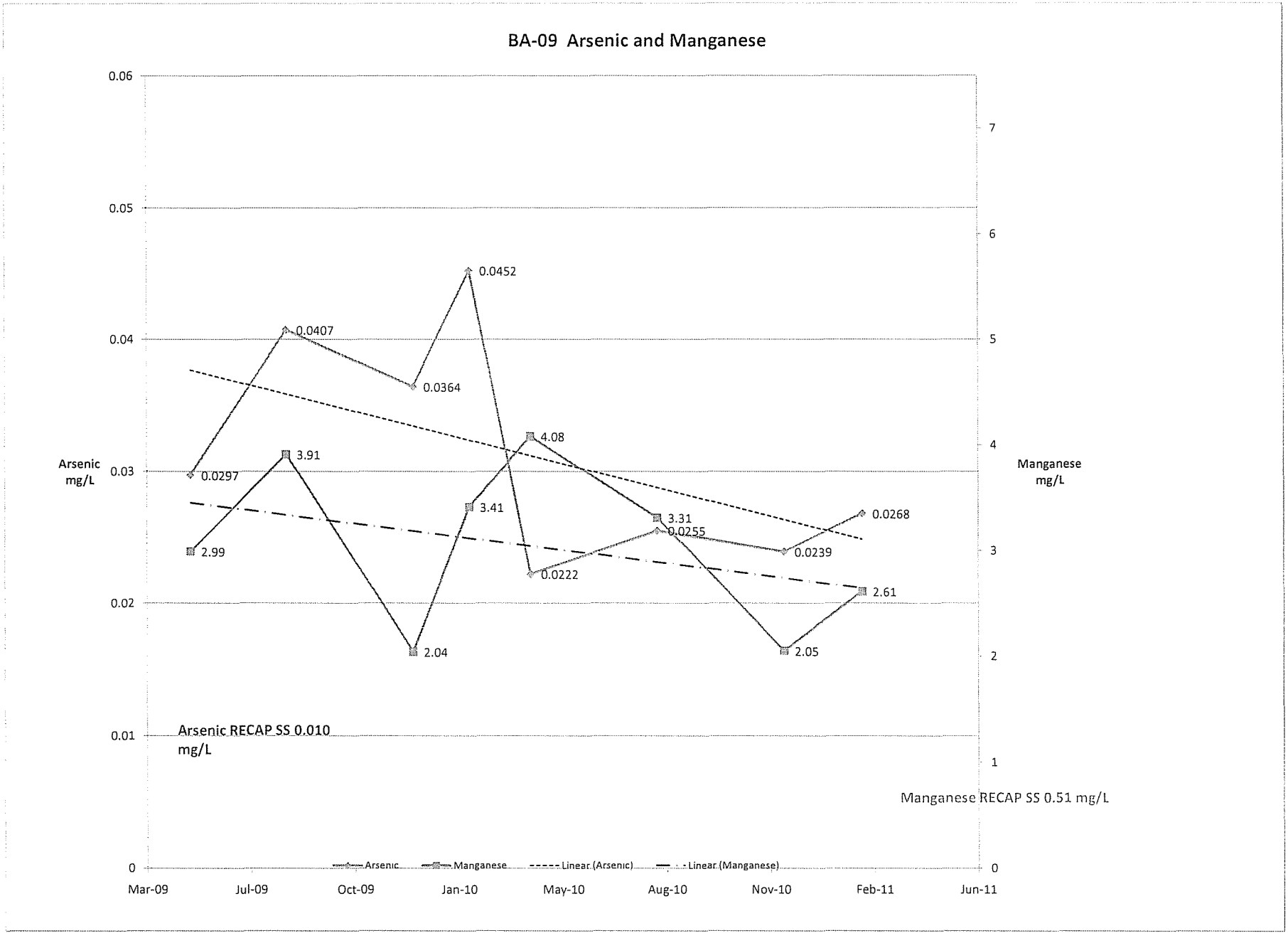

BA-03 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
6
5
4
3
2
1
0
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
0.01
0.0105
0.02
0.015
0.004
0.004
0.01
0.004
1.95
4.55
0.755
2.2
2.23
1.55
2.14
0.674
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

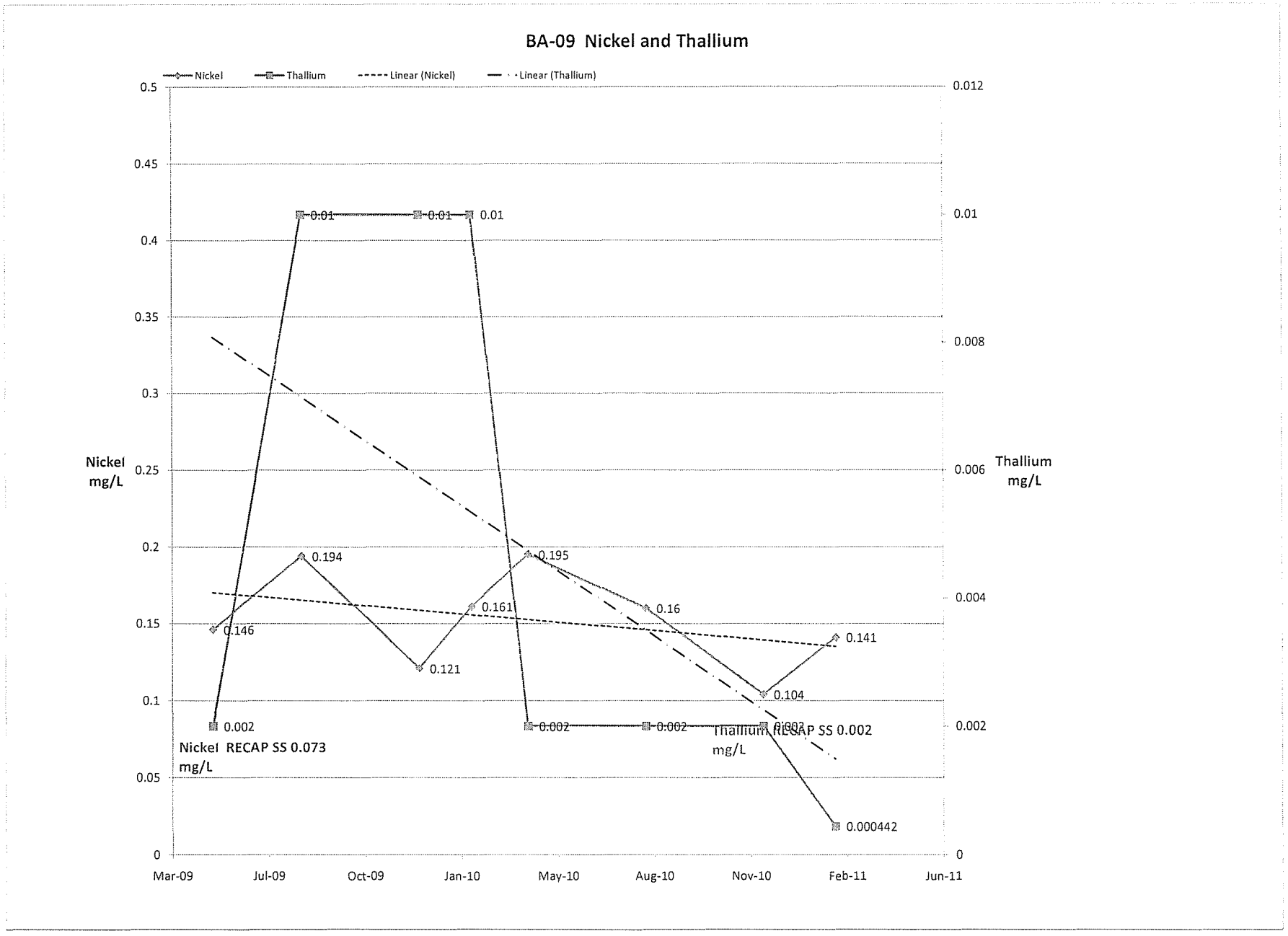

BA-03 Nickel and Thallium
Nickel mg/L
Thallium mg/L
0.188
0.002
0.00195
0.002
0.002
0.002
0.002
0.0742
0.0898
0.0899
0.0612
0.0671
0.000599
0.0321
0.000412
0.024
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.0005
0.001
0.0015
0.002
0.0025
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

BA-03 Cadmium and Zinc

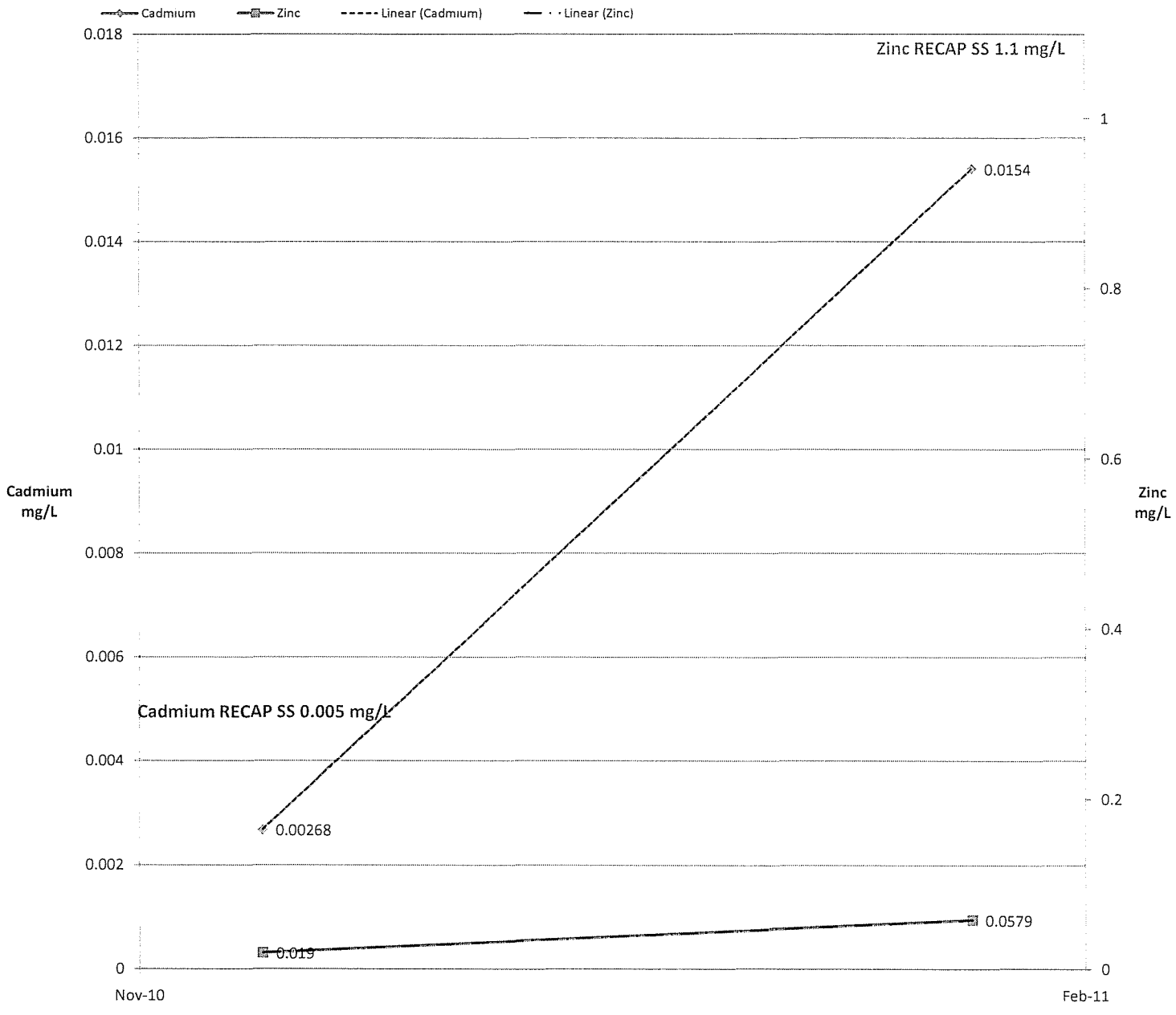



BA-09 pH and Lead
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
pH (Standard Units)
Lead mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.02
0.015
0.01
0.005
0
3.68
3.63
3.60
3.58
3.71
2.81
3.80
3.50
0.01
0.005
0.002
0.000985
0.000272
0.001
0.001
0.00123
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)


BA-09 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
0.06
0.05
0.04
0.03
0.02
0.01
0
7
6
5
4
3
2
1
0
0.0452
0.0407
0.0364
0.0297
3.91
4.08
3.41
3.31
0.0268
0.0255
0.0239
2.99
0.0222
2.61
2.04
2.05
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

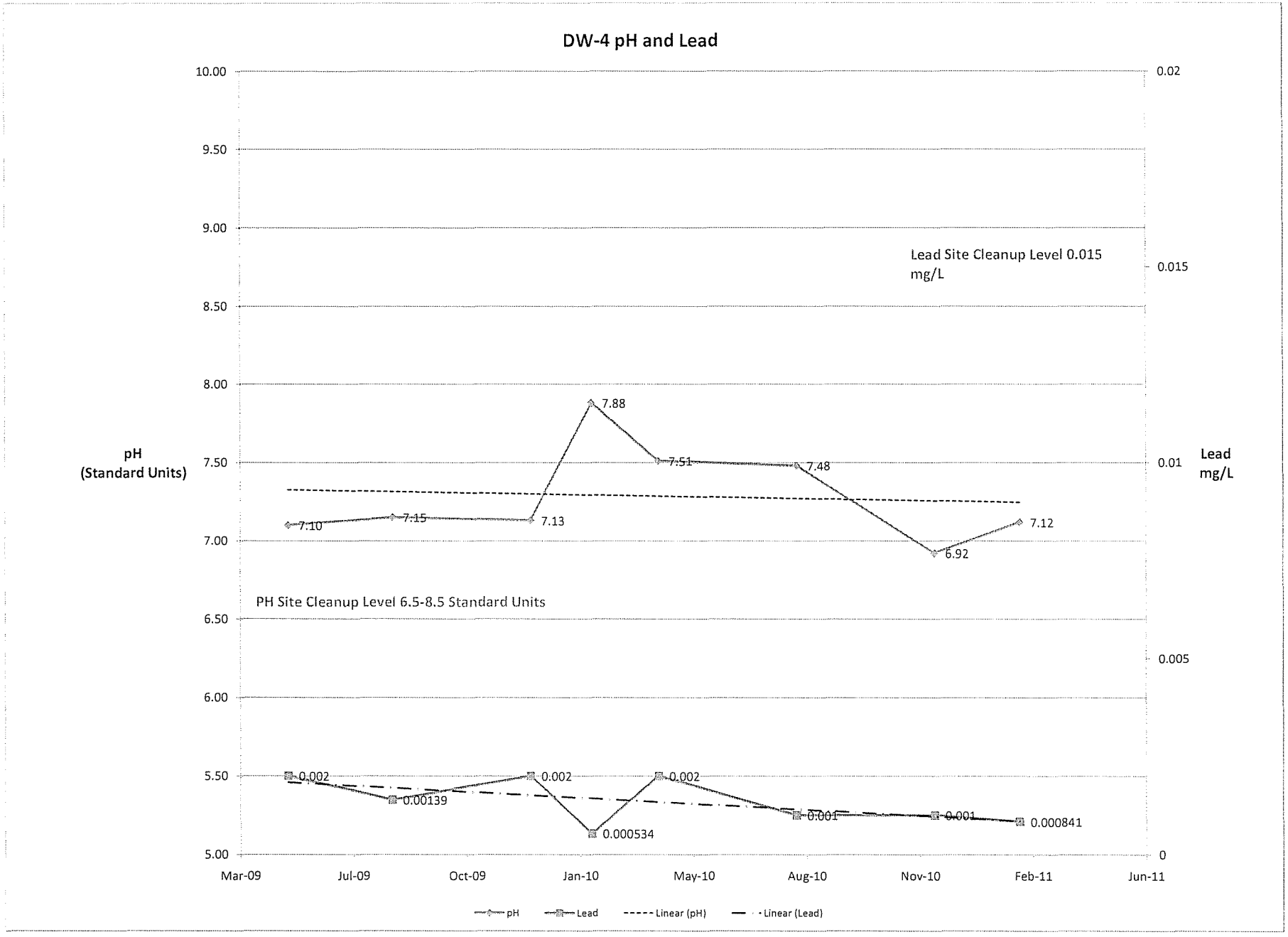

BA-09 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Nickel mg/L
Thallium mg/L
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0.012
0.01
0.008
0.006
0.004
0.002
0
0.01
0.01
0.01
0.194
0.195
0.161
0.16
0.146
0.121
0.104
0.141
0.002
0.002
0.002
0.002
0.000442
Nickel RECAP SS 0.073 mg/L
Thallium RECAP SS 0.002 mg/L
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

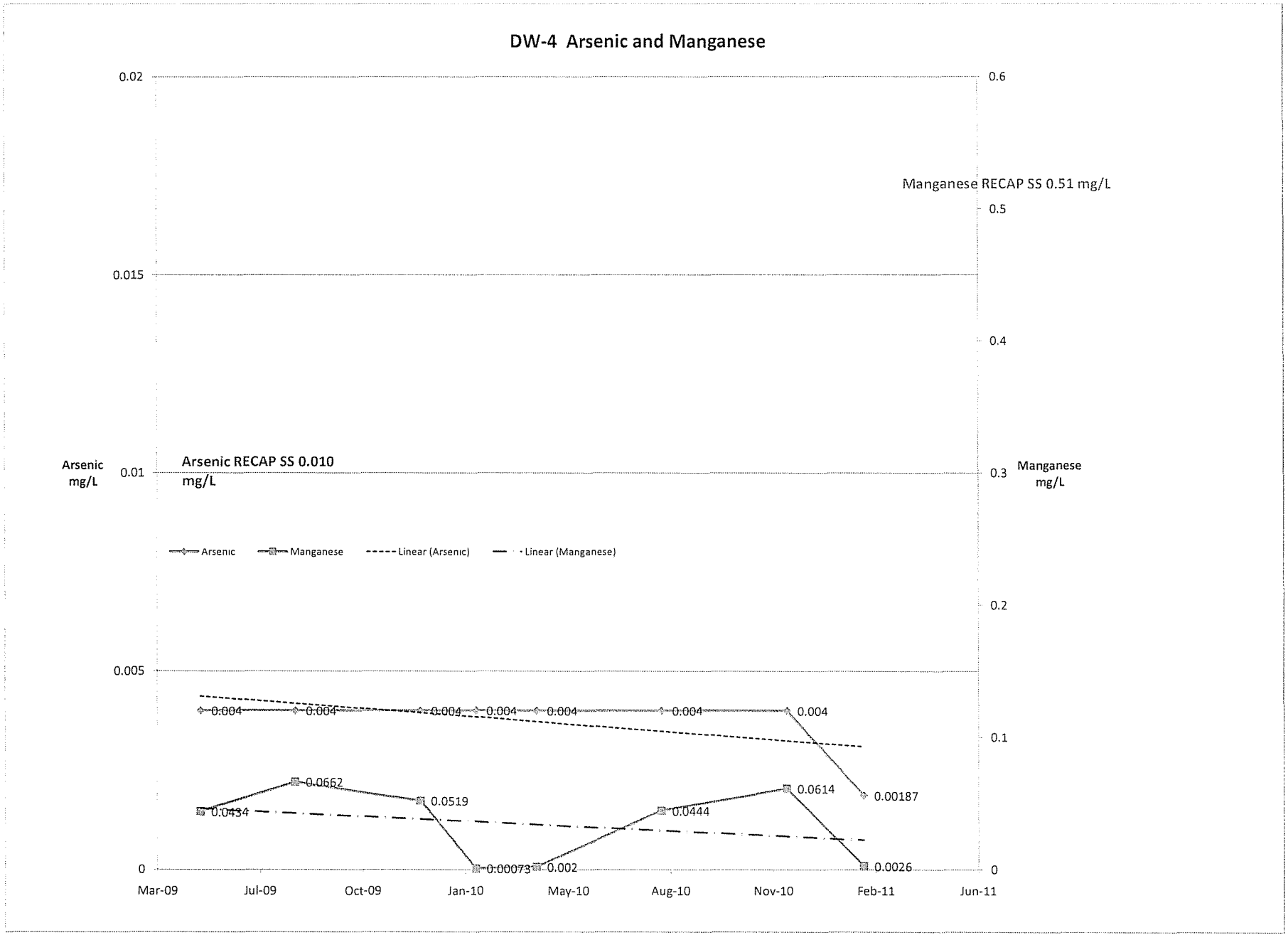
BA-09 Cadmium and Zinc

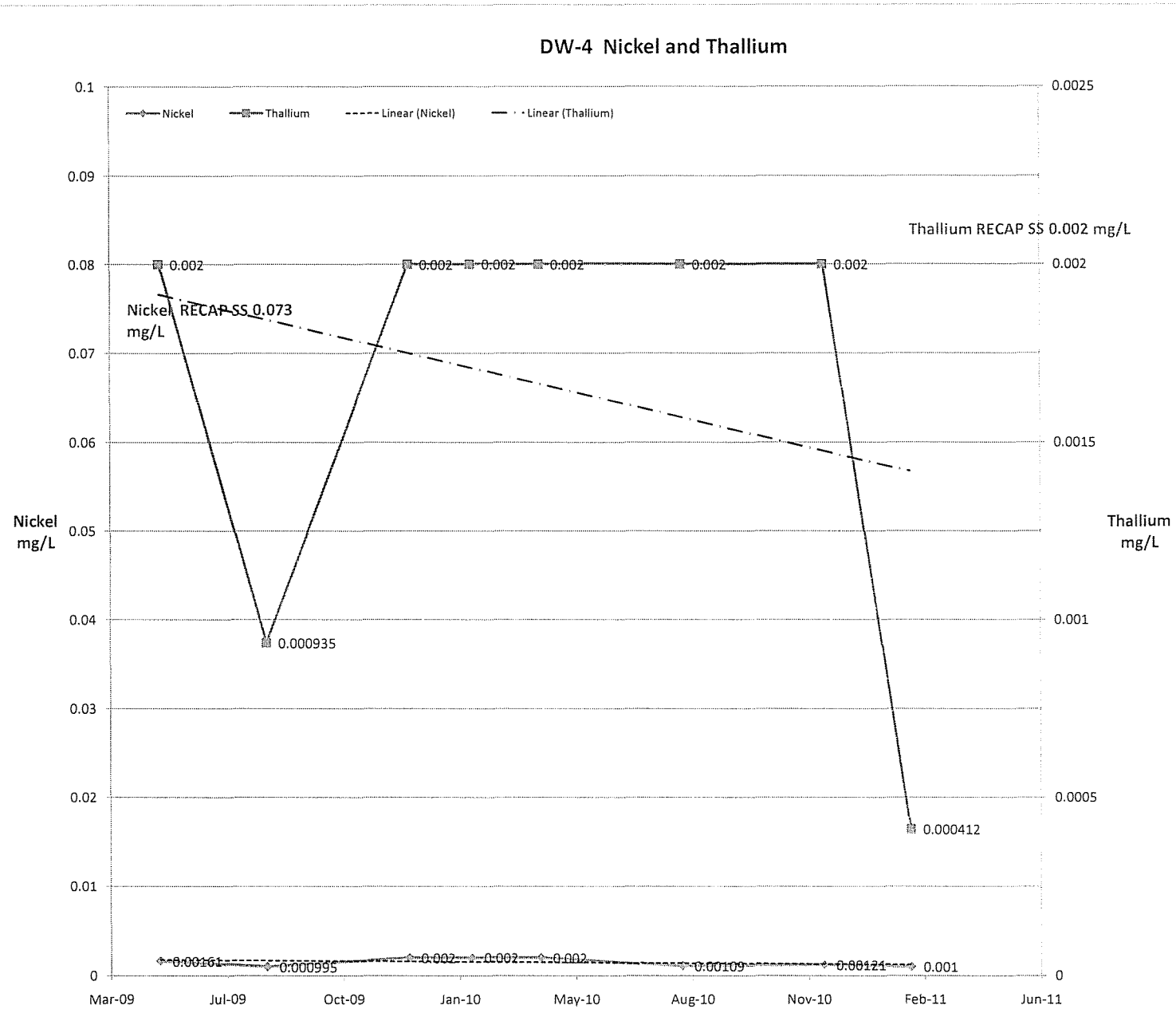


SECOND WATER BEARING ZONE

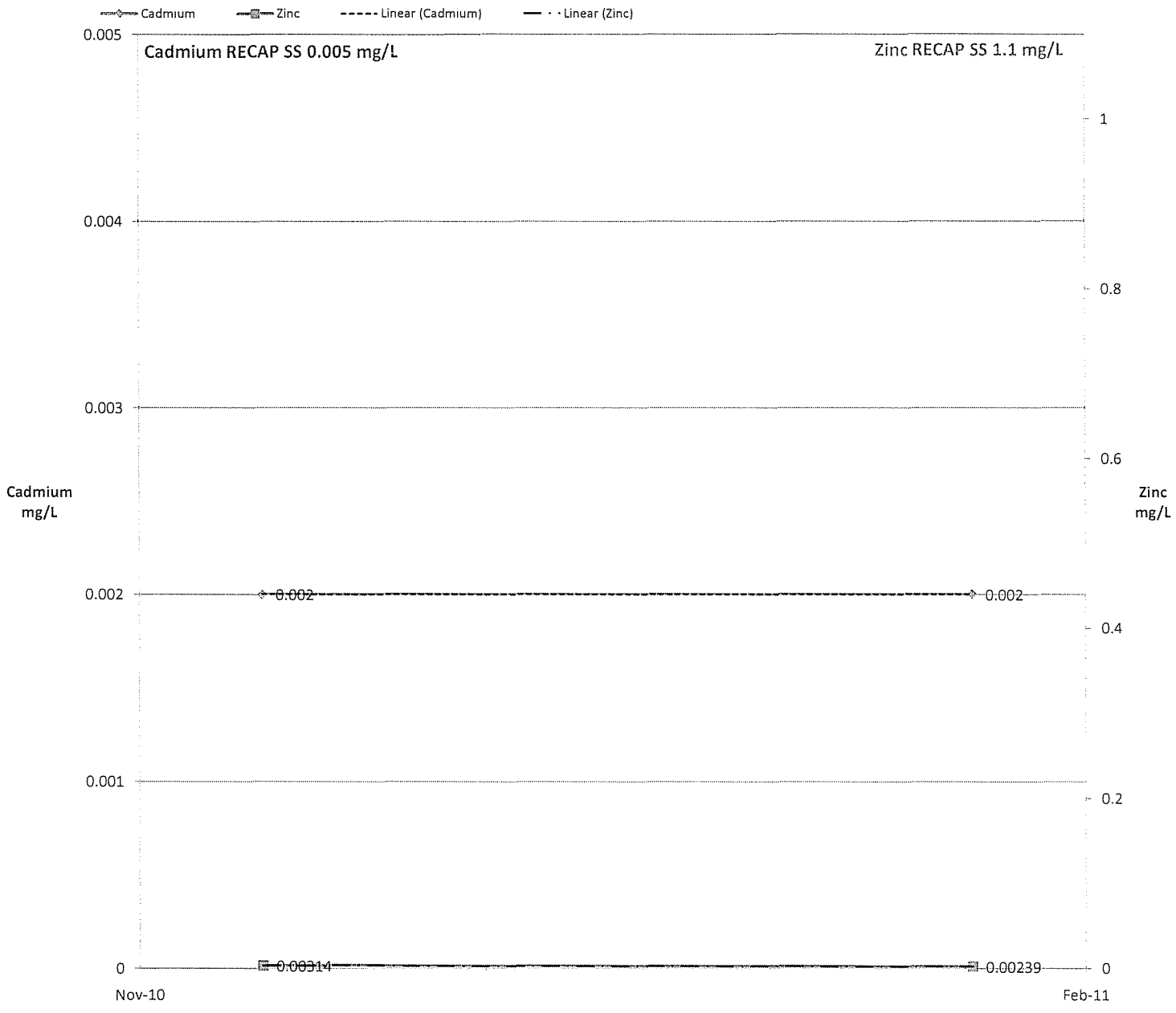
(PAST EIGHT QUARTERS)

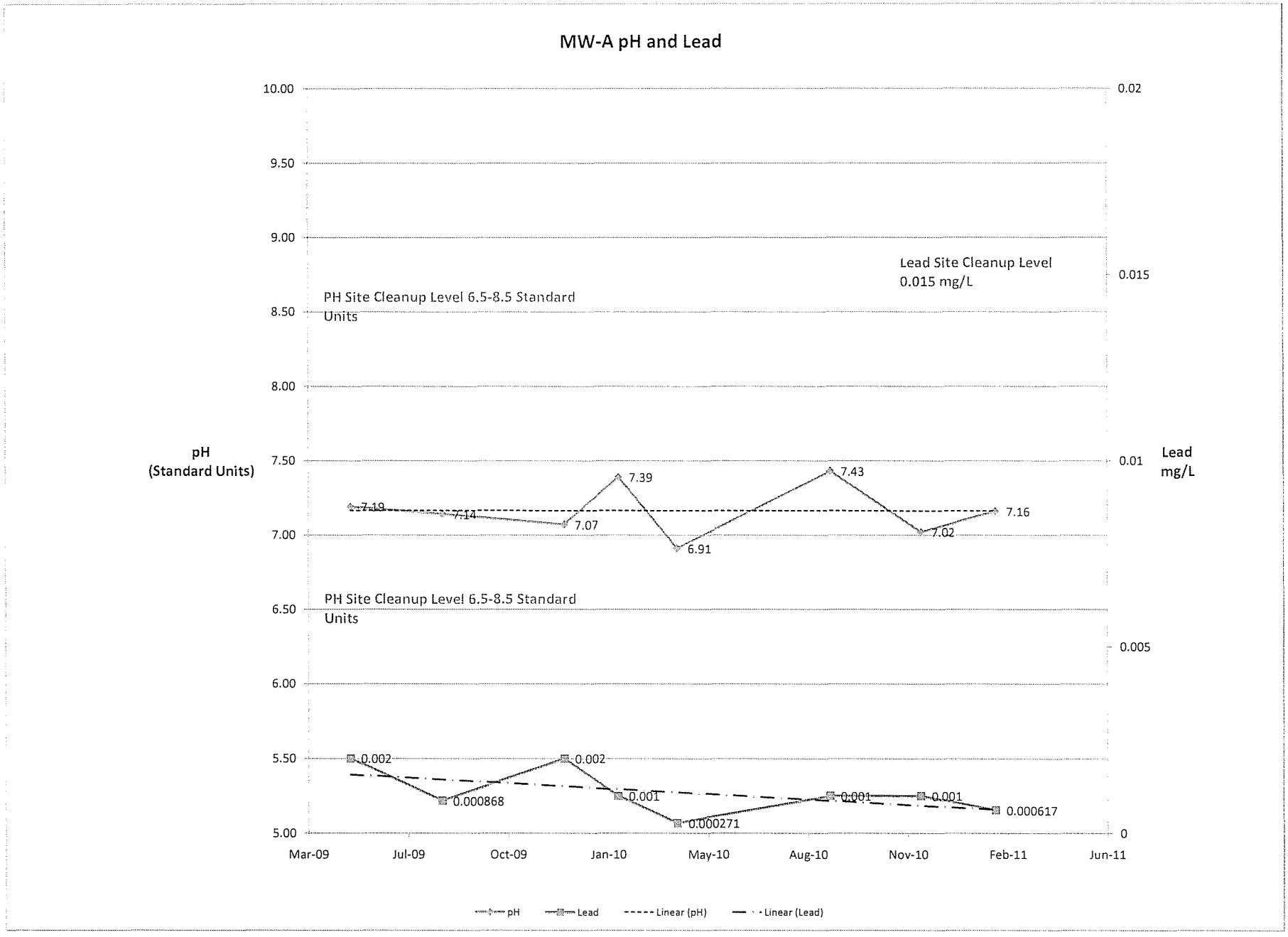

DW-4 pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
pH
(Standard Units)
0.02
0.015
0.01
0.005
0
Lead
mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
7.10
7.15
7.13
7.88
7.51
7.48
6.92
7.12
0.002
0.00139
0.002
0.000534
0.002
0.001
0.001
0.000841
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

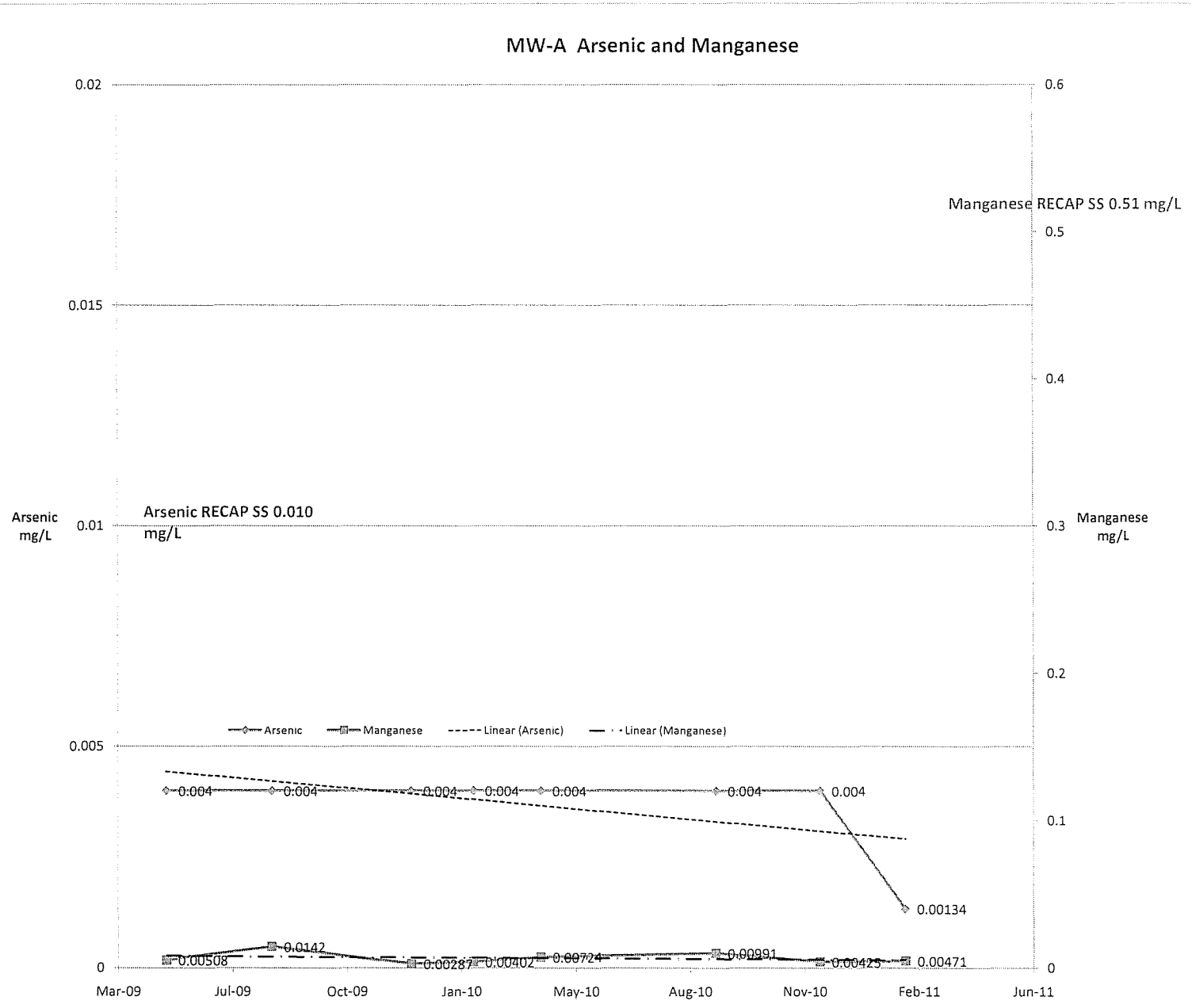

DW-4 Arsenic and Manganese
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.004
0.004
0.004
0.004
0.004
0.004
0.004
0.00187
0.0434
0.0662
0.0519
0.00073
0.002
0.0444
0.0614
0.0026
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

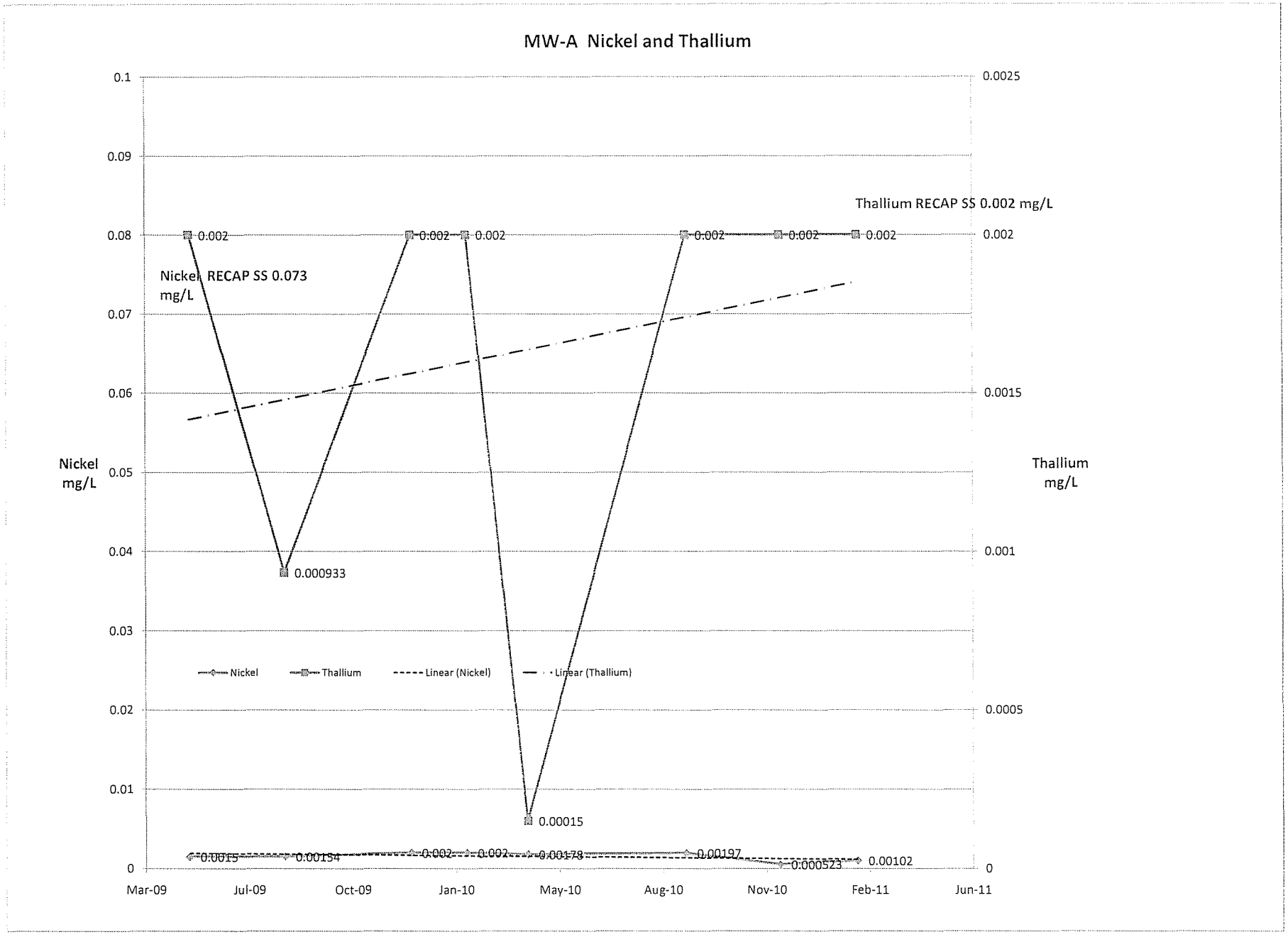

DW-4 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000935
0.000412
0.00161
0.000995
0.00109
0.00121
0.001
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

DW-4 Cadmium and Zinc

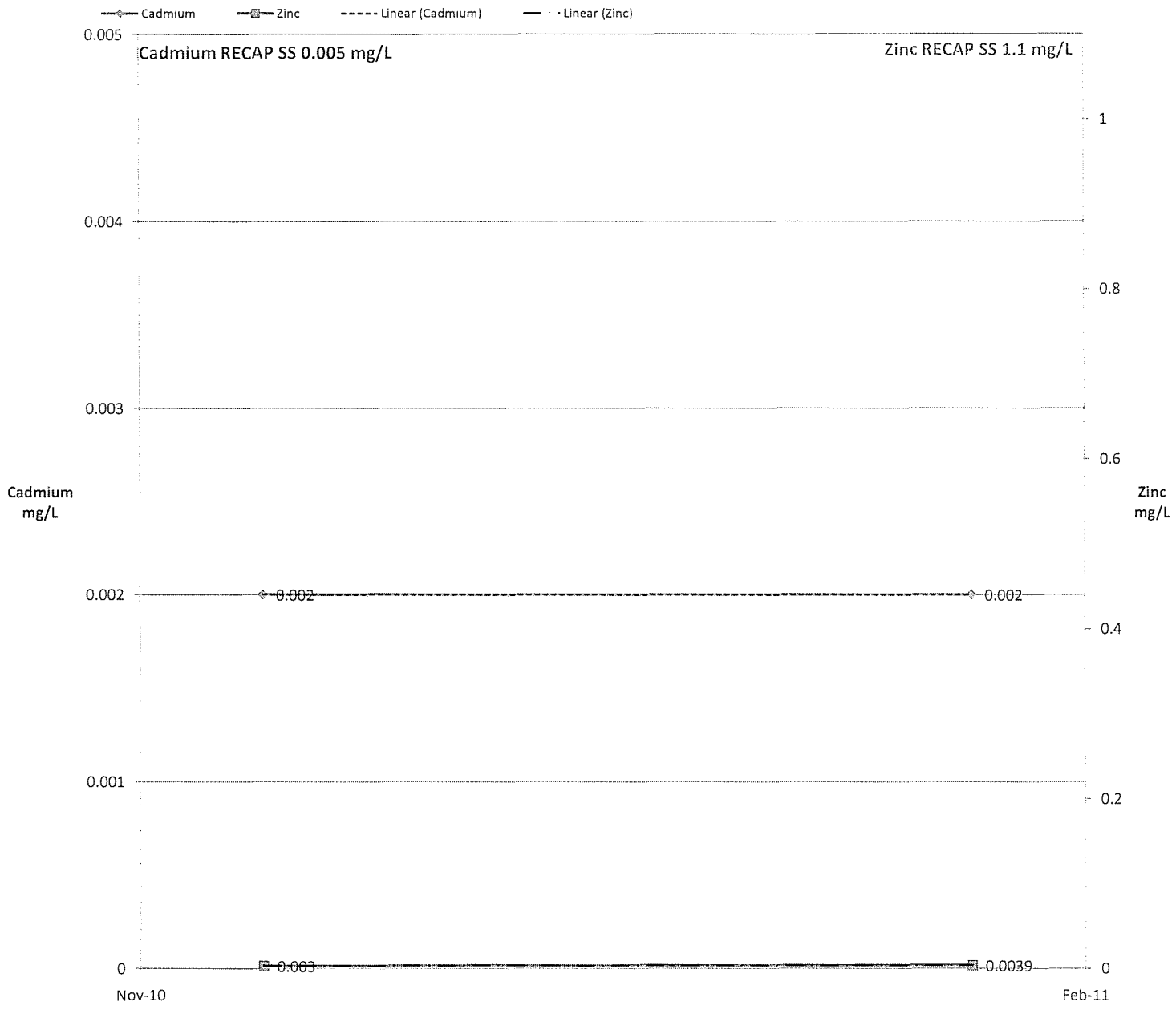


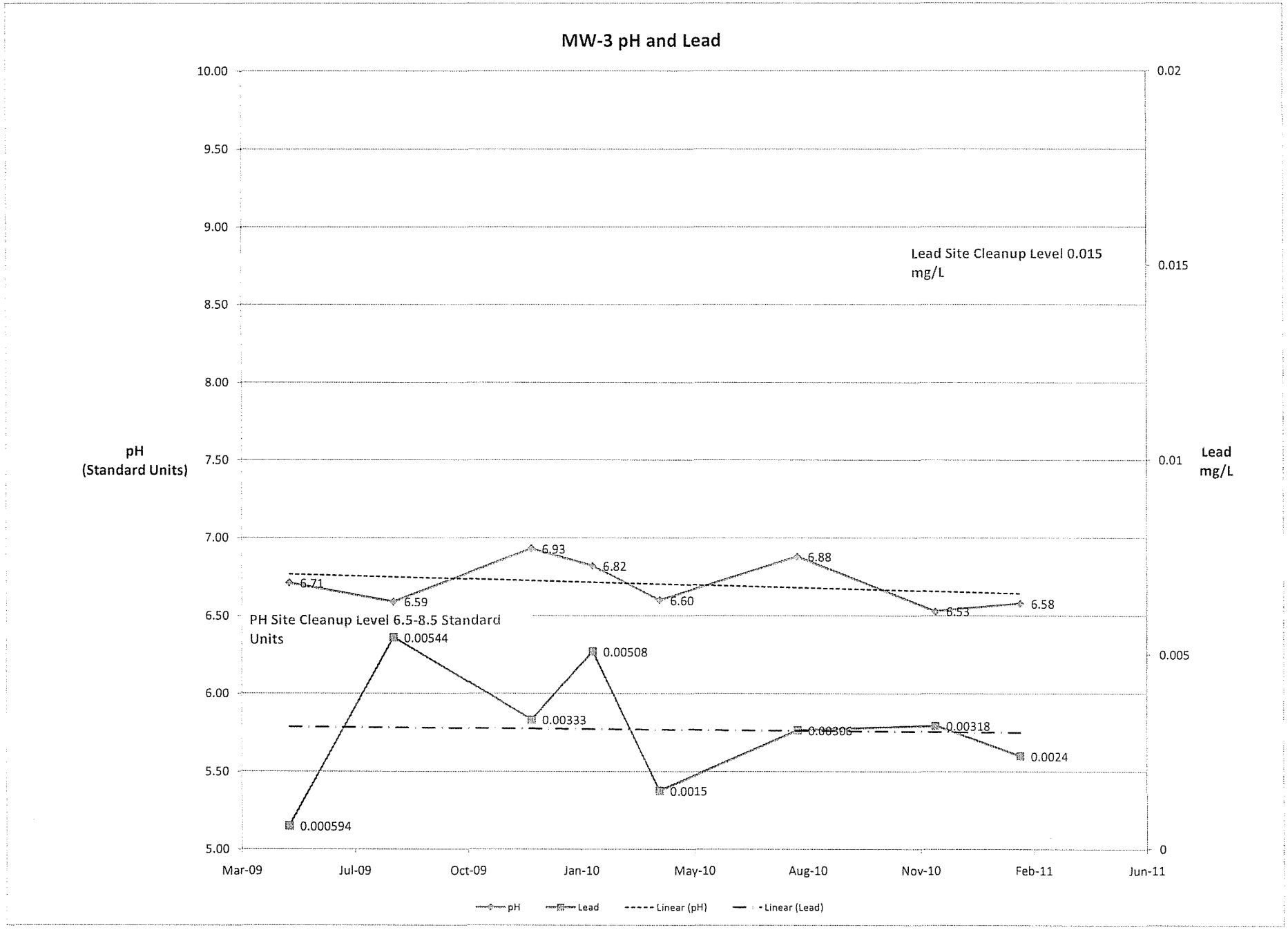

MW-A pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
pH
(Standard Units)
Lead
mg/L
Lead Site Cleanup Level
0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard
Units
PH Site Cleanup Level 6.5-8.5 Standard
Units
7.19
7.14
7.07
7.39
6.91
7.43
7.02
7.16
0.002
0.000868
0.002
0.001
0.000271
0.001
0.001
0.000617
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

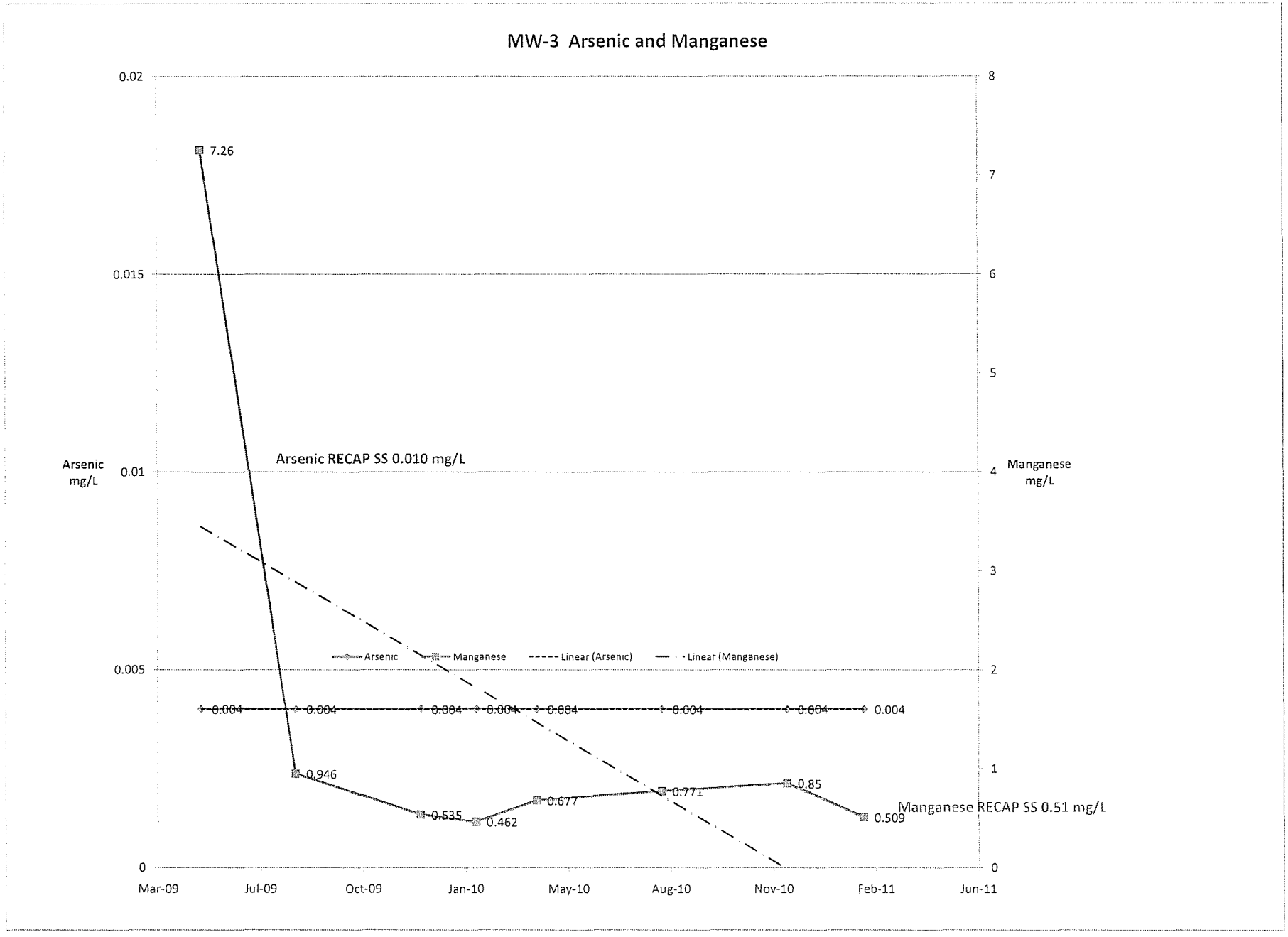

MW-A Arsenic and Manganese
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.004
0.004
0.004
0.004
0.004
0.004
0.004
0.00134
0.00508
0.0142
0.00287
0.00402
0.00724
0.00991
0.00425
0.00471
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

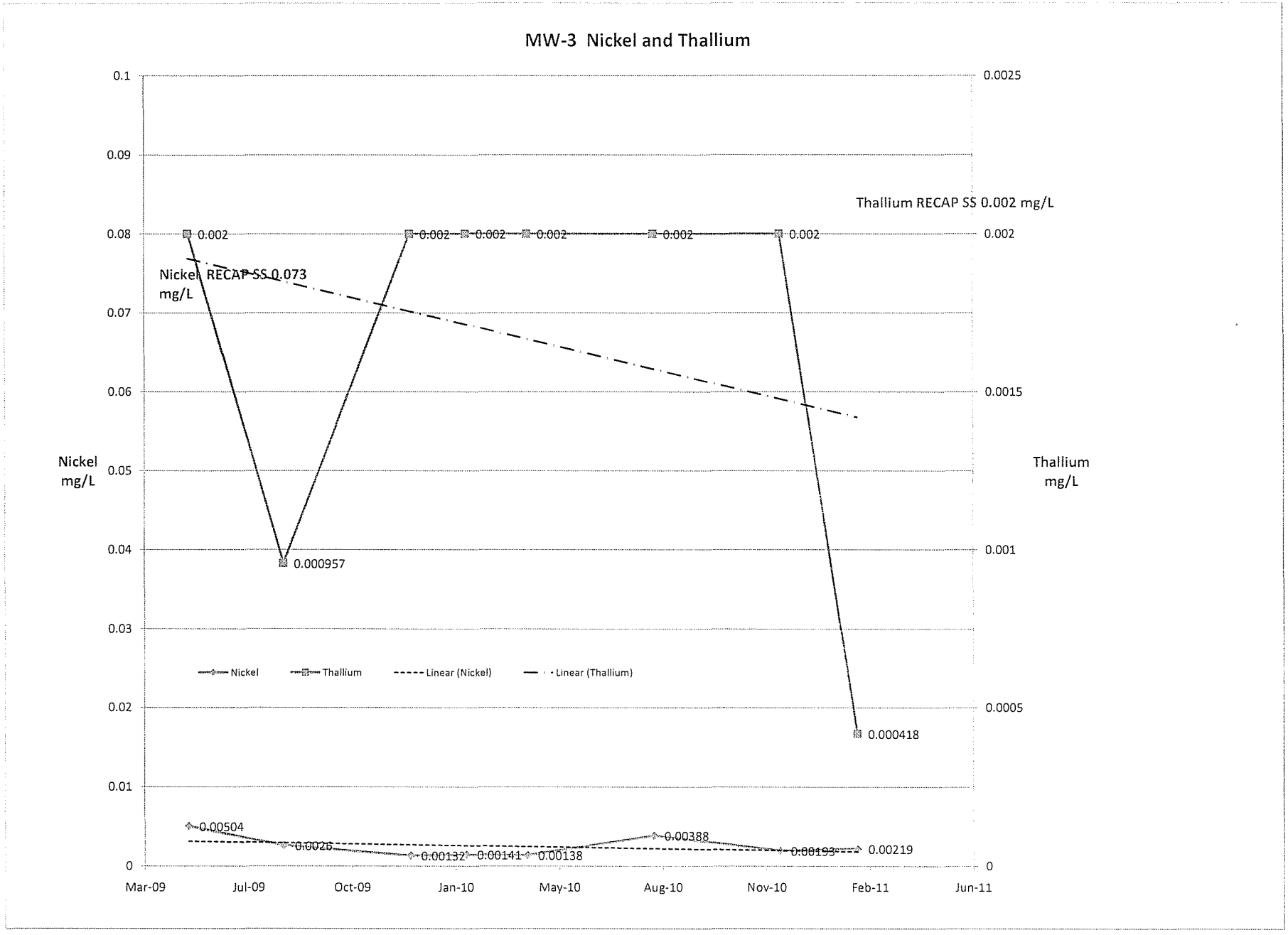

MW-A Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.002
0.002
0.002
0.002
0.002
0.000933
0.00015
0.0015
0.00154
0.002
0.002
0.00178
0.00197
0.000523
0.00102
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

MW-A Cadmium and Zinc

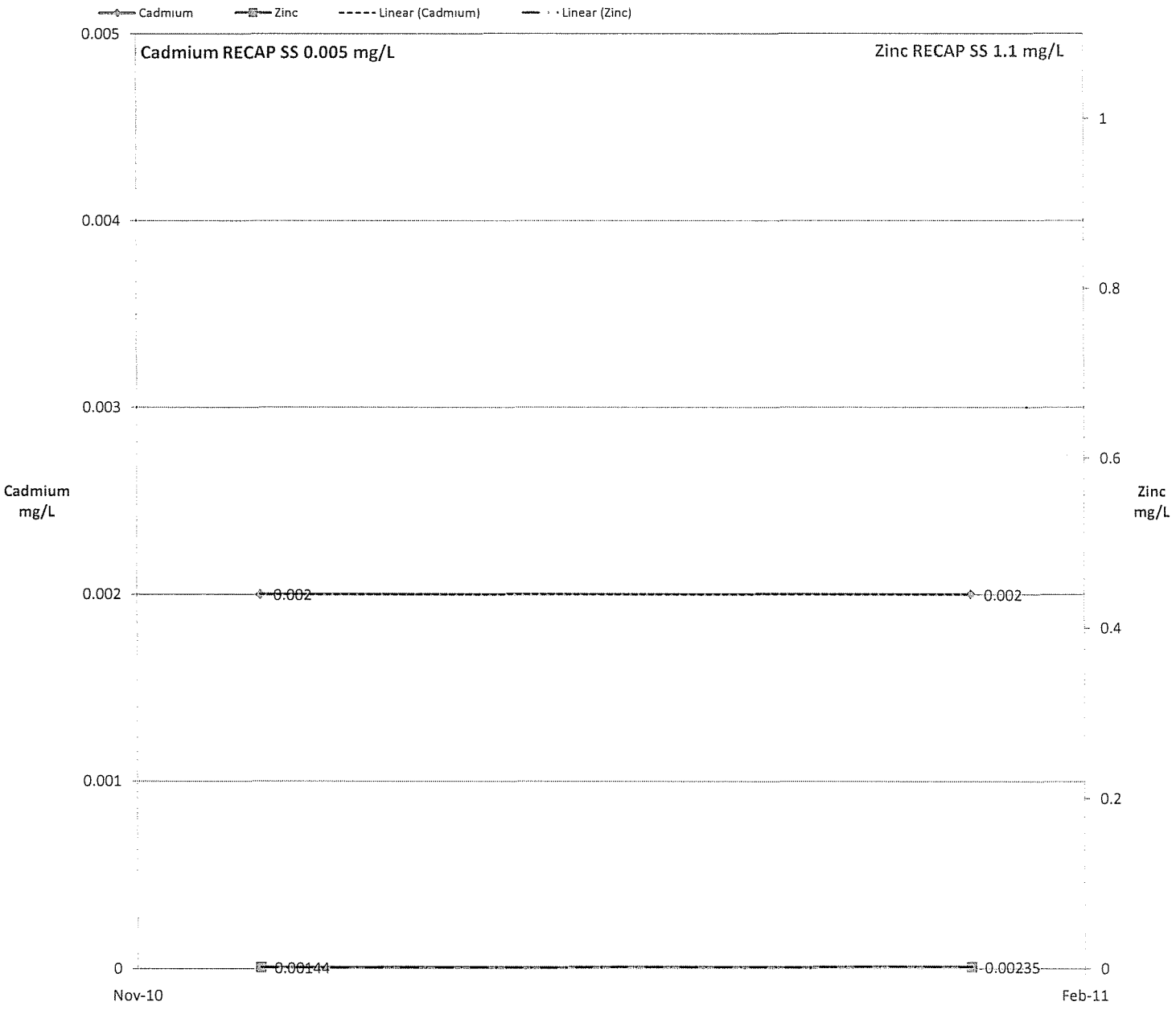


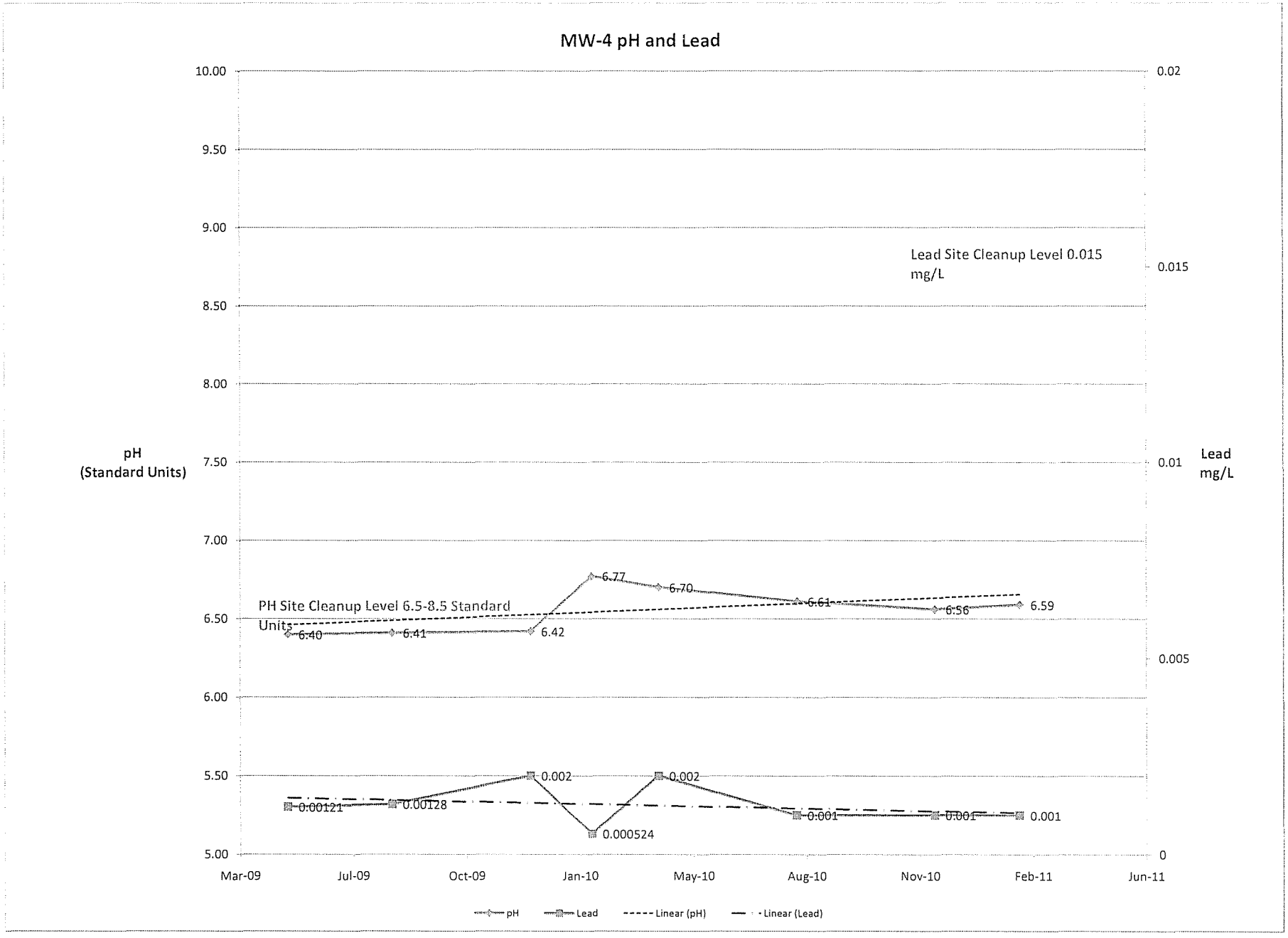

MW-3 pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
pH
(Standard Units)
0.02
0.015
0.01
0.005
0
Lead
mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
6.71
6.59
6.93
6.82
6.60
6.88
6.53
6.58
0.000594
0.00544
0.00333
0.00508
0.0015
0.00306
0.00318
0.0024
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

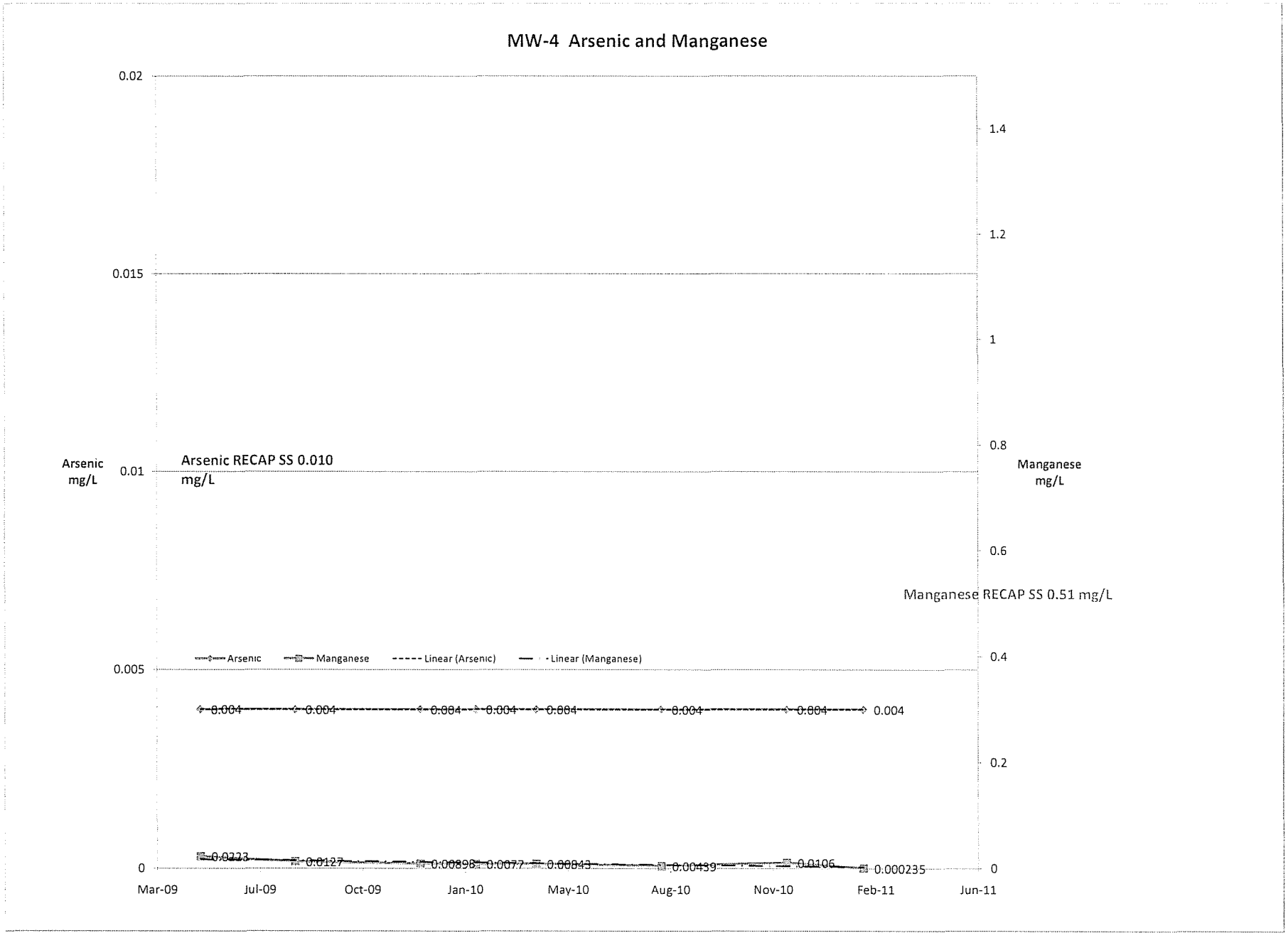

MW-3 Arsenic and Manganese
0.02
0.015
0.01
0.005
0
8
7
6
5
4
3
2
1
0
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
7.26
0.946
0.535
0.462
0.677
0.771
0.85
0.509
0.004
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

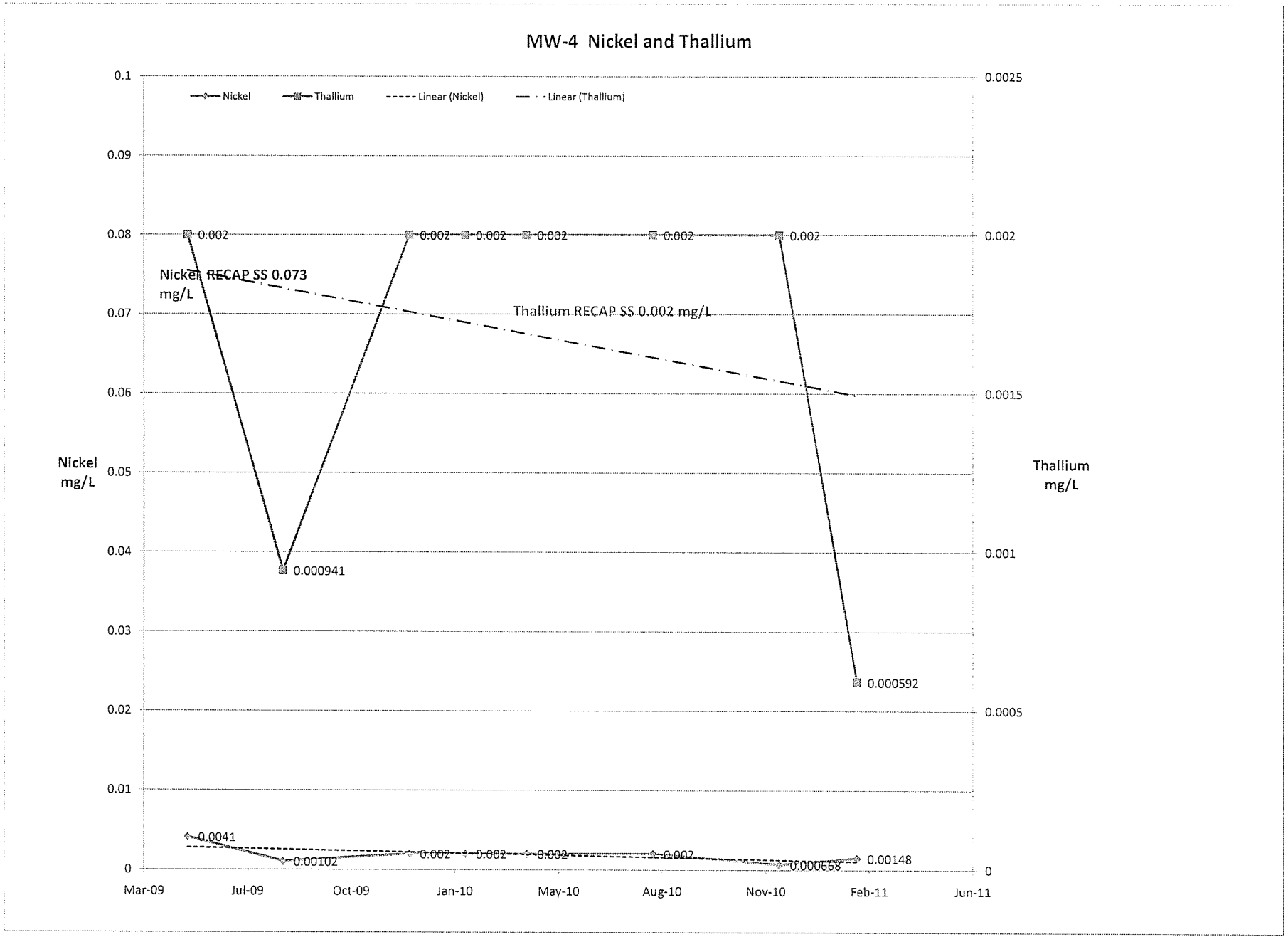

MW-3 Nickel and Thallium
Nickel mg/L
Thallium mg/L
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.002
0.002
0.002
0.002
0.002
0.000957
0.000418
0.00504
0.0026
0.00132
0.00141
0.00138
0.00388
0.00193
0.00219
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

MW-3 Cadmium and Zinc

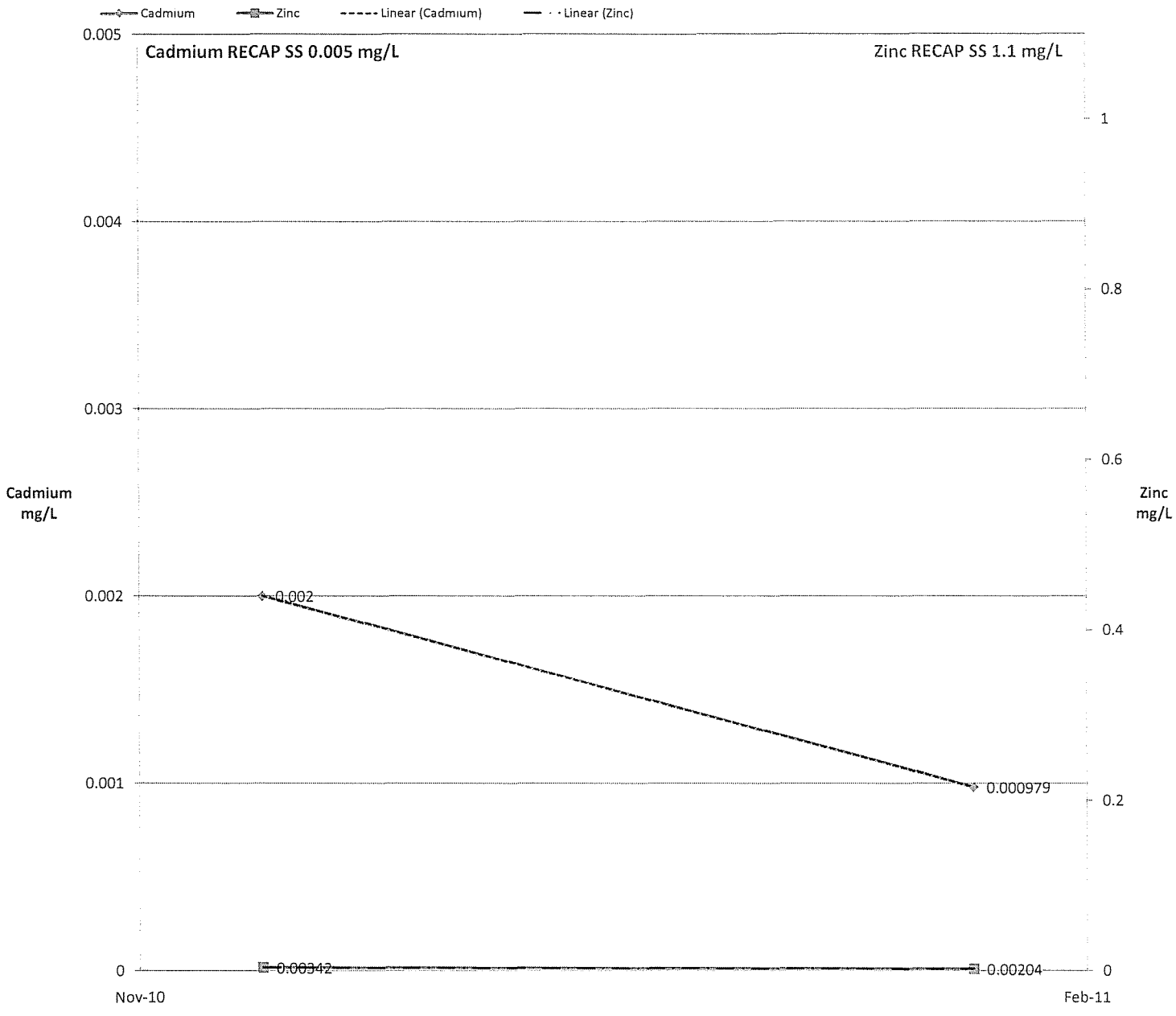


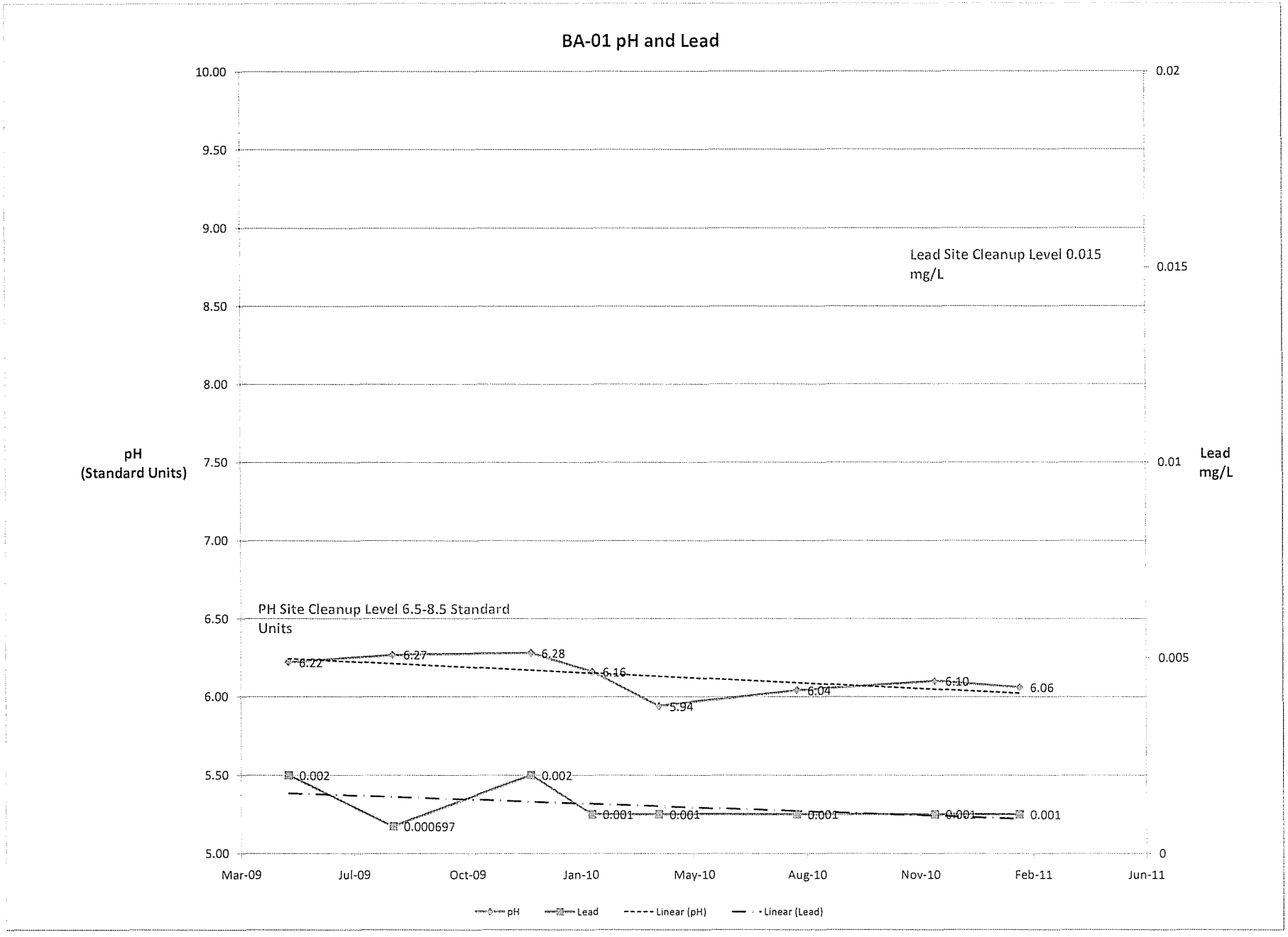

MW-4 pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
pH
(Standard Units)
0.02
0.015
0.01
0.005
0
Lead
mg/L
Lead Site Cleanup Level 0.015
mg/L
PH Site Cleanup Level 6.5-8.5 Standard
Units
6.40
6.41
6.42
6.77
6.70
6.61
6.56
6.59
0.00121
0.00128
0.002
0.000524
0.002
0.001
0.001
0.001
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

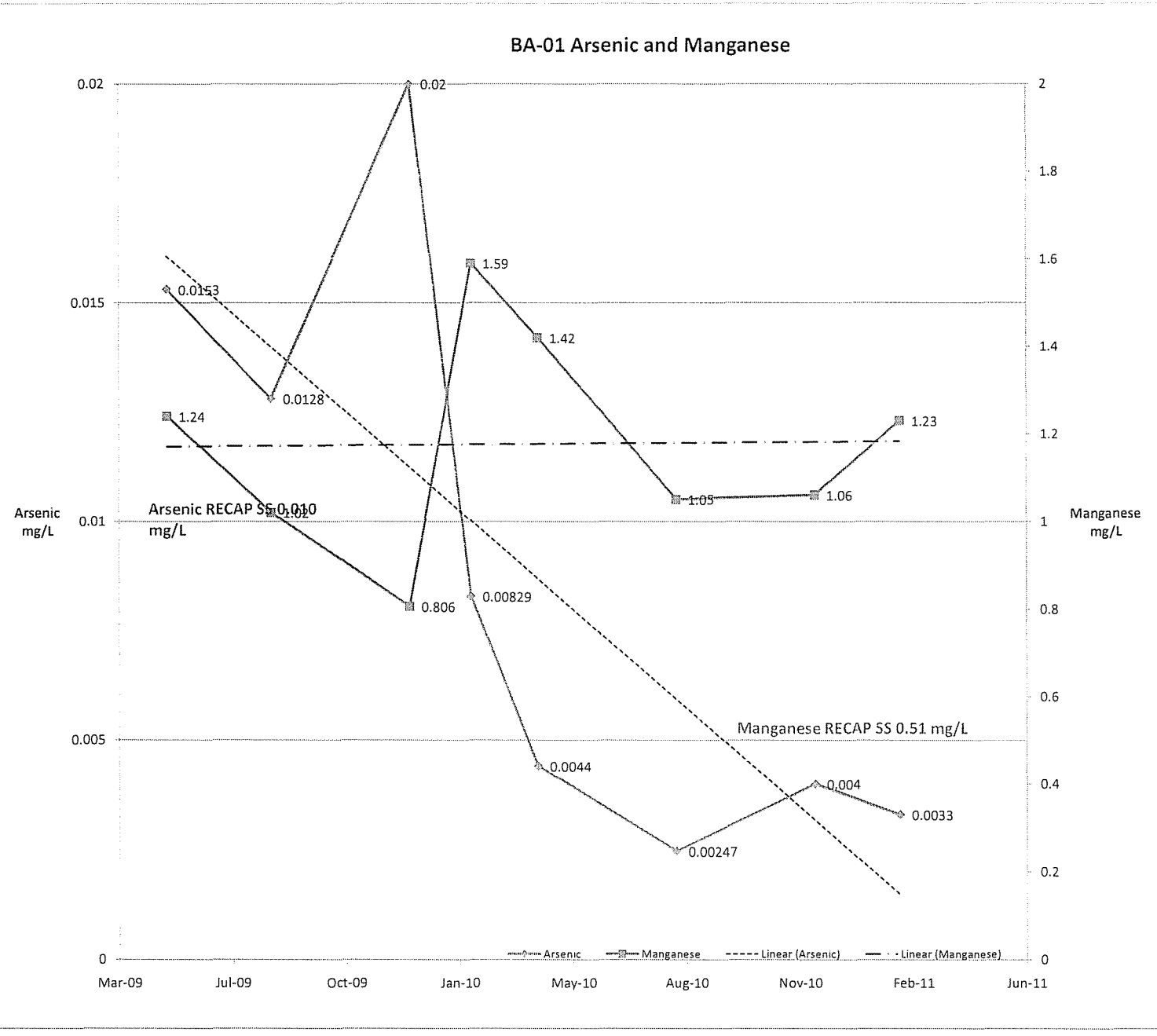

MW-4 Arsenic and Manganese
0.02
0.015
0.01
0.005
0
Arsenic mg/L
Arsenic RECAP SS 0.010 mg/L
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Manganese mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.004
0.0223
0.0127
0.00898
0.0077
0.00843
0.00439
0.0106
0.000235
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

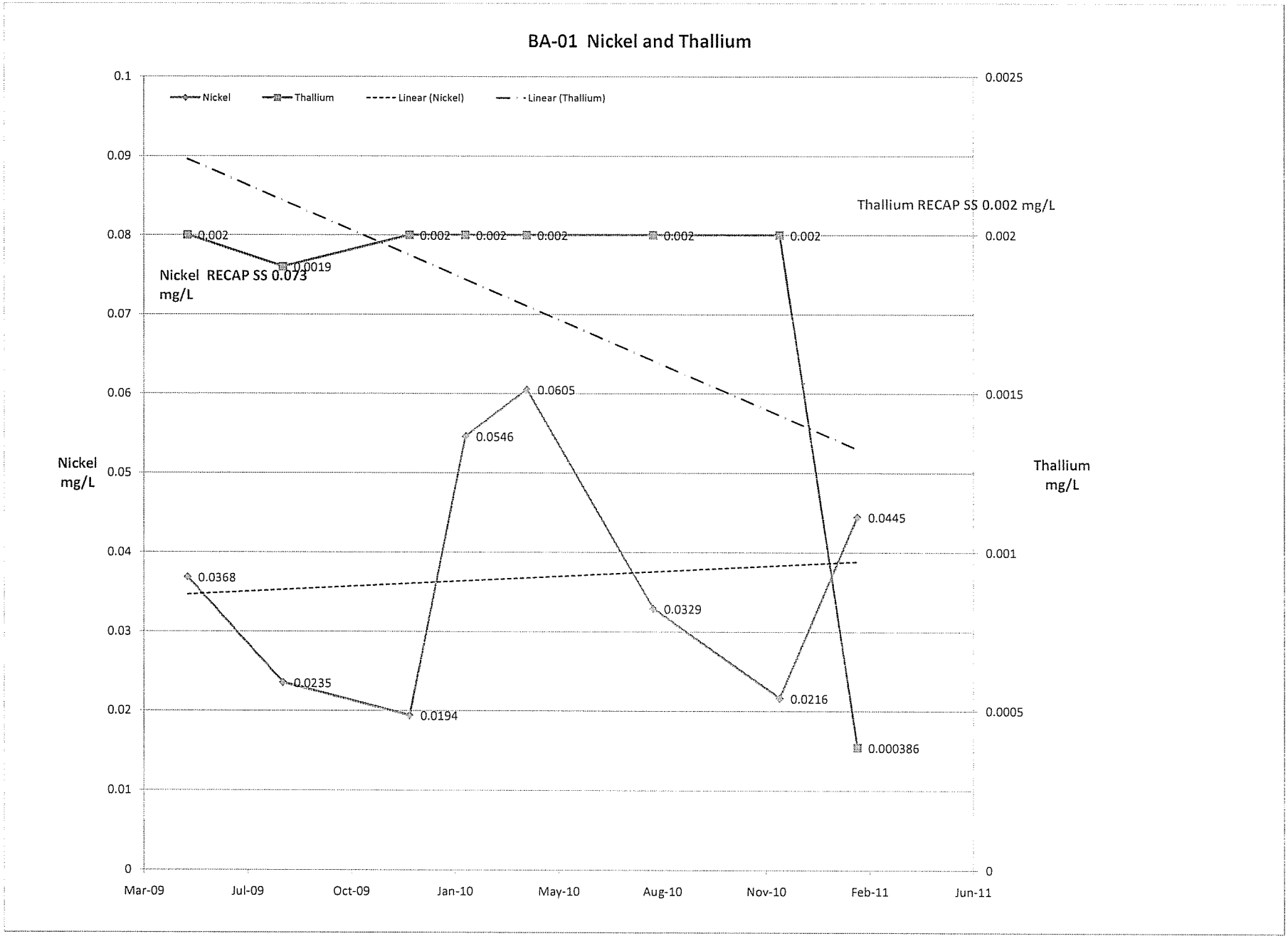

MW-4 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Nickel mg/L
Thallium mg/L
Nickel RECAP SS 0.073 mg/L
Thallium RECAP SS 0.002 mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.002
0.002
0.002
0.002
0.002
0.000941
0.000592
0.0041
0.00102
0.002
0.002
0.002
0.002
0.000668
0.00148
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

MW-4 Cadmium and Zinc

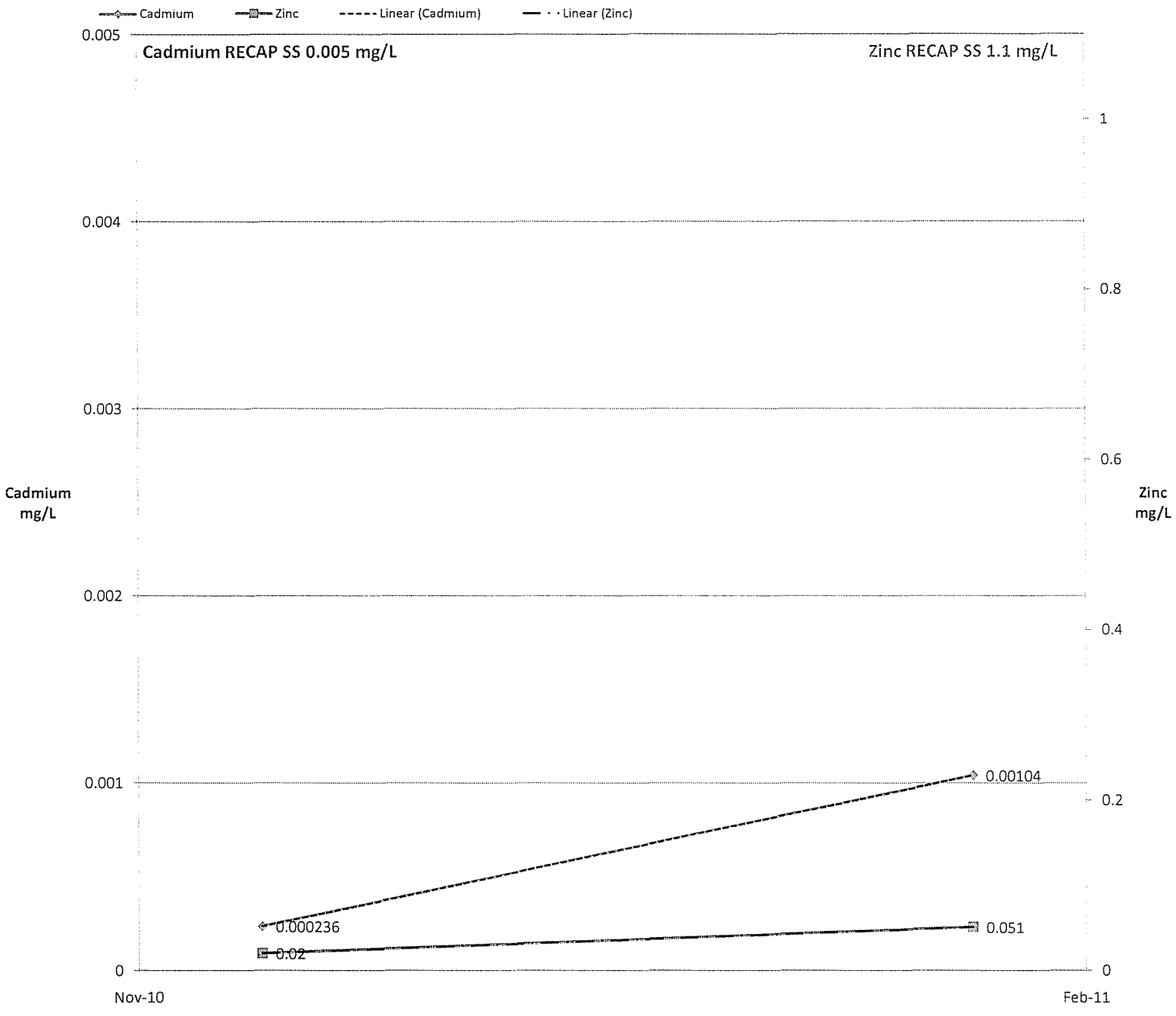


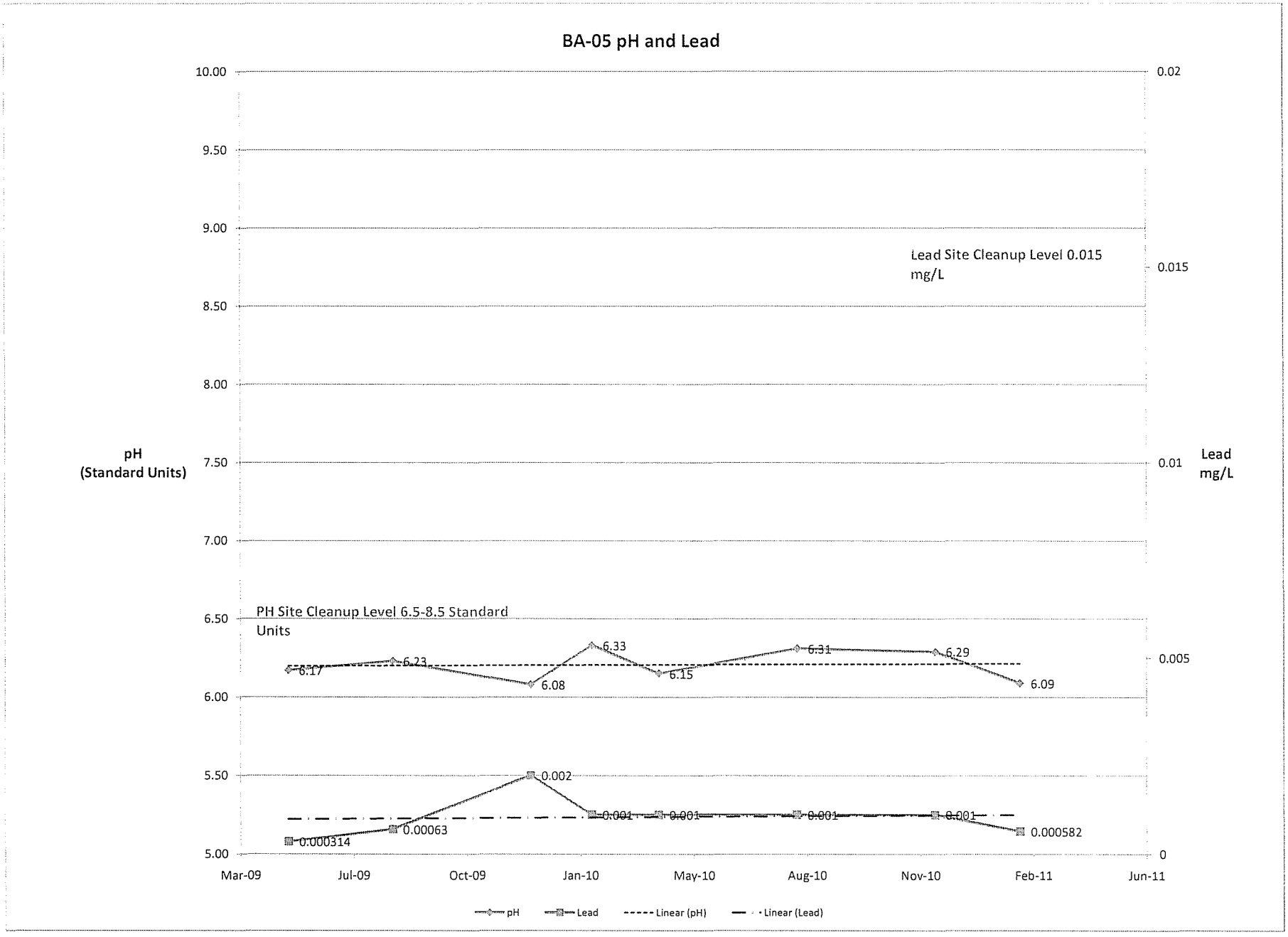

BA-01 pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
pH
(Standard Units)
0.02
0.015
0.01
0.005
0
Lead
mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
6.22
6.27
6.28
6.16
5.94
6.04
6.10
6.06
0.002
0.000697
0.002
0.001
0.001
0.001
0.001
0.001
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

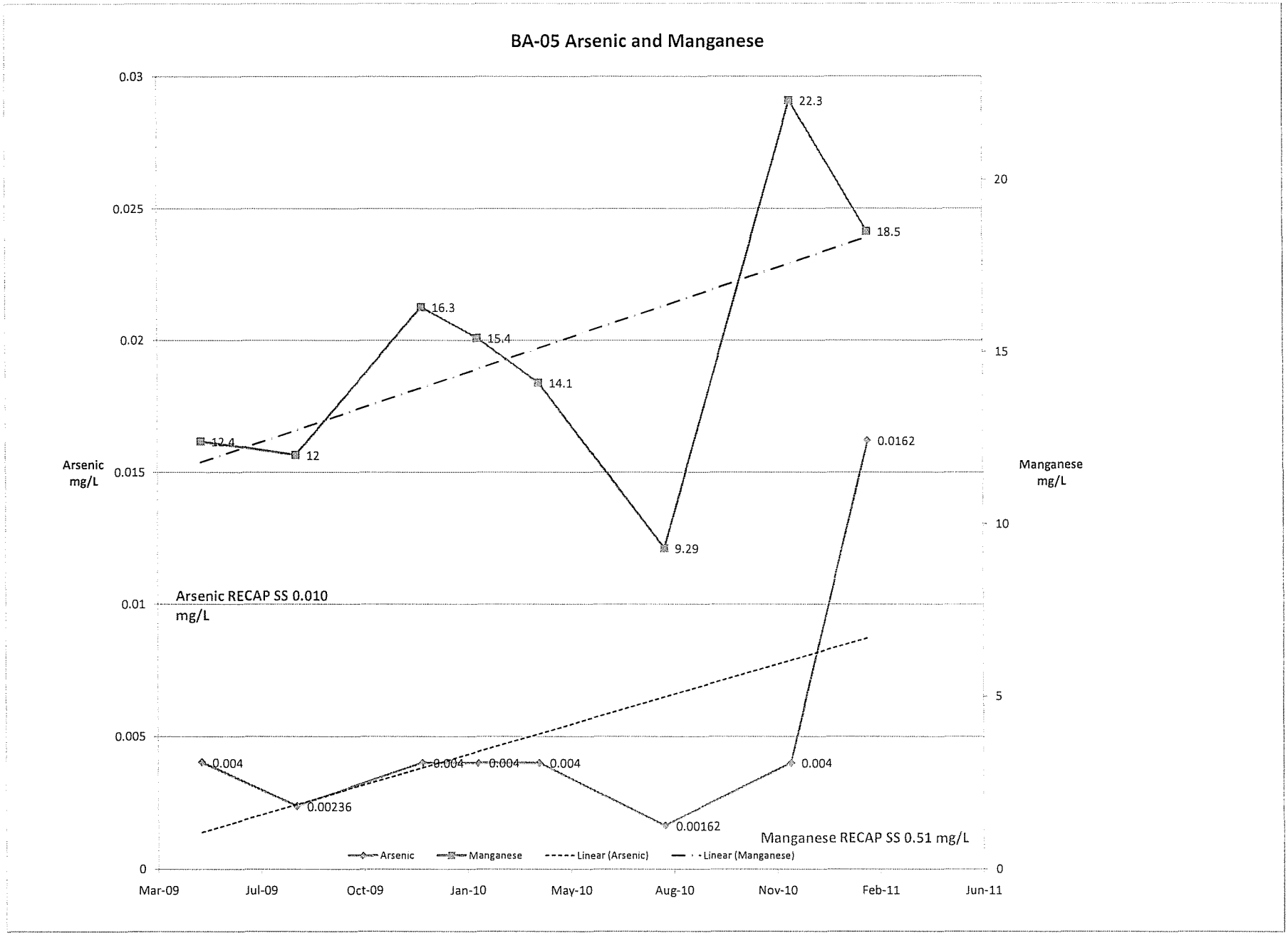

BA-01 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.0153
0.0128
0.02
1.59
1.42
1.24
1.23
1.05
1.06
0.806
0.00829
0.0044
0.00247
0.004
0.0033
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

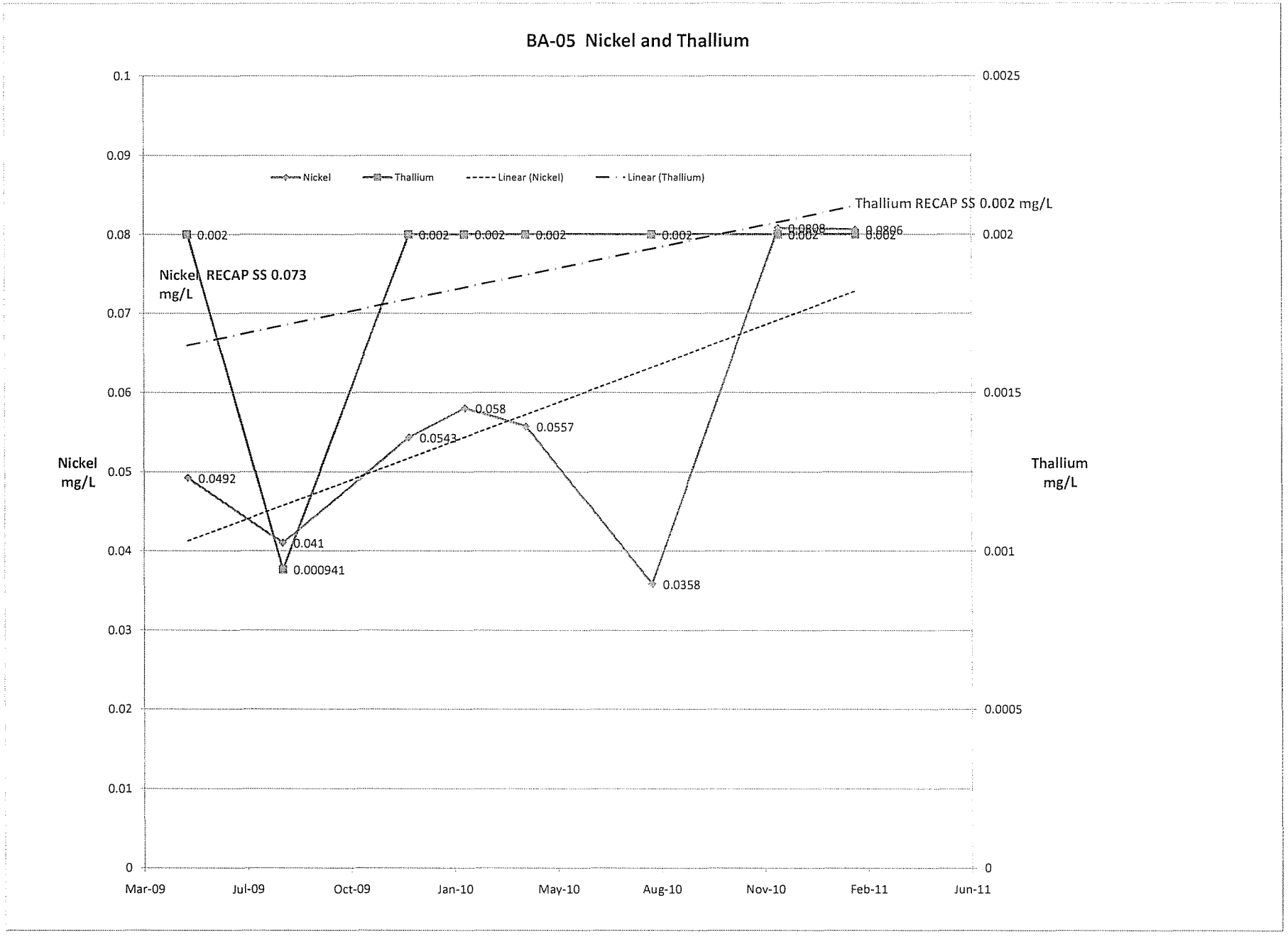

BA-01 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.0019
0.0368
0.0235
0.0194
0.0546
0.0605
0.0329
0.0216
0.0445
0.000386
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

BA-01 Cadmium and Zinc

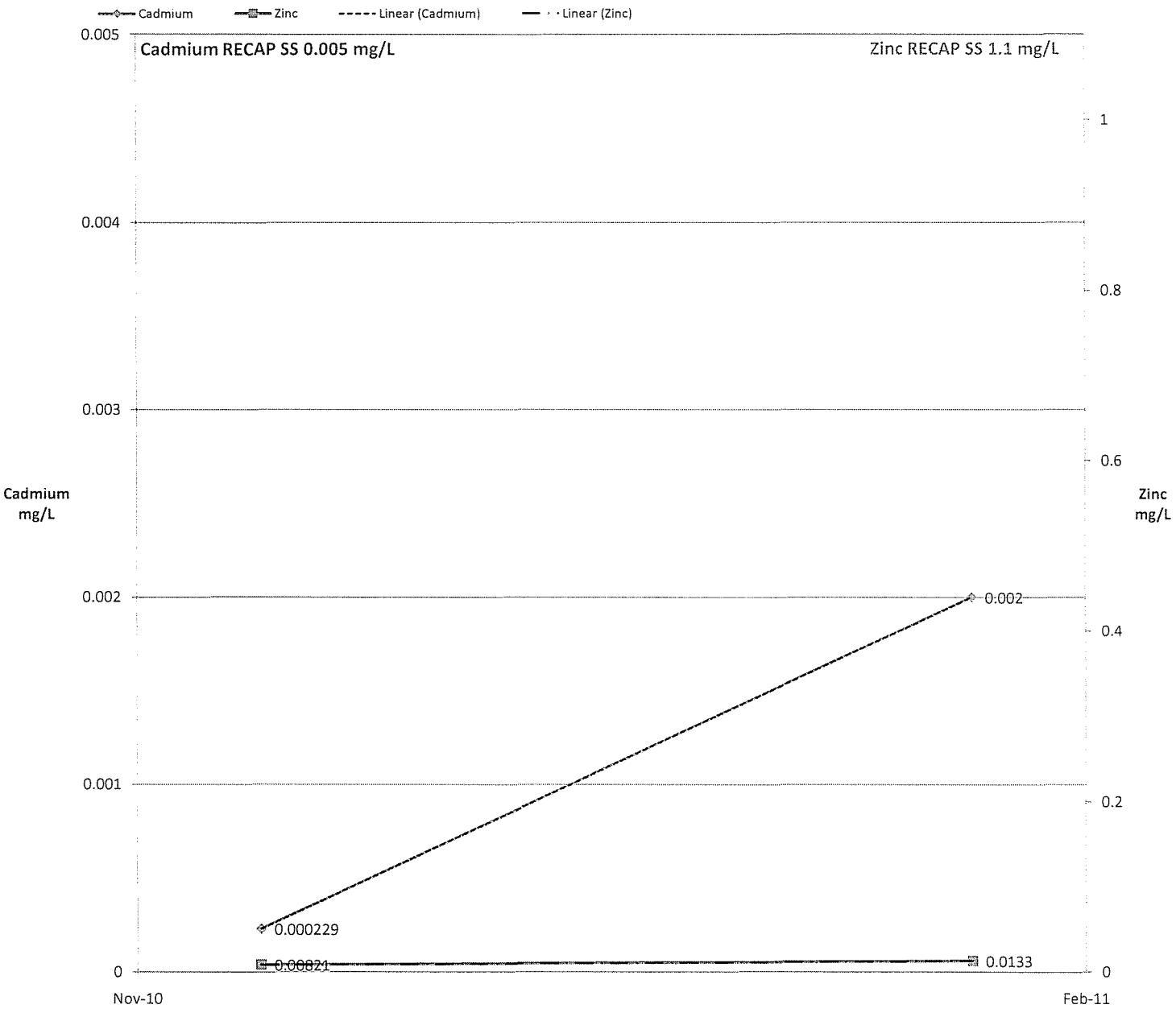


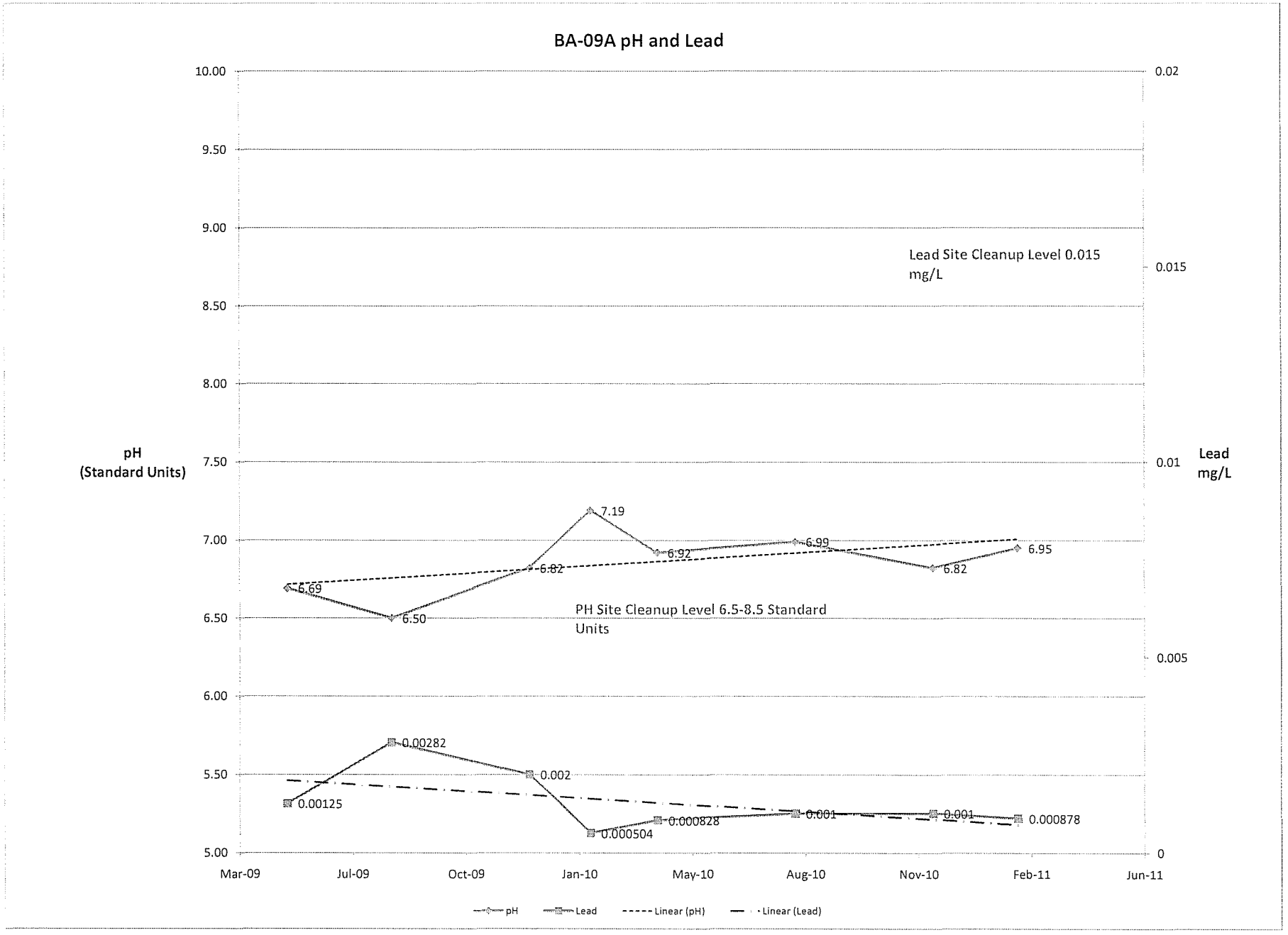

BA-05 pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
pH
(Standard Units)
0.02
0.015
0.01
0.005
0
Lead
mg/L
Lead Site Cleanup Level 0.015
mg/L
PH Site Cleanup Level 6.5-8.5 Standard
Units
6.17
6.23
6.08
6.33
6.15
6.31
6.29
6.09
0.000314
0.00063
0.002
0.001
0.001
0.001
0.001
0.000582
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

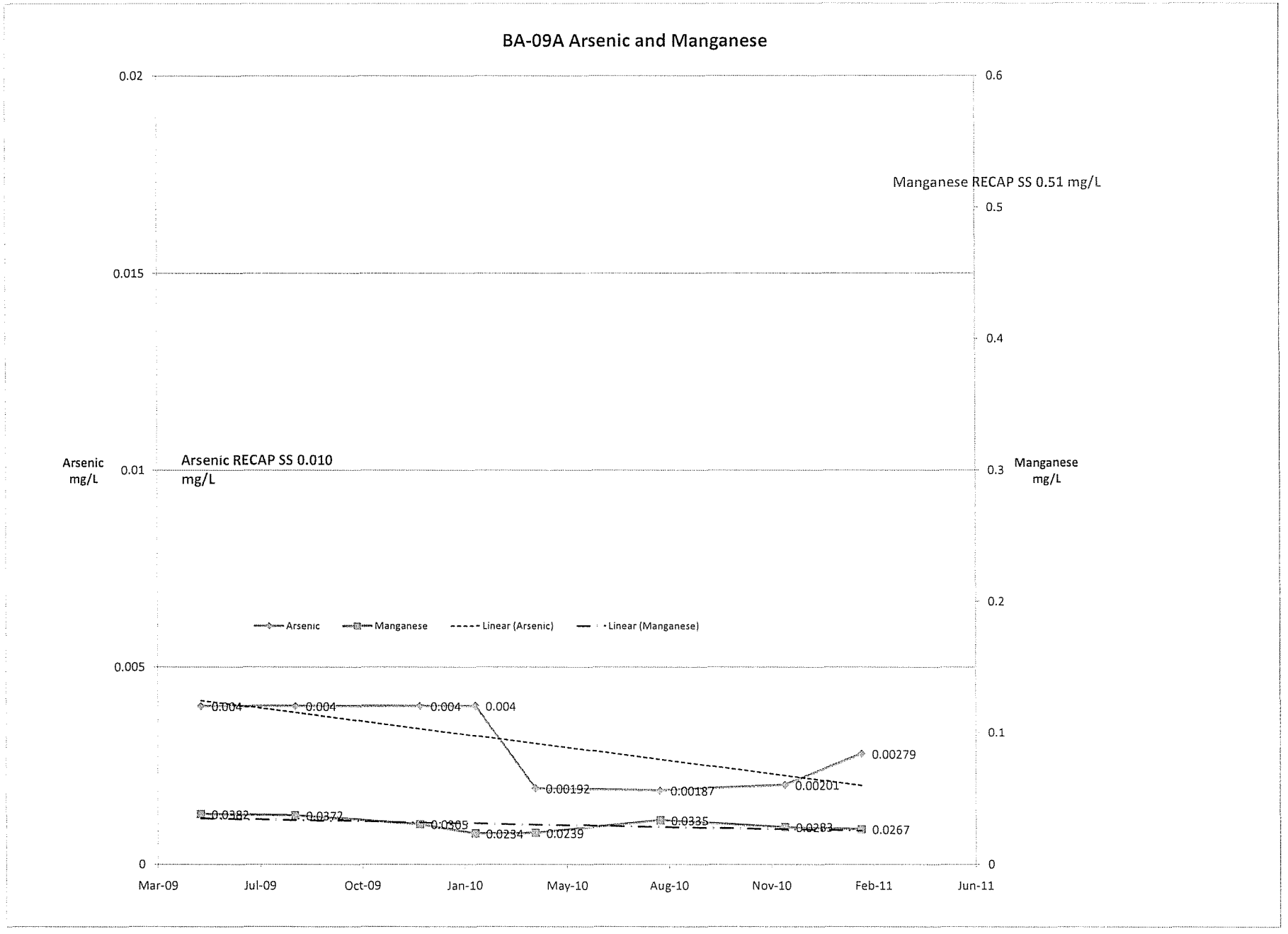

BA-05 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
0.03
0.025
0.02
0.015
0.01
0.005
0
20
15
10
5
0
22.3
18.5
16.3
15.4
14.1
12.4
12
9.29
0.0162
0.004
0.00236
0.004
0.004
0.004
0.00162
0.004
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

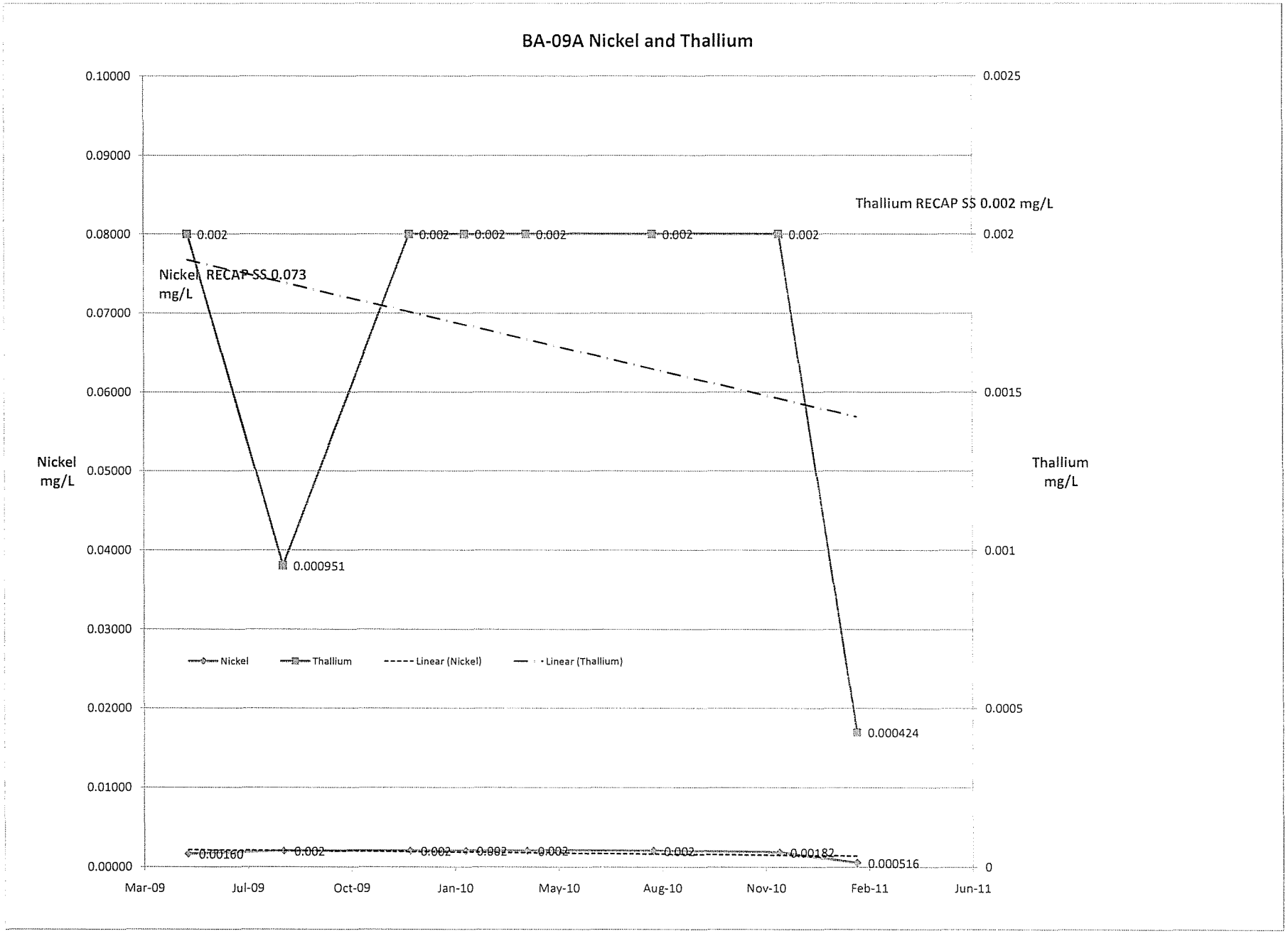

BA-05 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.0492
0.041
0.000941
0.0543
0.058
0.0557
0.0358
0.0808
0.0806
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

BA-05 Cadmium and Zinc

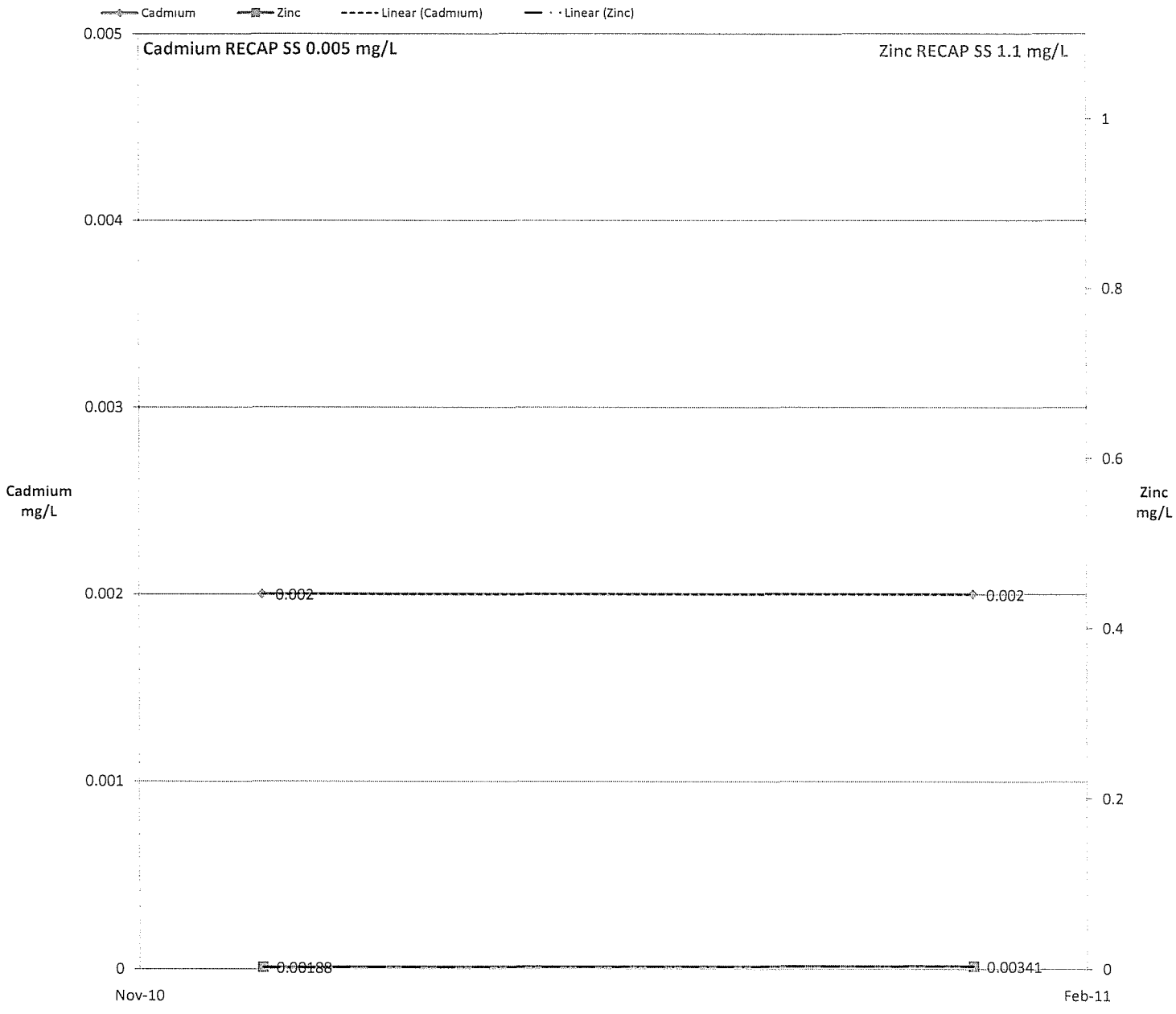


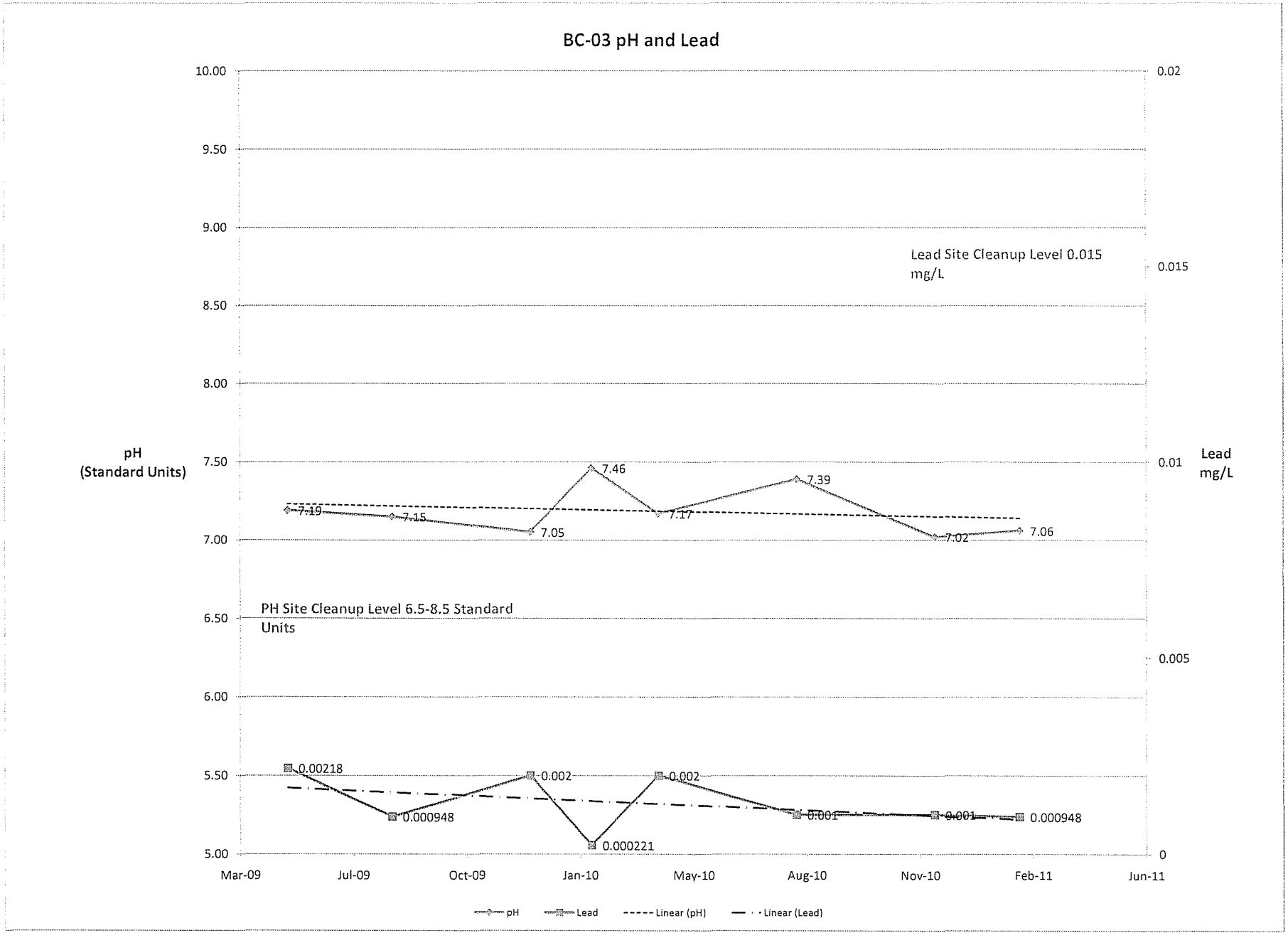

BA-09A pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
pH
(Standard Units)
0.02
0.015
0.01
0.005
0
Lead
mg/L
Lead Site Cleanup Level 0.015
mg/L
PH Site Cleanup Level 6.5-8.5 Standard
Units
6.69
6.50
6.82
7.19
6.92
6.99
6.82
6.95
0.00125
0.00282
0.002
0.000504
0.000828
0.001
0.001
0.000878
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

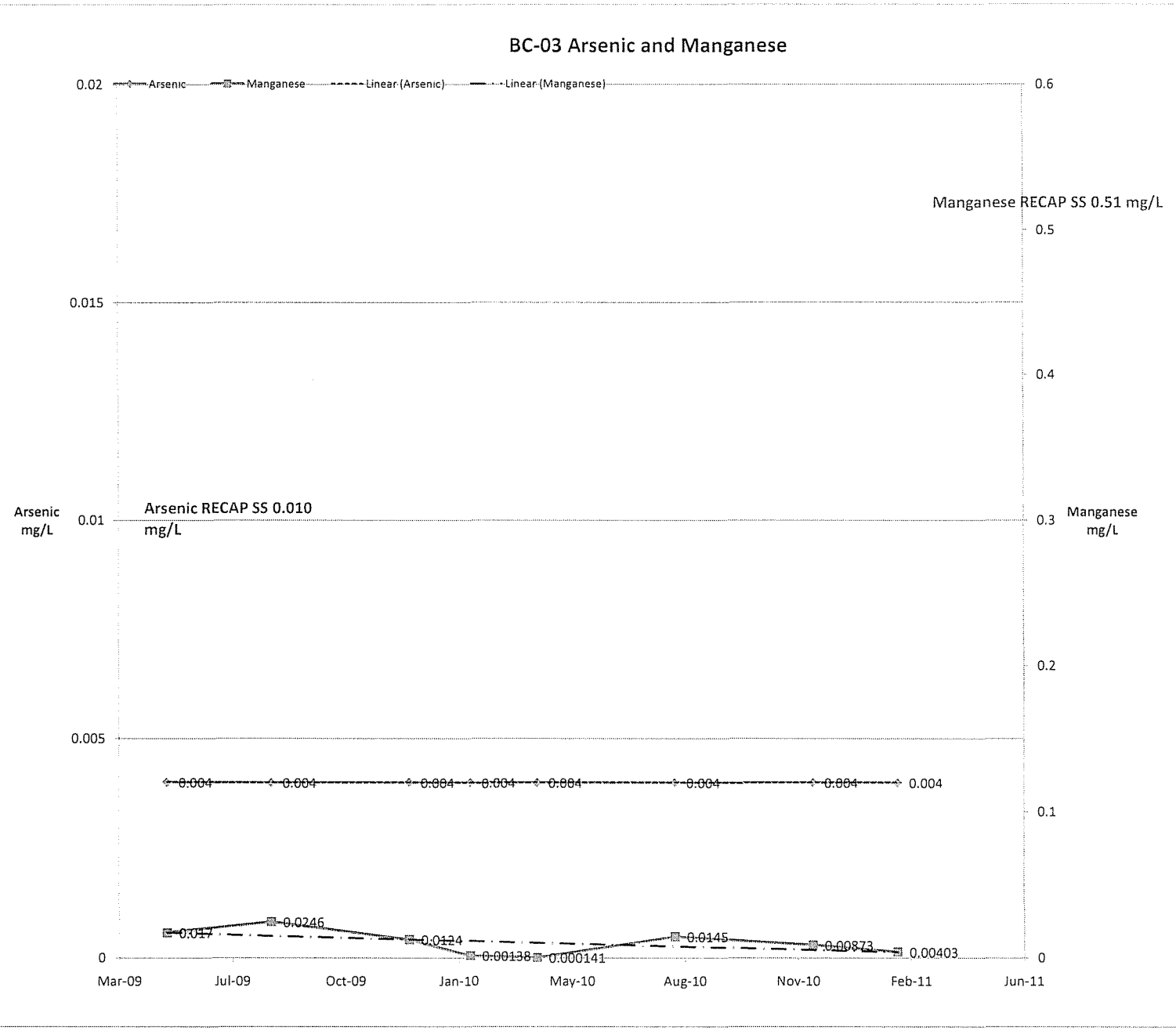

BA-09A Arsenic and Manganese
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.004
0.004
0.004
0.004
0.00192
0.00187
0.00201
0.00279
0.0382
0.0372
0.0305
0.0234
0.0239
0.0335
0.0283
0.0267
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

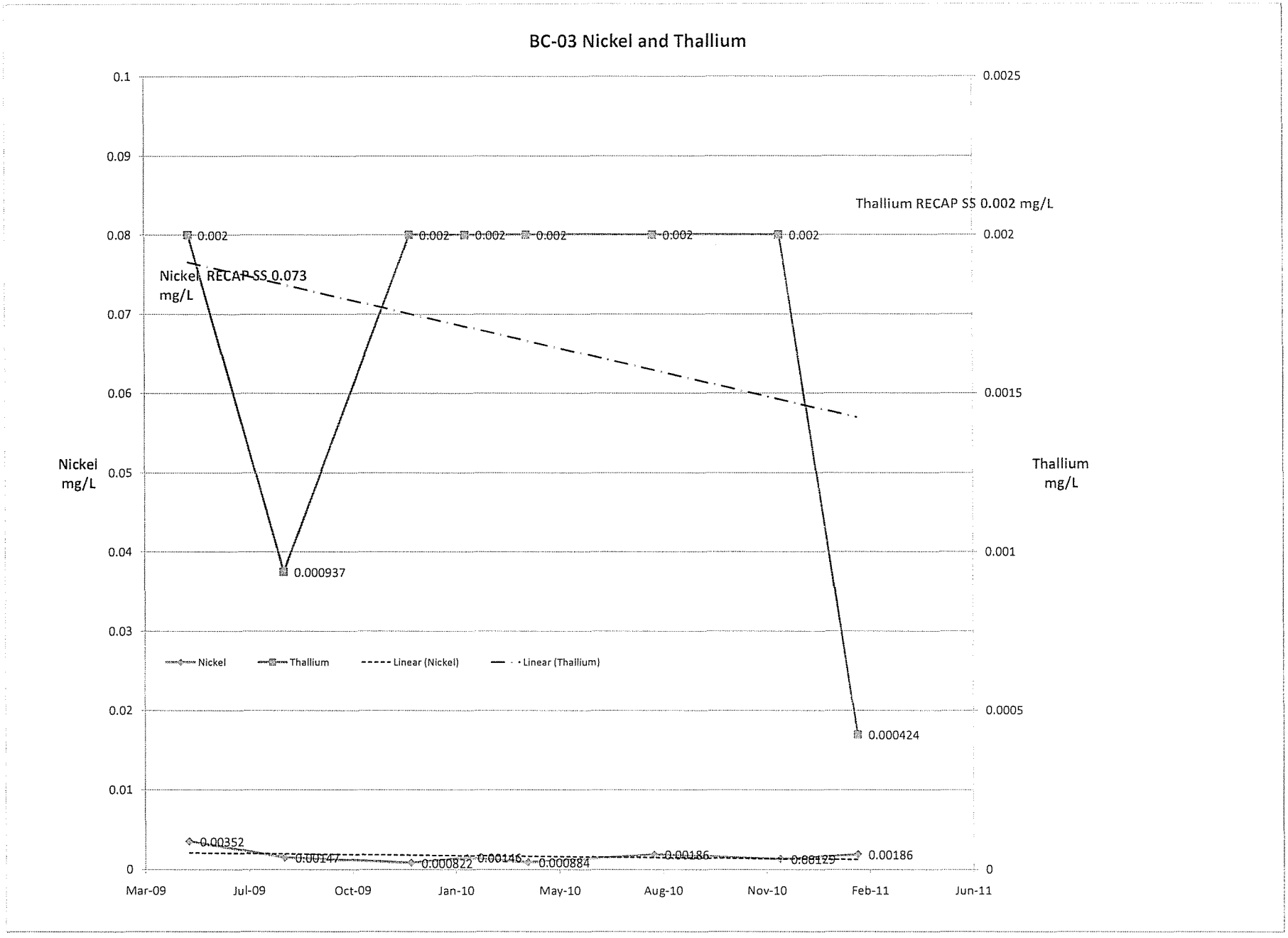

BA-09A Nickel and Thallium
Nickel mg/L
Thallium mg/L
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
0.10000
0.09000
0.08000
0.07000
0.06000
0.05000
0.04000
0.03000
0.02000
0.01000
0.00000
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000951
0.000424
0.00160
0.00182
0.000516
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

BA-09A Cadmium and Zinc

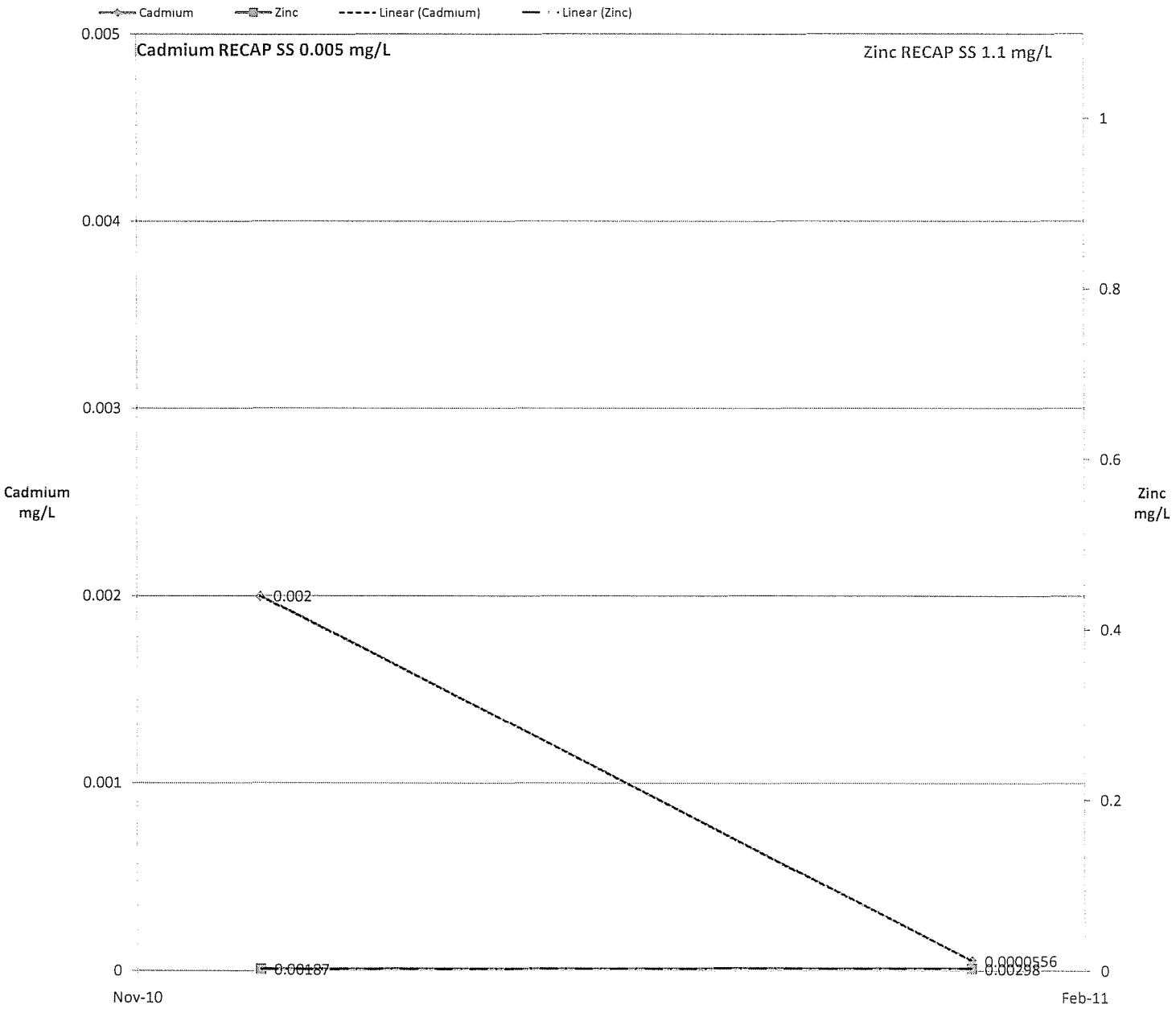


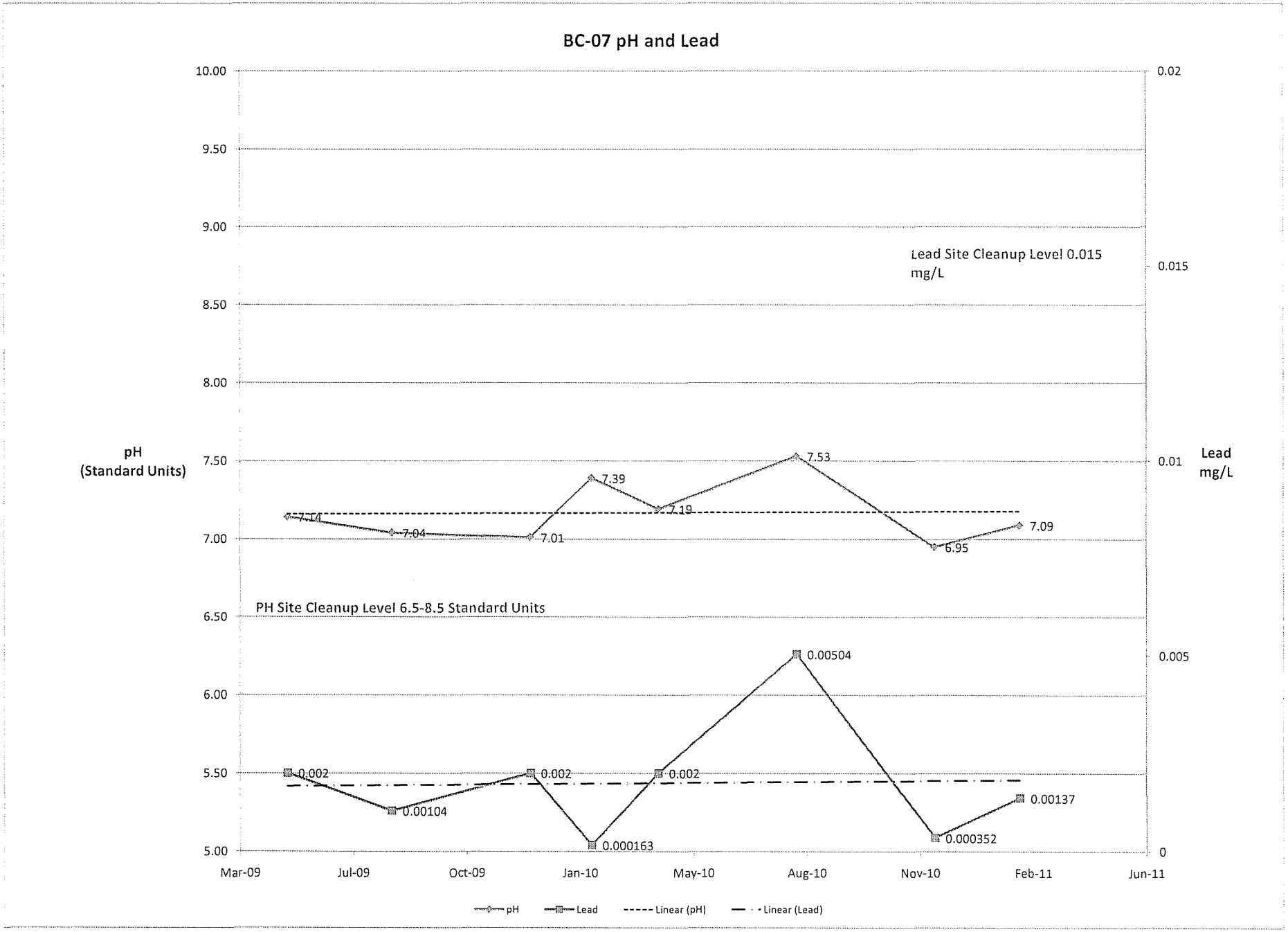

BC-03 pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
pH
(Standard Units)
0.02
0.015
0.01
0.005
0
Lead
mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
7.19
7.15
7.05
7.46
7.17
7.39
7.02
7.06
0.00218
0.000948
0.002
0.000221
0.002
0.001
0.001
0.000948
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

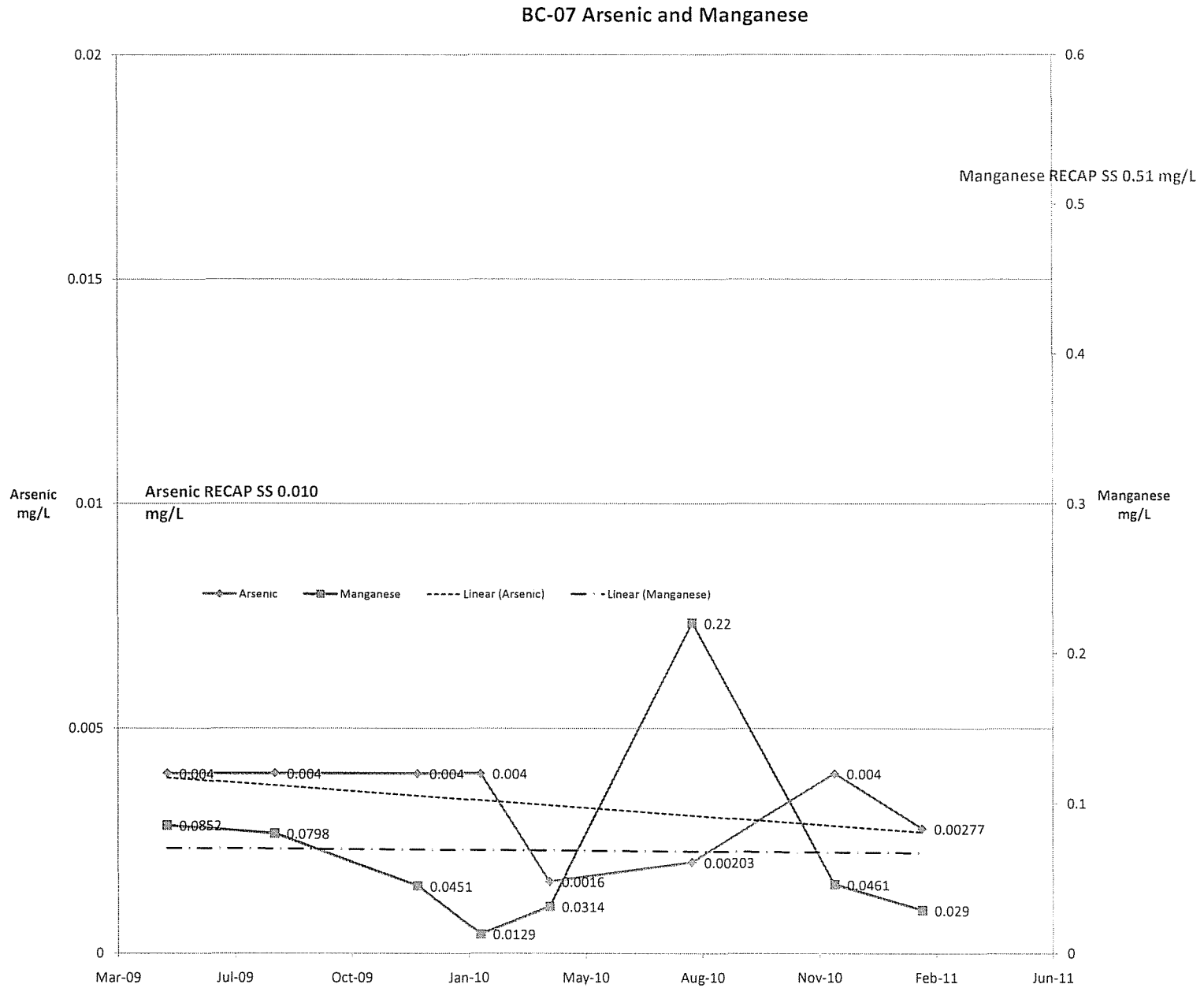

BC-03 Arsenic and Manganese
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.004
0.004
0.004
0.004
0.004
0.004
0.004
0.004
0.017
0.0246
0.0124
0.00138
0.000141
0.0145
0.00873
0.00403
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

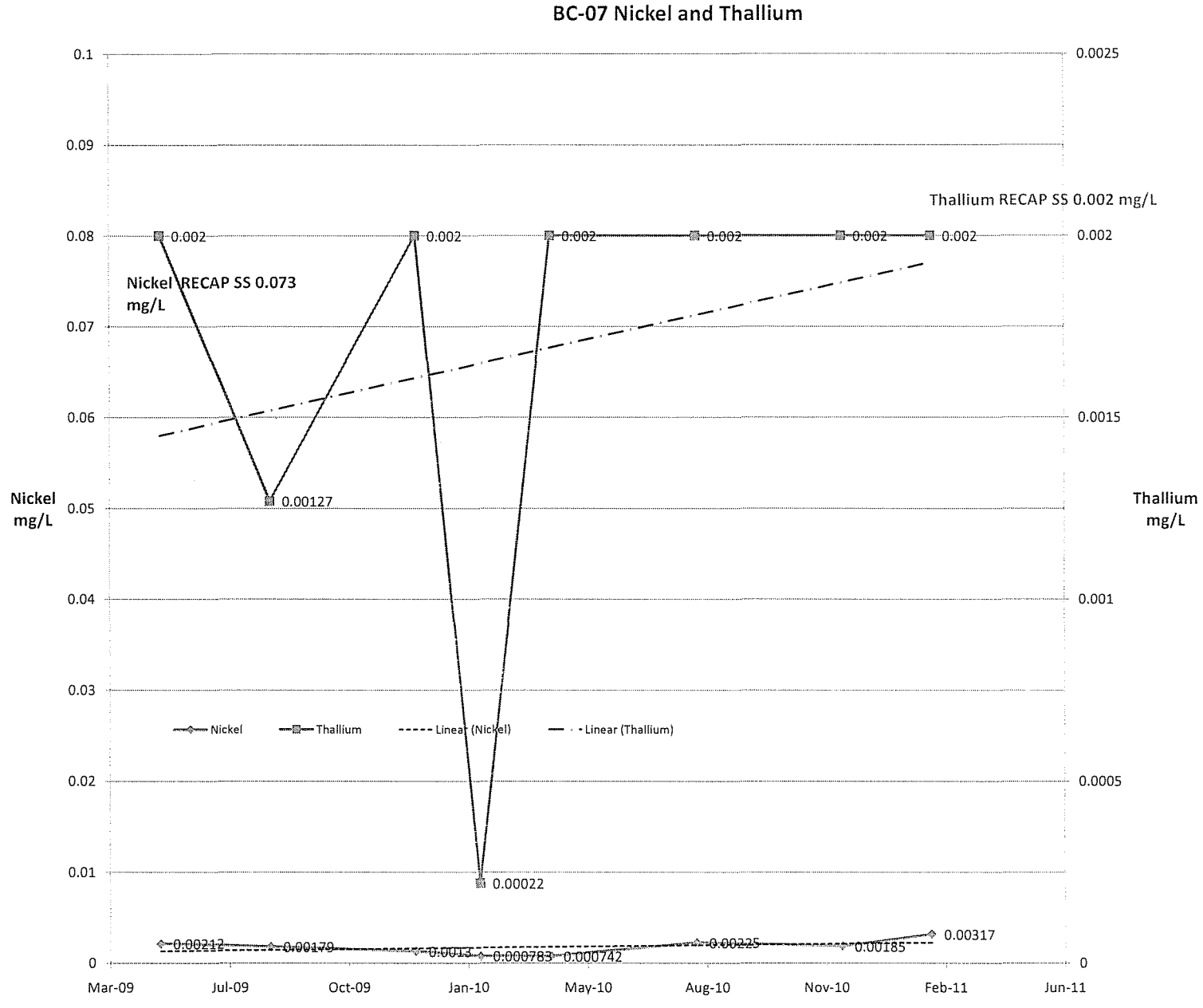

BC-03 Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.002
0.002
0.002
0.002
0.002
0.000937
0.000424
0.00352
0.00147
0.000822
0.00146
0.000884
0.00186
0.00125
0.00186
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

BC-03 Cadmium and Zinc

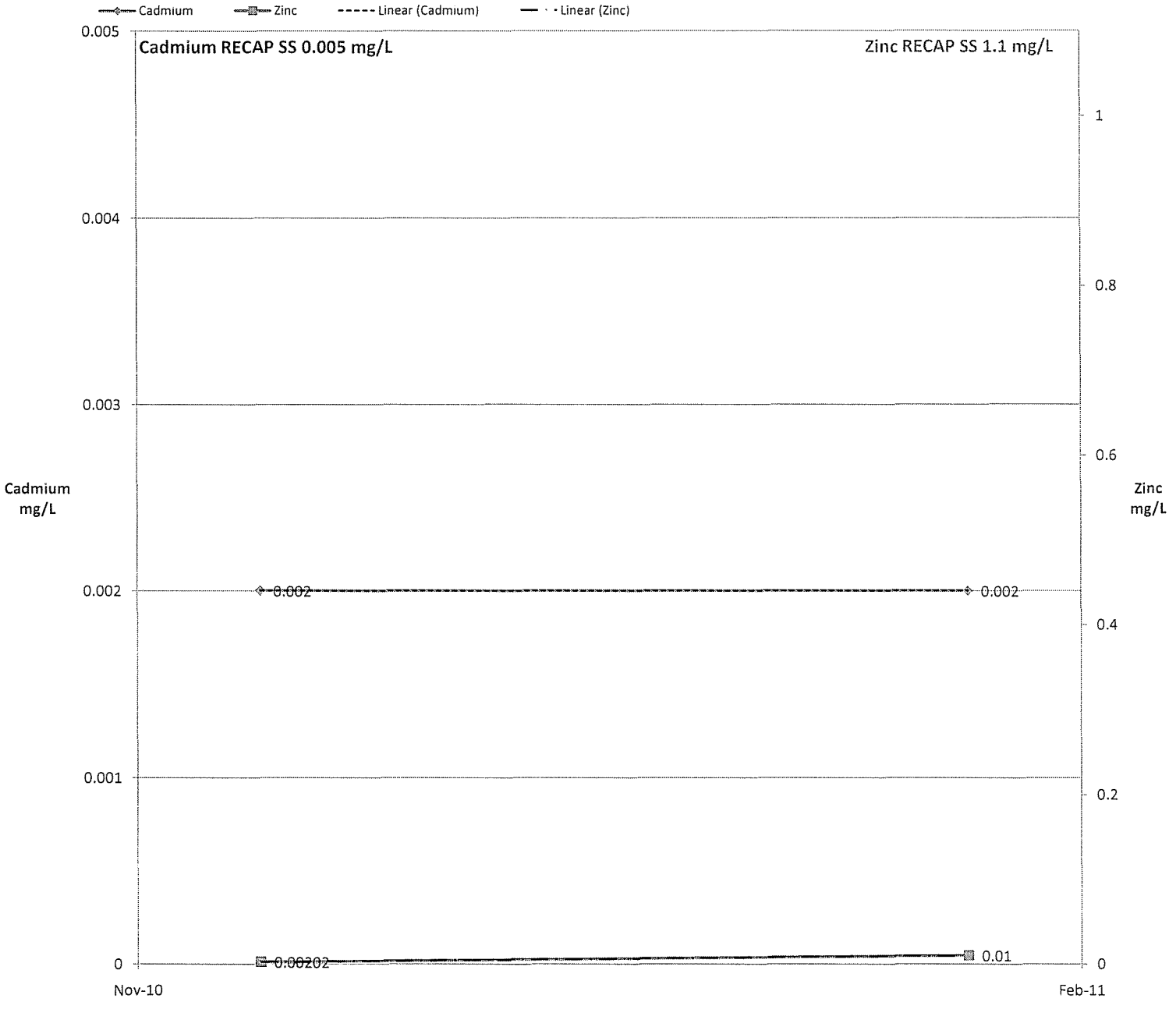


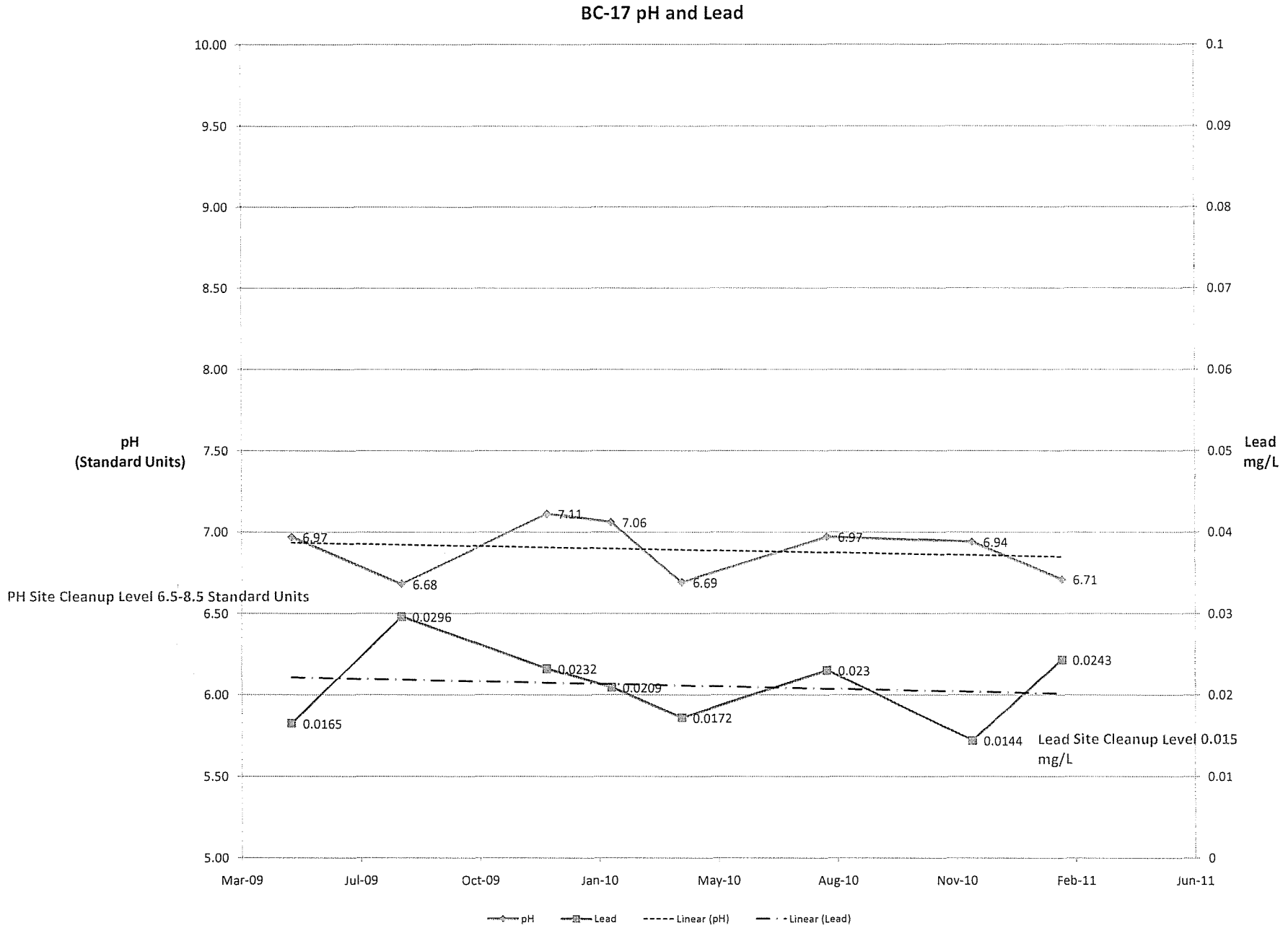

BC-07 pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
pH
(Standard Units)
0.02
0.015
0.01
0.005
0
Lead
mg/L
Lead Site Cleanup Level 0.015
mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
7.14
7.04
7.01
7.39
7.19
7.53
6.95
7.09
0.002
0.00104
0.002
0.000163
0.002
0.00504
0.000352
0.00137
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

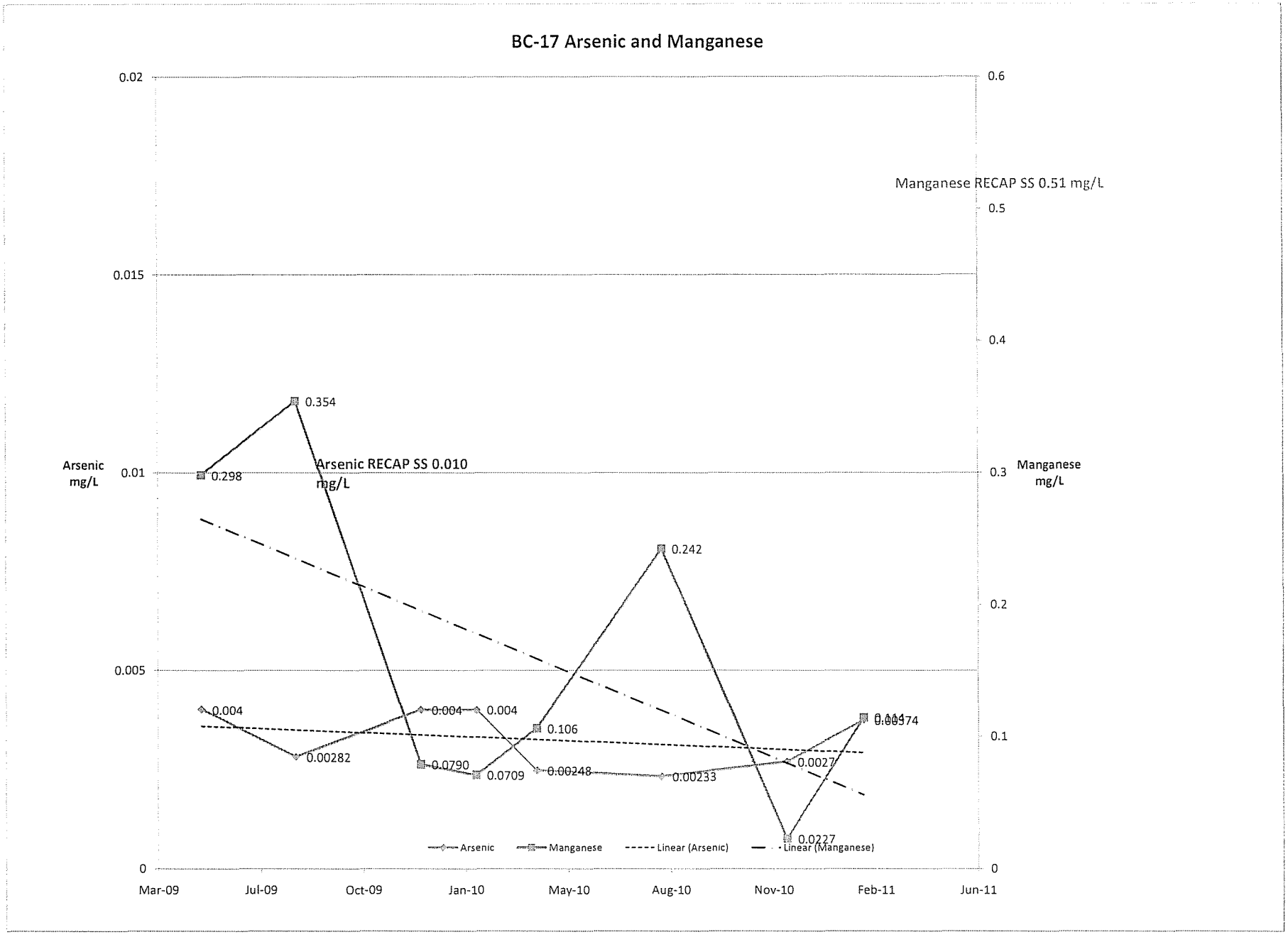

BC-07 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
0.004
0.004
0.004
0.004
0.004
0.00277
0.00203
0.0016
0.0314
0.0129
0.0451
0.0798
0.0852
0.22
0.0461
0.029

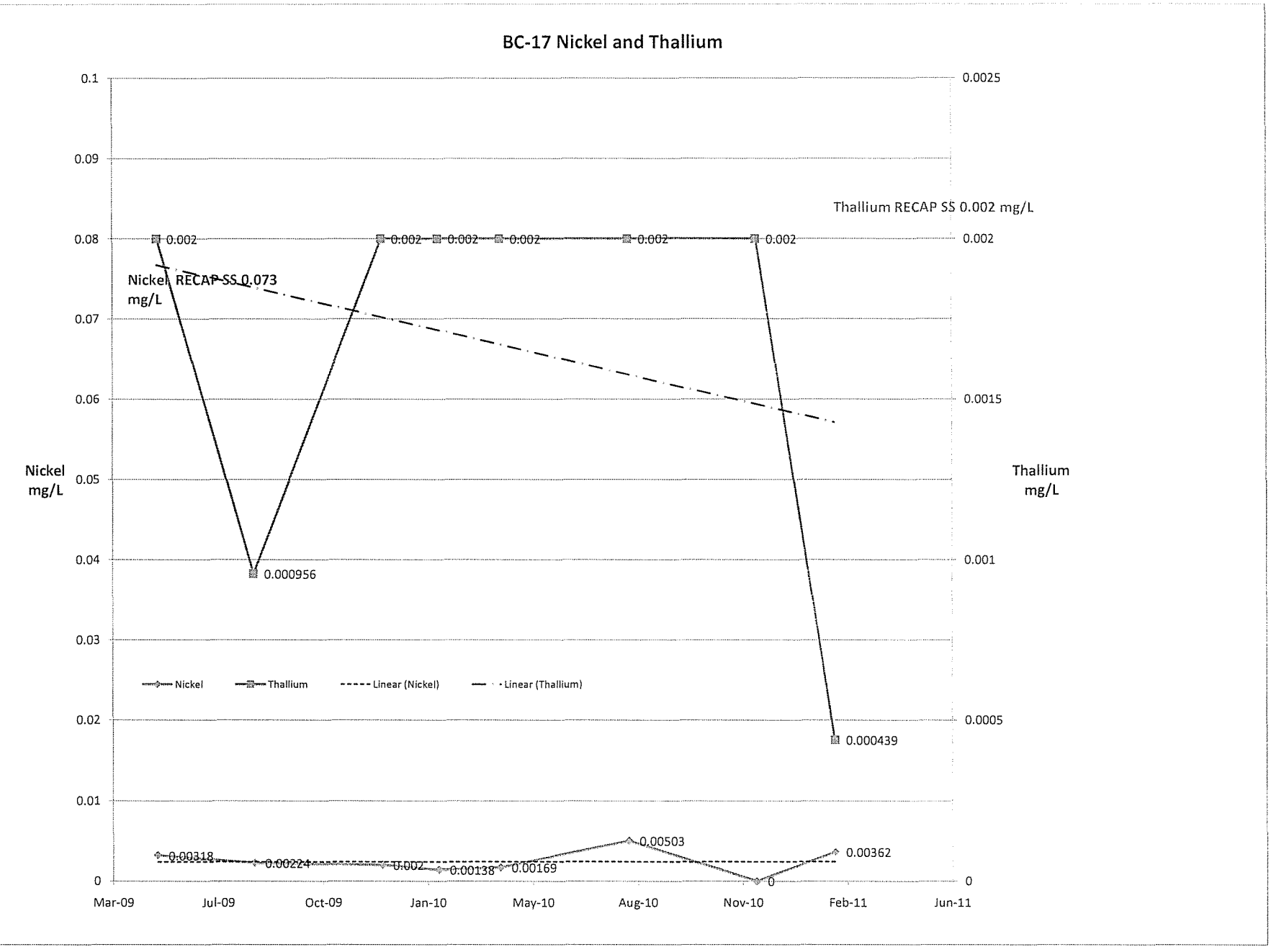

BC-07 Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.00127
0.00022
0.00212
0.00179
0.0013
0.000783
0.000742
0.00225
0.00185
0.00317
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

BC-07 Cadmium and Zinc

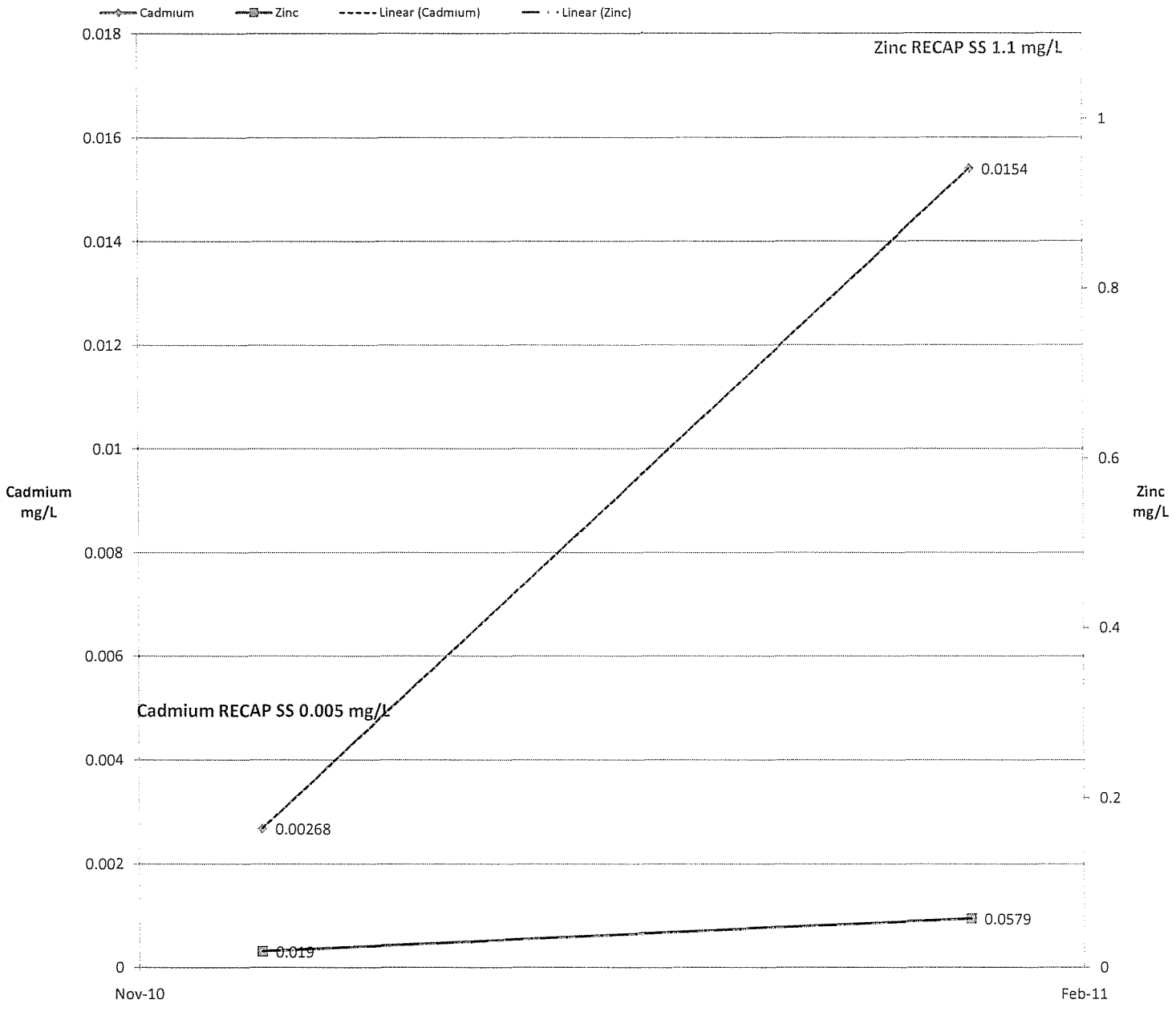


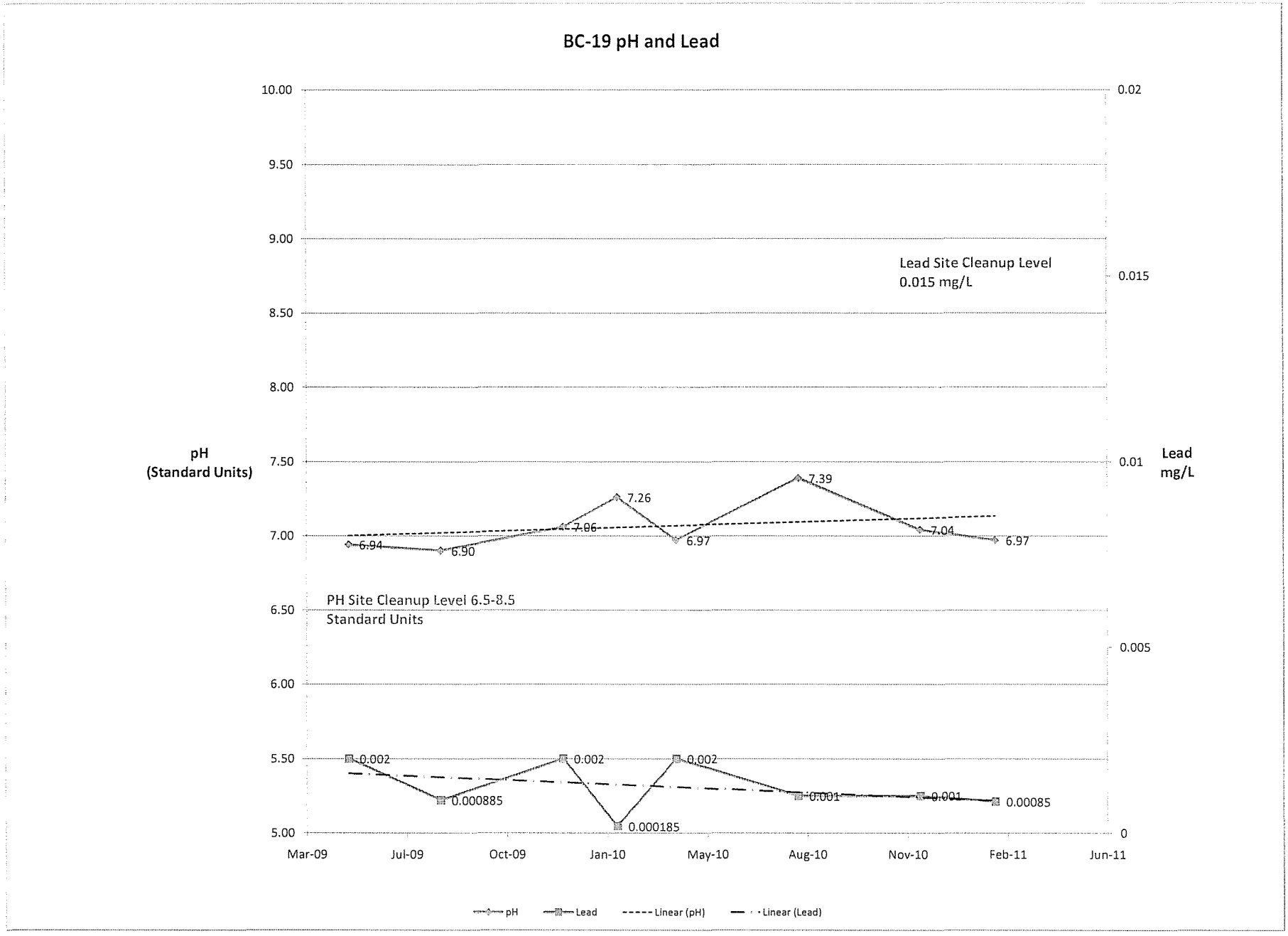

BC-17 pH and Lead
pH (Standard Units)
Lead mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
Lead Site Cleanup Level 0.015 mg/L
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6.97
6.68
7.11
7.06
6.69
6.97
6.94
6.71
0.0165
0.0296
0.0232
0.0209
0.0172
0.023
0.0144
0.0243
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

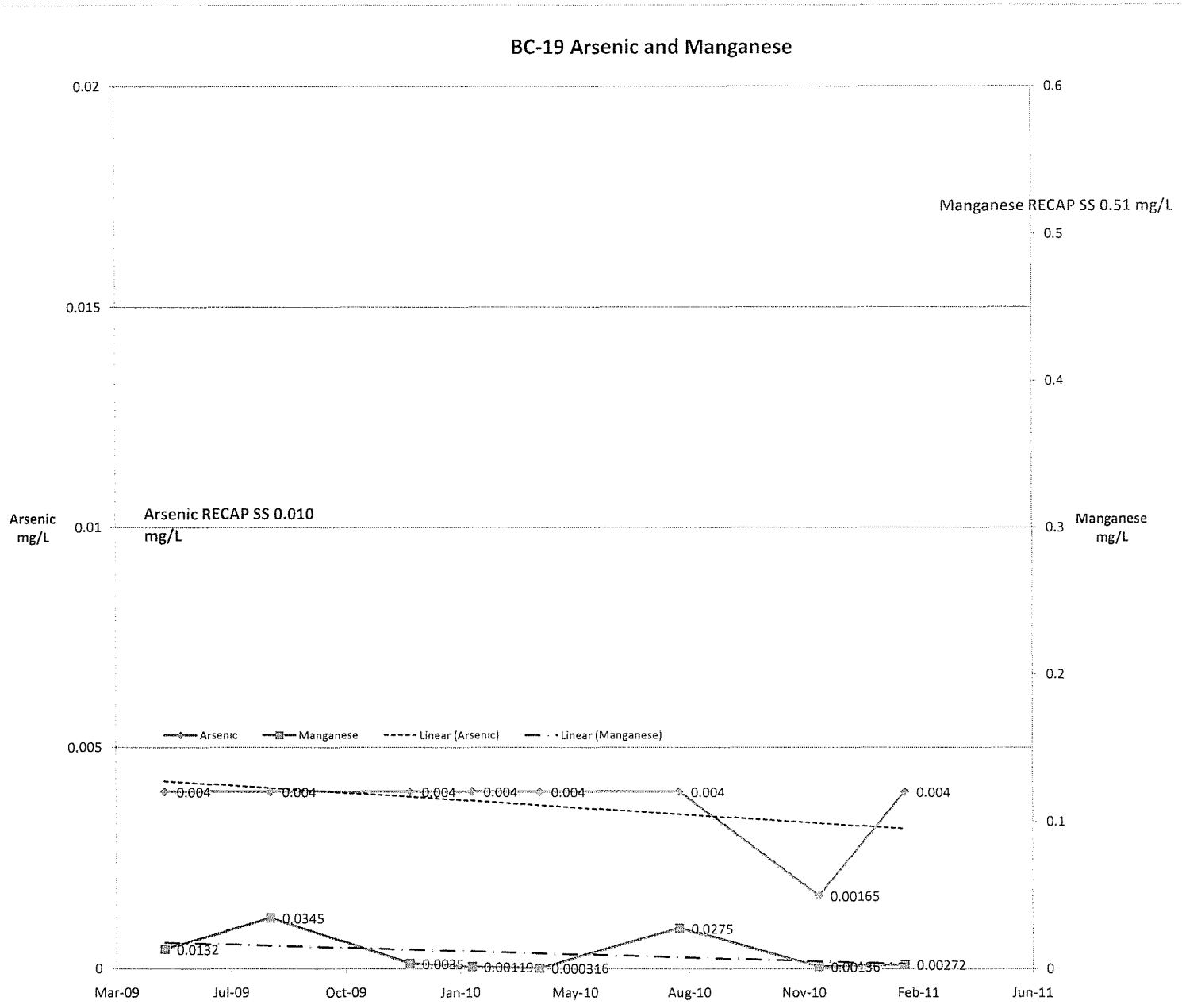

BC-17 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
0.298
0.354
0.004
0.00282
0.004
0.004
0.0790
0.0709
0.106
0.00248
0.242
0.00233
0.0227
0.0027
0.00574
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

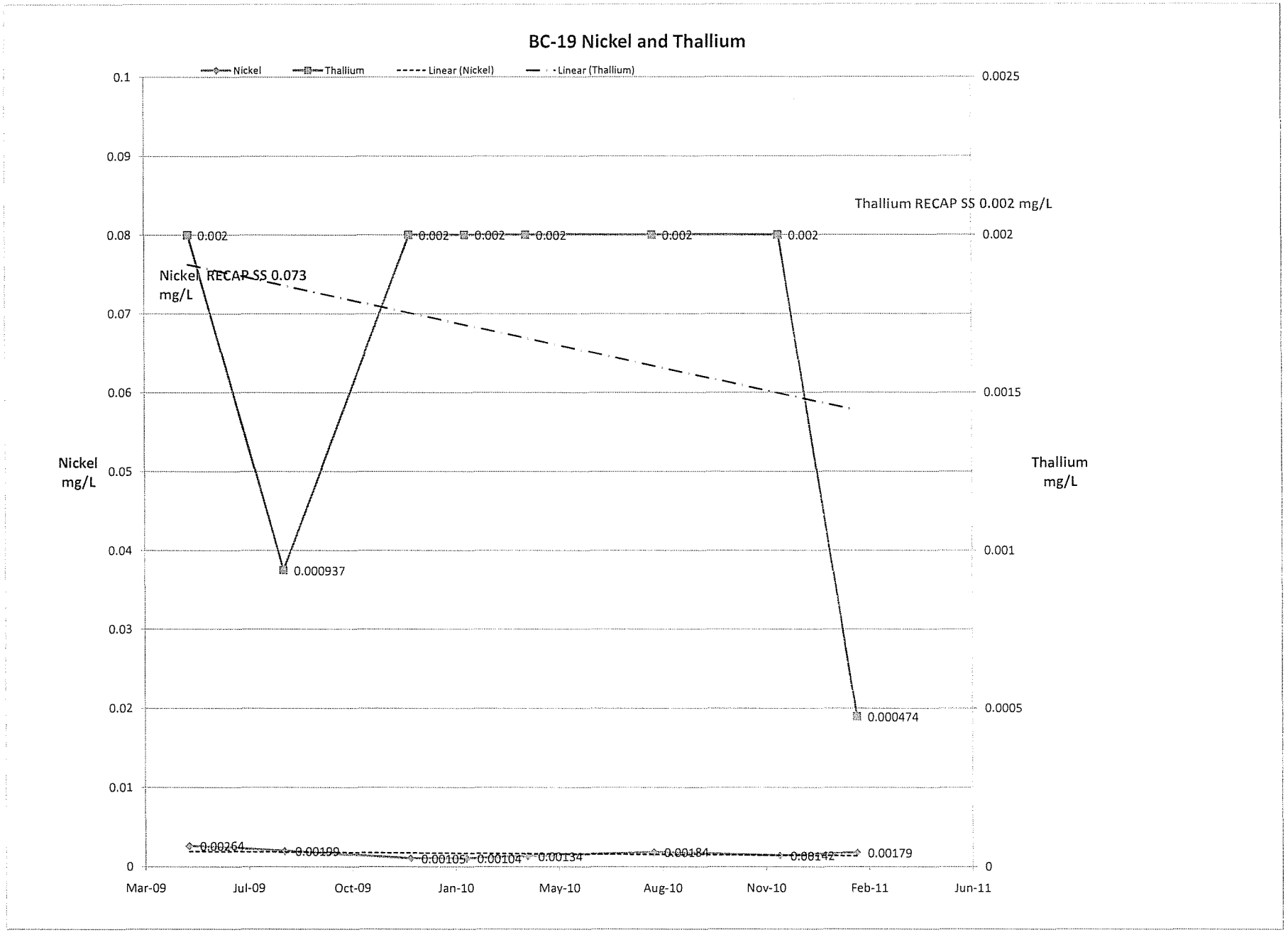

BC-17 Nickel and Thallium
Nickel mg/L
Thallium mg/L
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
0.002
0.000956
0.002
0.002
0.002
0.002
0.002
0.000439
0.00318
0.00224
0.002
0.00138
0.00169
0.00503
0
0.00362
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)

BC-17 Cadmium and Zinc

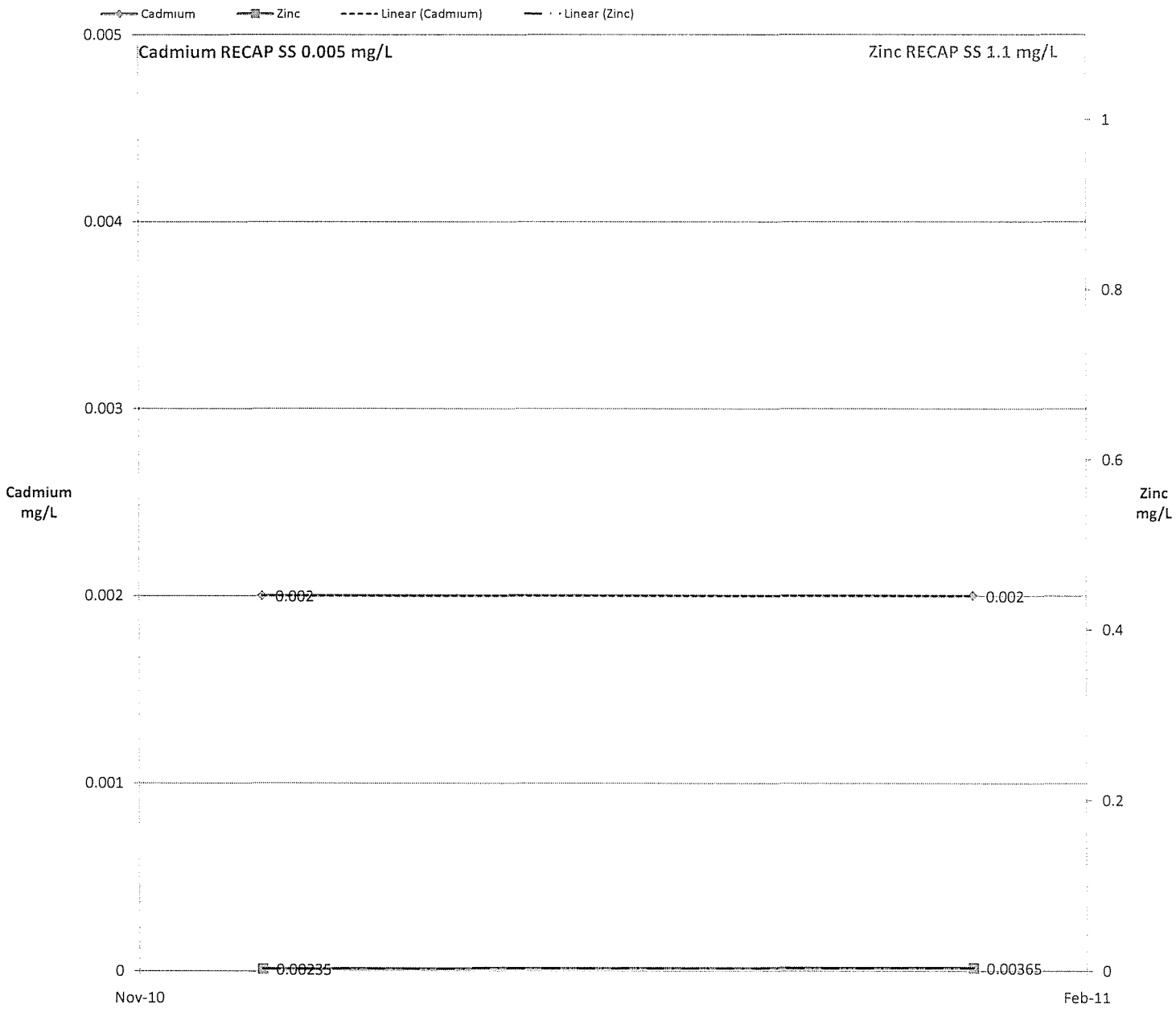


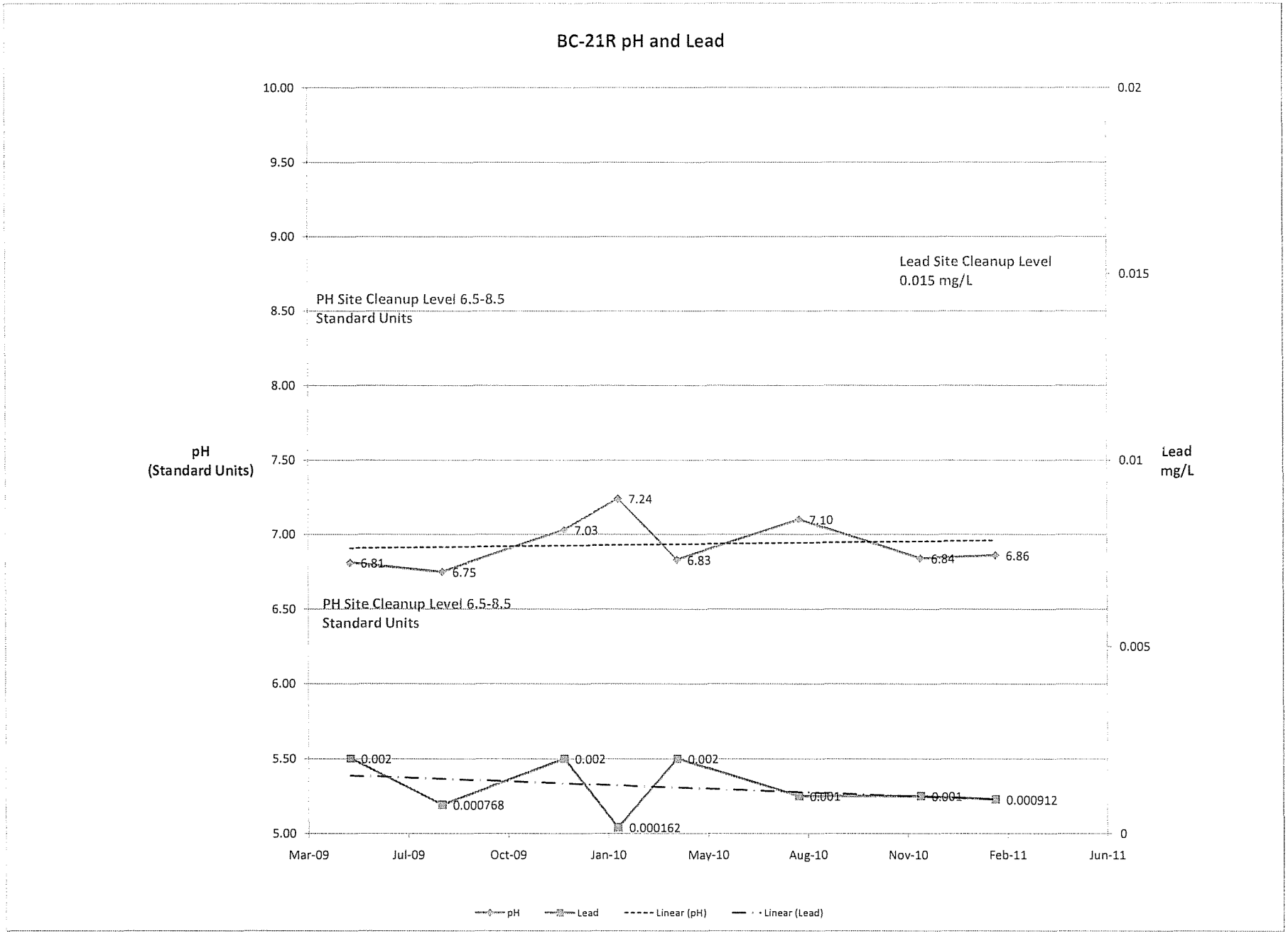

BC-19 pH and Lead
pH (Standard Units)
Lead mg/L
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
Lead Site Cleanup Level
0.015 mg/L
PH Site Cleanup Level 6.5-8.5
Standard Units
6.94
6.90
7.06
7.26
6.97
7.39
7.04
6.97
0.002
0.000885
0.002
0.000185
0.002
0.001
0.001
0.00085
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

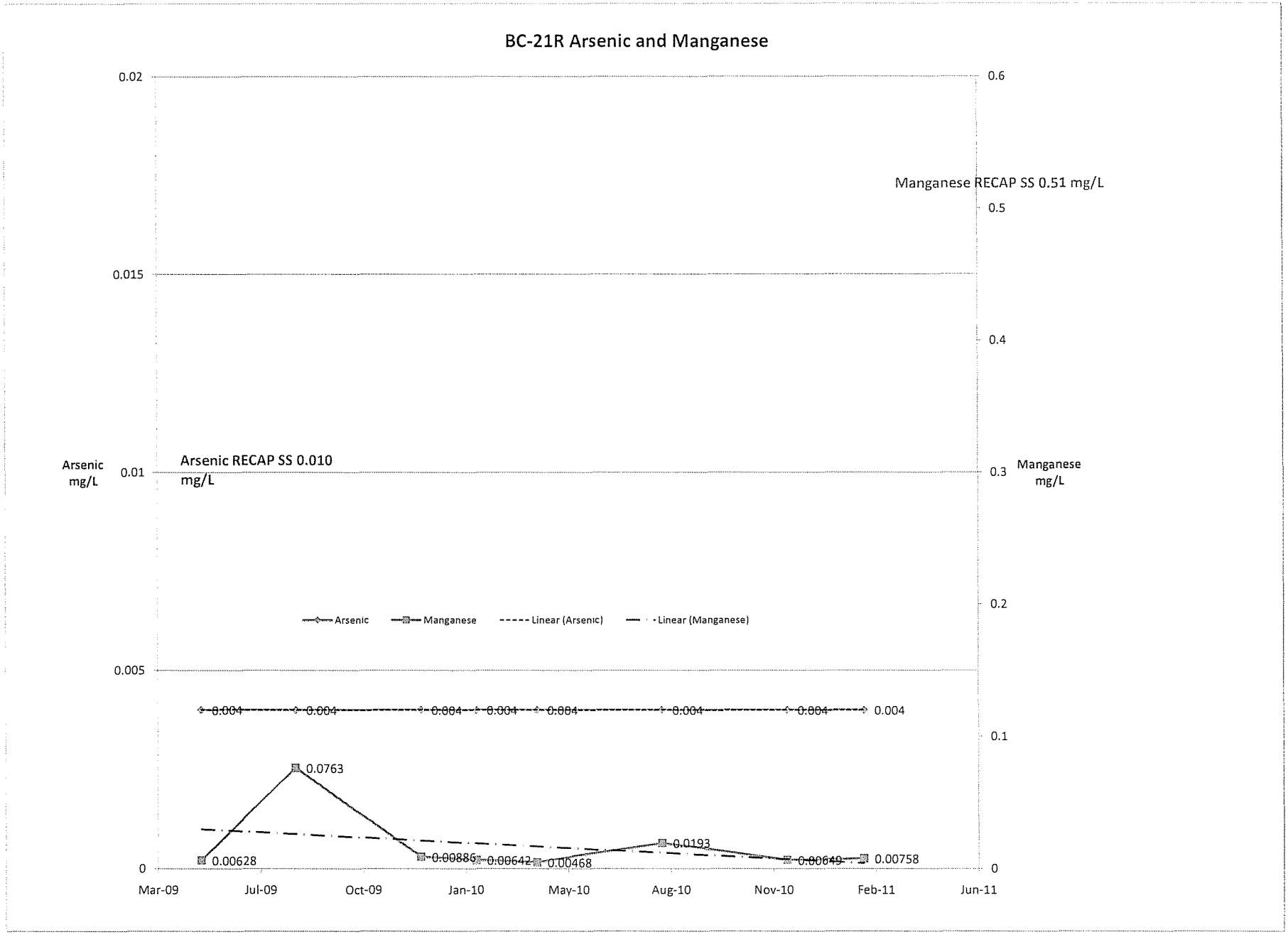

BC-19 Arsenic and Manganese
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.004
0.004
0.004
0.004
0.004
0.004
0.004
0.00165
0.0132
0.0345
0.0035
0.00119
0.000316
0.0275
0.00136
0.00272
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

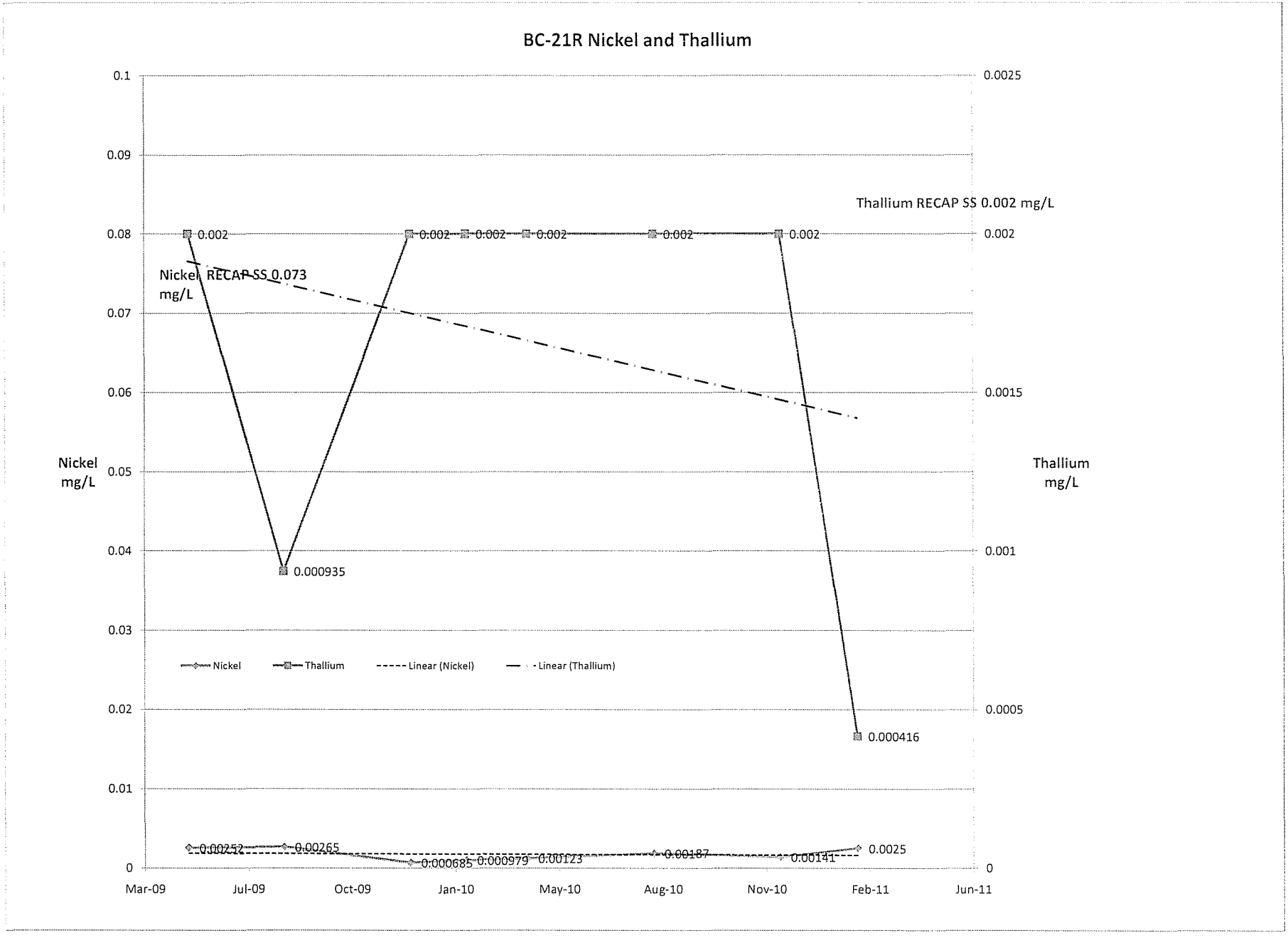

BC-19 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000937
0.000474
0.00264
0.00199
0.00105
0.00104
0.00134
0.00184
0.00142
0.00179
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

BC-19 Cadmium and Zinc

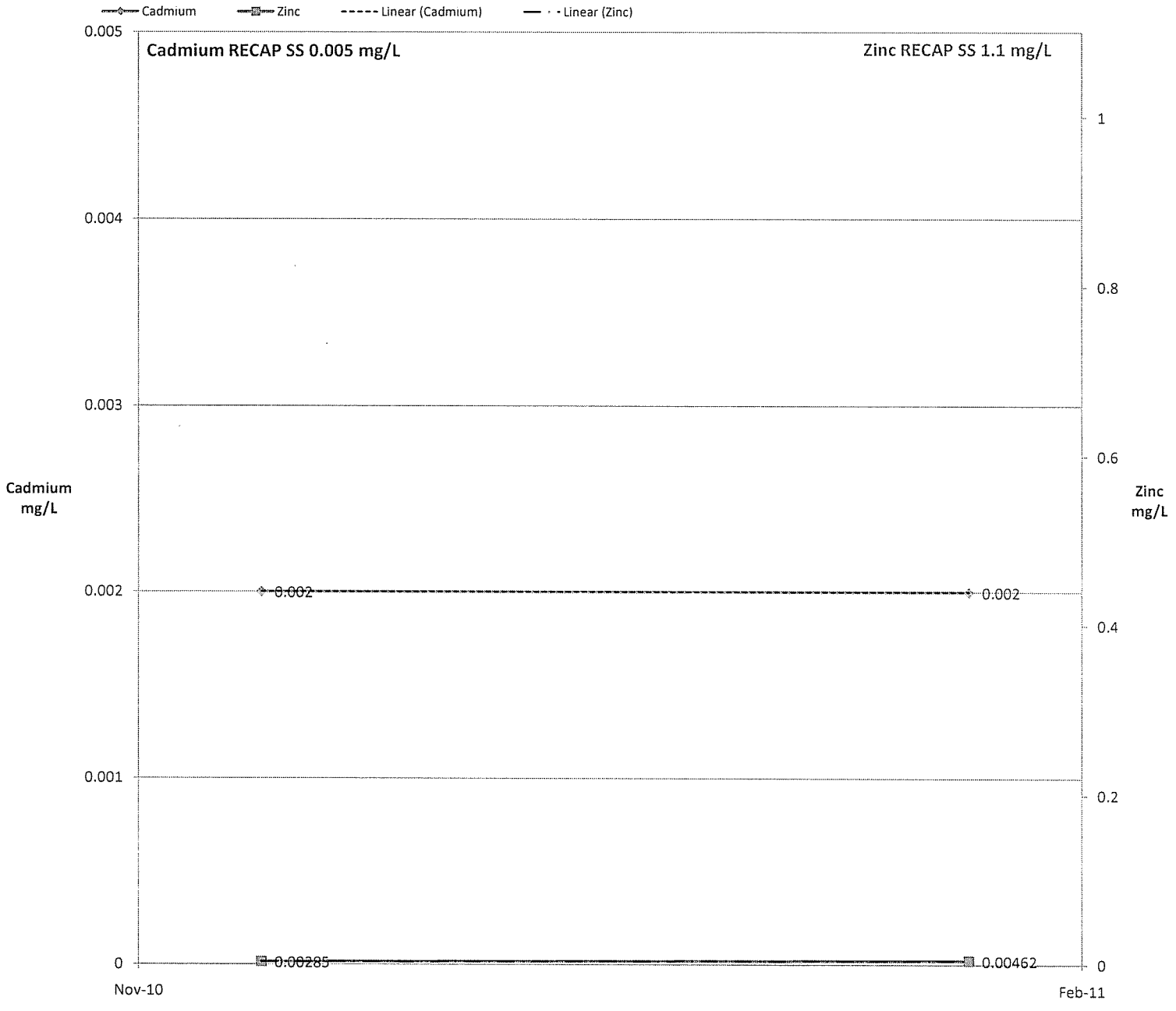


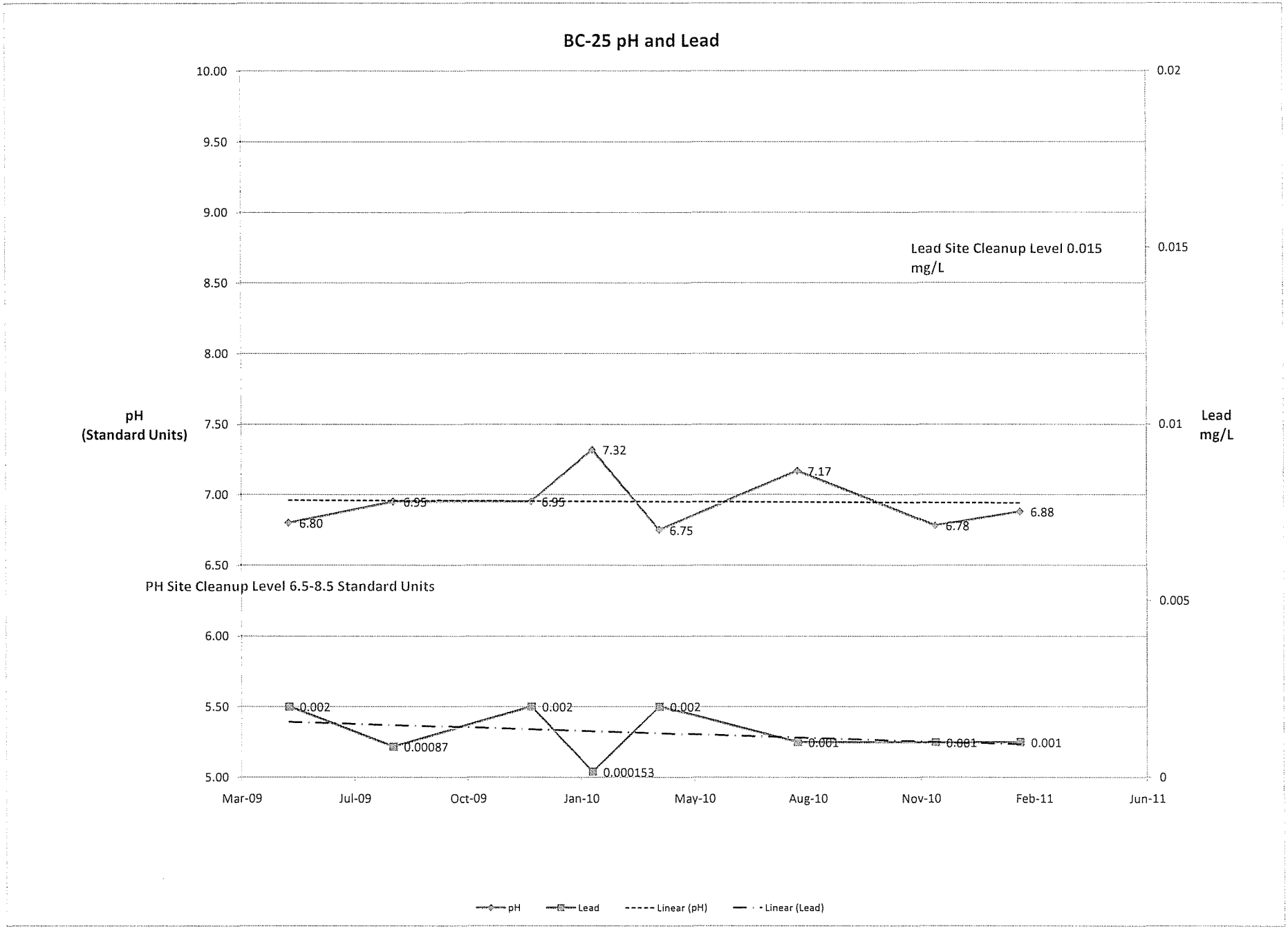

BC-21R pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
pH
(Standard Units)
Lead
mg/L
Lead Site Cleanup Level
0.015 mg/L
PH Site Cleanup Level 6.5-8.5
Standard Units
PH Site Cleanup Level 6.5-8.5
Standard Units
6.81
6.75
7.03
7.24
6.83
7.10
6.84
6.86
0.002
0.000768
0.002
0.000162
0.002
0.001
0.001
0.000912
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

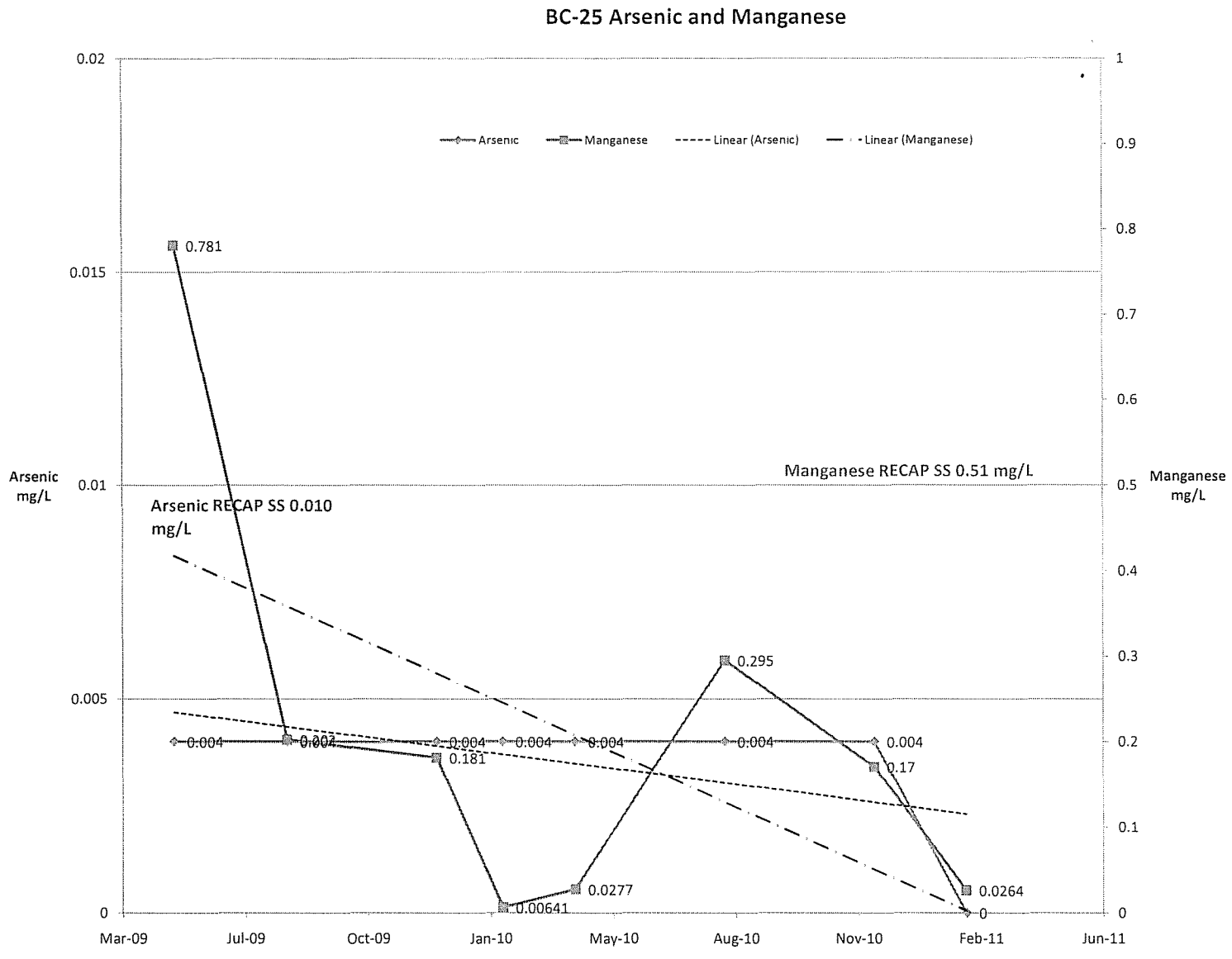

BC-21R Arsenic and Manganese
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.004
0.0763
0.00628
0.00886
0.00642
0.00468
0.0193
0.00649
0.00758
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

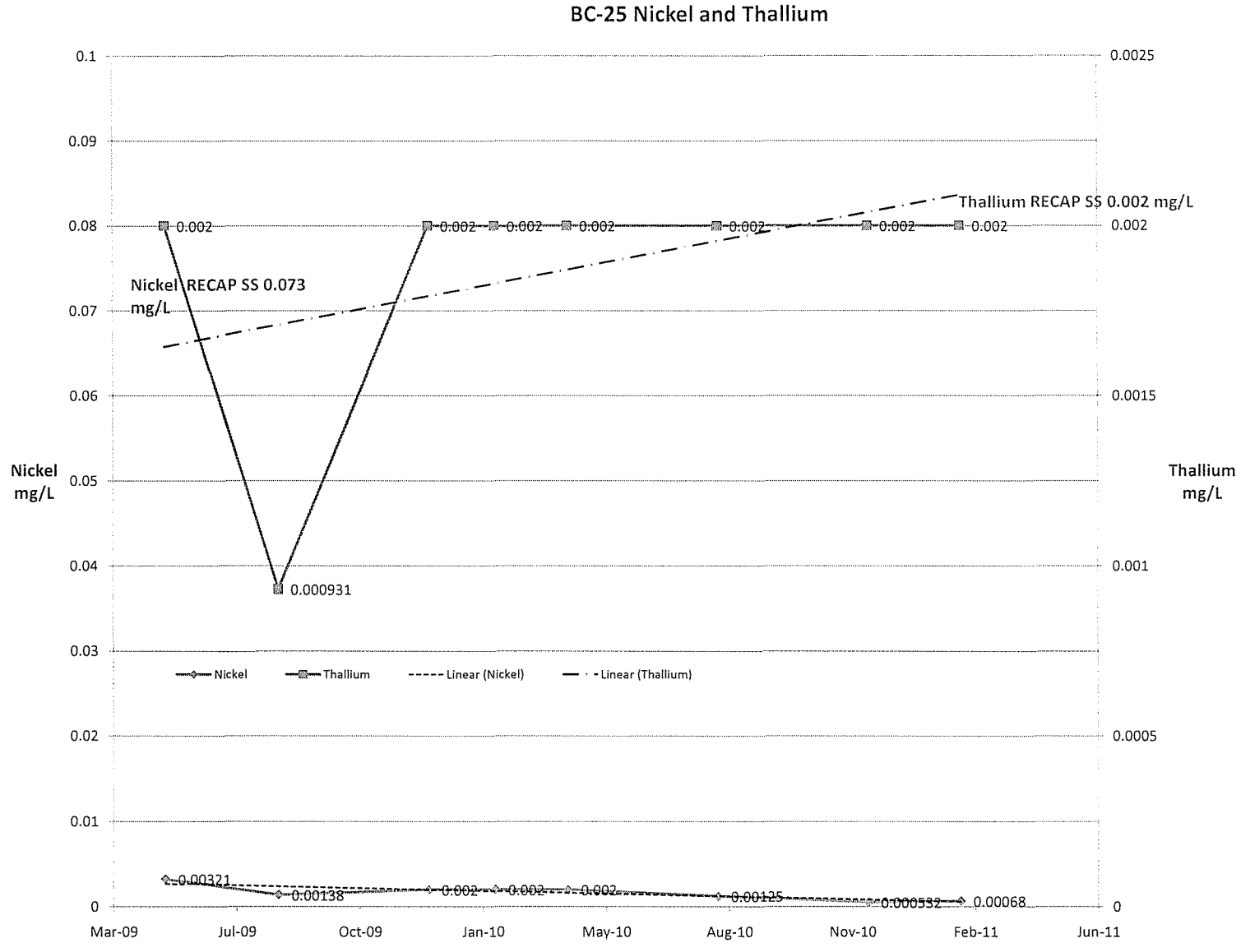

BC-21R Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000935
0.000416
0.00252
0.00265
0.000685
0.000979
0.00123
0.00187
0.00141
0.0025
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

BC-21R Cadmium and Zinc

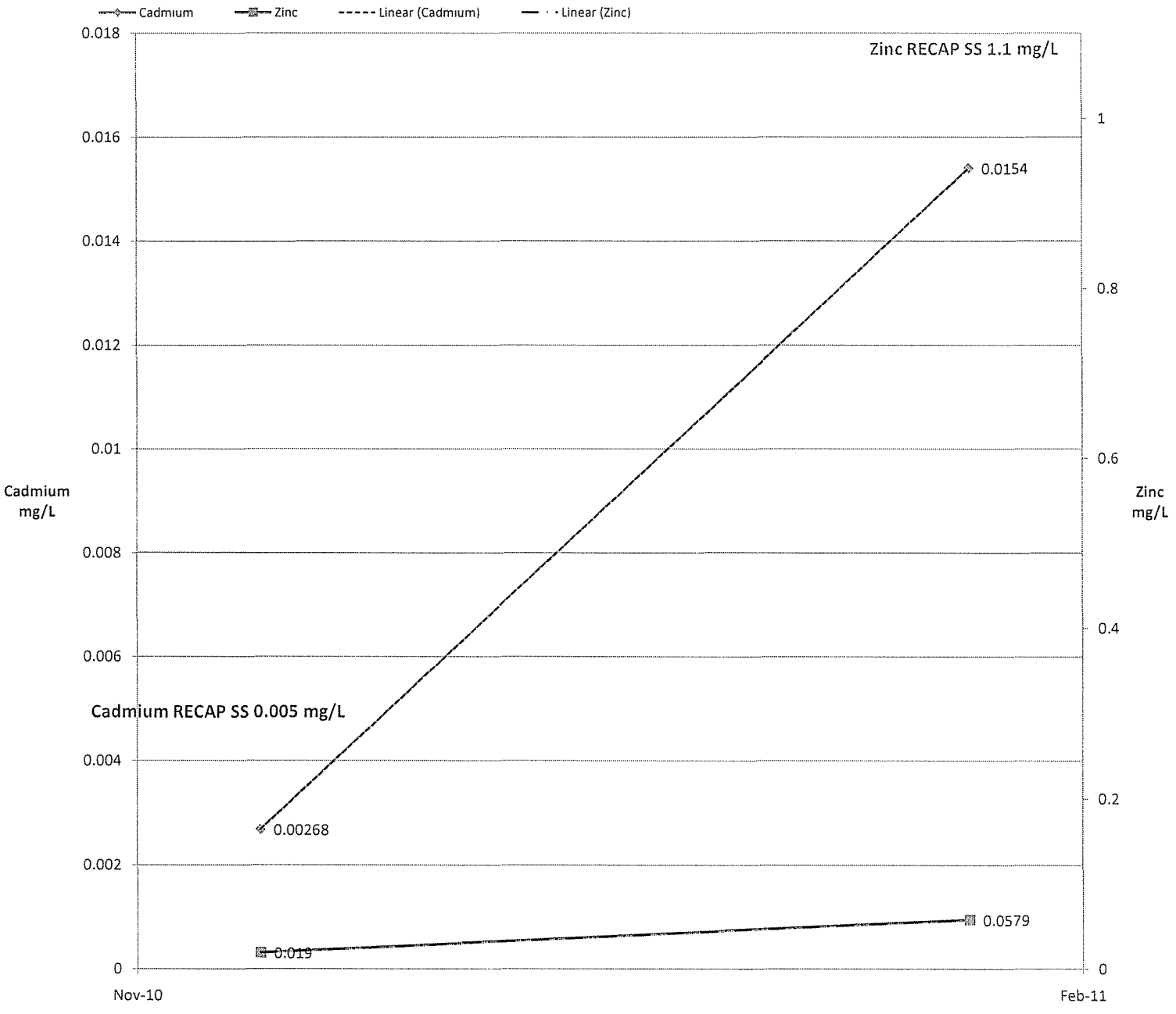



BC-25 pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
pH
(Standard Units)
Lead
mg/L
Lead Site Cleanup Level 0.015
mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
6.80
6.95
6.95
7.32
6.75
7.17
6.78
6.88
0.002
0.00087
0.002
0.000153
0.002
0.001
0.001
0.001
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)


BC-25 Arsenic and Manganese
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.781
0.004
0.002
0.004
0.004
0.004
0.004
0.004
0.181
0.00641
0.0277
0.295
0.17
0.0264
0
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

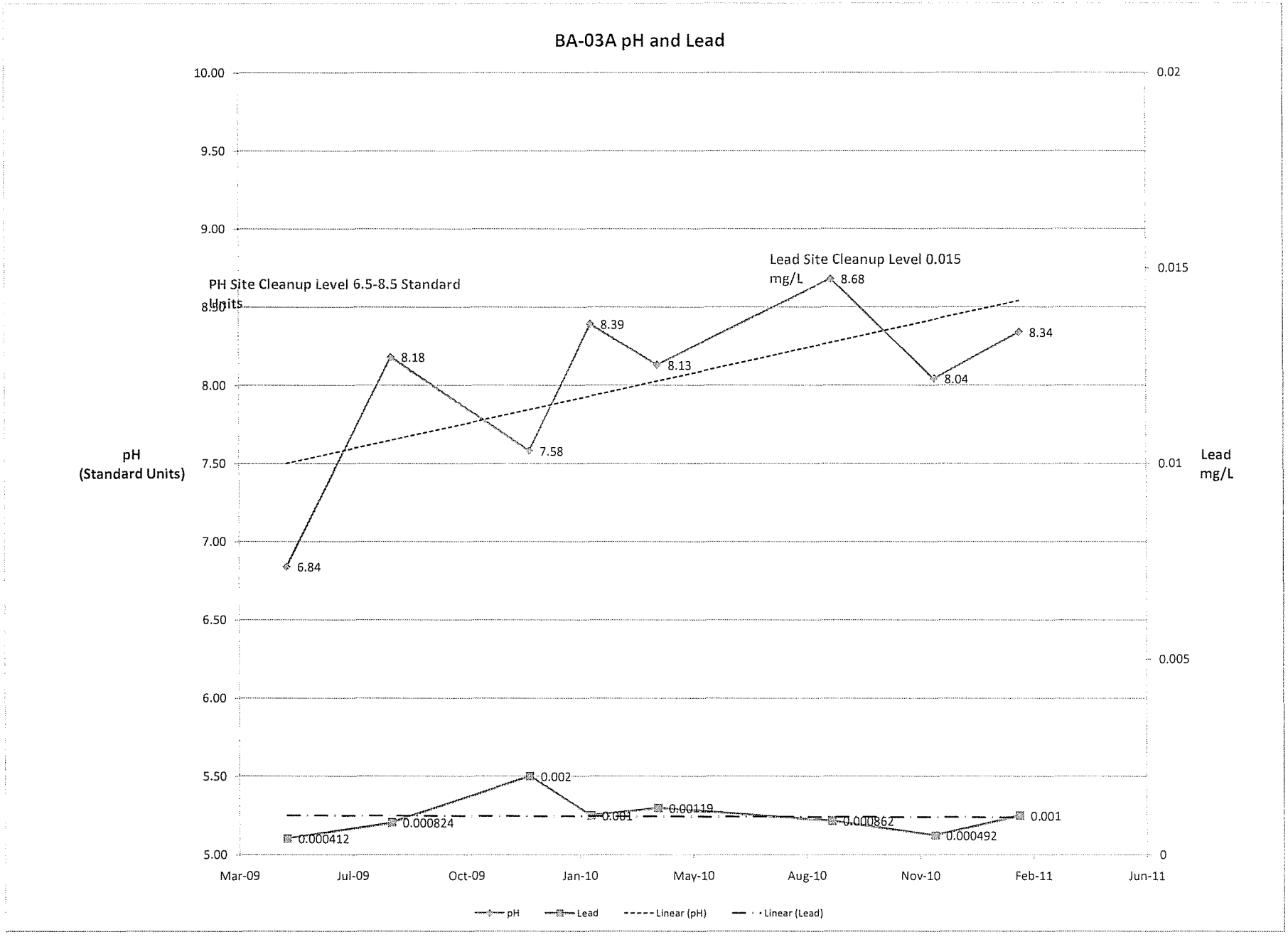

BC-25 Nickel and Thallium
Nickel mg/L
Thallium mg/L
Nickel RECAP SS 0.073 mg/L
Thallium RECAP SS 0.002 mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000931
0.00321
0.00138
0.00125
0.000532
0.00068
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

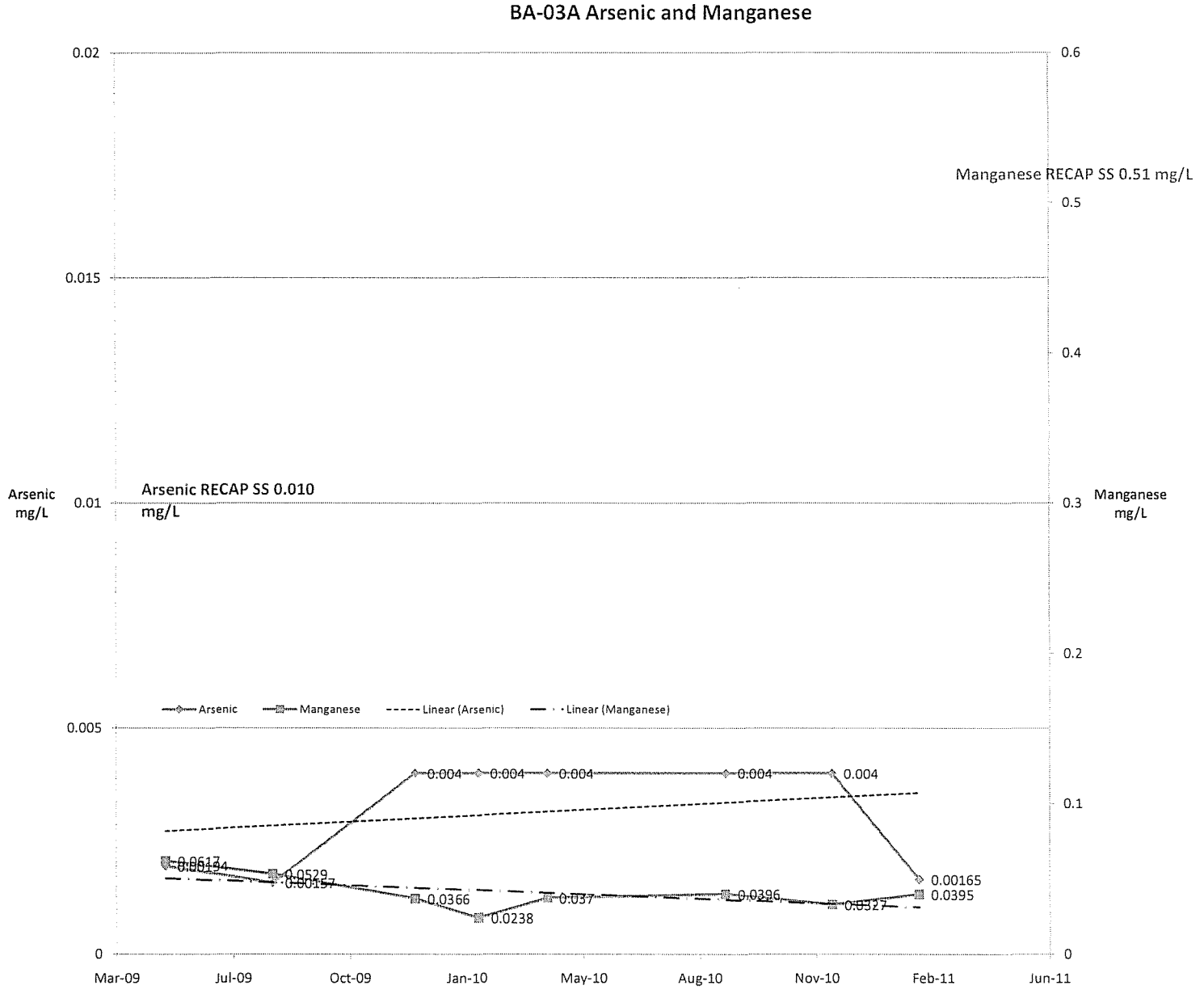
BC-25 Cadmium and Zinc

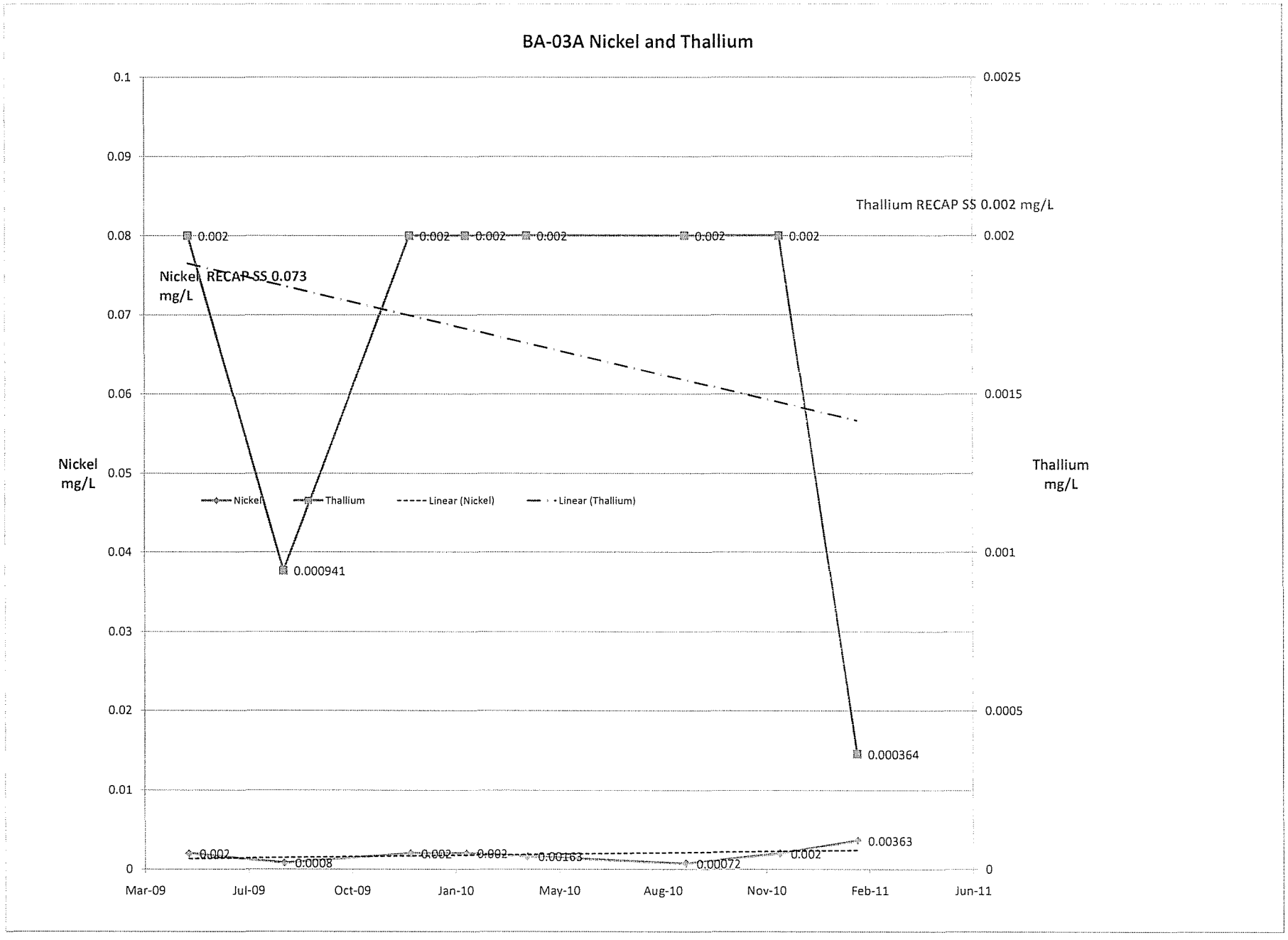


THIRD WATER BEARING ZONE

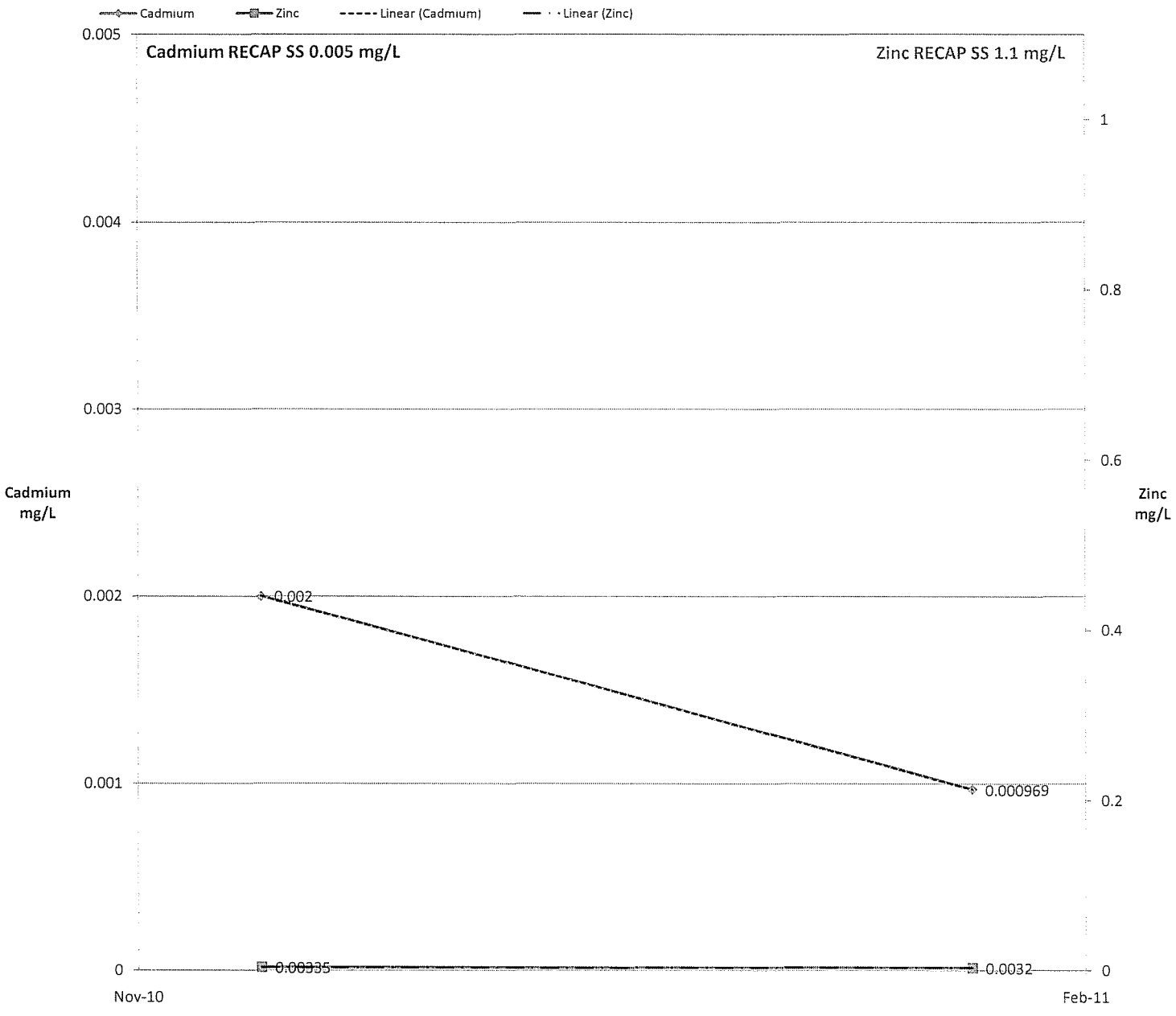
(PAST EIGHT QUARTERS)

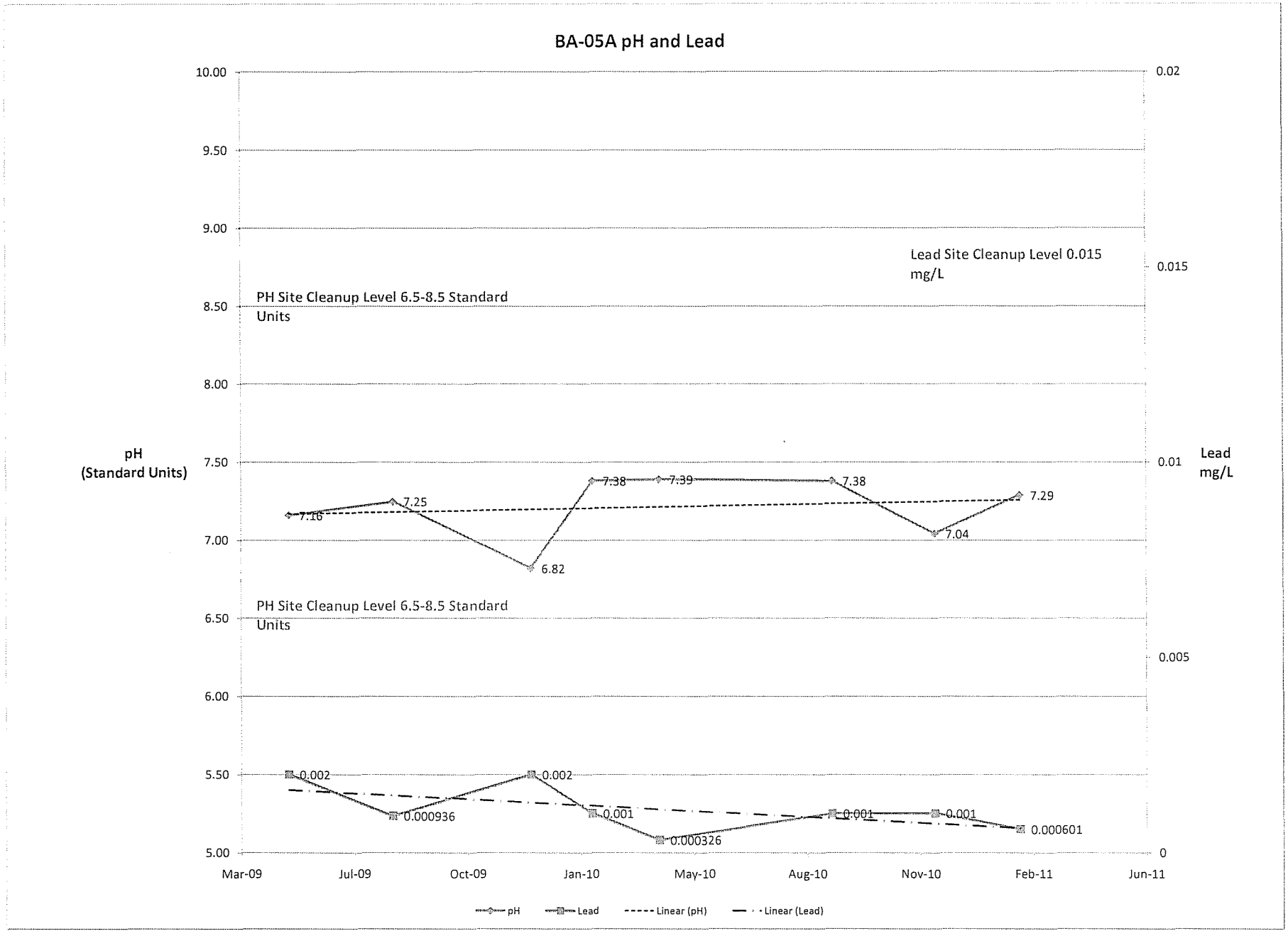

BA-03A pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
pH
(Standard Units)
Lead
mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
Lead Site Cleanup Level 0.015 mg/L
6.84
8.18
7.58
8.39
8.13
8.68
8.04
8.34
0.000412
0.000824
0.002
0.001
0.00119
0.000862
0.000492
0.001
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

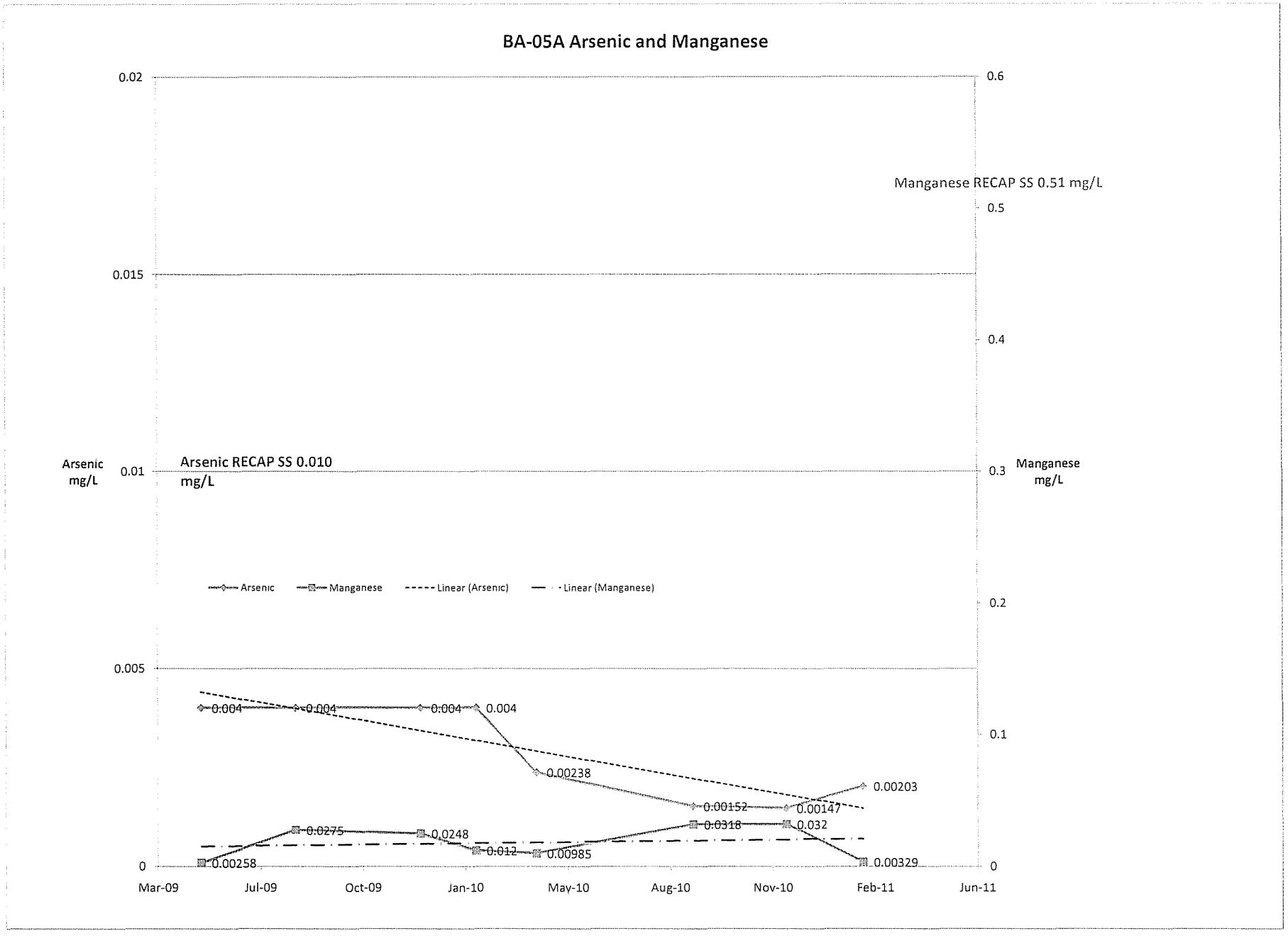

BA-03A Arsenic and Manganese
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.004
0.00165
0.0395
0.0529
0.0366
0.0238
0.037
0.0396
0.0327
0.0617
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

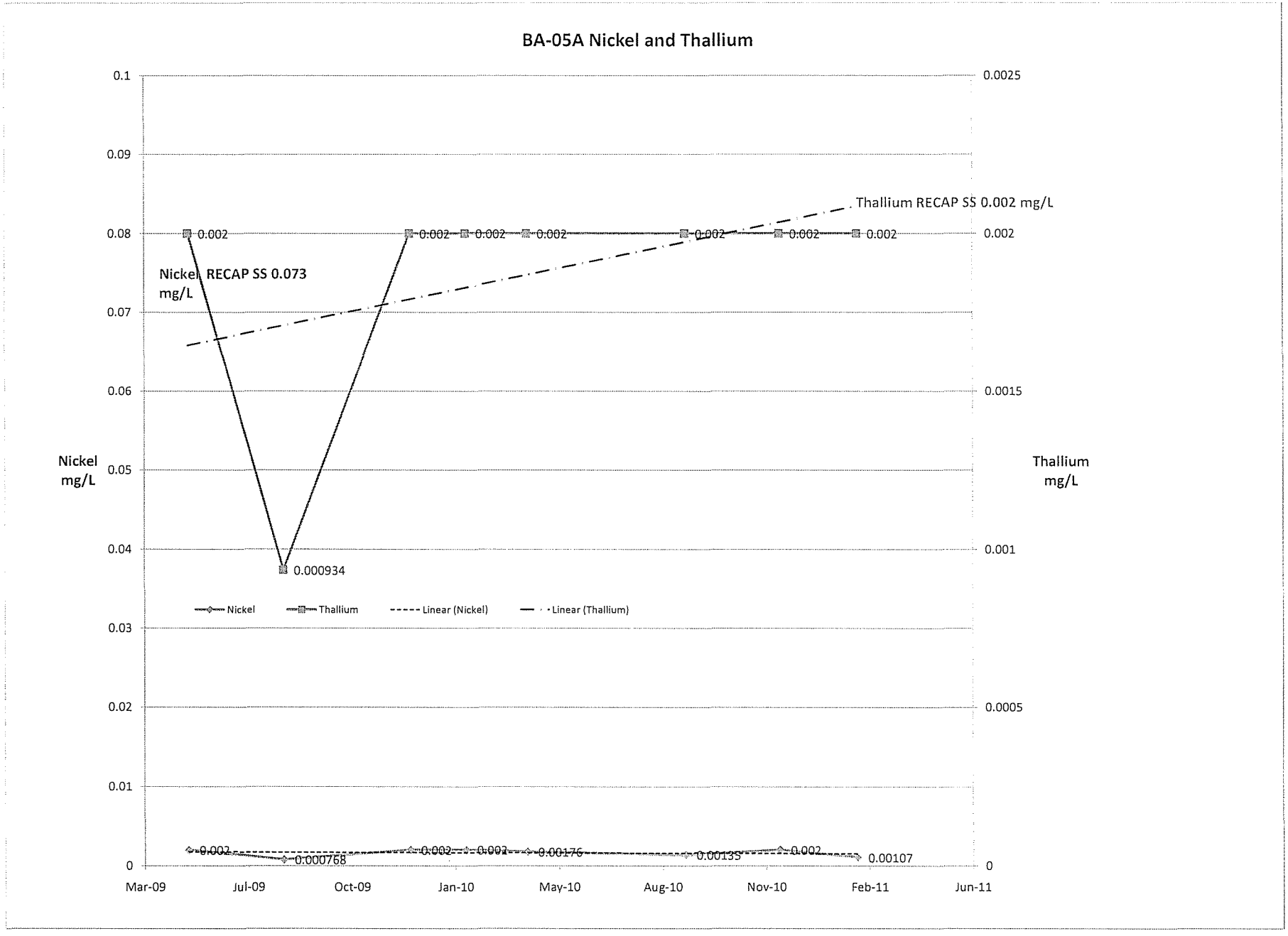

BA-03A Nickel and Thallium
Nickel mg/L
Thallium mg/L
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000941
0.000364
0.00363
0.0008
0.00163
0.00072
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

BA-03A Cadmium and Zinc

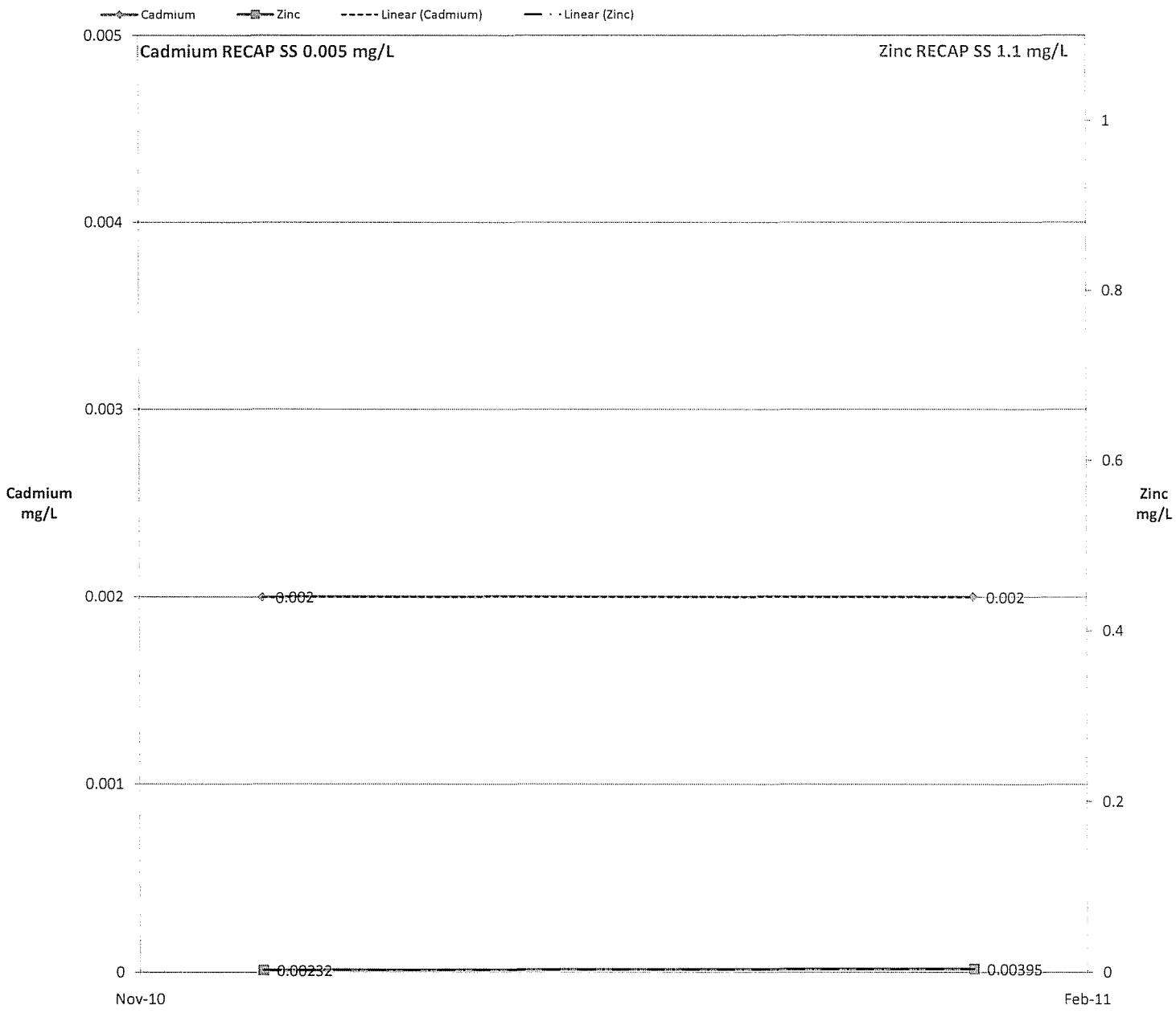


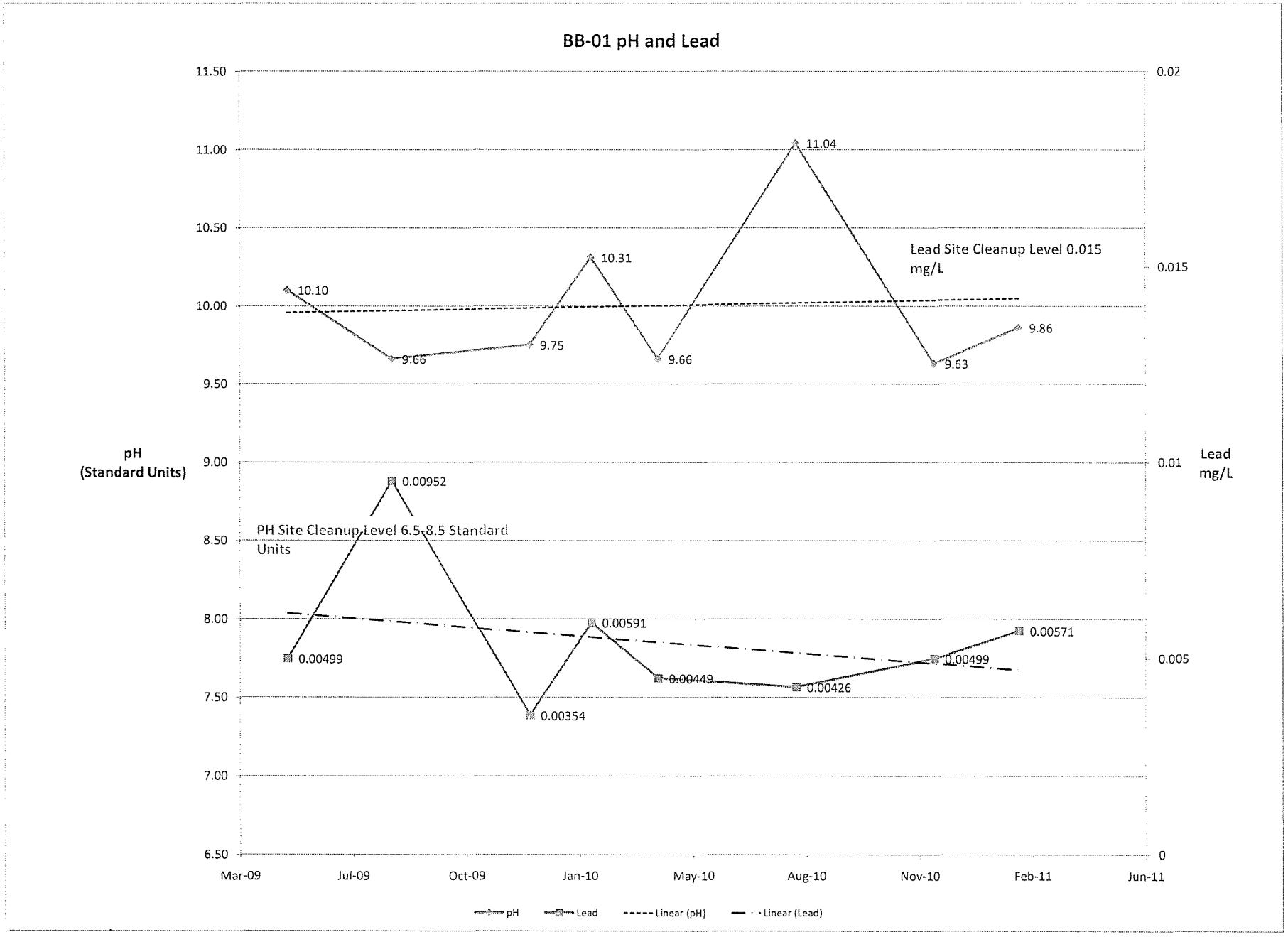

BA-05A pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
pH (Standard Units)
Lead mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
PH Site Cleanup Level 6.5-8.5 Standard Units
7.16
7.25
6.82
7.38
7.39
7.38
7.04
7.29
0.002
0.000936
0.002
0.001
0.000326
0.001
0.001
0.000601
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

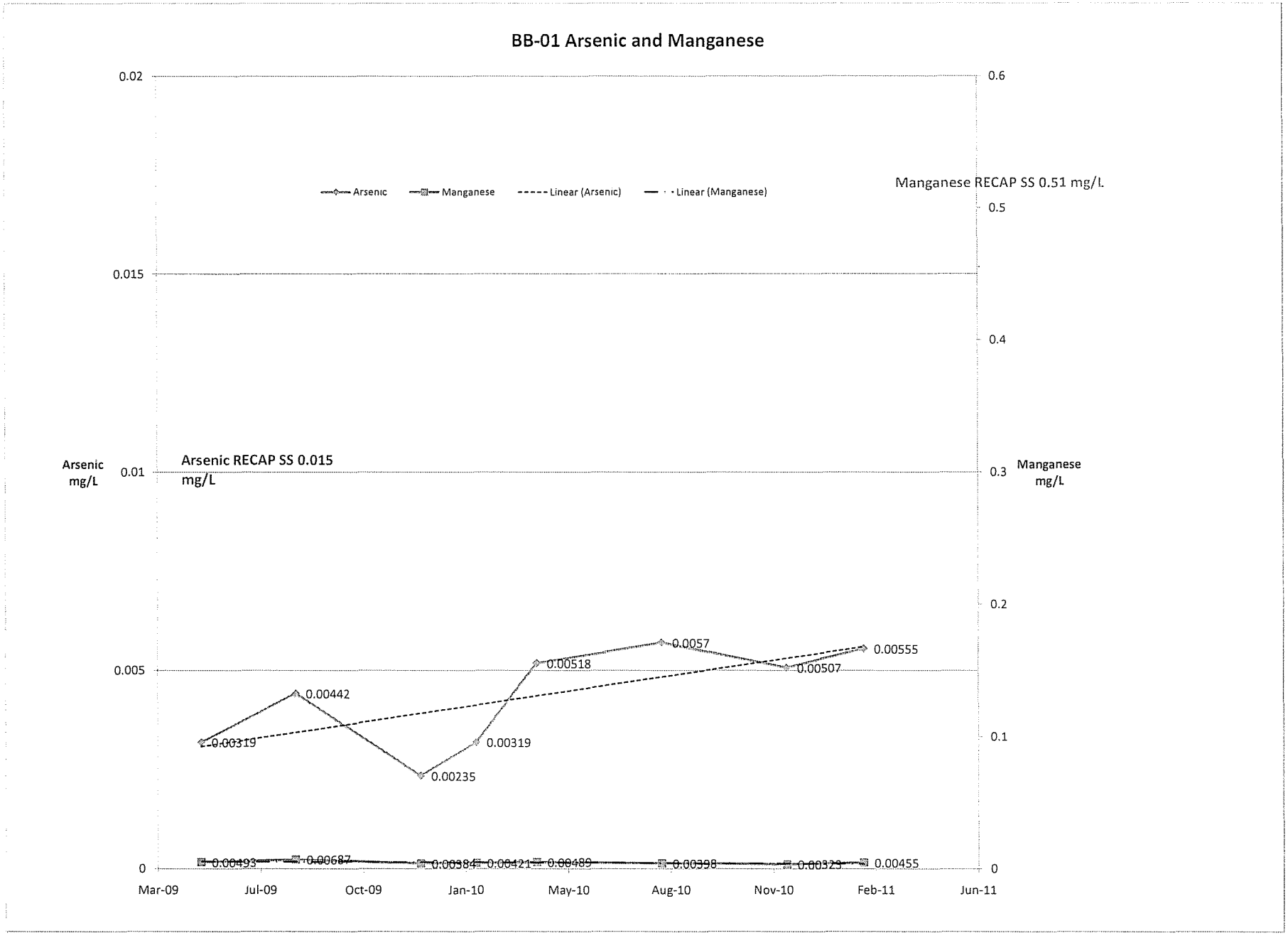

BA-05A Arsenic and Manganese
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.004
0.004
0.004
0.004
0.00238
0.00152
0.00147
0.00203
0.00258
0.0275
0.0248
0.012
0.00985
0.0318
0.032
0.00329
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

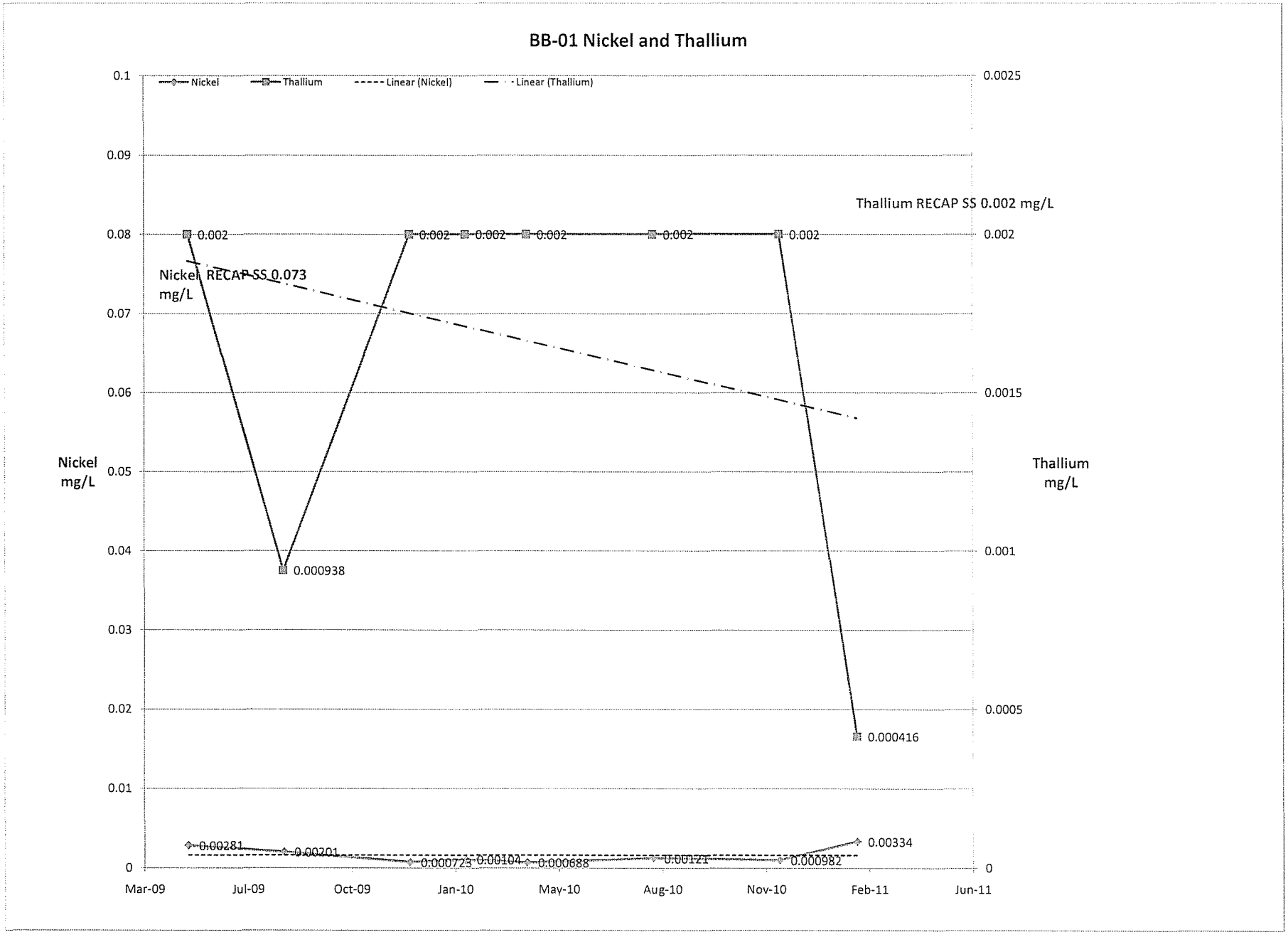

BA-05A Nickel and Thallium
Nickel mg/L
Thallium mg/L
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.002
0.002
0.002
0.002
0.002
0.002
0.000934
0.002
0.000768
0.002
0.002
0.00176
0.00135
0.002
0.00107
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

BA-05A Cadmium and Zinc

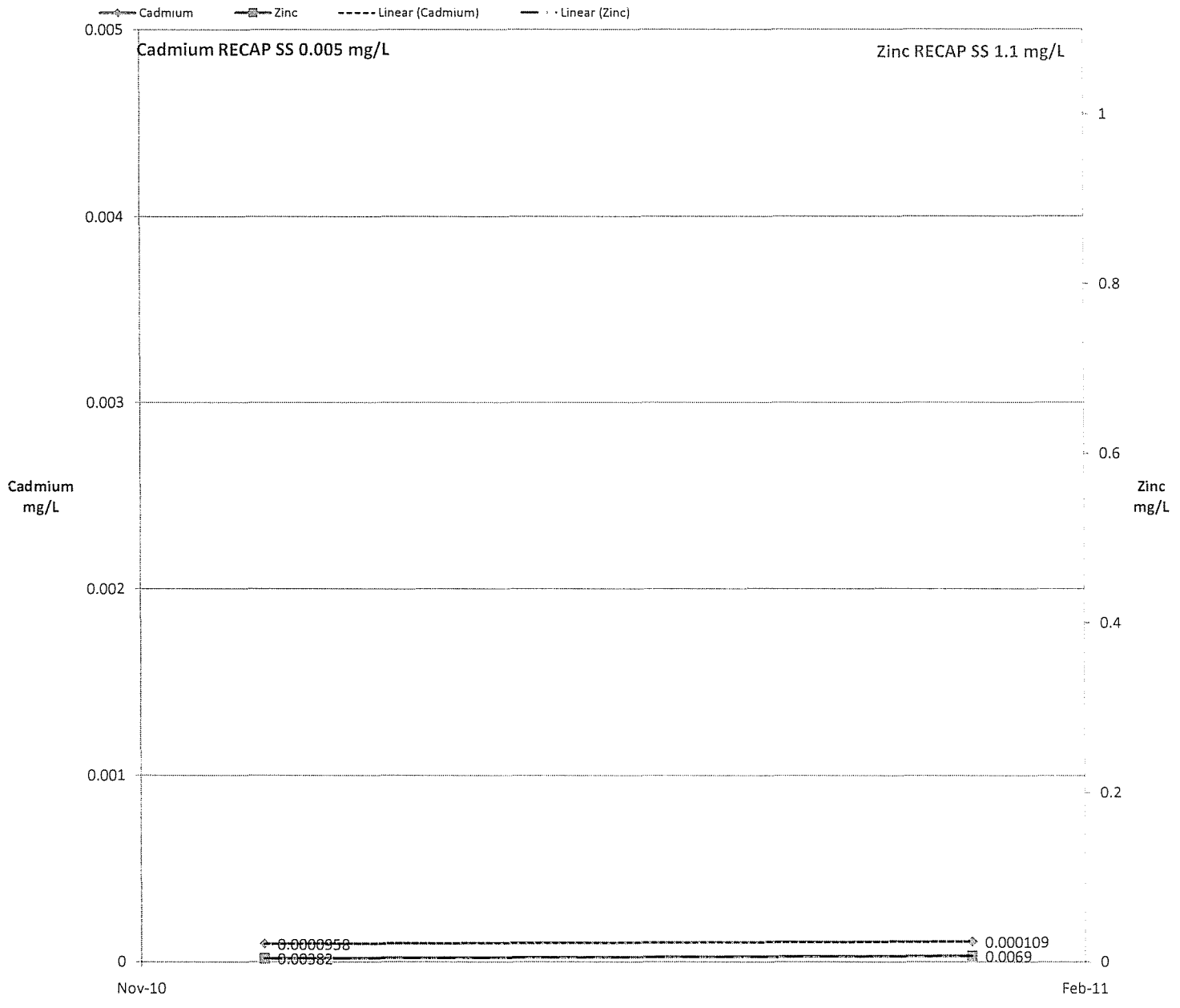


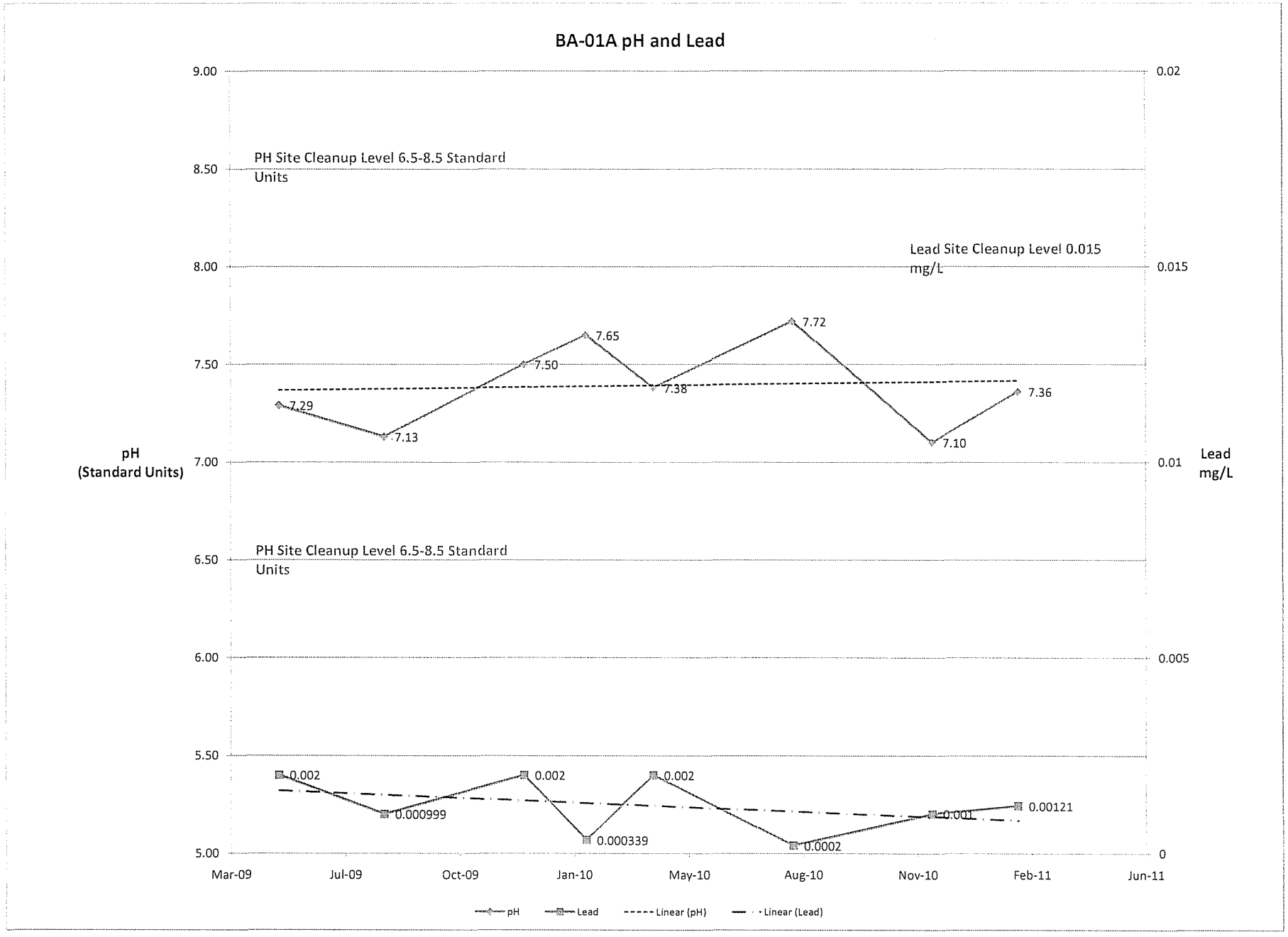

BB-01 pH and Lead
11.50
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
0.02
0.015
0.01
0.005
0
pH (Standard Units)
Lead mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
10.10
9.66
9.75
10.31
9.66
11.04
9.63
9.86
0.00499
0.00952
0.00354
0.00591
0.00449
0.00426
0.00499
0.00571
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

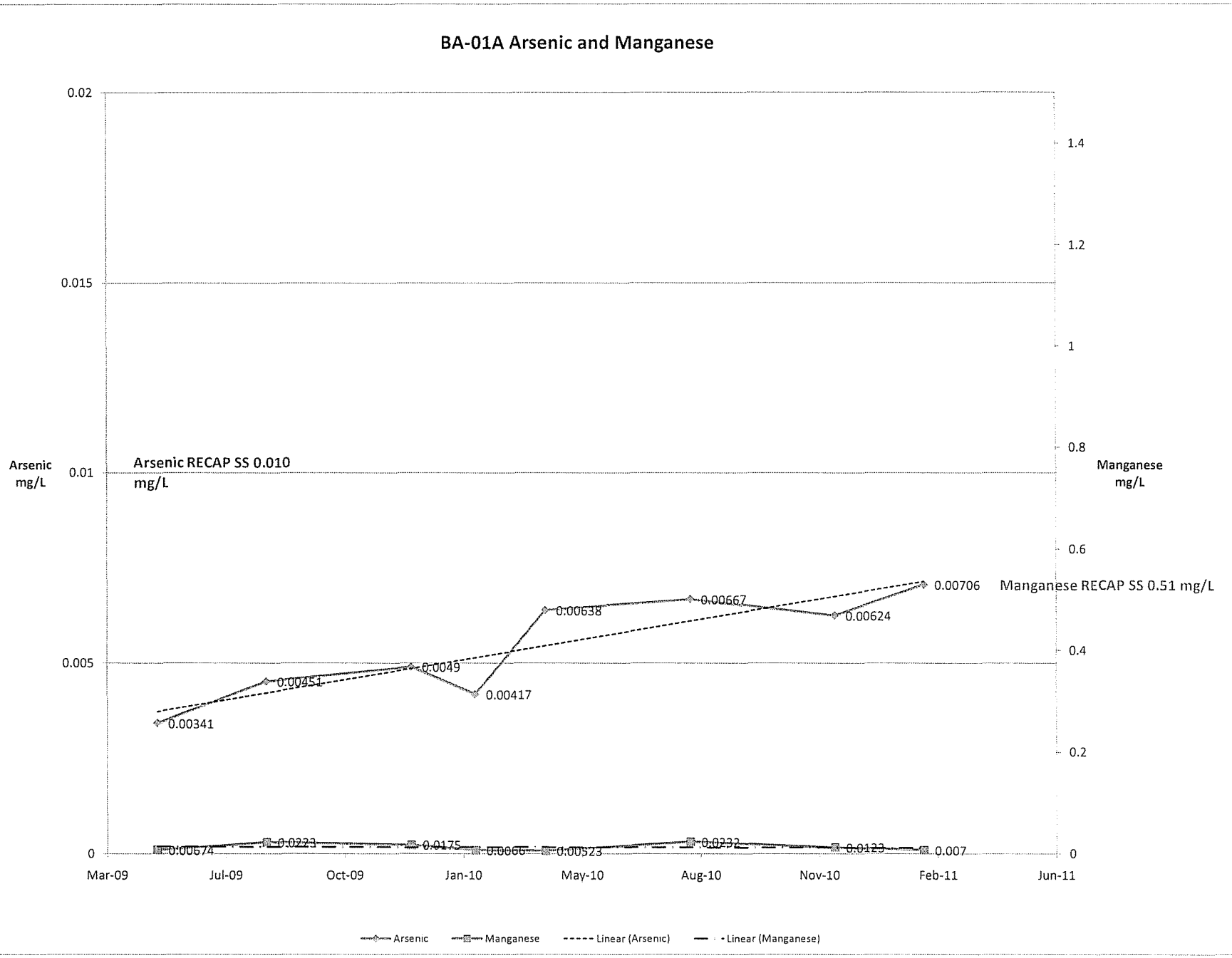

BB-01 Arsenic and Manganese
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.015 mg/L
Arsenic mg/L
Manganese mg/L
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.00319
0.00442
0.00235
0.00319
0.00518
0.0057
0.00507
0.00555
0.00493
0.00687
0.00384
0.00421
0.00489
0.00398
0.00325
0.00455
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

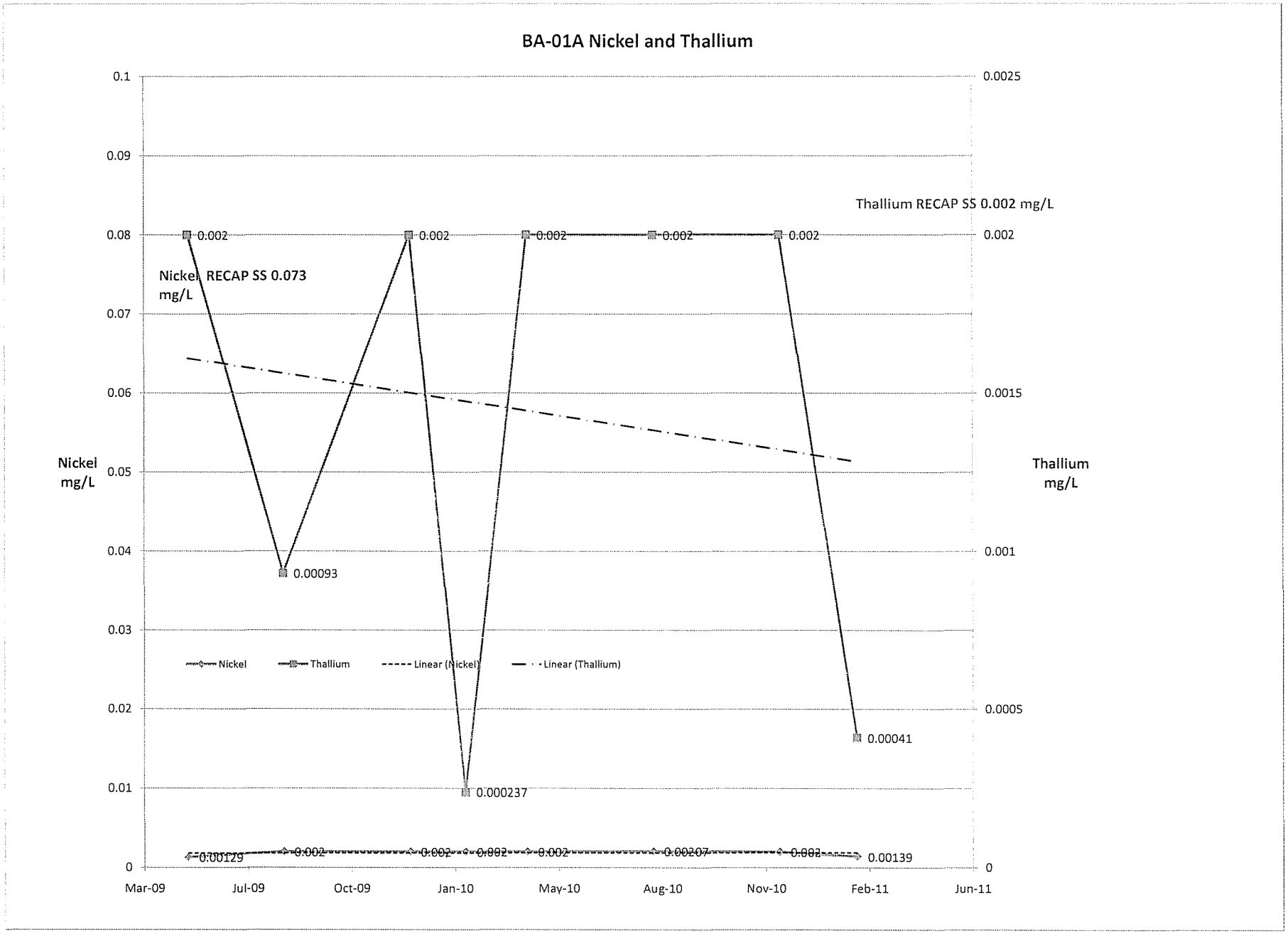

BB-01 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000938
0.000416
0.00281
0.00201
0.000723
0.00104
0.000688
0.00121
0.000982
0.00334
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

BB-01 Cadmium and Zinc

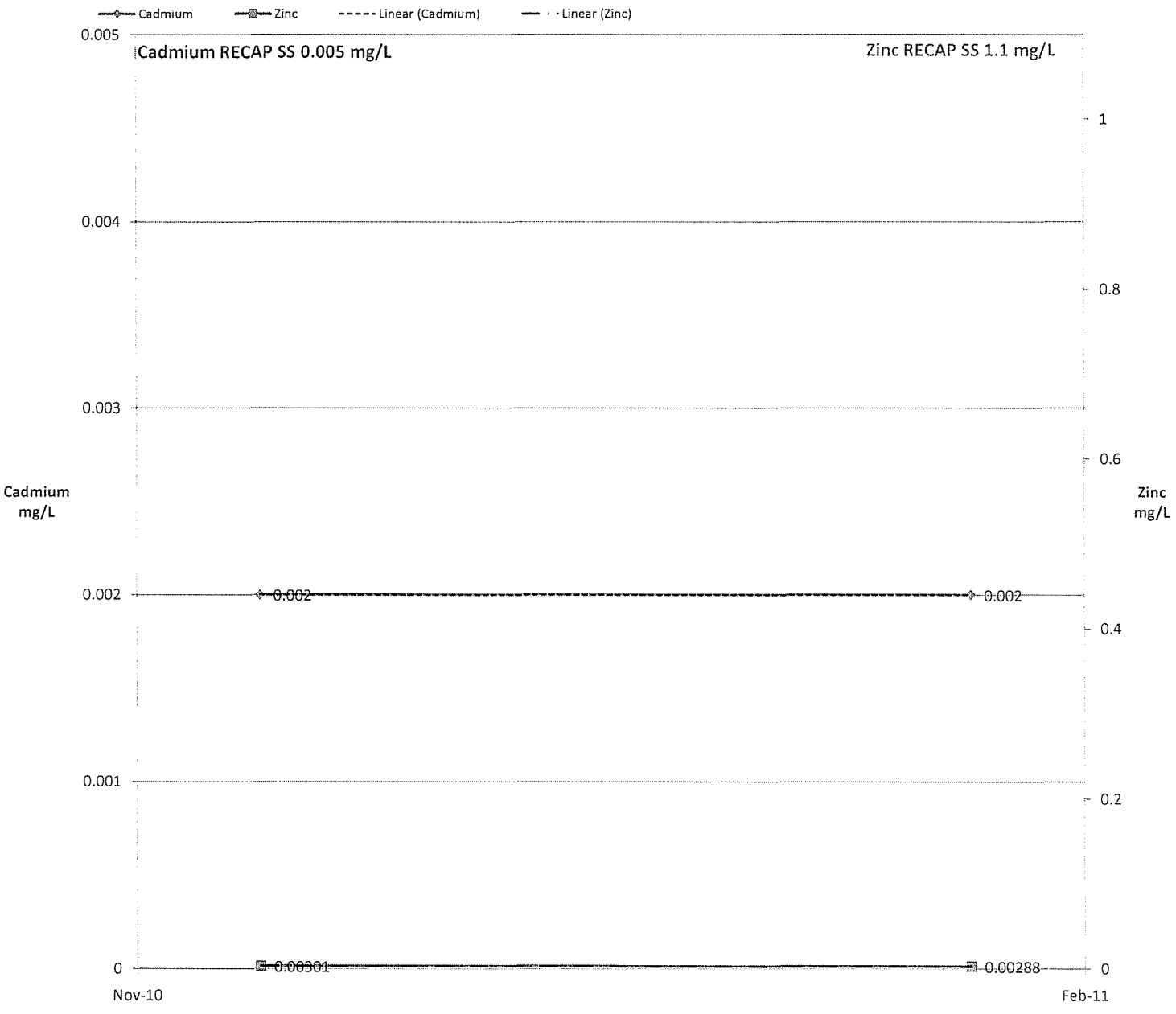



BA-01A pH and Lead
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
pH
(Standard Units)
Lead
mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
7.29
7.13
7.50
7.65
7.38
7.72
7.10
7.36
0.002
0.000999
0.002
0.000339
0.002
0.0002
0.001
0.00121
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)


BA-01A Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.00341
0.00451
0.0049
0.00417
0.00638
0.00667
0.00624
0.00706
0.00674
0.0223
0.0175
0.0066
0.00523
0.0232
0.0123
0.007
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

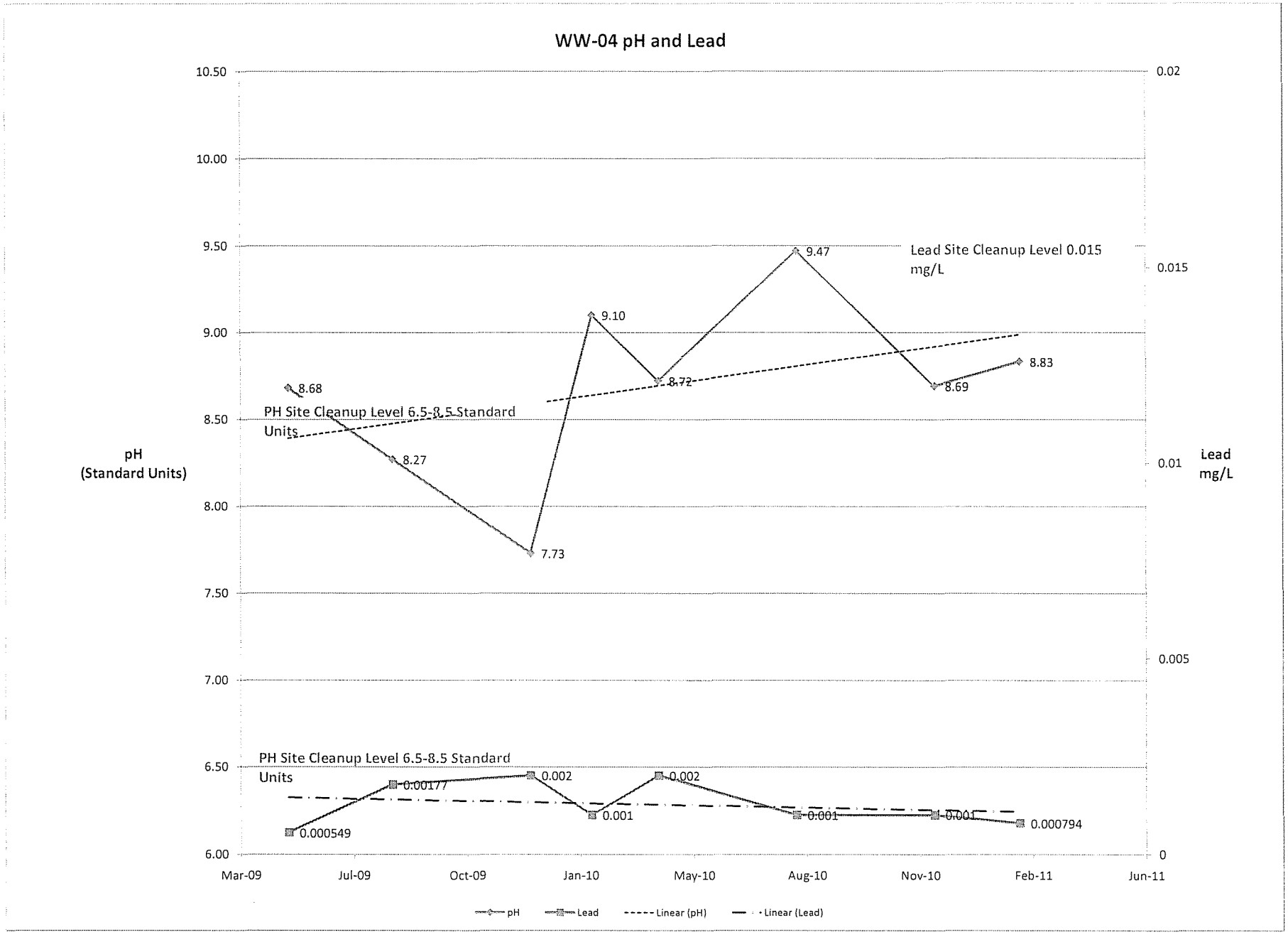

BA-01A Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.00093
0.000237
0.00041
0.00129
0.00139
0.00207
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

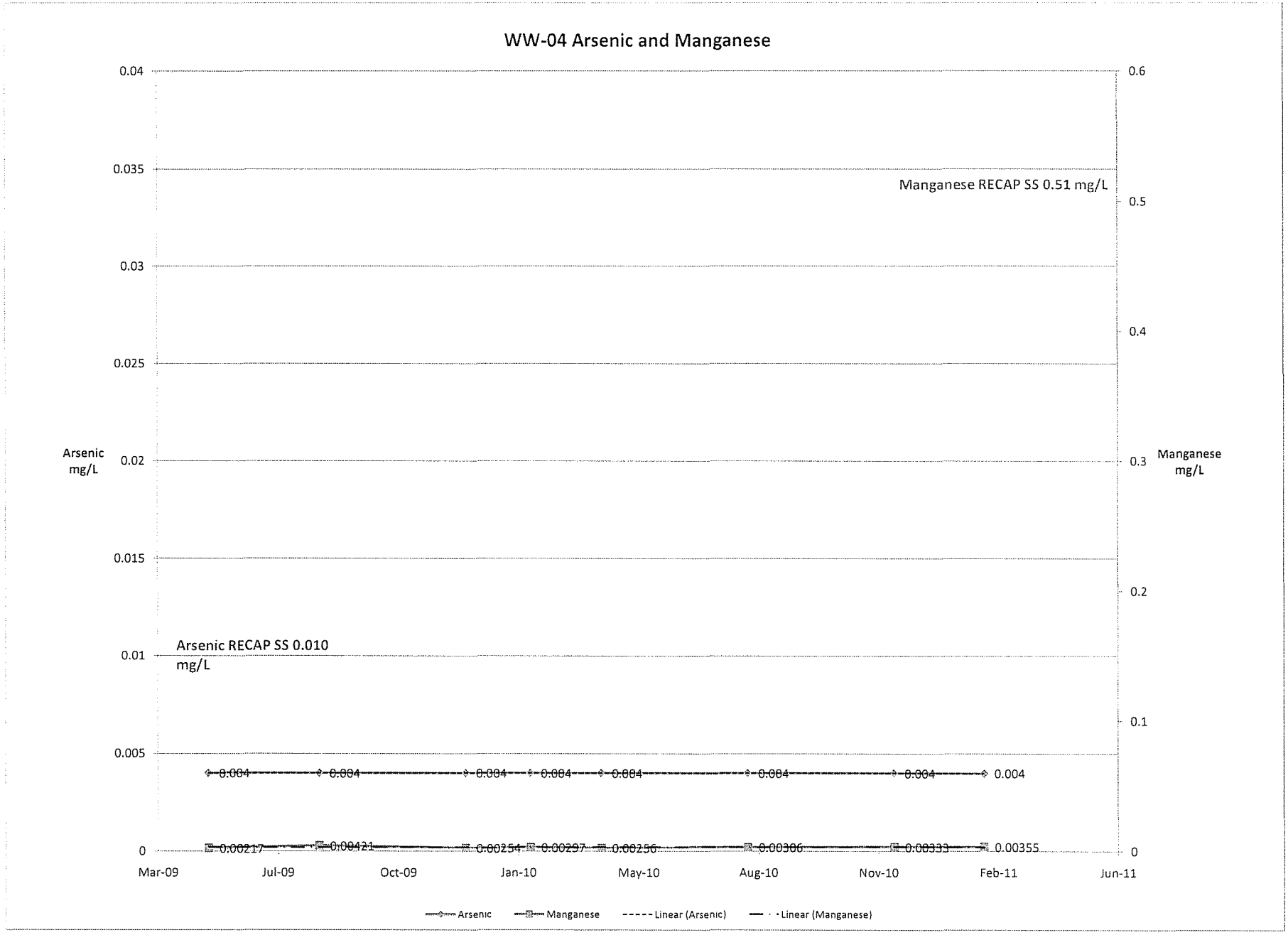
BA-01A Cadmium and Zinc

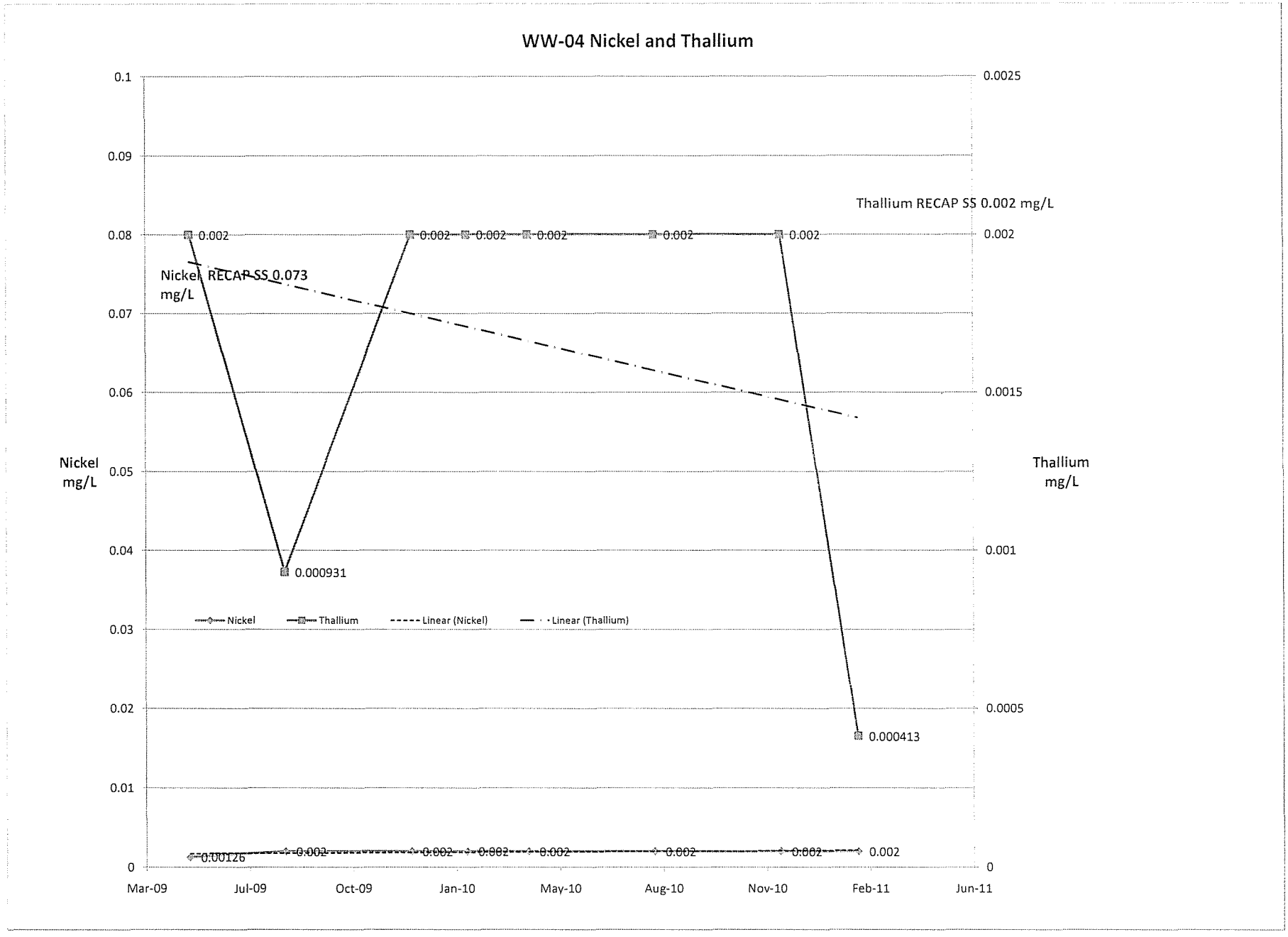


WATER WELLS

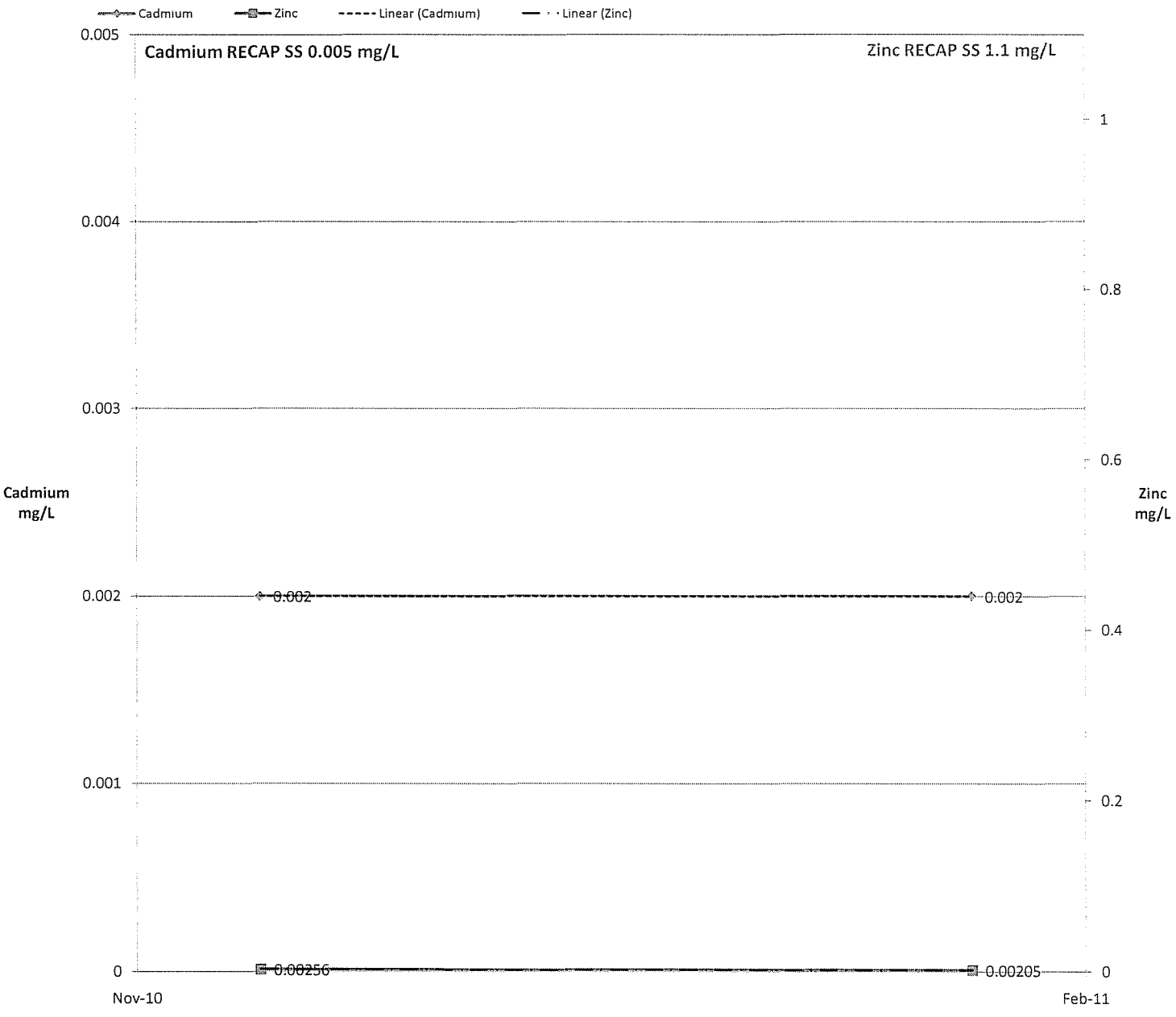
(PAST EIGHT QUARTERS)

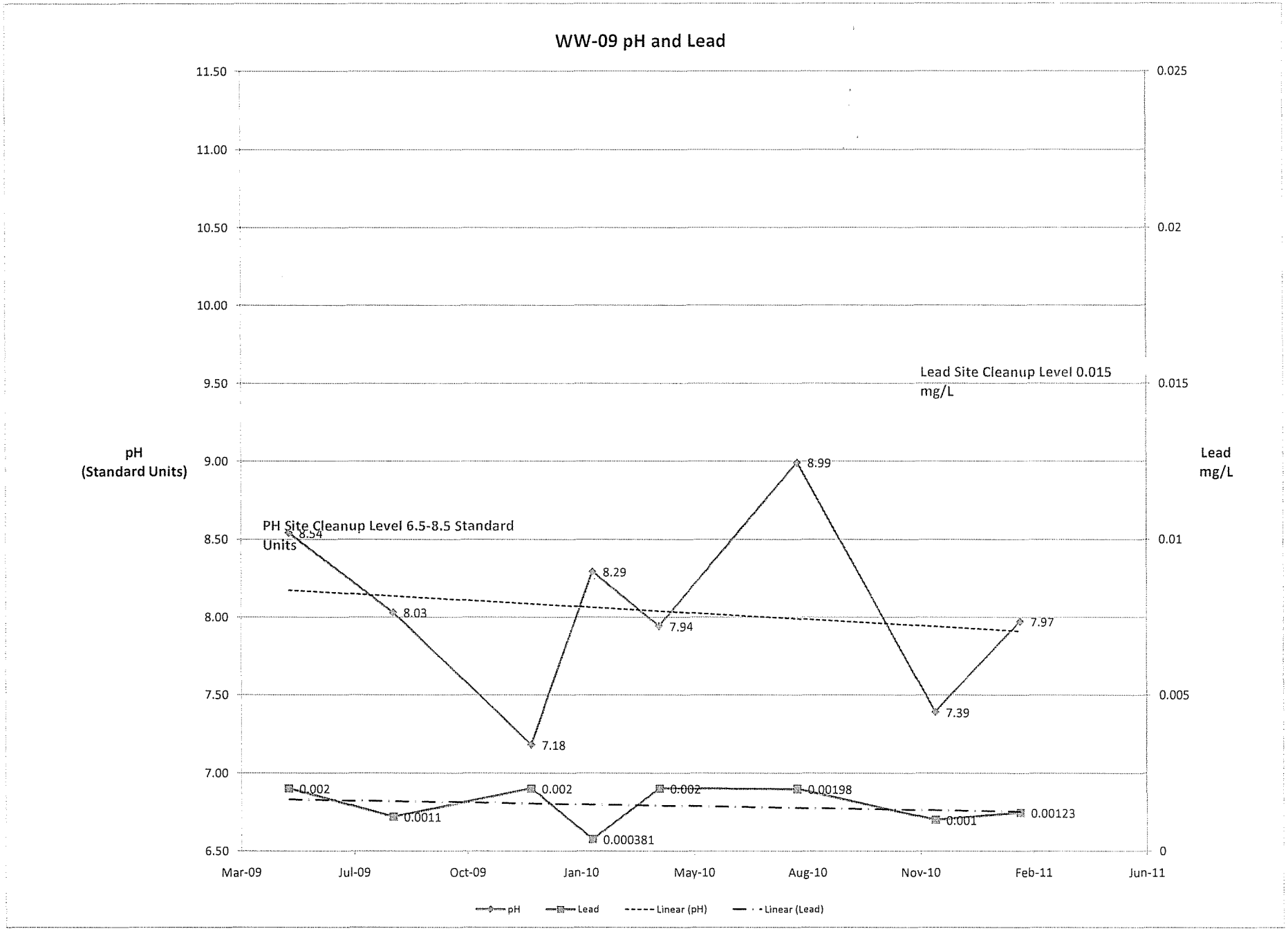

WW-04 pH and Lead
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
pH
(Standard Units)
0.02
0.015
0.01
0.005
0
Lead
mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
PH Site Cleanup Level 6.5-8.5 Standard Units
8.68
8.27
7.73
9.10
8.72
9.47
8.69
8.83
0.000549
0.00177
0.002
0.001
0.002
0.001
0.001
0.000794
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

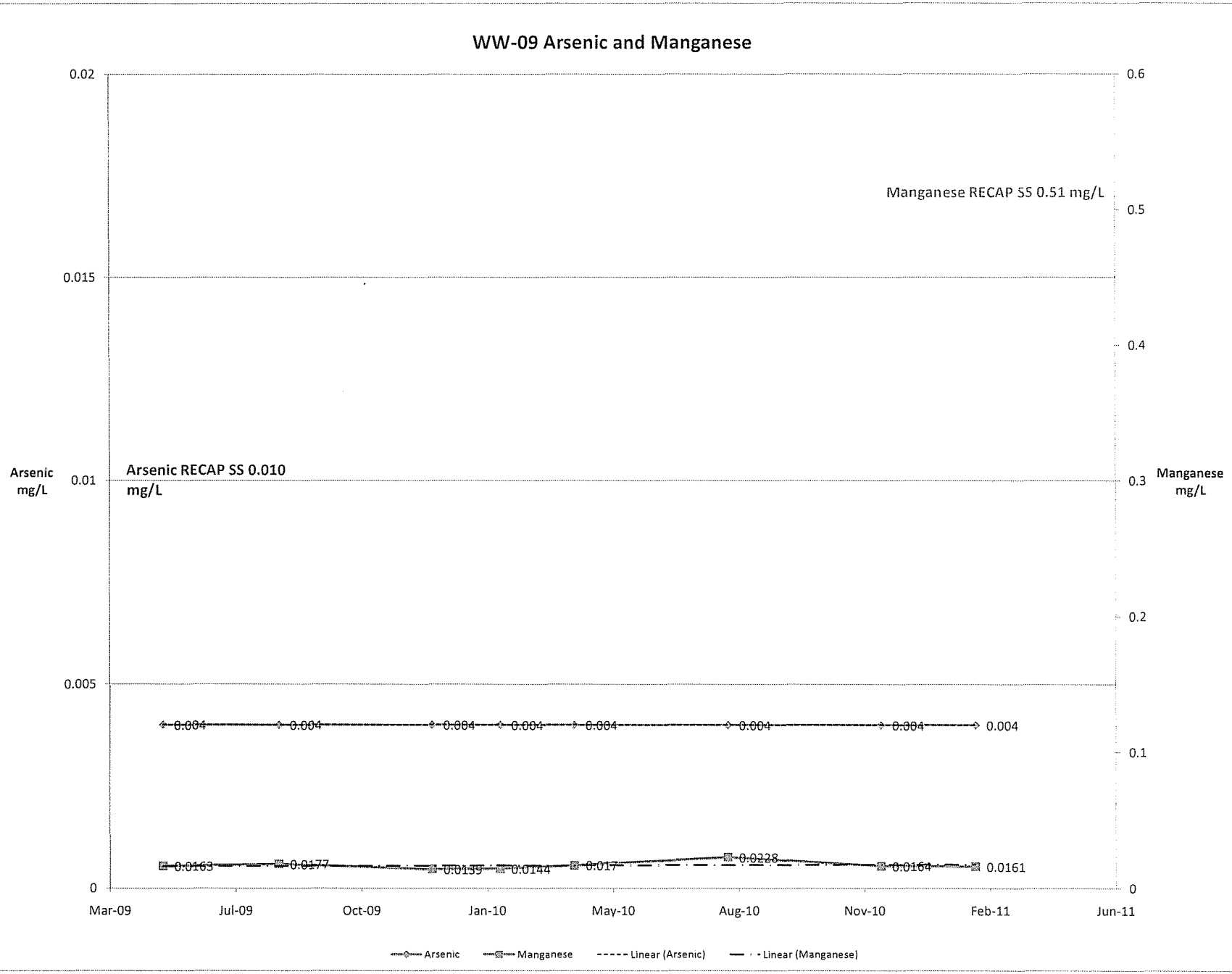

WW-04 Arsenic and Manganese
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Arsenic mg/L
Manganese mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
0.004
0.004
0.004
0.004
0.004
0.004
0.004
0.004
0.00217
0.00421
0.00254
0.00297
0.00256
0.00306
0.00333
0.00355
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

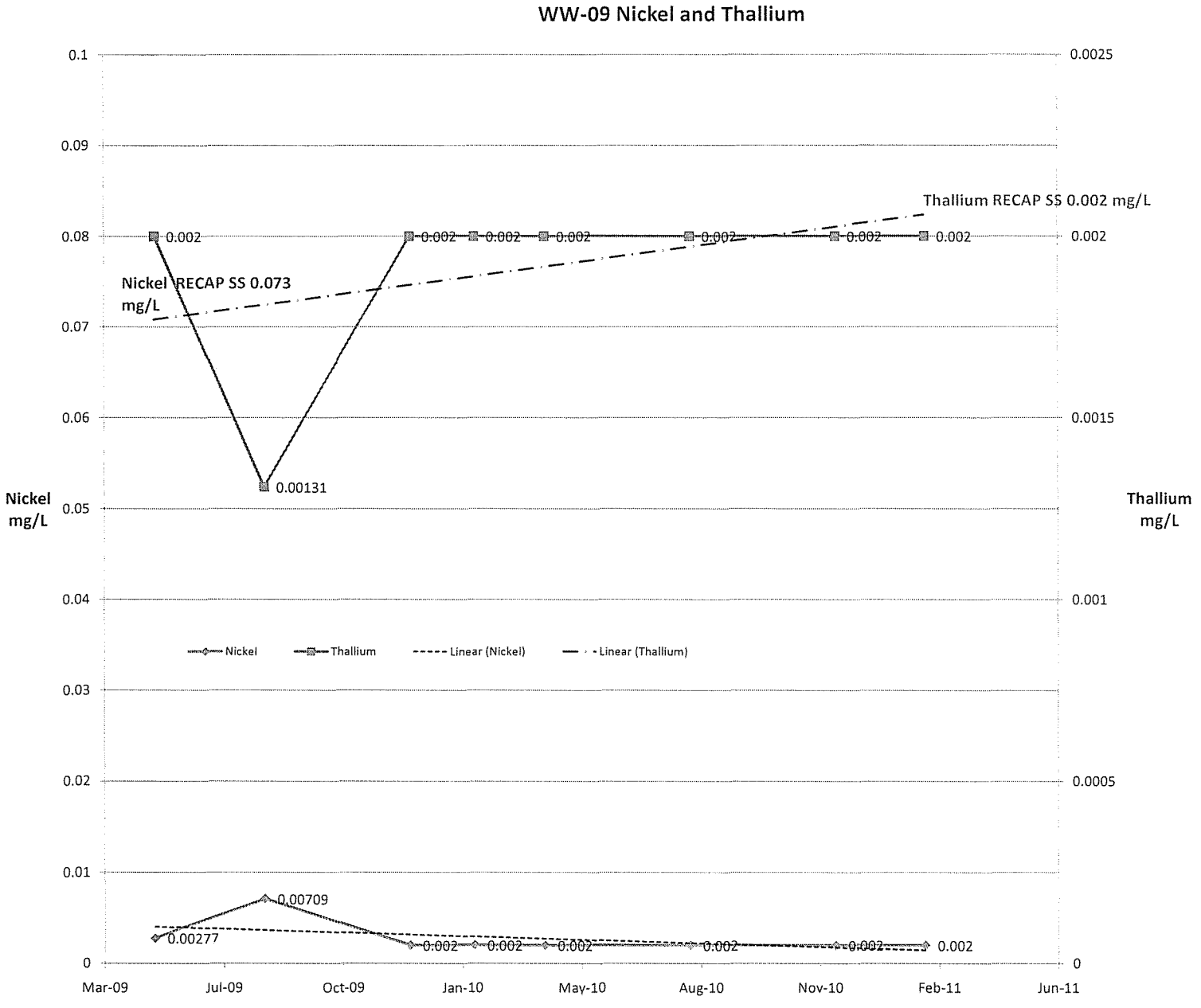

WW-04 Nickel and Thallium
Nickel mg/L
Thallium mg/L
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000931
0.000413
0.00126
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

WW-04 Cadmium and Zinc

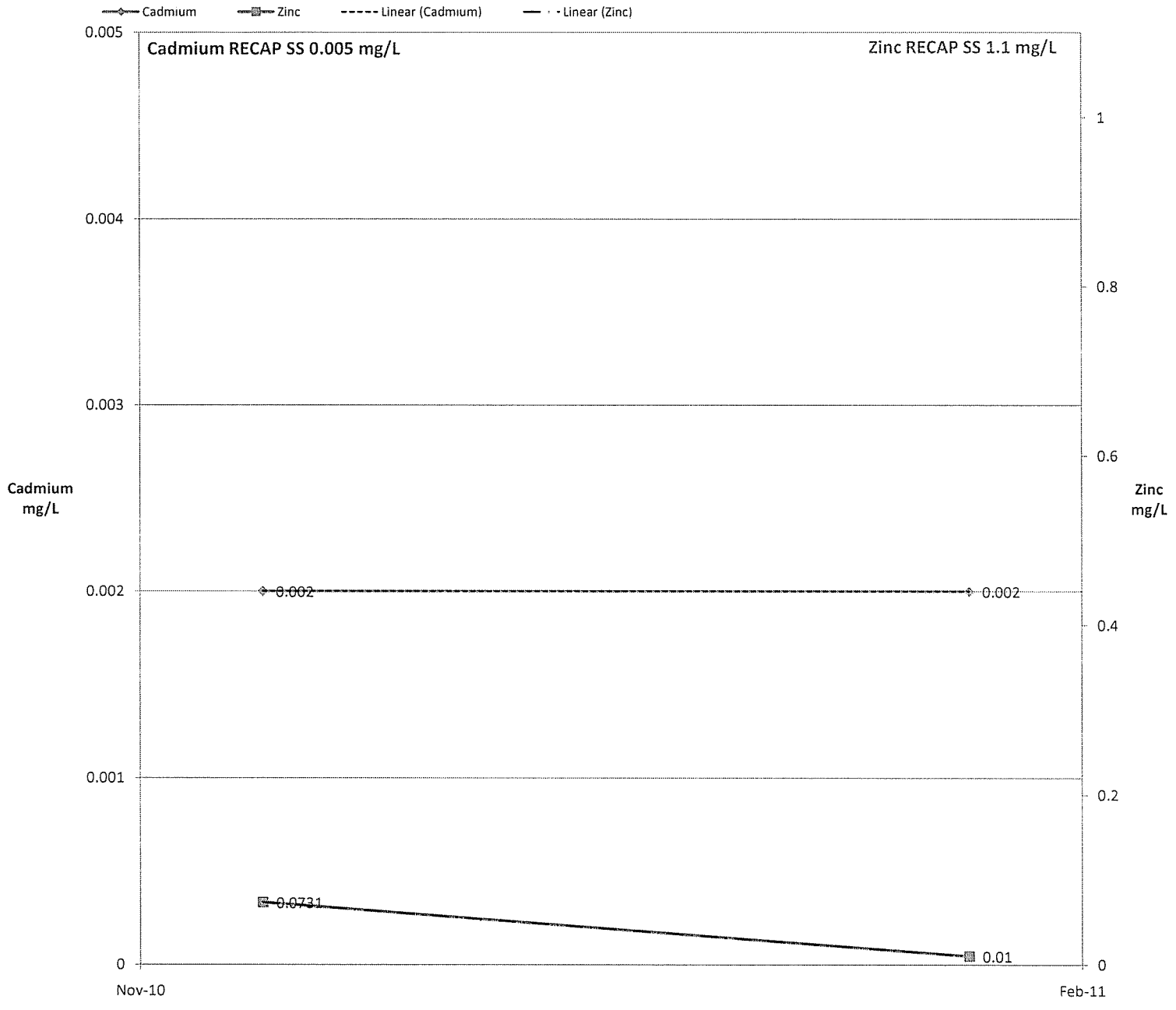


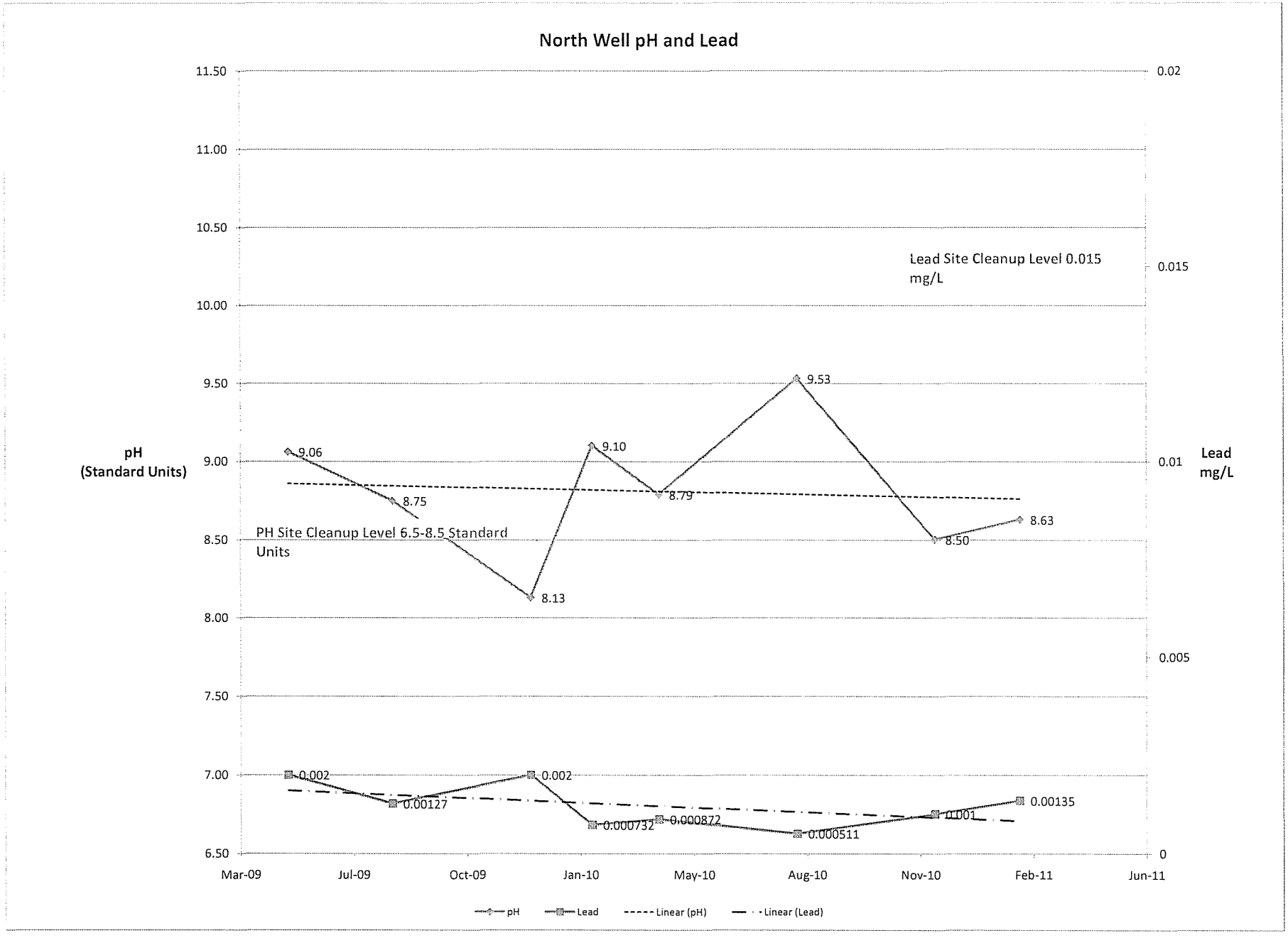

WW-09 pH and Lead
11.50
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
0.025
0.02
0.015
0.01
0.005
0
pH
(Standard Units)
Lead
mg/L
Lead Site Cleanup Level 0.015
mg/L
PH Site Cleanup Level 6.5-8.5 Standard
Units
8.54
8.03
7.18
8.29
7.94
8.99
7.39
7.97
0.002
0.0011
0.002
0.000381
0.002
0.00198
0.001
0.00123
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

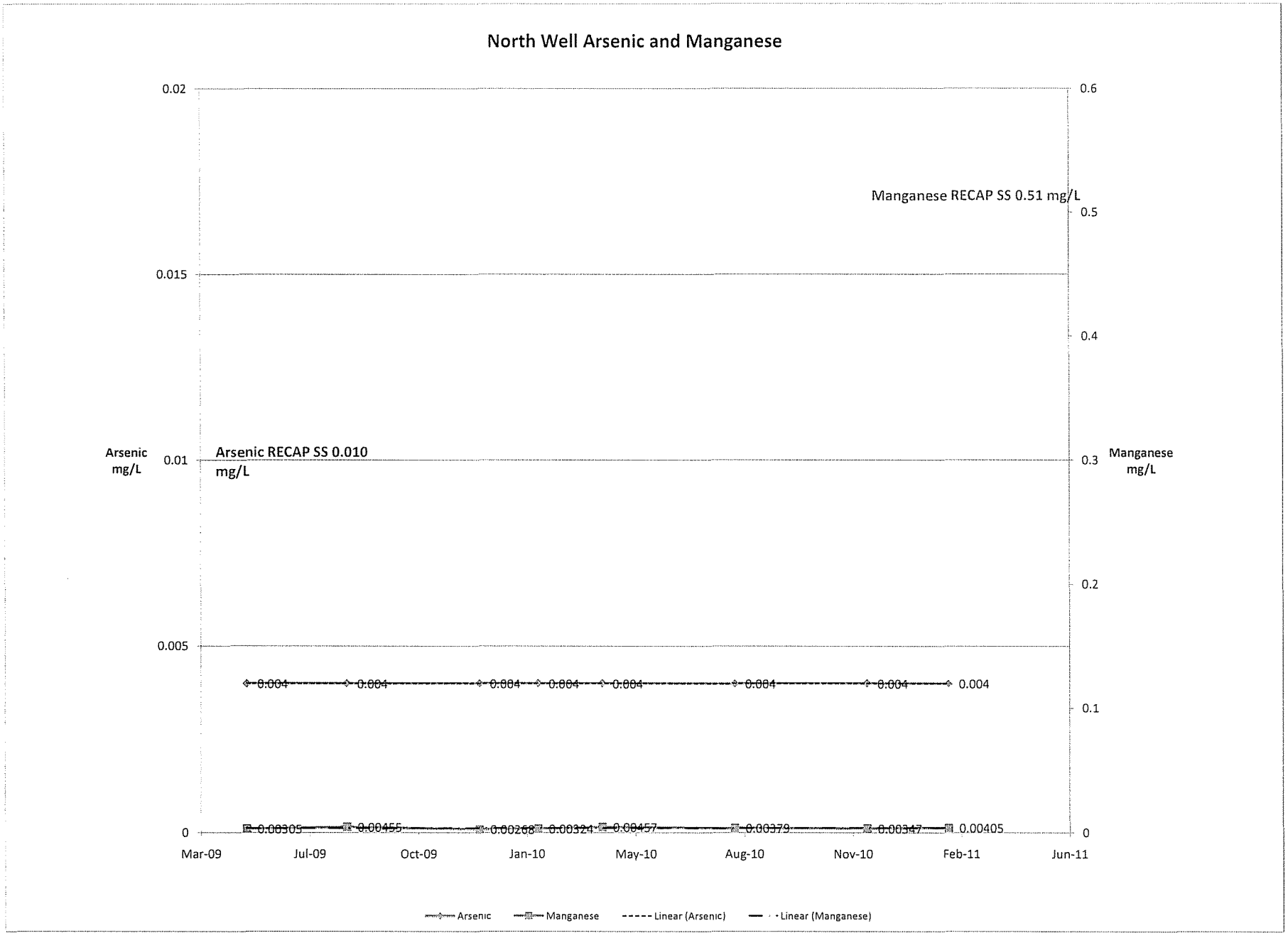

WW-09 Arsenic and Manganese
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
0.004
0.0163
0.0177
0.0139
0.0144
0.017
0.0228
0.0164
0.0161
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

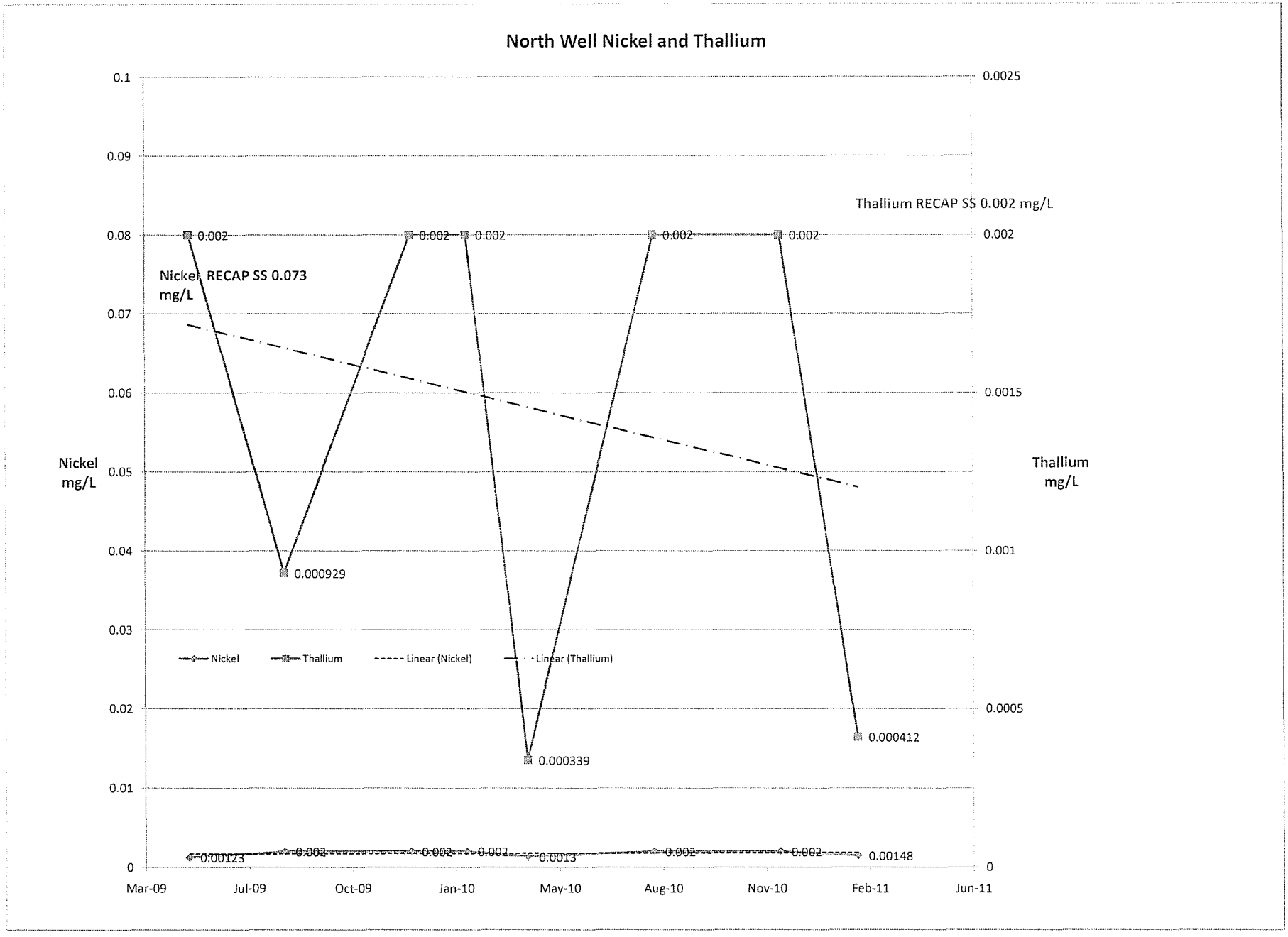

WW-09 Nickel and Thallium
Nickel mg/L
Thallium mg/L
Nickel RECAP SS 0.073 mg/L
Thallium RECAP SS 0.002 mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.00131
0.00277
0.00709
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

WW-09 Cadmium and Zinc

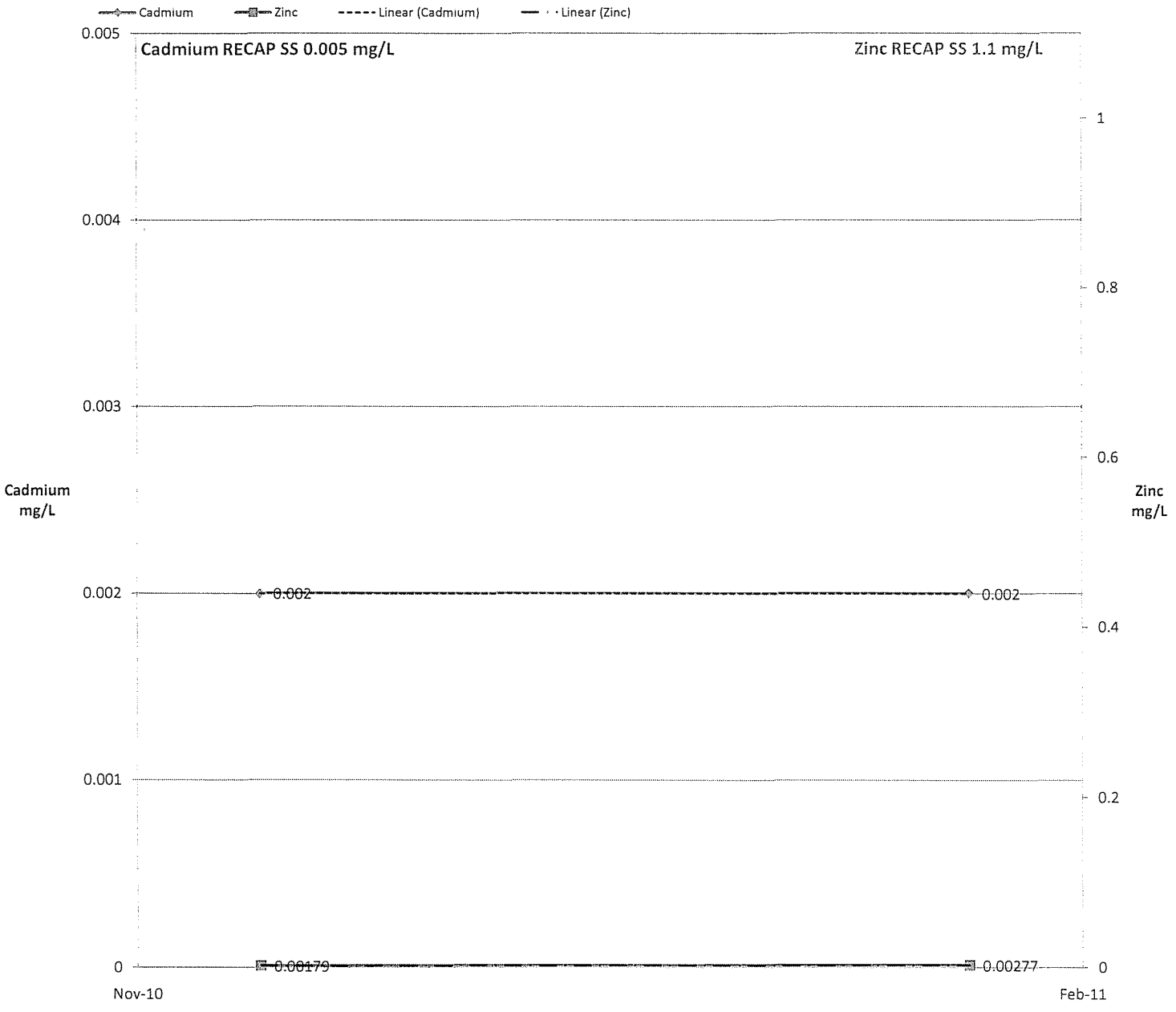


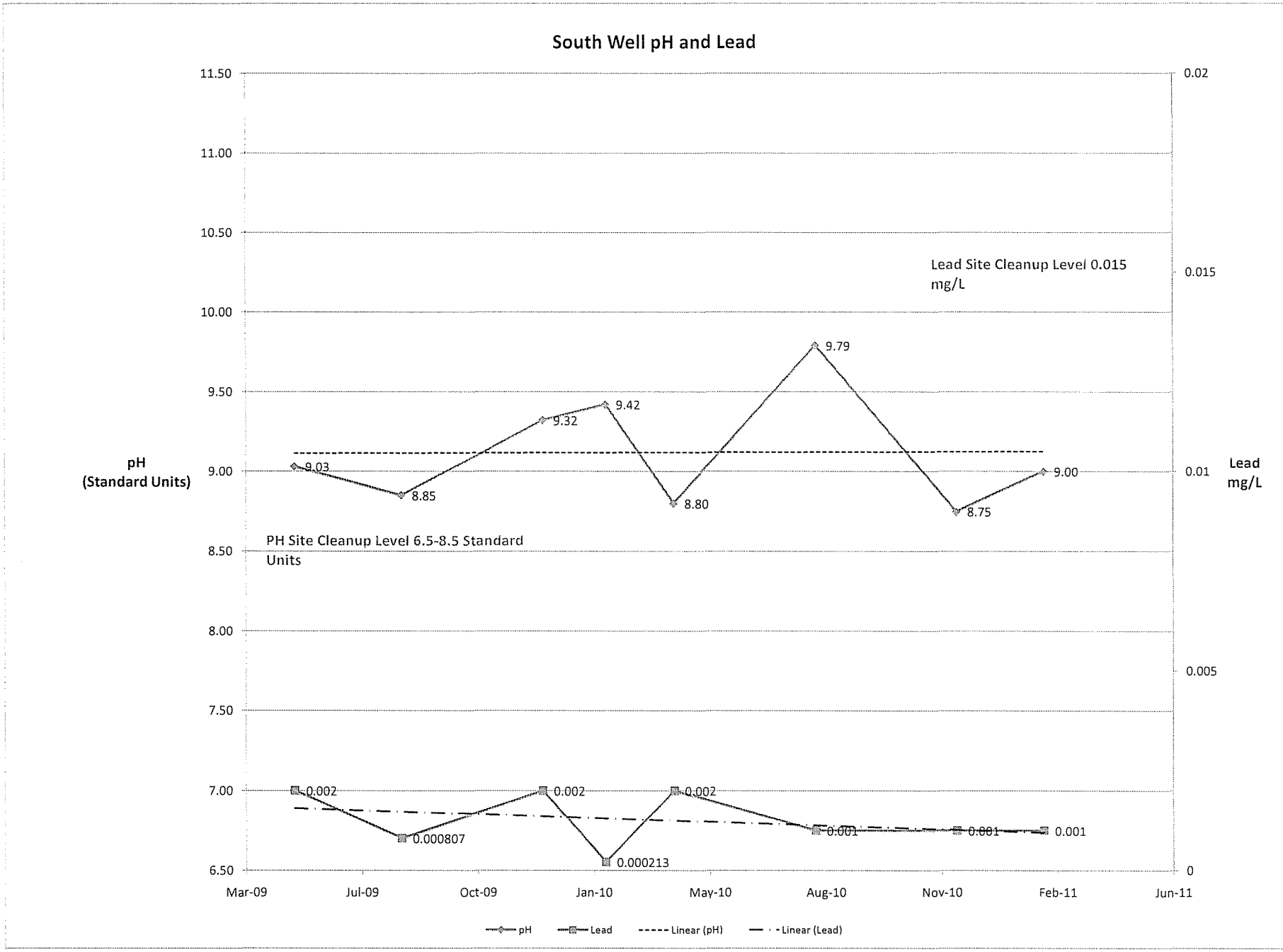

North Well pH and Lead
11.50
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
0.02
0.015
0.01
0.005
0
pH
(Standard Units)
Lead
mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
9.06
8.75
8.13
9.10
8.79
9.53
8.50
8.63
0.002
0.00127
0.002
0.000732
0.000872
0.000511
0.001
0.00135
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

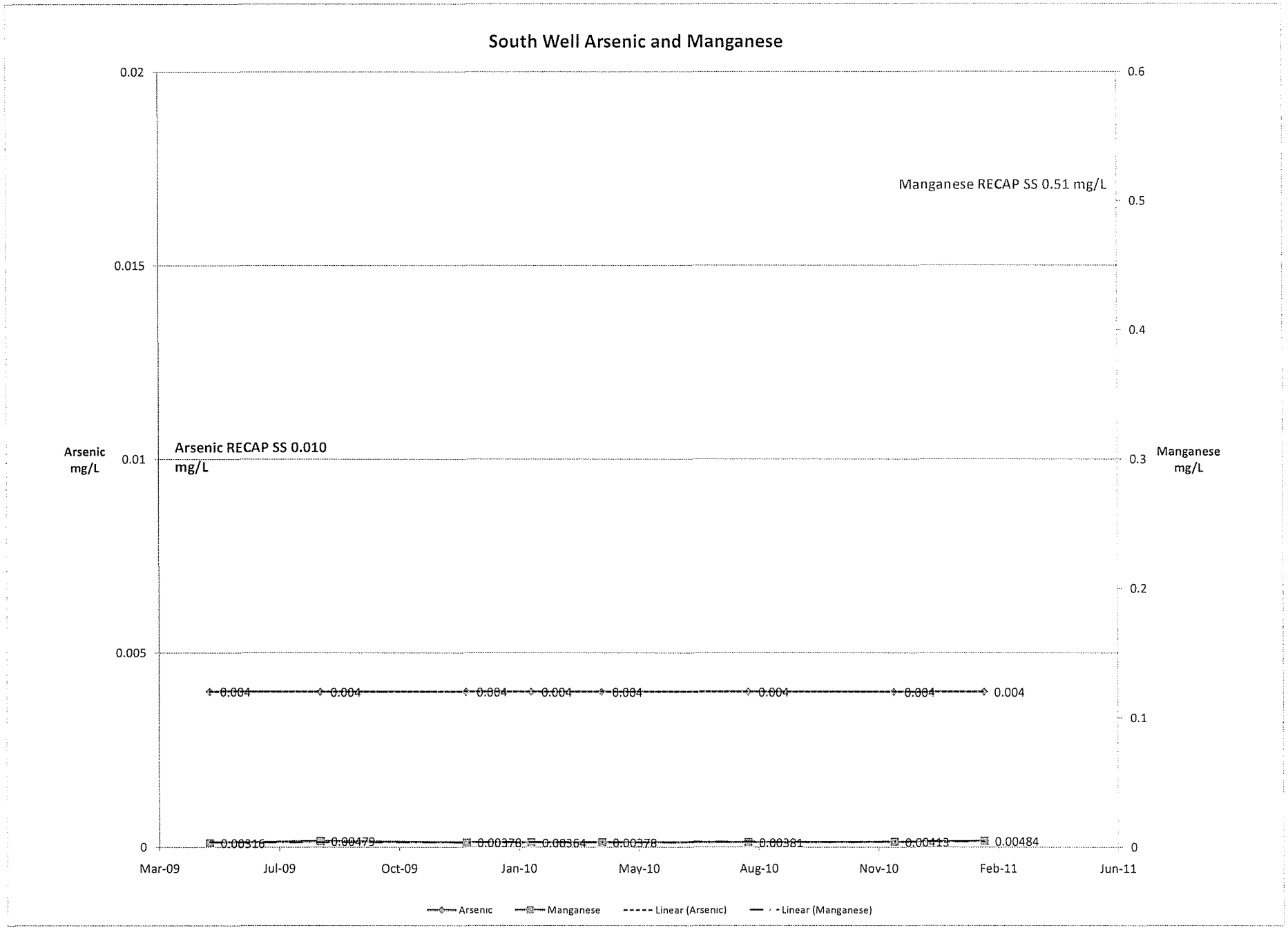

North Well Arsenic and Manganese
0.02
0.015
0.01
0.005
0
Arsenic mg/L
Arsenic RECAP SS 0.010 mg/L
0.6
0.5
0.4
0.3
0.2
0.1
0
Manganese mg/L
Manganese RECAP SS 0.51 mg/L
0.004
0.004
0.004
0.004
0.004
0.004
0.004
0.004
0.00305
0.00455
0.00268
0.00324
0.00457
0.00379
0.00347
0.00405
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

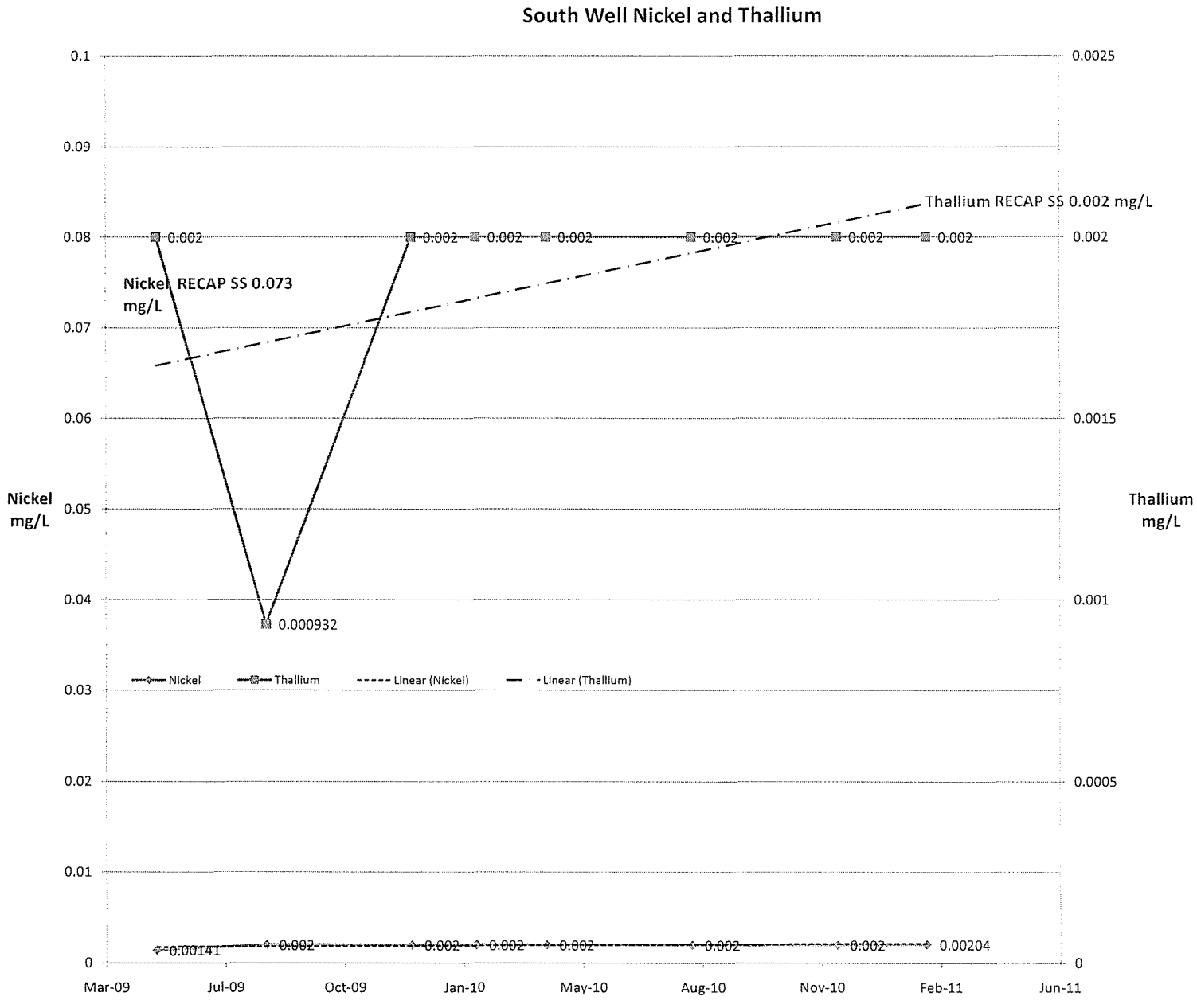

North Well Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000929
0.000339
0.000412
0.00123
0.0013
0.00148
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

North Well Cadmium and Zinc

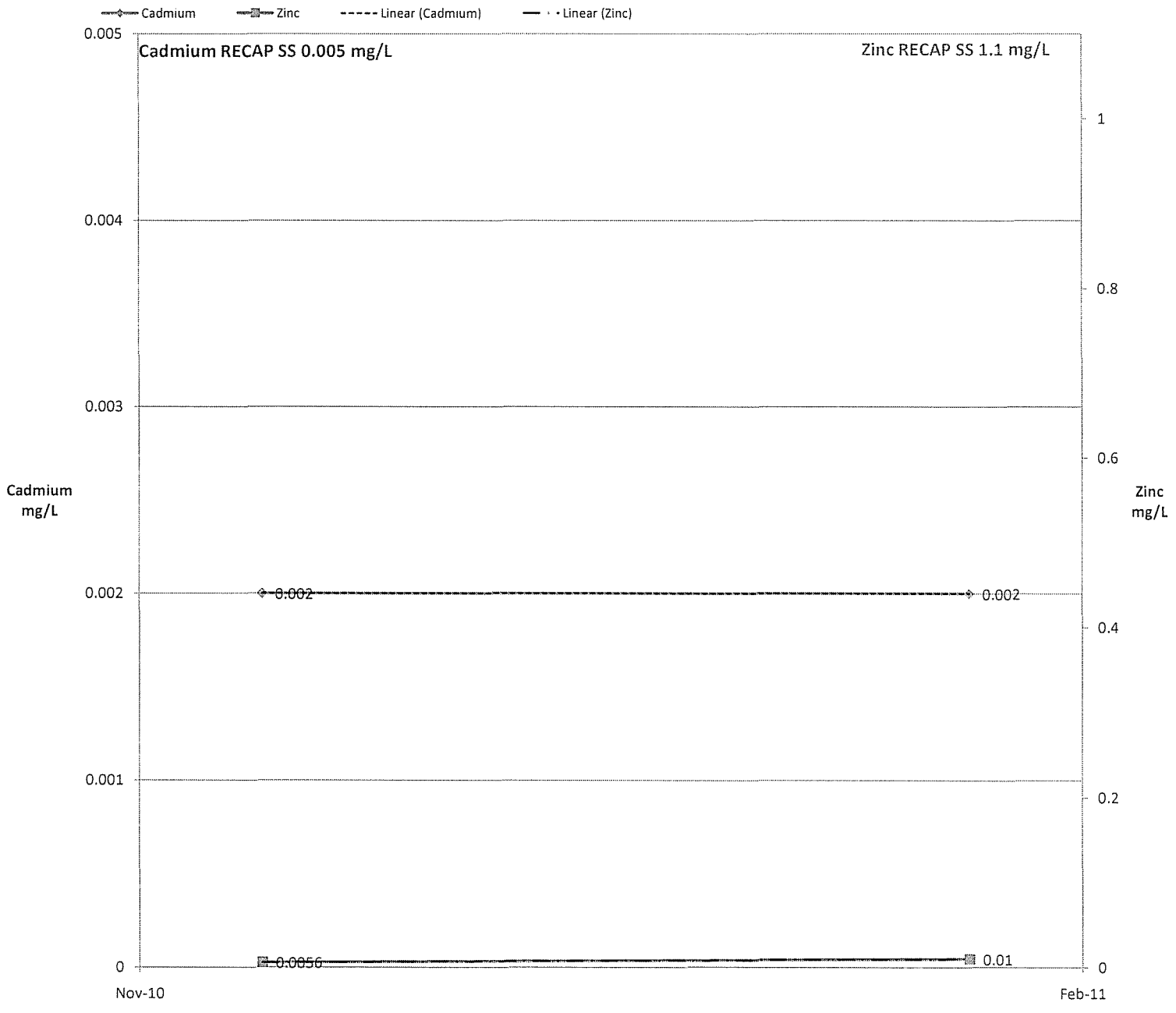


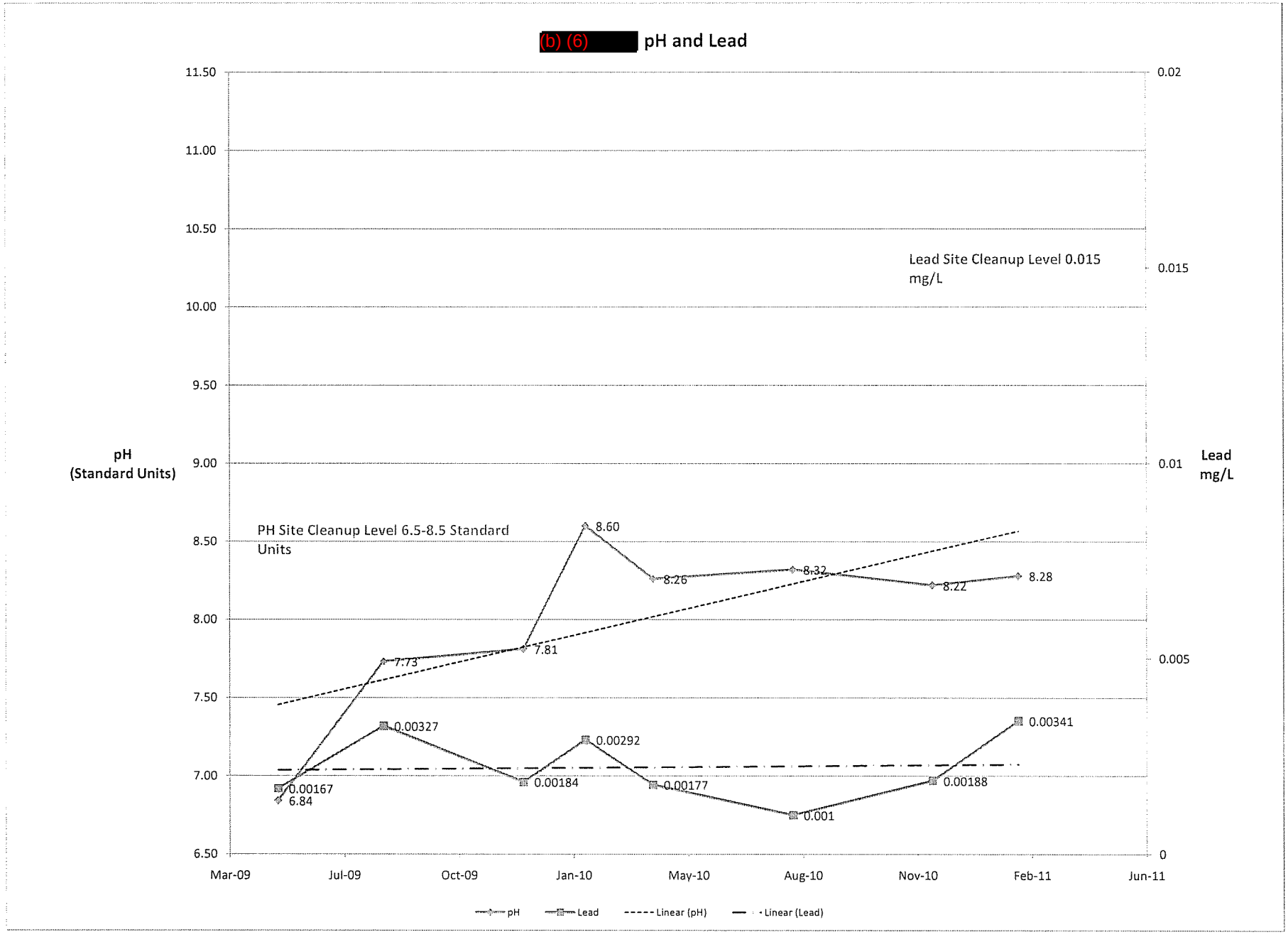

South Well pH and Lead
11.50
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
0.02
0.015
0.01
0.005
0
pH
(Standard Units)
Lead
mg/L
Lead Site Cleanup Level 0.015
mg/L
PH Site Cleanup Level 6.5-8.5 Standard
Units
9.03
8.85
9.32
9.42
8.80
9.79
8.75
9.00
0.002
0.000807
0.002
0.000213
0.002
0.001
0.001
0.001
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)

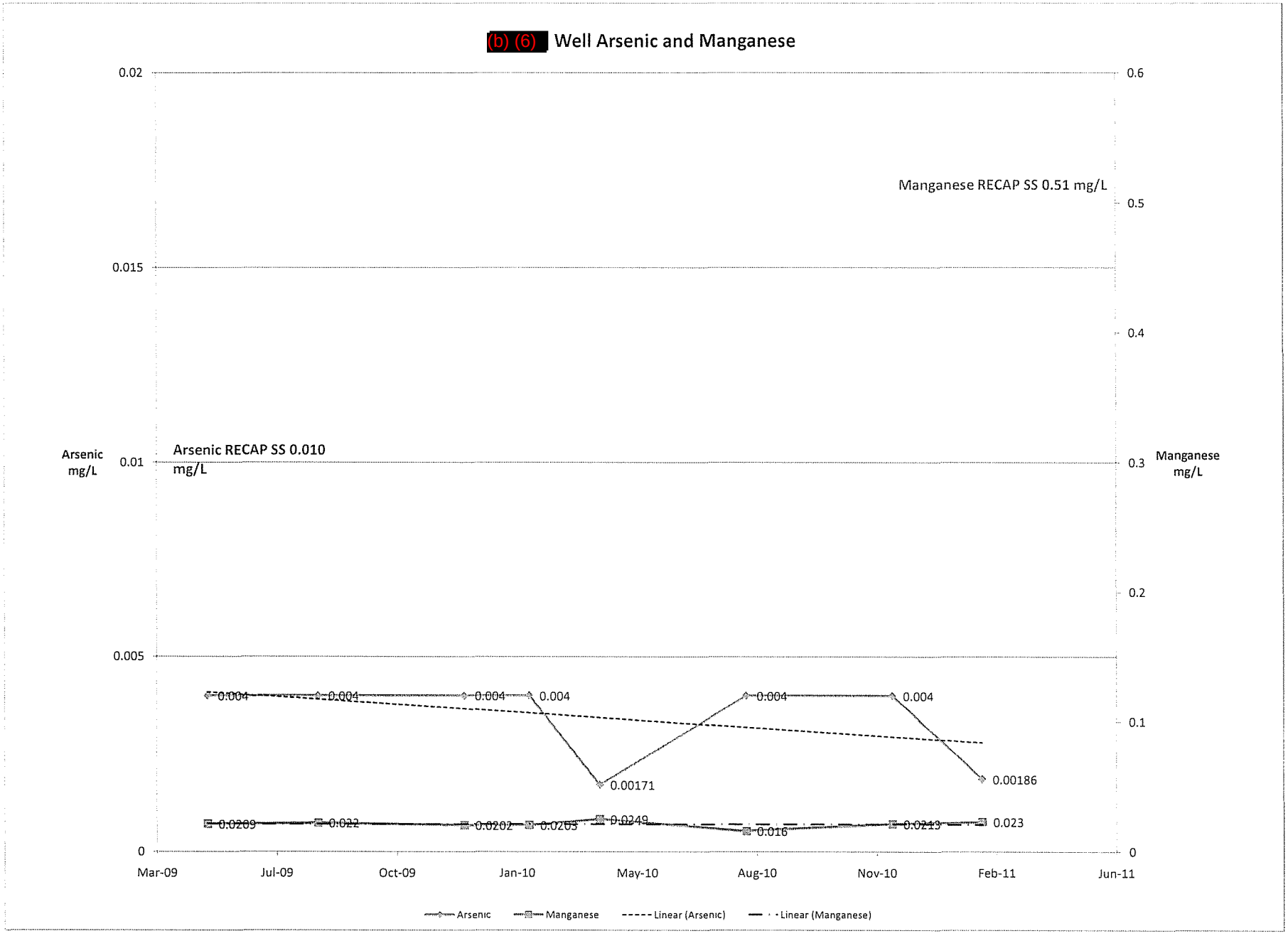

South Well Arsenic and Manganese
0.02
0.015
0.01
0.005
0
Arsenic mg/L
Arsenic RECAP SS 0.010 mg/L
0.6
0.5
0.4
0.3
0.2
0.1
0
Manganese mg/L
Manganese RECAP SS 0.51 mg/L
0.004
0.00316
0.00479
0.00378
0.00364
0.00378
0.00381
0.00413
0.00484
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

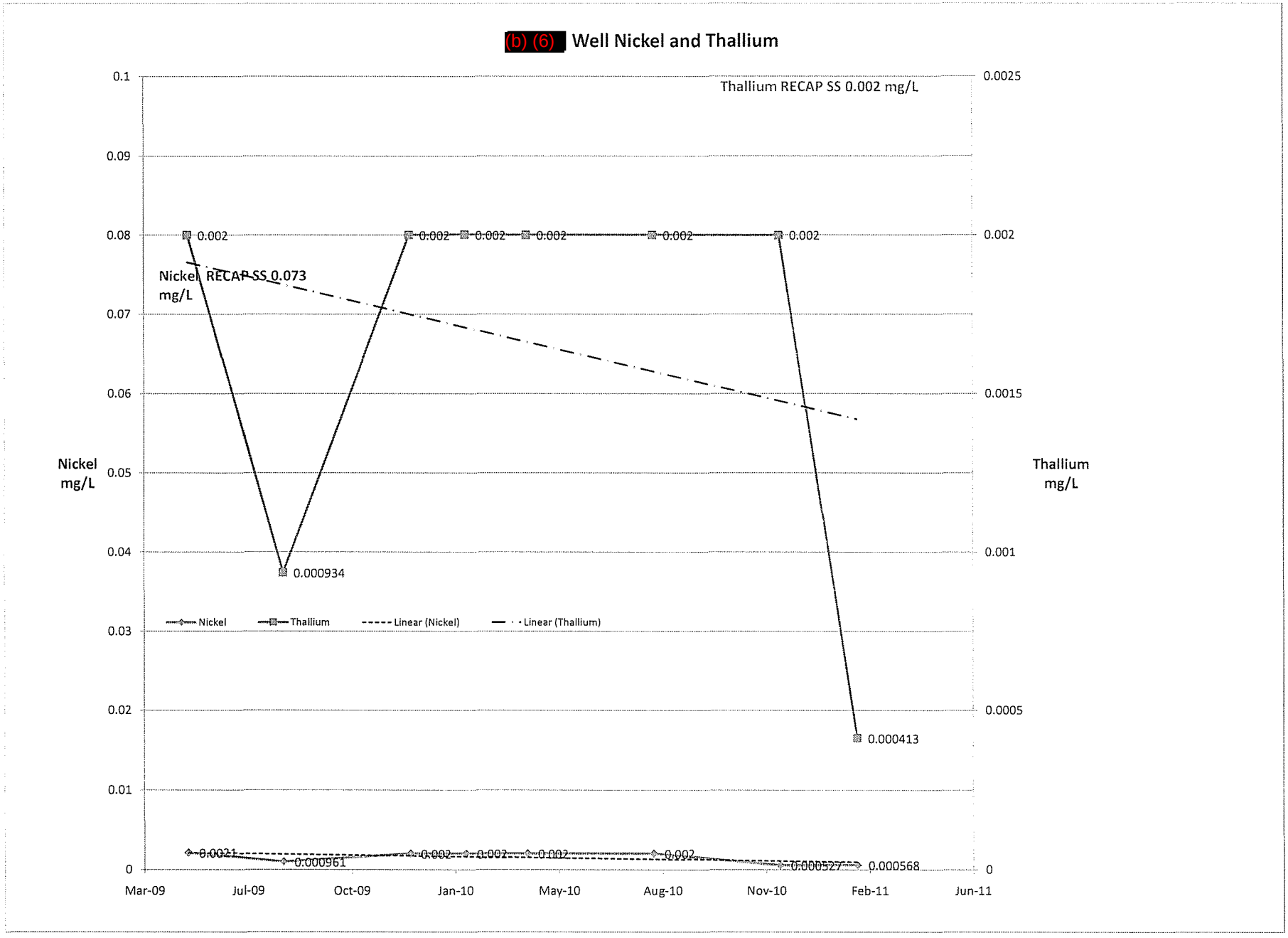

South Well Nickel and Thallium
Nickel mg/L
Thallium mg/L
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000932
0.00141
0.00204
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

South Well Cadmium and Zinc

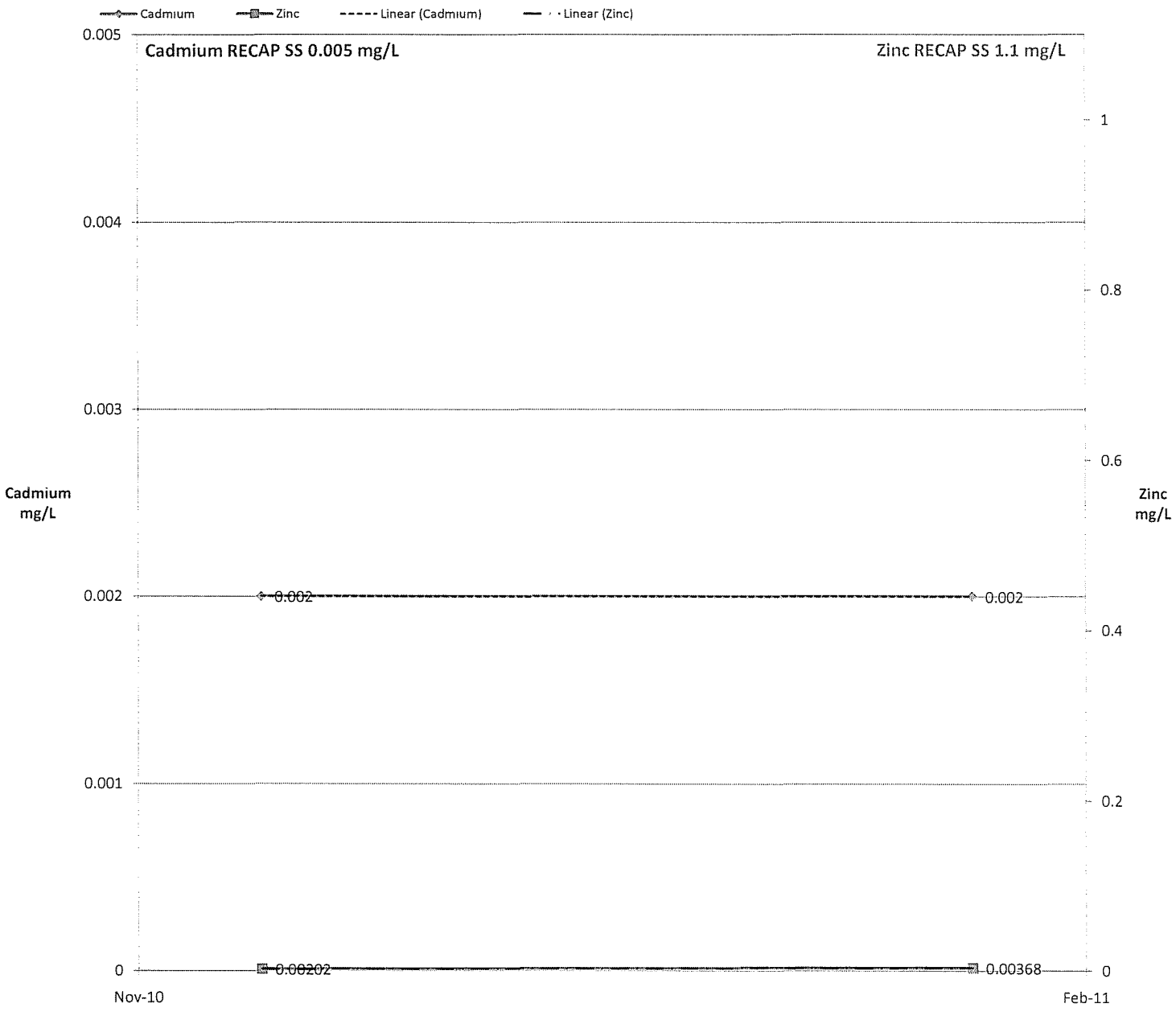



(b) (6) pH and Lead
11.50
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
pH
(Standard Units)
0.02
0.015
0.01
0.005
0
Lead
mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
8.60
8.26
8.32
8.22
8.28
7.73
7.81
6.84
0.00327
0.00292
0.00167
0.00184
0.00177
0.001
0.00188
0.00341
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
pH
Lead
Linear (pH)
Linear (Lead)


(b) (6) Well Arsenic and Manganese
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
0.004
0.004
0.004
0.004
0.00171
0.004
0.004
0.00186
0.0209
0.022
0.0202
0.0205
0.0249
0.016
0.0213
0.023
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)


(b) (6) Well Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000934
0.000413
0.0021
0.000961
0.000527
0.000568
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Aug-10
Nov-10
Feb-11
Jun-11

(b) (6) Well Cadmium and Zinc



ATTACHMENT D

DATA VALIDATION PACKAGE

Data Validation Report

DELATTE METALS PROJECT

SDG: 11020727 **April 2011**

Disclaimer

The opinions expressed and the qualifiers and values assigned by TerraBase Incorporated™ (TerraBase) are based on information provided to us in a hardcopy raw data package and/or an electronic deliverable.

TerraBase assumes this information accurately and completely represents the samples and information received by the laboratory, the analyses performed by the laboratory, and the raw data and results provided by the laboratory.

If TerraBase discovers that for any reason the information is inaccurate or incomplete, or non-representative of the site, TerraBase reserves the right to modify or withdraw any information contained in this report.

DELATTE METALS PROJECT

DATA VALIDATION REPORT

SDG: 11020727

Prepared for:

SEMS, Inc.
Baton Rouge, LA

TerraBase Project Number: 207
April 2011

Purpose of the Validation Report

Analytical data validation is a confirmatory procedure that evaluates client-generated laboratory data in accordance with definitive regulatory performance standards set forth by the USEPA.[1,2] TerraBase Incorporated™ (TerraBase) provides client assistance with data validation to ensure that analytical data are complete, in compliance with laboratory protocols, in agreement with the project data quality objectives, and are technically valid and legally defensible.

Format of the Introduction Section

The introduction contains summary tables that permit the reader easy access to the validated detected results. The tables are identified as: 1) ***Table E 1*** *Sample Identification Cross-Reference Table*, 2) ***Table E 2*** *Summary of Validated Sample Detects Sorted by Client Sample and Fraction* and 3) ***Table E 3*** *Summary of Validated Analyte Detects Sorted by Fraction, Analyte and Client Sample.* A brief description of the contents of each table is presented below.

Executive Summaries:

1) ***Table E 1*** *Sample Identification Cross-Reference Table:* This table is a cross-reference of client sample names and laboratory names. It also references any consultants sample names, if they are available.

2) ***Table E 2*** *Summary of Validated Sample Detects Sorted by Client Sample and Fraction:* Identification of all post-validation detected analytes by client or site sample location, fraction and analyte. The order of the analytical fractions appearing in this report follows the typical order found in a laboratory data package. That is, volatiles appear first, followed by semivolatiles, pesticides, herbicides, metals and conventionals. The detected analytes of each fraction are also displayed according to their order of appearance in the data package. This table also shows the sample type, sample matrix, extraction level, dilution factor and the method quantitation limits (MQL).

3) ***Table E 3*** *Summary of Validated Analyte Detects Sorted by Fraction, Analyte and Client Sample:* Identification of all post-validation detected analytes by fraction, analyte and client site/sample location.

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[1]National Functional Guidelines For Organic Data Review, USEPA, October 1999
[2]National Functional Guidelines For Inorganic Data Review, USEPA, February 1994.

Qualifier Definitions

- U - The analyte was analyzed for , but was not detected above the reported sample quantitation limit.
- J - The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
- N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value represents its approximate concentration.
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NOTES:

1. The results for 31 total and 3 dissolved site water samples were received by TerraBase, Inc. On March 30, 2010, four of these samples were requested for full data validation by TerraBase, Inc. in order to meet the client's 10% validation criteria.
2. Client samples BC-07, BC-25, WW-09 and South Well were the four samples that full data validation was requested on.
3. Arsenic, cadmium, lead, nickel, thallium, zinc and manganese were analyzed by the laboratory as per the chain of custody.
4. The validator used all quality control samples available to provide the most complete and accurate data validation possible.
5. Total Arsenic for samples BA-01, BA-05, BA-09, DW-03, and MW-06DW-02 were run by method 6010B.
6. All other results were run by method 6020A at SPL-Lafayette.
7. Duplicate #1 was a field duplicate of client sample DW-04.
8. Duplicate #2 was a field duplicate of client sample BA-01A.
9. Duplicate #3 was a field duplicate of client sample DW-02.
10. Duplicate #4 was a field duplicate of client sample MW-02.
11. Only samples BA-01, MW04, and BA-03A had dissolved metal analysis requested and none of these samples had validation requested so there are no dissolved metal validation results.
12. Samples BC-19 and BA-03 were used for the MS/MSD as per the chain of custody. Neither was one of the samples that validation was requested on so both were used for validation purposes.

Lab: **SPLLAF / SPL Labs - Lafayette** SDG ID. **11020727**

Fraction	Client Sample	Lab Sample	Sample Type	Matrix	Level	Sampling Date/Time
Metals						
	WW-09	11020727-04A	Site Sample	Water	Low	02/14/2011 11:05
	BC-07	11020727-08A	Site Sample	Water	Low	02/14/2011 12:48
	BC-25	11020727-12A	Site Sample	Water	Low	02/14/2011 13:51
	SOUTH WELL	11020727-16A	Site Sample	Water	Low	02/15/2011 9:04

Lab: **SPLLAF / SPL Labs - Lafayette** SDG ID. **11020727**

Client Sample	Fraction	Analyte	Sample Type	Matrix	Level	Dilution Factor	RL	Validated Result	Units
BC-07									
	Metals								
		Manganese	Site Sample	Water	Low	1	0.002	0.029	mg/L
		Nickel	Site Sample	Water	Low	1	0.002	0.00317 J	mg/L
		Arsenic	Site Sample	Water	Low	1	0.004	0.00277 J	mg/L
BC-25									
	Metals								
		Manganese	Site Sample	Water	Low	1	0.002	0.0264	mg/L
		Nickel	Site Sample	Water	Low	1	0.002	0.00068 J	mg/L
SOUTH WELL									
	Metals								
		Manganese	Site Sample	Water	Low	1	0.002	0.00484	mg/L
		Nickel	Site Sample	Water	Low	1	0.002	0.00204 J	mg/L
WW-09									
	Metals								
		Manganese	Site Sample	Water	Low	1	0.002	0.0161	mg/L

Qualifiers:

J - Estimated

B - (Organics) Found in the associated method blank

D - Reported from a dilution

E - Exceeds calibration range

P - (Pesticides) Difference in column concentrations > 25%

B - (Inorganics) Lab qualifier - analyte detected between the instrument detection limit (IDL) and the RL

Lab: **SPLLAF / SPL Labs - Lafayette**

SDG ID: **11020727**

Fraction	Analyte	Client Sample	Sample Type	Matrix	Level	Dilution Factor	RL	Validated Result	Units
Metals									
	Arsenic								
		BC-07	Site Sample	Water	Low	1	0.004	0.00277 J	mg/L
	Manganese								
		BC-07	Site Sample	Water	Low	1	0.002	0.029	mg/L
		BC-25	Site Sample	Water	Low	1	0.002	0.0264	mg/L
		SOUTH WELL	Site Sample	Water	Low	1	0.002	0.00484	mg/L
		WW-09	Site Sample	Water	Low	1	0.002	0.0161	mg/L
	Nickel								
		BC-07	Site Sample	Water	Low	1	0.002	0.00317 J	mg/L
		BC-25	Site Sample	Water	Low	1	0.002	0.00068 J	mg/L
		SOUTH WELL	Site Sample	Water	Low	1	0.002	0.00204 J	mg/L

Qualifiers:

J - Estimated

B - (Organics) Found in the associated method blank

D - Reported from a dilution

E - Exceeds calibration range

P - (Pesticides) Difference in column concentrations > 25%

B - (Inorganics) Lab qualifier - analyte detected between the instrument detection limit (IDL) and the RL

DELATTE METALS PROJECT

DATA VALIDATION REPORT

SDG: 11020727

Prepared for:

SEMS, Inc.
Baton Rouge, LA

TerraBase Project Number: 207
April 2011

TerraBase Data Validation Reporting Method

The purpose of this section is to give the data user an understanding of the ideas and concepts associated with data validation in general and with the TerraBase, Inc.™ (TerraBase) method of reporting validated data.

Analyte Level Validation Issues

TerraBase has developed a method for reporting validated data which utilizes a presentation of laboratory data issues and validation issues. This technique is based on the concept that issues encountered in the validation of laboratory data affect individual analytes of a sample. For instance, determining that a detected analyte in a sample was the result of laboratory contamination will cause only that analyte to be qualified.

TerraBase Codes: Standardizing the Description of Analytical Defects

TerraBase has standardized the data validation process by developing a database of codes employed by our analysts to describe the various analytical defects that may occur with an analysis. Each code is associated with written text describing the problem and the qualification that may be applied. For instance, the code that would be applied to an analyte that was determined to be a result of laboratory contamination would be BC (Blank Contamination). A complete listing of the analyte qualification parameters and their respective codes are presented below in *Analyte Qualification Codes*.

Analyte Qualification Codes

- CO Comment
- HT Holding Time
- IC Initial Calibration
- CC Continuing Calibration
- BC Blank Contamination
- MS Matrix Spike Effects
- TC Target Compound Identification
- CQ Compound Quantitation
- TI Tentatively Identified Compound
- SD System Monitoring Compound
- IS Internal Standard
- TU GC/MS Tune Criteria

- AS Analytical Sequence

Metal Section Reporting Format

The Metal Section of this data validation report is divided into 1) a text-formatted report which describes the contents of the laboratory data package and 2) a number of tabular reports which allow the data user to readily obtain information about the results of the data validation. Below is a description of the type of information contained in these tabular reports.

1) *Narrative of the Sample Delivery Group (SDG):* This section provides general information that pertains to the data package, such as the date of receipt, the number and type of samples, the laboratory performing the analysis, the instrumentation utilized to perform the analysis, the method of analysis, and the number and type of quality control parameters reported by the laboratory. Additionally, any other pertinent issues dealing with the laboratory or the data package may be noted in this section.

2) ***Table M1*** *Summary of Metal Data Validation Issues*: This table represents a bulleted summary of all metal samples that were validated for analyte level defects and provides a quick view of any issues that were associated with this sample delivery group. A bullet represents the assignment of a comment and/or qualifier by the data validator for a specific sample. The nature of a qualification can be found in ***Table M2*** *Metal Analyte Qualification Summary.*

3) ***Table M2*** *Metal Analyte Qualification Summary*: This tabular report displays all of the analyte-level data validation issues checked (*Analyte Qualification Codes*). The table indicates the client sample name, the analyte that has been qualified, the qualification code, the lab result and its qualifier and units, the validated result and the validation qualifier and units. Explanations of the actions taken by the validator are explained in ***Table M3*** *Metal Analyte Qualification Comments.*

4) ***Table M3*** *Metal Analyte Qualification Comments:* This report contains an explanation of each problem and any qualification which was documented in ***Table M2*** *Metal Analyte Qualification Summary.*

5) ***Table M4*** *Validated Metal Results*: This report displays all the analytical and validated information in a one-sample per-page view. It includes the metal analyte list, analytical extraction level, dilution factor, method quantitation limits per analyte, the results for each analyte and the units of measure for each analyte.

Notes of Sample Delivery Group (SDG): 11020727

NOTES:

1. The results for 31 total and 3 dissolved site water samples were received by TerraBase, Inc. On March 30, 2010, four of these samples were requested for full data validation by TerraBase, Inc. in order to meet the client's 10% validation criteria.
2. Client samples BC-07, BC-25, WW-09 and South Well were the four samples that full data validation was requested on.
3. Arsenic, cadmium, lead, nickel, thallium, zinc and manganese were analyzed by the laboratory as per the chain of custody.
4. The validator used all quality control samples available to provide the most complete and accurate data validation possible.
5. Total Arsenic for samples BA-01, BA-05, BA-09, DW-03, and MW-06DW-02 were run by method 6010B.
6. All other results were run by method 6020A at SPL-Lafayette.
7. Duplicate #1 was a field duplicate of client sample DW-04.
8. Duplicate #2 was a field duplicate of client sample BA-01A.
9. Duplicate #3 was a field duplicate of client sample DW-02.
10. Duplicate #4 was a field duplicate of client sample MW-02.
11. Only samples BA-01, MW04, and BA-03A had dissolved metal analysis requested and none of these samples had validation requested so there are no dissolved metal validation results.
12. Samples BC-19 and BA-03 were used for the MS/MSD as per the chain of custody. Neither was one of the samples that validation was requested on so both were used for validation purposes.
13. Arsenic, Cadmium, Nickel, and Zinc all has recoveries for a MS and/or MSD below the quality control limits.
14. Cadmium, Lead, and Zinc all had poor RPDs between the MS/MSD for one or both MS/MSD samples.
15. Samples BC-19 and BA-03 were used for the PS/PSD as per the methodology. Neither was one of the samples that validation was requested on so both were used for validation purposes.
16. Samples BC-19 and BA-03 were used for the Linear Dilution Sample as per the methodology. Neither was one of the samples that validation was requested on so both were used for validation purposes.
17. There were two method blanks and two laboratory control samples prepped and analyzed as per the methodology.
18. All results for Lead that were below 7.6 ug/L were qualified for blank contamination.
19. All results for Thallium that were below 4.6 ug/L were qualified for blank contamination.
20. All results for Zinc that were below 25 ug/L were qualified for blank contamination.

Lab: **SPLLAF / SPL Labs - Lafayette**

SDG ID: **11020727**

	Analyte Qualification							
Client Sample	AS	CO	HT	IC	CC	BC	MS	CQ
BC-07						•	•	
BC-25						•	•	
SOUTH WELL						•	•	
WW-09						•	•	

All samples were validated. A bullet (•) denotes sample qualification.

Lab. **SPLLAF / SPL Labs - Lafayette** SDG ID. **11020727**

Qualification Category: **MS**

Qualification Code: **19**

Qualification Description: The matrix spike/ matrix spike duplicate or sample/sample duplicate relative percent difference (RPD) fell outside acceptable limits.

Qualification Action: Data for matrix spikes and sample duplicates are generated to determine long term precision of the analytical method on various matrices and to demonstrate acceptable method precision at the time of analysis. While these data alone cannot be used to evaluate the precision of individual samples, it is notable that possible precision related error may be present. Therefore all positive results are qualified as estimated (J).

Qualification Category: **BC**

Qualification Code: **6**

Qualification Description: Inorganic contamination was detected in a preparation blank and the detection limit for this analyte in the sample was raised using the "ten times rule."

Qualification Action: EPA methods do not allow blank results to be subtracted from the sample results. Instead, the level in the blank is used to establish a new or higher detection limit for those analytes found in the blank. When there is contamination in the preparation blank above the reporting limit, the "ten times rule" is applied to calculate a new detection limit. This is done by multiplying the blank's contamination value by ten; the value thus obtained becomes the "new" blank level. If the sample value is between the instrument detection limit and the new blank level, then the sample's value is used with a U qualifier. If the sample value is greater than the new blank level, then the detection limit should not be raised and no action is taken.

Qualification Category: **MS**

Qualification Code: **21**

Qualification Description: The recovery of the pre-digestion matrix spike for an analyte was low

Qualification Action: The pre-digestion spike is prepared by adding a known amount of an analyte to the sample before the acid digestion. If the spike recovery is below acceptable limits, results in all samples for the affected analyte may be biased on the low side. The results reported are assumed to be the minimum possible value. All results are qualified as estimated (J) and estimated non-detected (UJ). If a spike recovery is less than 30%, non-detected results may be qualified as unusable (R).

Lab: **SPLLAF / SPL Labs - Lafayette** SDG ID: **11020727**

Client Sample	Analyte Name	AS	CO	HT	IC	CC	BC	MS	CQ	Lab Result		Units	Validated Result		Units
BC-07															
	Lead	-	-	-	-	-	6	19,21	-	0.00137		mg/L	0.00137	UJ	mg/L
	Nickel	-	-	-	-	-	-	19	-	0.00317		mg/L	0.00317	J	mg/L
	Thallium	-	-	-	-	-	6	-	-	0.000413	J	mg/L	0.002	U	mg/L
	Arsenic	-	-	-	-	-	-	21	-	0.00277	J	mg/L	0.00277	J	mg/L
	Cadmium	-	-	-	-	-	-	19,21	-	0.000053	U	mg/L	0.000053	UJ	mg/L
	Zinc	-	-	-	-	-	6	19,21	-	0.00661	J	mg/L	0.01	UJ	mg/L
BC-25															
	Lead	-	-	-	-	-	6	19,21	-	0.000836	J	mg/L	0.001	UJ	mg/L
	Nickel	-	-	-	-	-	-	19	-	0.00068	J	mg/L	0.00068	J	mg/L
	Thallium	-	-	-	-	-	6	-	-	0.000414	J	mg/L	0.002	U	mg/L
	Arsenic	-	-	-	-	-	-	21	-	0.00133	U	mg/L	0.00133	UJ	mg/L
	Cadmium	-	-	-	-	-	-	19,21	-	0.000053	U	mg/L	0.000053	UJ	mg/L
	Zinc	-	-	-	-	-	6	19,21	-	0.00408	J	mg/L	0.01	UJ	mg/L
SOUTH WELL															
	Lead	-	-	-	-	-	6	19,21	-	0.000851	J	mg/L	0.001	UJ	mg/L
	Nickel	-	-	-	-	-	-	19	-	0.00204		mg/L	0.00204	J	mg/L
	Thallium	-	-	-	-	-	6	-	-	0.00041	J	mg/L	0.002	U	mg/L
	Arsenic	-	-	-	-	-	-	21	-	0.00133	U	mg/L	0.00133	UJ	mg/L
	Cadmium	-	-	-	-	-	-	19,21	-	0.000053	U	mg/L	0.000053	UJ	mg/L
	Zinc	-	-	-	-	-	6	19,21	-	0.003	J	mg/L	0.01	UJ	mg/L
WW-09															
	Lead	-	-	-	-	-	6	19,21	-	0.00123		mg/L	0.00123	UJ	mg/L
	Nickel	-	-	-	-	-	-	19	-	0.000477	U	mg/L	0.000477	UJ	mg/L
	Thallium	-	-	-	-	-	6	-	-	0.000414	J	mg/L	0.002	U	mg/L
	Arsenic	-	-	-	-	-	-	21	-	0.00133	U	mg/L	0.00133	UJ	mg/L
	Cadmium	-	-	-	-	-	-	19,21	-	0.000053	U	mg/L	0.000053	UJ	mg/L
	Zinc	-	-	-	-	-	6	19,21	-	0.00376	J	mg/L	0.01	UJ	mg/L

Analyte Qualification Codes:

AS - Analytical sequence
CO - Comment
HT - Holding time
IC - Initial calibration
CC - Continuing calibration
BC - Blank contamination
MS - Matrix spike effects
CQ - Compound/parameter quantitation

Analyte Qualifiers:

U - Non-detected
J - Estimated
R - Unusable
B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID: **WW-09** | Matrix: **Water** | Lab ID: **SPLLAF**
Sample Type: **Site Sample** | % Solids: **100** | SDG ID: **11020727**
Lab Sample ID: **11020727-04A** | Sampling Date/Time: **02/14/2011 11:05** | SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units	
7439-92-1	Lead	6020	1	0.001	0.00123 UJ	mg/L	*
7439-96-5	Manganese	6020	1	0.002	0.0161	mg/L	
7440-02-0	Nickel	6020	1	0.002	0.000477 UJ	mg/L	*
7440-28-0	Thallium	6020	1	0.002	0.002 U	mg/L	*
7440-38-2	Arsenic	6020	1	0.004	0.00133 UJ	mg/L	*
7440-43-9	Cadmium	6020	1	0.002	0.000053 UJ	mg/L	*
7440-66-6	Zinc	6020	1	0.01	0.01 UJ	mg/L	*

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

* - Modification by data validation

Client Sample ID: **BC-07** | Matrix: **Water** | Lab ID: **SPLLAF**
Sample Type: **Site Sample** | % Solids: **100** | SDG ID: **11020727**
Lab Sample ID: **11020727-08A** | Sampling Date/Time: **02/14/2011 12:48** | SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units	
7439-92-1	Lead	6020	1	0.001	0.00137 UJ	mg/L	*
7439-96-5	Manganese	6020	1	0.002	0.029	mg/L	
7440-02-0	Nickel	6020	1	0.002	0.00317 J	mg/L	*
7440-28-0	Thallium	6020	1	0.002	0.002 U	mg/L	*
7440-38-2	Arsenic	6020	1	0.004	0.00277 J	mg/L	
7440-43-9	Cadmium	6020	1	0.002	0.000053 UJ	mg/L	*
7440-66-6	Zinc	6020	1	0.01	0.01 UJ	mg/L	*

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

* - Modification by data validation

Client Sample ID: **BC-25** | Matrix: **Water** | Lab ID: **SPLLAF**
Sample Type: **Site Sample** | % Solids: **100** | SDG ID: **11020727**
Lab Sample ID: **11020727-12A** | Sampling Date/Time: **02/14/2011 13:51** | SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units	
7439-92-1	Lead	6020	1	0.001	0.001 UJ	mg/L	*
7439-96-5	Manganese	6020	1	0.002	0.0264	mg/L	
7440-02-0	Nickel	6020	1	0.002	0.00068 J	mg/L	
7440-28-0	Thallium	6020	1	0.002	0.002 U	mg/L	*
7440-38-2	Arsenic	6020	1	0.004	0.00133 UJ	mg/L	*
7440-43-9	Cadmium	6020	1	0.002	0.000053 UJ	mg/L	*
7440-66-6	Zinc	6020	1	0.01	0.01 UJ	mg/L	*

Client Sample ID: **SOUTH WELL**
Sample Type: **Site Sample**
Lab Sample ID: **11020727-16A**

Matrix: **Water**
% Solids: **100**
Sampling Date/Time: **02/15/2011 9:04**

Lab ID: **SPLLAF**
SDG ID: **11020727**
SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units	
7439-92-1	Lead	6020	1	0.001	0.001 UJ	mg/L	*
7439-96-5	Manganese	6020	1	0.002	0.00484	mg/L	
7440-02-0	Nickel	6020	1	0.002	0.00204 J	mg/L	*
7440-28-0	Thallium	6020	1	0.002	0.002 U	mg/L	*
7440-38-2	Arsenic	6020	1	0.004	0.00133 UJ	mg/L	*
7440-43-9	Cadmium	6020	1	0.002	0.000053 UJ	mg/L	*
7440-66-6	Zinc	6020	1	0.01	0.01 UJ	mg/L	*

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

* - Modification by data validation

Lab: SPLLAF / SPL Labs - Lafayette

SDG ID: 1020727A

Fraction	Client Sample	Lab Sample	Sample Type	Matrix	Level	Sampling Date/Time
Metals						
	BA-09A	11020727-01A	Site Sample	Water	Low	02/14/2011 9:19
	BA-09	11020727-02A	Site Sample	Water	Low	02/14/2011 10:01
	MW-4	11020727-03A	Site Sample	Water	Low	02/14/2011 10:44
	MW-4	11020727-03B	Dissolved TRG	Water	Low	02/14/2011 10:44
	WW-09	11020727-04A	Site Sample	Water	Low	02/14/2011 11:05
	WW-04	11020727-05A	Site Sample	Water	Low	02/14/2011 11:35
	(b) (6) WELL	11020727-06A	Site Sample	Water	Low	02/14/2011 11:40
	BC-03	11020727-07A	Site Sample	Water	Low	02/14/2011 12:14
	BC-07	11020727-08A	Site Sample	Water	Low	02/14/2011 12:48
	DW-04	11020727-09A	Site Sample	Water	Low	02/14/2011 13:09
	DUPLICATE #1	11020727-10A	Field Duplicate	Water	Low	02/14/2011 13:09
	BC-19	11020727-11A	Site Sample	Water	Low	02/14/2011 13:28
	BC-25	11020727-12A	Site Sample	Water	Low	02/14/2011 13:51
	MW-3	11020727-13A	Site Sample	Water	Low	02/14/2011 14:13
	MW-6	11020727-14A	Site Sample	Water	Low	02/14/2011 14:53
	BB-01	11020727-15A	Site Sample	Water	Low	02/15/2011 8:51
	SOUTH WELL	11020727-16A	Site Sample	Water	Low	02/15/2011 9:04
	BC-17	11020727-17A	Site Sample	Water	Low	02/15/2011 9:21
	NORTH WELL	11020727-18A	Site Sample	Water	Low	02/15/2011 9:33
	BC-21R	11020727-19A	Site Sample	Water	Low	02/15/2011 9:58
	BA-01A	11020727-20A	Site Sample	Water	Low	02/15/2011 10:19
	DUPLICATE #2	11020727-21A	Field Duplicate	Water	Low	02/15/2011 10:19
	BA-01	11020727-22A	Site Sample	Water	Low	02/15/2011 11:21
	BA-01	11020727-22B	Dissolved TRG	Water	Low	02/15/2011 11:21
	DW-3	11020727-23A	Site Sample	Water	Low	02/15/2011 13:04
	PW-4	11020727-24A	Site Sample	Water	Low	02/15/2011 13:25
	DW-2	11020727-25A	Site Sample	Water	Low	02/15/2011 13:53
	DUPLICATE #3	11020727-26A	Field Duplicate	Water	Low	02/15/2011 13:53
	BA-05A	11020727-27A	Site Sample	Water	Low	02/16/2011 9:03
	BA-05	11020727-28A	Site Sample	Water	Low	02/16/2011 9:37
	MW-A	11020727-29A	Site Sample	Water	Low	02/16/2011 10:01
	DW-1	11020727-30A	Site Sample	Water	Low	02/16/2011 10:42
	MW-1	11020727-31A	Site Sample	Water	Low	02/16/2011 11:19
	BA-03A	11020727-32A	Site Sample	Water	Low	02/16/2011 12:00
	BA-03A	11020727-32B	Dissolved TRG	Water	Low	02/16/2011 12:00
	BA-03	11020727-33A	Site Sample	Water	Low	02/16/2011 12:20
	MW-2	11020727-34A	Site Sample	Water	Low	02/16/2011 12:48
	DUPLICATE #4	11020727-35A	Field Duplicate	Water	Low	02/16/2011 12:48

Client Sample ID: **BA-09A** | Matrix: **Water** | Lab ID: **SPLLAF**
Sample Type: **Site Sample** | % Solids: **100** | SDG ID: **1020727A**
Lab Sample ID: **11020727-01A** | Sampling Date/Time: **02/14/2011 9:19** | SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000878 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0267	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000516 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000424 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00279 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00341 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BA-09**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-02A**	Sampling Date/Time:	**02/14/2011 10:01**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00123	mg/L
7439-96-5	Manganese	6020	1	0.002	2.61	mg/L
7440-02-0	Nickel	6020	1	0.002	0.141	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000442 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000453 J	mg/L
7440-66-6	Zinc	6020	1	0.01	0.44	mg/L
7440-38-2	Arsenic	6010B	5	0.1	0.0268 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**MW-4**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-03A**	Sampling Date/Time:	**02/14/2011 10:44**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00154	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0134	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0011 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000417 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00537 J	mg/L

Client Sample ID: **MW-4** | Matrix: **Water** | Lab ID: **SPLLAF**
Sample Type: **Dissolved TRG** | % Solids: **100** | SDG ID: **1020727A**
Lab Sample ID: **11020727-03B** | Sampling Date/Time: **02/14/2011 10:44** | SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00028 U	mg/L
7439-96-5	Manganese	6020	1	0.002	0.000235 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000592 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000979 J	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00148 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-66-6	Zinc	6020	1	0.006	0.00204 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**WW-09**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-04A**	Sampling Date/Time:	**02/14/2011 11:05**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00123	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0161	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000477 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000414 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00376 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**WW-04**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID.	**1020727A**
Lab Sample ID.	**11020727-05A**	Sampling Date/Time:	**02/14/2011 11:35**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000794 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00355	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000477 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000413 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00205 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID: (b) (6) WELL
Sample Type: Site Sample
Lab Sample ID: 11020727-06A

Matrix: Water
% Solids: 100
Sampling Date/Time: 02/14/2011 11:40

Lab ID: SPLLAF
SDG ID: 1020727A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0 001	0.00341	mg/L
7439-96-5	Manganese	6020	1	0 002	0.023	mg/L
7440-02-0	Nickel	6020	1	0 002	0.000568 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000413 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0 00186 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0 00368 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BC-03**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-07A**	Sampling Date/Time:	**02/14/2011 12:14**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000948 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00403	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00186 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000424 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.0000556 J	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00298 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BC-07**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-08A**	Sampling Date/Time:	**02/14/2011 12:48**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0 001	0 00137	mg/L
7439-96-5	Manganese	6020	1	0.002	0 029	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00317	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000413 J	mg/L
7440-38-2	Arsenic	6020	1	0 004	0.00277 J	mg/L
7440-43-9	Cadmium	6020	1	0 002	0 000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00661 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**DW-04**	Matrix:	**Water**	Lab ID.	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-09A**	Sampling Date/Time.	**02/14/2011 13:09**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000841 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0026	mg/L
7440-02-0	Nickel	6020	1	0.002	0.001 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000412 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00187 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00239 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**DUPLICATE #1**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Field Duplicate**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-10A**	Sampling Date/Time:	**02/14/2011 13:09**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000816 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00354	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000902 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000414 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00165 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00189 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BC-19**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-11A**	Sampling Date/Time:	**02/14/2011 13:28**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00085 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00272	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00179 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000474 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00365 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BC-25**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-12A**	Sampling Date/Time:	**02/14/2011 13:51**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000836 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0264	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00068 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000414 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00408 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**MW-3**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-13A**	Sampling Date/Time:	**02/14/2011 14:13**	SDG Page.	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.0024	mg/L
7439-96-5	Manganese	6020	1	0.002	0.509	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00219	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000418 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00235 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID: **MW-6** | Matrix: **Water** | Lab ID: **SPLLAF**
Sample Type: **Site Sample** | % Solids: **100** | SDG ID: **1020727A**
Lab Sample ID: **11020727-14A** | Sampling Date/Time: **02/14/2011 14:53** | SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00175	mg/L
7439-96-5	Manganese	6020	1	0.002	3.14	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0354	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000523 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.0675	mg/L
7440-66-6	Zinc	6020	1	0.01	0.128	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.00241 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BB-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-15A**	Sampling Date/Time:	**02/15/2011 8:51**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00571	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00455	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00334	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000416 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00555	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000109 J	mg/L
7440-66-6	Zinc	6020	1	0.01	0.0069 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID: **SOUTH WELL**
Sample Type: **Site Sample**
Lab Sample ID: **11020727-16A**

Matrix: **Water**
% Solids: **100**
Sampling Date/Time: **02/15/2011 9:04**

Lab ID: **SPLLAF**
SDG ID: **1020727A**
SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000851 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00484	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00204	mg/L
7440-28-0	Thallium	6020	1	0.002	0.00041 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.003 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID: **BC-17** | Matrix: **Water** | Lab ID: **SPLLAF**
Sample Type: **Site Sample** | % Solids: **100** | SDG ID: **1020727A**
Lab Sample ID: **11020727-17A** | Sampling Date/Time: **02/15/2011 9:21** | SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7440-43-9	Cadmium	6020	1	0.002	0.000764 J	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00406 J	mg/L
7439-92-1	Lead	6020	1	0.001	0.0243	mg/L
7439-96-5	Manganese	6020	1	0.002	0.114	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00362	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000439 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00374 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID: **NORTH WELL**
Sample Type: **Site Sample**
Lab Sample ID: **11020727-18A**

Matrix: **Water**
% Solids: **100**
Sampling Date/Time: **02/15/2011 9:33**

Lab ID: **SPLLAF**
SDG ID: **1020727A**
SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00135	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00405	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00148 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000412 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00277 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID: **BC-21R** | Matrix: **Water** | Lab ID: **SPLLAF**
Sample Type: **Site Sample** | % Solids: **100** | SDG ID: **1020727A**
Lab Sample ID: **11020727-19A** | Sampling Date/Time: **02/15/2011 9:58** | SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000912 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00758	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0025	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000416 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00462 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BA-01A**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-20A**	Sampling Date/Time:	**02/15/2011 10:19**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00121	mg/L
7439-96-5	Manganese	6020	1	0.002	0.007	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00139 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.00041 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00706	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00288 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**DUPLICATE #2**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Field Duplicate**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-21A**	Sampling Date/Time:	**02/15/2011 10:19**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00102	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00638	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00101 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000414 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00644	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.0025 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**BA-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-22A**	Sampling Date/Time:	**02/15/2011 11:21**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00102	mg/L
7439-96-5	Manganese	6020	1	0.002	1.37	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0499	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000421 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.0000733 J	mg/L
7440-66-6	Zinc	6020	1	0.01	0.0553	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.00241 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID: **BA-01** | Matrix: **Water** | Lab ID: **SPLLAF**
Sample Type: **Dissolved TRG** | % Solids: **100** | SDG ID: **1020727A**
Lab Sample ID: **11020727-22B** | Sampling Date/Time: **02/15/2011 11:21** | SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00028 U	mg/L
7439-96-5	Manganese	6020	1	0.002	1.23	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000386 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.00104 J	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0445	mg/L
7440-66-6	Zinc	6020	1	0.006	0.051	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.0033 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**DW-3**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-23A**	Sampling Date/Time:	**02/15/2011 13:04**	SDG Page.	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.407	mg/L
7439-96-5	Manganese	6020	1	0.002	1.09	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0482	mg/L
7440-28-0	Thallium	6020	1	0.002	0.0007 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.23	mg/L
7440-66-6	Zinc	6020	1	0.01	0.0889	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.0139 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID: **PW-4**
Sample Type: **Site Sample**
Lab Sample ID: **11020727-24A**

Matrix: **Water**
% Solids: **100**
Sampling Date/Time: **02/15/2011 13:25**

Lab ID: **SPLLAF**
SDG ID: **1020727A**
SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.002	mg/L
7439-96-5	Manganese	6020	1	0.002	1.57	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0408	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000438 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00245 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000849 J	mg/L
7440-66-6	Zinc	6020	1	0.01	0.0921	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**DW-2**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-25A**	Sampling Date/Time:	**02/15/2011 13:53**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020	1	0.002	12.9	mg/L
7440-02-0	Nickel	6020	1	0.002	0.575	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.0187	mg/L
7440-66-6	Zinc	6020	1	0.01	1.41	mg/L
7439-92-1	Lead	6020	5	0.005	0.00865	mg/L
7440-28-0	Thallium	6020	5	0.01	0.00125 U	mg/L
7440-38-2	Arsenic	6020	25	0.1	0.0425 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**DUPLICATE #3**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Field Duplicate**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-26A**	Sampling Date/Time:	**02/15/2011 13:53**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020	1	0.002	13 5	mg/L
7440-02-0	Nickel	6020	1	0.002	0 602	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.0193	mg/L
7440-66-6	Zinc	6020	1	0.01	1.46	mg/L
7439-92-1	Lead	6020	5	0.005	0.00794	mg/L
7440-28-0	Thallium	6020	5	0 01	0.00125 U	mg/L
7440-38-2	Arsenic	6020	25	0 1	0.0386 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BA-05A**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-27A**	Sampling Date/Time:	**02/16/2011 9:03**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020	1	0.002	0.00329	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00107 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00203 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.00395 J	mg/L
7439-92-1	Lead	6020	1	0.001	0.000601 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.00025 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BA-05**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-28A**	Sampling Date/Time:	**02/16/2011 9:37**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020	1	0.002	18.5	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0806	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.0133	mg/L
7439-92-1	Lead	6020	1	0.001	0.000582 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.00025 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.0162 J	mg/L

Client Sample ID:	**MW-A**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-29A**	Sampling Date/Time:	**02/16/2011 10:01**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020	1	0.002	0.00471	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00102 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00134 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000053 U	mg/L
7440-66-6	Zinc	6020	1	0.01	0.0039 J	mg/L
7439-92-1	Lead	6020	1	0.001	0.000617 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.00025 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID: **DW-1** Matrix: **Water** Lab ID: **SPLLAF**
Sample Type: **Site Sample** % Solids: **100** SDG ID: **1020727A**
Lab Sample ID: **11020727-30A** Sampling Date/Time: **02/16/2011 10:42** SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020	1	0.002	1 58	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0206	mg/L
7440-38-2	Arsenic	6020	1	0 004	0.0819	mg/L
7440-43-9	Cadmium	6020	1	0 002	0 0154	mg/L
7440-66-6	Zinc	6020	1	0.01	0 0579	mg/L
7439-92-1	Lead	6020	1	0.001	0 00383	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000385 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**MW-1**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-31A**	Sampling Date/Time:	**02/16/2011 11:19**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020	1	0.002	5.69	mg/L
7440-02-0	Nickel	6020	1	0.002	0.226	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.00475	mg/L
7440-66-6	Zinc	6020	1	0.01	0.258	mg/L
7439-92-1	Lead	6020	5	0.005	0.00578	mg/L
7440-28-0	Thallium	6020	5	0.01	0.00125 U	mg/L
7440-38-2	Arsenic	6020	25	0.1	0.0395 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID: **BA-03A** | Matrix: **Water** | Lab ID: **SPLLAF**
Sample Type: **Site Sample** | % Solids: **100** | SDG ID: **1020727A**
Lab Sample ID: **11020727-32A** | Sampling Date/Time: **02/16/2011 12:00** | SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020	1	0.002	0.507	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0178	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.0443	mg/L
7440-66-6	Zinc	6020	1	0.01	0.0798	mg/L
7439-92-1	Lead	6020	1	0.001	0.0241	mg/L
7440-28-0	Thallium	6020	1	0.002	0.00025 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID: **BA-03A**
Sample Type: **Dissolved TRG**
Lab Sample ID: **11020727-32B**

Matrix: **Water**
% Solids: **100**
Sampling Date/Time: **02/16/2011 12:00**

Lab ID: **SPLLAF**
SDG ID: **1020727A**
SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0 00028 U	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0395	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000364 J	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.000969 J	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00363	mg/L
7440-38-2	Arsenic	6020	1	0.004	0 00165 J	mg/L
7440-66-6	Zinc	6020	1	0.006	0.0032 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BA-03**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-33A**	Sampling Date/Time:	**02/16/2011 12:20**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.0321	mg/L
7439-96-5	Manganese	6020	1	0.002	0.674	mg/L
7440-02-0	Nickel	6020	1	0.002	0.024	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000599 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.0517	mg/L
7440-66-6	Zinc	6020	1	0.01	0.115	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID: **MW-2**
Sample Type: **Site Sample**
Lab Sample ID: **11020727-34A**

Matrix: **Water**
% Solids: **100**
Sampling Date/Time: **02/16/2011 12:48**

Lab ID: **SPLLAF**
SDG ID: **1020727A**
SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020	1	0.002	1.11	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0612	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.112	mg/L
7440-66-6	Zinc	6020	1	0.01	0.27	mg/L
7439-92-1	Lead	6020	1	0.001	0.00382	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000341 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**DUPLICATE #4**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Field Duplicate**	% Solids:	**100**	SDG ID:	**1020727A**
Lab Sample ID:	**11020727-35A**	Sampling Date/Time:	**02/16/2011 12:48**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020	1	0.002	1.05	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0693	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00133 U	mg/L
7440-43-9	Cadmium	6020	1	0.002	0.108	mg/L
7440-66-6	Zinc	6020	1	0.01	0.257	mg/L
7439-92-1	Lead	6020	1	0.001	0.00304	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000331 J	mg/L

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 322954

1102 0727

page 1 of 4

Client Name: SEMS INC
Address: 11629 S CHOCTAW DR
City BR State LA Zip 70815
Phone/Fax: 225 924 2002 / 924 2004
Client Contact: JIMMIES Email:
Project Name/No.: DELATTE METALS / N2270016
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SEMS INC Ph:

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Requested Analysis: Total Metals 6020	Requested Analysis: Dissolved Metals 6020	
BA-09A	2/14/11	919		X	W	P	16	2	1	X		1
BA-09		1001							1	X		1
MW-4		1044							2	X	X	2
WW-09		1105							1	X		1
WW-04		1135							1	X		1
(b) (6) WELL		1140							1	X		1
BC-03		1214							1	X		1
BC-07		1248							1	X		1
DW-04		1309							1	X		1
DUPLICATE #1		1309							1	X		1

Client/Consultant Remarks: DISSOLVED METALS FIELD FILTERED

Laboratory remarks: NOCS SPLDel pH<2 (3w)

Intact? Y N
Ice? Y N
Temp: 15.2 3.0

Requested TAT

- ☐ 1 Business Day
- ☐ 2 Business Days
- ☐ 3 Business Days
- ☐ Contract
- ☒ Standard
- ☐ Other

Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☒
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time		
1. Relinquished by Sampler:	2/17/11	1400	2. Received by:	
3. Relinquished by:	2/18/11	1445	4. Received by:	
5. Relinquished by:	2-18-11	1710	6. Received by Laboratory:	

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 322955

page 2 of 4

Client Name: SEMS INC
Address: 11628 S CHOCTAW DR
City BR State LA Zip 70815
Phone/Fax: 225 924 7002 / 924 2004
Client Contact: J HODGES Email:
Project Name/No.: DELATTE METALS / N2370216
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SEMS INC Ph:

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Total metals 6010B	Dissolved metals 6010B							
BC-19	2/14/11	1328		X	W	P	16	2	1	X								1
BC-19 MS		1328							1	X								1
BC-19 MSD		1328							1	X								1
BC-25		1351							1	X								1
MW-3		1413							1	X								1
MW-6		1453							1	X								1
BB-01	2/15/11	851							1	X								1
SOUTH WELL		904							1	X								1
BC-17		921							1	X								1
NORTH WELL		933							1	X								1

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 15 23.0

Requested TAT
- ☐ 1 Business Day
- ☐ 2 Business Days
- ☐ 3 Business Days
- ☐ Other
- ☐ Contract
- ☒ Standard

Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler:	2/17/11	1400	2. Received by:
3. Relinquished by:	2/18/11	1445	4. Received by:
5. Relinquished by:	2-18-11	1710	6. Received by Laboratory:

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 322956

page 3 of 4

Client Name: SCMS INC
Address: 11628 S CHOCTAW DR
City BR State LA Zip 70815
Phone/Fax: 225 924 2002 / 924 2004
Client Contact: A TOPPES Email:
Project Name/No.: DELTATE METALS W022016
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SCMS INC Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: Total Metals 6010B	Requested Analysis: Dissolved Metals 6010B							
BC-21R	2/15/11	958		X	W	P	16	2	1	X								1
BA-01A		1019							1	X								1
DUPLICATE #2		1019							1	X								1
BA-01		1121							2	X	X							2
DW-3		1304							1	X								1
PW-4		1325							1	X								1
DW-2		1353							1	X								1
DUPLICATE #3		1353							1	X								1
BA-05A	2/16/11	903							1	X								1
BA-05	2/16/11	937							1	X								1

Client/Consultant Remarks: DISSOLVED METALS FIELD FILTERED

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: T152 3.0

Requested TAT

- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other
- Rush TAT requires prior notice

Special Reporting Requirements Results: Fax Email PDF
Standard QC Level 3 QC Level 4 QC TX TRRP LA RECAP

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler:	2/17/11	1400	2. Received by:
3. Relinquished by:	2/18/11	1445	4. Received by: Robert Tauzier
5. Relinquished by: Robert Tauzier	2-18-11	1710	6. Received by Laboratory: Renee Sum

8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 322887

page 4 of 4

Client Name: SEMS INC
Address: 11628 S CHOCTAW DR
City BR State LA Zip 70815
Phone/Fax: 225 924 2002 / 924 2004
Client Contact: JHOPPES Email:
Project Name/No.: DELATTE METALS / N2070016
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SEMS INC Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other	bottle: P=plastic A=amber glass G=glass V=vial X=other	size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other	pres.: 1=HCl 2=HNO3 3=H2SO4 X=other	Number of Containers	Requested Analysis: Total metals 6010B	Dissolved metals 6010B							
MW-A	2/16/11	1001		X	W	P	16	2	1	X								1
DW-1		1042							1	X								1
MW-1		1119							1	X								1
BA-03A		1200							2	X	X							2
BA-03		1220							1	X								1
BA-03 MS		1220							1	X								1
BA-03 MSD		1220							1	X								1
MW-2		1248							1	X								1
DUPLICATE #4		1248							1	X								1
																		1

Client/Consultant Remarks: DISSOLVED METALS FIELD FILTERED

Laboratory remarks:

Intact? ☒ Y ☐ N
Ice? ☒ Y ☐ N
Temp: T 15 23.0

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: [signature]	2/17/11	1400	2. Received by: [signature]
3. Relinquished by: [signature]	2/18/11	1445	4. Received by: Robert Griller
5. Relinquished by: Robert Griller	2-18-11	1710	6. Received by Laboratory: Renee Sam

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Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
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☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

ATTACHMENT E

LEVEL IV DATA PACKAGE
(VOLUME II OF II)

CD ATTACHED

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

SEMS, INC.

Certificate of Analysis Number:

11020727

Report To:		Project Name:	207-0016
SEMS, INC.		Site:	DELATTE METALS
JESSE HOPPES		Site Address:	
11628 S. CHOCTAW DRIVE			PONCHATOULA LA
		PO Number:	
BATON ROUGE		State:	Louisiana
LA		State Cert. No.:	02048
70815-		Date Reported:	3/11/2011
ph: (225) 924-2002	fax: (225) 924-2004		

I. SAMPLE RECEIPT

A. All samples were received intact. The internal ice chest temperatures were measured upon receipt and recorded on the Sample Receipt Checklist included in this data package.

II. ANALYSIS

A. Holding Times: All analyses were completed within the recommended holding time.

B. Measurement Basis: "J" values may be presented for the analyses in this report. Programmatically, "J" values are those confirmed values for components detected less than the "Rep. Limit" but greater than the laboratory method detection limit (MDL). Thus, it should be noted that positive values may appear on quantitation reports but not on Form I if those values are below the MDL.

C. Analytical Exceptions:

Total Metals by SW846 method 6020: Laboratory batch 98096-Target analytes Lead, Manganese, Thallium, and Zinc were detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results. The sample selected for use in Accutest Gulf Coast/SPL Laboratory's quality control program had Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recoveries that were outside of the advisable quality control limits for Arsenic due to possible matrix interference. Other samples of like matrix collected from this site also may be affected. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed and all recoveries were within quality control limits. Laboratory batch 98097-Target analytes Lead, Manganese, Thallium, and Zinc were detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results. The sample selected for use in Accutest Gulf Coast/SPL Laboratory's quality control program had Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recoveries that were outside of the advisable quality control limits for Arsenic, Cadmium, Lead, Nickel, and Zinc due to possible matrix interference. Other samples of like matrix collected from this site also may be affected. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed and all recoveries were within quality control limits. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptablelimits.

Total Metals by SW846 method 6010B: Laboratory batch 98097-Target analyte Arsenic was detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results.

Dissolved Metals by SW846 method 6010B: Laboratory batch 98257-Target analyte Arsenic was detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results.

Amy K. Jackson
Project Manager

3/11/2011
Date

Test results meet all requirements of NELAC, unless specified in the narrative.

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

SEMS, INC.

Certificate of Analysis Number:

11020727

Dissolved Metals by SW846 method 6020: Laboratory batch 98257-Target analytes Cadmium, Nickel, Thallium, and Zinc were detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results.

III. QUALITY CONTROL

A. Analytical Protocol and Deliverables: The samples were analyzed in accordance with the protocol requirements.

B. Initial and Continuing Calibrations: All QA acceptance criteria were met for initial and continuing calibration samples.

C. Blanks: Method and calibration blanks met the method criteria.

NOTE: This data package was produced using software base on CLP type deliverables. The forms and documentation in this data package are to be considered "CLP-like" and may not meet all the criteria specified in the CLP protocols. The data are reported based on the method requirements.

CERTIFICATION:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

3/11/2011

Amy K. Jackson
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

SEMS, INC.

Certificate of Analysis Number:

11020727

Report To: SEMS, INC.
JESSE HOPPES
11628 S. CHOCTAW DRIVE

BATON ROUGE
LA
70815-
ph: (225) 924-2002 fax: (225) 924-2004

Fax To:

Project Name: 207-0016
Site: DELATTE METALS
Site Address:
PONCHATOULA LA
PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 3/11/2011

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
BA-09A	11020727-01	Water	02/14/2011 9:19	2/18/2011 5:10:00 PM	954-322956,322	☐
BA-09	11020727-02	Water	02/14/2011 10:01	2/18/2011 5:10:00 PM	954-322956,322	☐
MW-4	11020727-03	Water	02/14/2011 10:44	2/18/2011 5:10:00 PM	954-322956,322	☐
WW-09	11020727-04	Water	02/14/2011 11:05	2/18/2011 5:10:00 PM	954-322956,322	☐
WW-04	11020727-05	Water	02/14/2011 11:35	2/18/2011 5:10:00 PM	954-322956,322	☐
(b) (6) WELL	11020727-06	Water	02/14/2011 11:40	2/18/2011 5:10:00 PM	954-322956,322	☐
BC-03	11020727-07	Water	02/14/2011 12:14	2/18/2011 5:10:00 PM	954-322956,322	☐
BC-07	11020727-08	Water	02/14/2011 12:48	2/18/2011 5:10:00 PM	954-322956,322	☐
DW-04	11020727-09	Water	02/14/2011 13:09	2/18/2011 5:10:00 PM	954-322956,322	☐
DUPLICATE #1	11020727-10	Water	02/14/2011 13:09	2/18/2011 5:10:00 PM	954-322956,322	☐
BC-19	11020727-11	Water	02/14/2011 13:28	2/18/2011 5:10:00 PM	954-322956,322	☐
BC-19MS	11020727-11MS	Water	02/14/2011 13:28	2/18/2011 5:10:00 PM	954-322956,322	☐
BC-19MSD	11020727-11MSD	Water	02/14/2011 13:28	2/18/2011 5:10:00 PM	954-322956,322	☐
BC-25	11020727-12	Water	02/14/2011 13:51	2/18/2011 5:10:00 PM	954-322956,322	☐
MW-3	11020727-13	Water	02/14/2011 14:13	2/18/2011 5:10:00 PM	954-322956,322	☐
MW-6	11020727-14	Water	02/14/2011 14:53	2/18/2011 5:10:00 PM	954-322956,322	☐
BB-01	11020727-15	Water	02/15/2011 8:51	2/18/2011 5:10:00 PM	954-322956,322	☐
SOUTH WELL	11020727-16	Water	02/15/2011 9:04	2/18/2011 5:10:00 PM	954-322956,322	☐
BC-17	11020727-17	Water	02/15/2011 9:21	2/18/2011 5:10:00 PM	954-322956,322	☐
NORTH WELL	11020727-18	Water	02/15/2011 9:33	2/18/2011 5:10:00 PM	954-322956,322	☐
BC-21R	11020727-19	Water	02/15/2011 9:58	2/18/2011 5:10:00 PM	954-322956,322	☐
BA-01A	11020727-20	Water	02/15/2011 10:19	2/18/2011 5:10:00 PM	954-322956,322	☐

3/11/2011

Amy K. Jackson
ProjectManager

Date

RonBenjamin
LaboratoryDirector

Tristan Davis
Quality Assurance Officer

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

SEMS, INC.

Certificate of Analysis Number:

11020727

Report To: SEMS, INC.
JESSE HOPPES
11628 S. CHOCTAW DRIVE

BATON ROUGE
LA
70815-
ph: (225) 924-2002 fax: (225) 924-2004

Fax To:

Project Name: 207-0016
Site: DELATTE METALS
Site Address:
PONCHATOULA LA
PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 3/11/2011

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
DUPLICATE #2	11020727-21	Water	02/15/2011 10:19	2/18/2011 5:10:00 PM	954-322956,322	☐
BA-01	11020727-22	Water	02/15/2011 11:21	2/18/2011 5:10:00 PM	954-322956,322	☐
DW-3	11020727-23	Water	02/15/2011 13:04	2/18/2011 5:10:00 PM	954-322956,322	☐
PW-4	11020727-24	Water	02/15/2011 13:25	2/18/2011 5:10:00 PM	954-322956,322	☐
DW-2	11020727-25	Water	02/15/2011 13:53	2/18/2011 5:10:00 PM	954-322956,322	☐
DUPLICATE #3	11020727-26	Water	02/15/2011 13:53	2/18/2011 5:10:00 PM	954-322956,322	☐
BA-05A	11020727-27	Water	02/16/2011 9:03	2/18/2011 5:10:00 PM	954-322956,322	☐
BA-05	11020727-28	Water	02/16/2011 9:37	2/18/2011 5:10:00 PM	954-322956,322	☐
MW-A	11020727-29	Water	02/16/2011 10:01	2/18/2011 5:10:00 PM	954-322956,322	☐
DW-1	11020727-30	Water	02/16/2011 10:42	2/18/2011 5:10:00 PM	954-322956,322	☐
MW-1	11020727-31	Water	02/16/2011 11:19	2/18/2011 5:10:00 PM	954-322956,322	☐
BA-03A	11020727-32	Water	02/16/2011 12:00	2/18/2011 5:10:00 PM	954-322956,322	☐
BA-03	11020727-33	Water	02/16/2011 12:20	2/18/2011 5:10:00 PM	954-322956,322	☐
BA-03MS	11020727-33MS	Water	02/16/2011 12:20	2/18/2011 5:10:00 PM	954-322956,322	☐
BA-03MSD	11020727-33MSD	Water	02/16/2011 12:20	2/18/2011 5:10:00 PM	954-322956,322	☐
MW-2	11020727-34	Water	02/16/2011 12:48	2/18/2011 5:10:00 PM	954-322956,322	☐
DUPLICATE #4	11020727-35	Water	02/16/2011 12:48	2/18/2011 5:10:00 PM	954-322956,322	☐

Amy K. Jackson
ProjectManager

3/11/2011
Date

RonBenjamin
LaboratoryDirector

Tristan Davis
Quality Assurance Officer

Version 2.1 - Modified February 11, 2011

SAMPLE RECEIPT CHECKLIST
AND
CHAIN OF CUSTODY

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	11020727	Received By:	SRS
Date and Time Received:	2/18/2011 5:10:00 PM	Carrier name:	SPL-Driver-Other
Temperature:	3°C	Chilled by:	Water Ice

1.	Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present ☐
2.	Custody seals intact on shippping container/cooler?	Yes	☐	No	☐	Not Present ☑
3.	Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present ☑
4.	Chain of custody present?	Yes	☑	No	☐	
5.	Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
6.	Chain of custody agrees with sample labels?	Yes	☑	No	☐	
7.	Samples in proper container/bottle?	Yes	☑	No	☐	
8.	Sample containers intact?	Yes	☑	No	☐	
9.	Sufficient sample volume for indicated test?	Yes	☑	No	☐	
10.	All samples received within holding time?	Yes	☑	No	☐	
11.	Container/Temp Blank temperature in compliance?	Yes	☑	No	☐	
12.	Water - VOA vials have zero headspace?	Yes	☐	No	☐	VOA Vials Not Present ☑
13.	Water - Preservation checked upon receipt (except VOA*)?	Yes	☑	No	☐	Not Applicable ☐

*VOA Preservation Checked After Sample Analysis

SPL Representative: _____ Contact Date & Time: _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 322954

1102 027

page 1 of 4

Client Name: SEMS INC

Address: 11629 S CHOCTAW DR

City BR State LA Zip 70815

Phone/Fax: 225 924 2002 / 924 2004

Client Contact: JHODGES Email:

Project Name/No.: DELATTE METALS / N2270016

Site Name:

Site Location: PONCHATOULA, LA

Invoice To: SEMS INC Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: Total Metals 6010B	Requested Analysis: Dissolved Metals 6010B							
BA-09A	2/14/11	919		X	W	P	16	2	1	X								1
BA-09		1001							1	X								1
MW-4		1044							2	X	X							2
WW-09		1105							1	X								1
WW-04		1135							1	X								1
(b) (6) WELL		1140							1	X								1
BC-03		1214							1	X								1
BC-07		1248							1	X								1
DW-04		1309							1	X								1
DUPLICATE #1		1309							1	X								1

Client/Consultant Remarks: DISSOLVED METALS FIELD FILTERED

Laboratory remarks: NOCS SPLDel pH<2 3W

Intact? Y N

Ice? Y N

Temp: TB2 3.0

Requested TAT

- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other

Rush TAT requires prior notice

Special Reporting Requirements Results: Fax Email PDF

Standard QC Level 3 QC Level 4 QC TX TRRP LA RECAP

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler:	2/17/11	1400	2. Received by:
3. Relinquished by:	2/18/11	1445	4. Received by:
5. Relinquished by:	2-18-11	1710	6. Received by Laboratory:

8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 322955

page 2 of 4

Client Name: SEMS INC
Address: 11628 S CHOCTAW DR
City BR State LA Zip 70815
Phone/Fax: 225 924 2002 / 924 2004
Client Contact: J HODGES Email:
Project Name/No.: DELTA METALS / N2070216
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SEMS INC Ph:

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Requested Analysis: TOTAL METALS 6010B	Requested Analysis: DISSOLVED METALS 6010B	
BC-19	2/14/11	1328		X	W	P	16	2	1	X		1
BC-19 MS		1328							1	X		1
BC-19 MSD		1328							1	X		1
BC-25		1351							1	X		1
MW-3		1413							1	X		1
MW-6		1453							1	X		1
BB-01	2/15/11	851							1	X		1
SOUTH WELL		904							1	X		1
BC-17		921							1	X		1
NORTH WELL		933							1	X		1

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: T1523.0

Requested TAT

- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other

Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: [signature]	2/17/11	1400	2. Received by: [signature]
3. Relinquished by: [signature]	2/18/11	1445	4. Received by: Robert Guillot
5. Relinquished by: Robert Guillot	2-18-11	1710	6. Received by Laboratory: [signature]

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Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 322956

page 3 of 4

Client Name: SCRS INC
Address: 11628 S CHOCTAW DR
City BR State LA Zip 70815
Phone/Fax: 225 924 2332 / 924 2334
Client Contact: A TOPPES Email:
Project Name/No.: DELTA METALS W2700216
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SCRS INC Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: Total Metals 6010B	Dissolved Metals 6010B							
BC-21R	2/15/11	958		X	W	P	16	2	1	X								1
BA-01A		1019							1	X								1
DUPLICATE #2		1019							1	X								1
BA-01		1121							2	X	X							2
DW-3		1304							1	X								1
PW-4		1325							1	X								1
DW-2		1353							1	X								1
DUPLICATE #3		1353							1	X								1
BA-05A	2/16/11	903							1	X								1
BA-05	2/16/11	937							1	X								1

Client/Consultant Remarks: DISSOLVED METALS FIELD FILTERED

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: T1523.0

Requested TAT

- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other 6

Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler:	2/17/11	1400	2. Received by:
3. Relinquished by:	2/18/11	1445	4. Received by:
5. Relinquished by:	2-18-11	1710	6. Received by Laboratory:

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Traverse City, MI 49686 (231) 947-5777

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 322887

page 4 of 4

Client Name: SEMS INC
Address: 11626 S CHRISTIAN OR
City BR State LA Zip 70815
Phone/Fax: 225 924 2002 / 924 2004
Client Contact: JTHOMPES Email:
Project Name/No.: DELATTE METALS / N2070016
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SEMS INC Ph:

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Requested Analysis: TOTAL METALS 6010B	Requested Analysis: DISSOLVED METALS 6010B	
MW-A	2/16/11	1001		X	W	P	16	2	1	X		1
DW-1		1042							1	X		1
MW-1		1119							1	X		1
BA-03A		1200							2	X	X	2
BA-03		1220							1	X		1
BA-03 MS		1220							1	X		1
BA-03 MSD		1220							1	X		1
MW-2		1248							1	X		1
DUPLICATE #4		1248							1	X		1
												1

Client/Consultant Remarks: DISSOLVED METALS FIELD FILTERED

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 15 23.0

Requested TAT

- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other
- 10

Rush TAT requires prior notice

Special Reporting Requirements Results: Fax Email PDF
Standard QC Level 3 QC Level 4 QC TX TRRP LA RECAP

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: Jamie Mix	2/17/11	1400	2. Received by:
3. Relinquished by:	2/18/11	1445	4. Received by: Robert Griffin
5. Relinquished by: Robert Griffin	2-18-11	1710	6. Received by Laboratory: Renee Sum

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500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

EPA DEFINED QUALIFIERS

EPA Defined Data Qualifiers for Inorganics

The data qualifiers for inorganic parameters (metals and cyanide) are defined below. The qualifiers fall into three categories:

Concentration(C) qualifiers
Data quality (Q) qualifiers
Analysis method (M) qualifiers

Concentration Qualifiers:

J -- Indicates that the analyte was detected at a level greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

U -- Indicates that the analyte was analyzed but not detected at a concentration greater than the MDL for the analyte. For each sample, the MDL or PQL reported on the Form 1-IN must be corrected for dilution factors and/or for percent moisture (soils).

Data Quality Qualifiers:

E -- Indicates analyte(s) with a reported value that is considered as "estimated" because of the presence of interference. Typically, this qualifier is used in cases in which the RPD between the ICP serial dilution results on Form 9 differs from the initial result on Form 1 by more than 10 percent. (The E flag does not apply if the sample concentration is less than 50 times the MDL). Whenever an "E" flag is used, a narrative explanation must accompany the SDG or the Form 1-IN depending on whether the problem is isolated or applies to all samples.

N -- Indicates spike sample recovery was not within the 75% - 125% recovery control limits. A post-digestion or post-distillation spike for the target analyte that failed must accompany all data flagged with an "N" except for graphite furnace metals or silver.

* -- Indicates that the duplicate analysis (Form 5 or 6) was not within the +/-20% RPD.

EPA Defined Data Qualifiers for Inorganics (cont.)

Analysis Method Qualifiers.

P: ICP-AES
MS: ICP-MS
CV: Manual Cold Vapor Atomic Absorption (AA)
AV: Automated Cold Vapor AA
AS: Semi-Automated Spectrophotometric
C: Manual Spectrophotometric

INORGANICS LEVEL IV PACKAGE
11020727 NARRATIVE

Analytical measurements less than the laboratory reporting limit (PQL) but greater than the laboratory method detection limit (MDL) are presented as estimate quantities which are indicated with a "J" in the qualifier field on this data report.

The definition of "program design" in the subsequent narrative is as follows: The SPL reporting software was designed to not report original data for samples belonging to WorkOrders that are not related to the client's WorkOrder/SDG. Any flags from non-client QC cannot be applied to original sample data since the software does not recognize the original sequence number to correlate with the appropriate spike reference values and/or Relative Percent Difference (RPD%) reference values.

Preparation Batch: 98096 (6010)

Sample BA-09; Accutest/SPL sample ID: 11020727-02A was analyzed by method 6010 at a 5x dilution due to internal standard failure at 1x dilution.

Preparation Batch: 98097 (6010)

Recovery of arsenic in the matrix spike and matrix spike duplicate analyses of sample BA-03; Accutest/SPL sample ID: 11020727-33A, as listed on Form V(a)-IN exceeded the control limit acceptance criteria. Field sample results affected by this non-conformance are not noted with "N" in the quality control field on this data report due to program design.

Preparation Batch: 98257 (6010)

No exceptions noted

Preparation Batch: 98096

No exceptions noted

Preparation Batch: 98097

Recovery of arsenic, cadmium, nickel, and zinc in the matrix spike and matrix spike duplicate analyses of sample BA-03; Accutest/SPL sample ID: 11020727-33A, as listed on Form V(a)-IN exceeded the control limit acceptance criteria. Field sample results affected by this non-conformance are noted with "N" in the quality control field on this data report.

RPD for cadmium, lead, and zinc in the matrix spike and matrix spike duplicate analyses of sample BA-03; Accutest/SPL sample ID: 11020727-33A, as listed on Form V(a)-IN exceeded the control limit acceptance criteria. Field sample results affected by this non-conformance are noted with an asterisk "*" in the quality control field on this data report.

Reviewed By: Laura Burks

Date: 3-11-11

INORGANICS LEVEL IV PACKAGE
11020727 NARRATIVE

The final CCV standard exceeded the lower QC limit for lead and thallium. Samples bracketed by the final CCV were not reported for these lead and thallium.

Sample DW-2; Accutest/SPL sample ID: 11020727-25A was analyzed by method 6020 at a 5x and 25x dilutions due to internal standard failure at 1x dilution.

Sample DUPLICATE #3; Accutest/SPL sample ID: 11020727-26A was analyzed by method 6020 at a 5x and 25x dilutions due to internal standard failure at 1x dilution.

Sample MW-1; Accutest/SPL sample ID: 11020727-31A was analyzed by method 6020 at a 5x and 25x dilutions due to internal standard failure at 1x dilution.

Preparation Batch: 98257

No exceptions noted

Reviewed By: Laurie Petro

Date: 3-11-11

METALS CLP-LIKE FORMS

COVER PAGE - INORGANICS DATA PACKAGE

Lab Name: SPL Inc.

Lab Code: SPLLAF

SDG: 11020727

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Matrix
BA-01	11020727-22	2/15/11 11:21	2/18/11 17:10	Water
BA-03A	11020727-32	2/16/11 12:00	2/18/11 17:10	Water
MW-4	11020727-03	2/14/11 10:44	2/18/11 17:10	Water

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

Signature: Keran Lafleur

Name: Keran Lafleur

Date: 3/10/11

Title: Metals Supervisor

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

MW-4

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-03B

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Dissolved

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000979	J	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.00028	U	0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.000235	J	0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00148	J	0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000592	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00204	J	0.00122	0.006		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-01

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-22B

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Dissolved

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-43-9	Cadmium	1	0.00104	J	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.00028	U	0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	1.23		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.0445		0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000386	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.0510		0.00122	0.006		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-03A

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-32B

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Dissolved

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00165	J	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000969	J	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.00028	U	0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.0395		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00363		0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000364	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00320	J	0.00122	0.006		P	mg/L

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/3/11 5:08	Sample Type:	CCV
RunID:	ICPMS_110303C-3958419	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Cadmium	100	94.04	94.0	P	90	110
Lead	100	99.80	99.8	P	90	110
Manganese	100	93.61	93.6	P	90	110
Thallium	100	99.87	99.9	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/3/11 5:41	Sample Type:	CCV
RunID:	ICPMS_110303C-3958431	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Cadmium	100	92.56	92.6	P	90	110
Lead	100	109.3	109.3	P	90	110
Manganese	100	98.99	99.0	P	90	110
Thallium	100	106.6	106.6	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/3/11 5:51	Sample Type:	CCV
RunID:	ICPMS_110303C-3958435	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Cadmium	100	91.88	91.9	P	90	110
Lead	100	105.9	105.9	P	90	110
Manganese	100	98.01	98.0	P	90	110
Thallium	100	104.2	104.2	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/3/11 14:00	Sample Type:	CCV
RunID:	ICPMS_110303E-3958781	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	100.0	100.0	P	90	110
Nickel	100	99.08	99.1	P	90	110
Zinc	100	98.43	98.4	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/3/11 14:17	Sample Type:	CCV
RunID:	ICPMS_110303E-3958786	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	101.5	101.5	P	90	110
Nickel	100	102.0	102.0	P	90	110
Zinc	100	100.5	100.5	P	90	110

INITIAL CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	ICV
Analysis	3/3/11 2:19	Sample Type:	ICV
RunID:	ICPMS_110303C-3958415	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Cadmium	100	92.75	92.8	P	90	110
Lead	100	95.11	95.1	P	90	110
Manganese	100	91.55	91.6	P	90	110
Thallium	100	94.65	94.6	P	90	110

INITIAL CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	ICV
Analysis	3/3/11 12:59	Sample Type:	ICV
RunID:	ICPMS_110303E-3958769	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	95.96	96.0	P	90	110
Nickel	100	97.16	97.2	P	90	110
Zinc	100	95.93	95.9	P	90	110

INITIAL CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 11020727

Lab Code: SPLLAF

Lab Sample ID: ICB

Matrix: Water

Analysis Date: 3/3/11 2:22

Run ID: ICPMS_110303C-3958416

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-43-9	Cadmium	0.96	J	0.053	2.0	P	ug/L
7439-92-1	Lead	0.28	U	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.22	U	0.22	2.0	P	ug/L
7440-28-0	Thallium	0.46	J	0.25	2.0	P	ug/L

INITIAL CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 11020727

Lab Code: SPLLAF

Lab Sample ID: ICB

Matrix: Water

Analysis Date: 3/3/11 13:07

Run ID: ICPMS_110303E-3958770

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7440-02-0	Nickel	0.48	U	0.48	2.0	P	ug/L
7440-66-6	Zinc	1.2	U	1.2	6.0	P	ug/L

METHOD BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	MBLK-98257
Matrix:	Water	Total/Dissolved:	Dissolved
Analysis Date:	3/3/11 5:19		
Run ID:	ICPMS_110303C-3958423		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-43-9	Cadmium	0.000962	J	0.0000528	0.002	P	mg/L
7439-92-1	Lead	0.000280	U	0.000280	0.001	P	mg/L
7439-96-5	Manganese	0.000217	U	0.000217	0.002	P	mg/L
7440-28-0	Thallium	0.000354	J	0.000250	0.002	P	mg/L

METHOD BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	MBLK-98257
Matrix:	Water	Total/Dissolved:	Dissolved
Analysis Date:	3/3/11 13:37		
Run ID:	ICPMS_110303E-3958773		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	0.00133	U	0.00133	0.004	P	mg/L
7440-02-0	Nickel	0.00200	J	0.000477	0.002	P	mg/L
7440-66-6	Zinc	0.00136	J	0.00122	0.006	P	mg/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 11020727

Lab Code: SPLLAF

Lab Sample ID: CCB

Matrix: Water

Analysis Date: 3/3/11 5:11

Run ID: ICPMS_110303C-3958420

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-43-9	Cadmium	0.96	J	0.053	2.0	P	ug/L
7439-92-1	Lead	0.28	U	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.22	U	0.22	2.0	P	ug/L
7440-28-0	Thallium	0.43	J	0.25	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 11020727

Lab Code: SPLLAF

Lab Sample ID: CCB

Matrix: Water

Analysis Date: 3/3/11 5:43

Run ID: ICPMS_110303C-3958432

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-43-9	Cadmium	0.97	J	0.053	2.0	P	ug/L
7439-92-1	Lead	0.28	U	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.22	U	0.22	2.0	P	ug/L
7440-28-0	Thallium	0.48	J	0.25	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 3/3/11 5:54

Run ID: ICPMS_110303C-3958436

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-43-9	Cadmium	0.97	J	0.053	2.0	P	ug/L
7439-92-1	Lead	0.28	U	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.22	U	0.22	2.0	P	ug/L
7440-28-0	Thallium	0.46	J	0.25	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 11020727

Lab Code: SPLLAF

Lab Sample ID: CCB

Matrix: Water

Analysis Date: 3/3/11 14:03

Run ID: ICPMS_110303E-3958782

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7440-02-0	Nickel	0.48	U	0.48	2.0	P	ug/L
7440-66-6	Zinc	1.2	U	1.2	6.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 3/3/11 14:20

Run ID: ICPMS_110303E-3958787

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	J	1.3	4.0	P	ug/L
7440-02-0	Nickel	0.48	U	0.48	2.0	P	ug/L
7440-66-6	Zinc	1.2	U	1.2	6.0	P	ug/L

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/03/2011 02:25			03/03/2011 02:27				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	96827.4	96.83		104266	104.3		70-130	70-130
Antimony	0	0	1.1664	0		1.15057	0		-	-
Arsenic	0	40	0	0		34.4	85.96		-	70-130
Barium	0	0	5.3	0		5.5	0		-	-
Beryllium	0	0	0	0		0	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	3.9	0		40.4	101		-	70-130
Calcium	100000	100000	87513	87.51		90672.8	90.67		70-130	70-130
Chromium	0	80	0.59483	0		74	92.46		-	70-130
Cobalt	0	80	1.13004	0		73.4	91.78		-	70-130
Copper	0	80	0.79707	0		70.5	88.15		-	70-130
Iron	100000	100000	94150.1	94.15		96995.1	97		70-130	70-130
Lead	0	0	8	0		8.5	0		-	-
Lithium	0	0	0	0		0	0		-	-
Magnesium	100000	100000	91306.9	91.31		97840.6	97.84		70-130	70-130
Manganese	0	80	6.7	0		80.1	100.2		-	70-130
Molybdenum	2000	2000	1712.2	85.61		1741.7	87.09		70-130	70-130
Nickel	0	80	2.1	0		72.2	90.3		-	70-130
Potassium	100000	100000	89995.6	90		97640.7	97.64		70-130	70-130
Selenium	0	40	5.1	0		41.3	103.1		-	70-130
Silver	0	20	0.12813	0		17.7	88.74		-	70-130
Sodium	100000	100000	97642.8	97.64		101351	101.4		70-130	70-130
Strontium	0	0	7	0		7.3	0		-	-
Thallium	0	0	0.62038	0		0.62669	0		-	-
Tin	0	0	0.32328	0		0.25433	0		-	-
Titanium	2000	0	1711.1	85.55		1760.3	0		70-130	-
Vanadium	0	80	0	0		75.1	93.94		-	70-130
Zinc	0	40	0	0		37.1	92.8		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/03/2011 05:14			03/03/2011 05:16				
	Sol. A	Sol. AB	Sol. A Found	% R	Q	Sol. AB Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	116647	116.6		120867	120.9		70-130	70-130
Antimony	0	0	1.17395	0		1.15073	0		-	-
Arsenic	0	40	1.36061	0		34.9	87.18		-	70-130
Barium	0	0	5.3	0		5.5	0		-	-
Beryllium	0	0	0	0		0	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	3.7	0		39.2	97.96		-	70-130
Calcium	100000	100000	90732.9	90.73		92783.8	92.78		70-130	70-130
Chromium	0	80	0.64165	0		76.7	95.92		-	70-130
Cobalt	0	80	1.17879	0		74.3	92.91		-	70-130
Copper	0	80	0.73673	0		70.3	87.87		-	70-130
Iron	100000	100000	99502.2	99.5		104341	104.3		70-130	70-130
Lead	0	0	8.5	0		9.1	0		-	-
Lithium	0	0	0.533	0		0.51747	0		-	-
Magnesium	100000	100000	105738	105.7		111952	112		70-130	70-130
Manganese	0	80	6.9	0		85.7	107.1		-	70-130
Molybdenum	2000	2000	1656.1	82.81		1721.4	86.07		70-130	70-130
Nickel	0	80	2.1	0		74.5	93.16		-	70-130
Potassium	100000	100000	96859.2	96.86		98421	98.42		70-130	70-130
Selenium	0	40	5.2	0		40	100.1		-	70-130
Silver	0	20	0.15076	0		17.2	86.11		-	70-130
Sodium	100000	100000	112474	112.5		121853	121.9		70-130	70-130
Strontium	0	0	7	0		7.2	0		-	-
Thallium	0	0	0.62056	0		0.64994	0		-	-
Tin	0	0	0.31109	0		0.38118	0		-	-
Titanium	2000	0	1767.2	88.36		1808.3	0		70-130	-
Vanadium	0	80	0	0		76.5	95.65		-	70-130
Zinc	0	40	1.73731	0		39.3	98.25		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/03/2011 05:57			03/03/2011 05:59				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	122562	122.6		126235	126.2		70-130	70-130
Antimony	0	0	1.15338	0		1.15095	0		-	-
Arsenic	0	40	1.89341	0		35	87.6		-	70-130
Barium	0	0	5.5	0		5.6	0		-	-
Beryllium	0	0	0	0		0	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	3.7	0		39.8	99.62		-	70-130
Calcium	100000	100000	92522.7	92.52		95739.6	95.74		70-130	70-130
Chromium	0	80	0.87345	0		78.1	97.64		-	70-130
Cobalt	0	80	1.29474	0		76.9	96.08		-	70-130
Copper	0	80	0.82927	0		71.6	89.53		-	70-130
Iron	100000	100000	101813	101.8		105350	105.4		70-130	70-130
Lead	0	0	9.1	0		9.3	0		-	-
Lithium	0	0	0.73832	0		0.77421	0		-	-
Magnesium	100000	100000	106661	106.7		109718	109.7		70-130	70-130
Manganese	0	80	7.3	0		87.5	109.4		-	70-130
Molybdenum	2000	2000	1744.2	87.21		1738.6	86.93		70-130	70-130
Nickel	0	80	2.1	0		74.8	93.51		-	70-130
Potassium	100000	100000	93783.1	93.78		94828.5	94.83		70-130	70-130
Selenium	0	40	5	0		39.8	99.55		-	70-130
Silver	0	20	0.12348	0		17.3	86.72		-	70-130
Sodium	100000	100000	117797	117.8		116678	116.7		70-130	70-130
Strontium	0	0	7.2	0		7.1	0		-	-
Thallium	0	0	0.63482	0		0.64413	0		-	-
Tin	0	0	0.23708	0		0.40044	0		-	-
Titanium	2000	0	1773.9	88.7		1855.2	0		70-130	-
Vanadium	0	80	0	0		76.9	96.07		-	70-130
Zinc	0	40	1.39948	0		38.8	97.11		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/03/2011 13:26			03/03/2011 13:29				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	94774.5	94.78		95455.4	95.46		70-130	70-130
Antimony	0	0	0.77249	0		0.7148	0		-	-
Arsenic	0	40	0	0		38.3	95.8		-	70-130
Barium	0	0	5.2	0		5.1	0		-	-
Beryllium	0	0	1.17258	0		1.18752	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	3.4	0		42.2	105.6		-	70-130
Calcium	100000	100000	101933	101.9		99971.8	99.97		70-130	70-130
Chromium	0	80	1.42338	0		80.6	100.8		-	70-130
Cobalt	0	80	1.18901	0		80.9	101.1		-	70-130
Copper	0	80	1.34737	0		78.1	97.62		-	70-130
Iron	100000	100000	105534	105.5		105354	105.4		70-130	70-130
Lead	0	0	9.2	0		9.3	0		-	-
Lithium	0	0	0.56878	0		0.34926	0		-	-
Magnesium	100000	100000	88739.2	88.74		85335	85.34		70-130	70-130
Manganese	0	80	8.2	0		87.6	109.5		-	70-130
Molybdenum	2000	2000	1882.2	94.11		1914.6	95.73		70-130	70-130
Nickel	0	80	2.4	0		78	97.52		-	70-130
Potassium	100000	100000	98558.4	98.56		94142.9	94.14		70-130	70-130
Selenium	0	40	3.80004	0		42.3	105.7		-	70-130
Silver	0	20	0.45368	0		19.6	97.93		-	70-130
Sodium	100000	100000	93878.5	93.88		90330.8	90.33		70-130	70-130
Strontium	0	0	7.9	0		8	0		-	-
Thallium	0	0	0	0		0	0		-	-
Tin	0	0	0	0		0	0		-	-
Titanium	2000	0	2008	100.4		1992.5	0		70-130	-
Vanadium	0	80	0	0		80.1	100.2		-	70-130
Zinc	0	40	2.44939	0		42.5	106.2		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/03/2011 14:23			03/03/2011 14:26				
	Sol. A	Sol. AB	Sol. A Found	% R	Q	Sol. AB Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	90271.3	90.27		92663.7	92.66		70-130	70-130
Antimony	0	0	0.72806	0		0.7271	0		-	-
Arsenic	0	40	0	0		38.2	95.48		-	70-130
Barium	0	0	4.98054	0		5.2	0		-	-
Beryllium	0	0	1.15709	0		1.17293	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	3.5	0		43.7	109.2		-	70-130
Calcium	100000	100000	97419.8	97.42		100111	100.1		70-130	70-130
Chromium	0	80	1.697	0		81.7	102.2		-	70-130
Cobalt	0	80	1.20375	0		80.5	100.7		-	70-130
Copper	0	80	1.29224	0		77.2	96.48		-	70-130
Iron	100000	100000	103987	104		105037	105		70-130	70-130
Lead	0	0	9.1	0		9.4	0		-	-
Lithium	0	0	0.37457	0		0.4451	0		-	-
Magnesium	100000	100000	84427.1	84.43		87509.7	87.51		70-130	70-130
Manganese	0	80	7.9	0		87.5	109.4		-	70-130
Molybdenum	2000	2000	1884.9	94.25		1938.8	96.94		70-130	70-130
Nickel	0	80	2.3	0		79.7	99.67		-	70-130
Potassium	100000	100000	91666	91.67		94345.3	94.34		70-130	70-130
Selenium	0	40	3.94555	0		42.3	105.9		-	70-130
Silver	0	20	0.47338	0		20.5	102.7		-	70-130
Sodium	100000	100000	87960.1	87.96		90730.4	90.73		70-130	70-130
Strontium	0	0	7.8	0		8.1	0		-	-
Thallium	0	0	0	0		0	0		-	-
Tin	0	0	0	0		0	0		-	-
Titanium	2000	0	1971.3	98.56		2011.8	0		70-130	-
Vanadium	0	80	0	0		78.2	97.8		-	70-130
Zinc	0	40	2.38476	0		41.3	103.2		-	70-130

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Ext. method:

Total/Diss.: Dissolved Level:(low/med): LOW

Matrix Spike - Client SampleID: MW-4MS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	MS CONCENTRATION mg/L	C	MS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Cadmium	0.1	0.000979	J	0.09079		89.8		75	125	P
Lead	0.1	0.00028	U	0.1007		100.7		75	125	P
Manganese	0.1	0.000235	J	0.09162		91.4		75	125	P
Thallium	0.1	0.000592	J	0.09894		98.3		75	125	P

Matrix Spike - Client SampleID: MW-4MSD

Analyte	SPIKE ADDED mg/L	MSD CONCENTRATION mg/L	C	MSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Cadmium	0.1	0.08941		88.4		1.53		20	75	125	P
Lead	0.1	0.1032		103.2		2.45		20	75	125	P
Manganese	0.1	0.09447		94.2		3.06		20	75	125	P
Thallium	0.1	0.09923		98.6		0.293		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Ext. method:

Total/Diss.: Dissolved Level:(low/med): LOW

Matrix Spike - Client SampleID: MW-4MS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	MS CONCENTRATION mg/L	C	MS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.00133	U	0.09812		98.12		75	125	P
Nickel	0.1	0.00148	J	0.09617		94.7		75	125	P
Zinc	0.1	0.00204	J	0.09722		95.2		75	125	P

Matrix Spike - Client SampleID: MW-4MSD

Analyte	SPIKE ADDED mg/L	MSD CONCENTRATION mg/L	C	MSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.09735		97.35		0.788		20	75	125	P
Nickel	0.1	0.09586		94.4		0.323		20	75	125	P
Zinc	0.1	0.09632		94.3		0.930		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

POST DIGESTION SPIKE/POST DIGESTION SPIKE DUPLICATE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Ext. method:

Total/Diss.: Dissolved Level:(low/med): LOW

Matrix Spike - Client SampleID: MW-4PDS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	PDS CONCENTRATION mg/L	PDS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Cadmium	0.5	0.000979	J	0.4669	93.2		75	125	P
Lead	0.5	0.00028	U	0.5354	107.1		75	125	P
Manganese	0.5	0.000235	J	0.4774	95.4		75	125	P
Thallium	0.5	0.000592	J	0.5300	106		75	125	P

Analyte	SPIKE ADDED mg/L	PDSD CONCENTRATION mg/L	PDSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Cadmium	0.5	0.4604	91.9		1.40		20	75	125	P
Lead	0.5	0.5172	103.4		3.46		20	75	125	P
Manganese	0.5	0.4648	92.9		2.67		20	75	125	P
Thallium	0.5	0.5139	103		3.08		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

POST DIGESTION SPIKE/POST DIGESTION SPIKE DUPLICATE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Ext. method:

Total/Diss.: Dissolved Level:(low/med): LOW

Matrix Spike - Client SampleID: MW-4PDS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	PDS CONCENTRATION mg/L	PDS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.5	0.00133	U	0.4999	99.97		75	125	P
Nickel	0.5	0.00148	J	0.4940	98.5		75	125	P
Zinc	0.5	0.00204	J	0.5019	100		75	125	P

Analyte	SPIKE ADDED mg/L	PDSD CONCENTRATION mg/L	PDSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.5	0.4941	98.83		1.17		20	75	125	P
Nickel	0.5	0.4988	99.5		0.967		20	75	125	P
Zinc	0.5	0.4957	98.7		1.24		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

LABORATORY CONTROL SAMPLE

LCS-98257

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Total/Dissolved: Dissolved

Solid LCS Source:

Aqueous LCS Source:

Analyte	M	Aqueous (mg/L) True	Found	%R	Limits	Solid (mg/kg) True	Found	C	%R	Limits
Cadmium	P	0.1	0.09135	91.35	80 - 120					
Lead	P	0.1	0.1029	102.9	80 - 120					
Manganese	P	0.1	0.09068	90.68	80 - 120					
Thallium	P	0.1	0.1009	100.9	80 - 120					

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

LABORATORY CONTROL SAMPLE

LCS-98257

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Total/Dissolved: Dissolved

Solid LCS Source:

Aqueous LCS Source:

Analyte	M	Aqueous (mg/L) True	Found	%R	Limits	Solid (mg/kg) True	Found	C	%R	Limits
Arsenic	P	0.1	0.09896	98.96	80 - 120					
Nickel	P	0.1	0.09972	99.72	80 - 120					
Zinc	P	0.1	0.09756	97.56	80 - 120					

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

ICP SERIAL DILUTIONS

Client Sample ID
MW-4SD

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

Total/Diss.: Dissolved

Lab Sample ID: 11020727-03B

SDG: 11020727

Concentration Units: mg/L

Analyte	Initial Sample Results (I)	C	Serial Dilution Results (S)	C	% Difference	Q	M
Cadmium	0.000979	J	0.004824	J			P
Lead	0.00028	U	0.001398	U			P
Manganese	0.000235	J	0.001086	U			P
Thallium	0.000592	J	0.001826	J			P
Arsenic	0.00133	U	0.006628	U			P
Nickel	0.00148	J	0.002387	U			P
Zinc	0.00204	J	0.006648	J			P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

METHOD DETECTION LIMITS

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF

Instrument ID Number: ICPMS Date:

6020_D

Analyte	Wavelength (nm)	Background	PQL mg/L	MDL mg/L	M
Arsenic			0.0040	0.0013	P
Cadmium			0.0020	0.000053	P
Lead			0.00100	0.00028	P
Manganese			0.0020	0.00022	P
Nickel			0.0020	0.00048	P
Thallium			0.0020	0.00025	P
Zinc			0.0060	0.0012	P

PREPARATION LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF

Method: SW3005

Total/Diss.: Dissolved

Lab Sample ID	Client Sample ID	Preparation Date	Initial Weight (gram)	Initial Volume (ml)	Final Volume (ml)
11020727-22B	BA-01	2/25/11	0	100	100
11020727-32B	BA-03A	2/25/11	0	100	100
LCS-98257	LCS-98257	2/25/11	0	100	100
MBLK-98257	MBLK-98257	2/25/11	0	100	100
11020727-03B	MW-4	2/25/11	0	100	100
11020727-03BMS	MW-4MS	2/25/11	0	100	100
11020727-03BMSD	MW-4MSD	2/25/11	0	100	100

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Method: SW6020

Instrument ID: ICPMS Total/Dissolved: Dissolved

Start Date: 3/3/2011 End Date: 3/3/2011

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																														
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Tl	Tl	V	Zn
ICV	ICV	1	02:19				X			X						X		X										X		
ICB	ICB	1	02:22				X			X						X		X										X		
ICSA	ICSA	1	02:25		X		X			X	X				X	X	X	X										X		
ICSAB	ICSAB	1	02:27		X		X			X	X				X	X	X	X										X		
CCV	CCV	1	05:08				X			X						X		X										X		
CCB	CCB	1	05:11				X			X						X		X										X		
ICSA	ICSA	1	05:14		X		X			X	X				X	X	X	X										X		
ICSAB	ICSAB	1	05:16		X		X			X	X				X	X	X	X										X		
MBLK-98257	MBLK-98257	1	05:19							X						X		X										X		
LCS-98257	LCS-98257	1	05:22							X						X		X										X		
11020727-03B	MW-4	1	05:25							X						X		X										X		
11020727-03BSD	MW-4SD	5	05:27							X						X		X										X		
11020727-03BMS	MW-4MS	1	05:30							X						X		X										X		
11020727-03BMSD	MW-4MSD	1	05:33							X						X		X										X		
11020727-03BPDS	MW-4PDS	5	05:35							X						X		X										X		
11020727-03BPDSD	MW-4PDSD	5	05:38							X						X		X										X		
CCV	CCV	1	05:41				X			X						X		X										X		
CCB	CCB	1	05:43				X			X						X		X										X		
11020727-22B	BA-01	1	05:46							X						X		X										X		
11020727-32B	BA-03A	1	05:49							X						X		X										X		
CCV	CCV	1	05:51				X			X						X		X										X		
CCB	CCB	1	05:54				X			X						X		X										X		
ICSA	ICSA	1	05:57		X		X			X	X				X	X	X	X										X		
ICSAB	ICSAB	1	05:59		X		X			X	X				X	X	X	X										X		

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Method: SW6020

Instrument ID: ICPMS Total/Dissolved: Dissolved

Start Date: 3/3/2011 End Date: 3/3/2011

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																												
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
ICV	ICV	1	12:59				X														X										X
ICB	ICB	1	13:07				X														X										X
ICSA	ICSA	1	13:26		X		X				X				X		X				X										X
ICSAB	ICSAB	1	13:29		X		X				X				X		X				X										X
MBLK-98257	MBLK-98257	1	13:37				X														X										X
LCS-98257	LCS-98257	1	13:40				X														X										X
11020727-03B	MW-4	1	13:44				X														X										X
11020727-03BSD	MW-4SD	5	13:46				X														X										X
11020727-03BMS	MW-4MS	1	13:49				X														X										X
11020727-03BMSD	MW-4MSD	1	13:52				X														X										X
11020727-03BPDS	MW-4PDS	5	13:54				X														X										X
11020727-03BPDSD	MW-4PDSD	5	13:57				X														X										X
CCV	CCV	1	14:00				X														X										X
CCB	CCB	1	14:03				X														X										X
11020727-22B	BA-01	1	14:06																		X										X
11020727-32B	BA-03A	1	14:12				X														X										X
CCV	CCV	1	14:17				X														X										X
CCB	CCB	1	14:20				X														X										X
ICSA	ICSA	1	14:23		X		X				X				X		X				X										X
ICSAB	ICSAB	1	14:26		X		X				X				X		X				X										X

METALS CLP-LIKE FORMS

COVER PAGE - INORGANICS DATA PACKAGE

Lab Name: SPL Inc.

Lab Code: SPLLAF

SDG: 11020727

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Matrix
BA-01	11020727-22	2/15/11 11:21	2/18/11 17:10	Water
BA-01A	11020727-20	2/15/11 10:19	2/18/11 17:10	Water
BA-03	11020727-33	2/16/11 12:20	2/18/11 17:10	Water
BA-03A	11020727-32	2/16/11 12:00	2/18/11 17:10	Water
BA-05	11020727-28	2/16/11 9:37	2/18/11 17:10	Water
BA-05A	11020727-27	2/16/11 9:03	2/18/11 17:10	Water
BA-09	11020727-02	2/14/11 10:01	2/18/11 17:10	Water
BA-09A	11020727-01	2/14/11 9:19	2/18/11 17:10	Water
BB-01	11020727-15	2/15/11 8:51	2/18/11 17:10	Water
BC-03	11020727-07	2/14/11 12:14	2/18/11 17:10	Water
BC-07	11020727-08	2/14/11 12:48	2/18/11 17:10	Water
BC-17	11020727-17	2/15/11 9:21	2/18/11 17:10	Water
BC-19	11020727-11	2/14/11 13:28	2/18/11 17:10	Water
BC-21R	11020727-19	2/15/11 9:58	2/18/11 17:10	Water
BC-25	11020727-12	2/14/11 13:51	2/18/11 17:10	Water
DUPLICATE #1	11020727-10	2/14/11 13:09	2/18/11 17:10	Water
DUPLICATE #2	11020727-21	2/15/11 10:19	2/18/11 17:10	Water
DUPLICATE #3	11020727-26	2/15/11 13:53	2/18/11 17:10	Water
DUPLICATE #4	11020727-35	2/16/11 12:48	2/18/11 17:10	Water
DW-04	11020727-09	2/14/11 13:09	2/18/11 17:10	Water
DW-1	11020727-30	2/16/11 10:42	2/18/11 17:10	Water
DW-2	11020727-25	2/15/11 13:53	2/18/11 17:10	Water
DW-3	11020727-23	2/15/11 13:04	2/18/11 17:10	Water
MW-1	11020727-31	2/16/11 11:19	2/18/11 17:10	Water
MW-2	11020727-34	2/16/11 12:48	2/18/11 17:10	Water
MW-3	11020727-13	2/14/11 14:13	2/18/11 17:10	Water
MW-4	11020727-03	2/14/11 10:44	2/18/11 17:10	Water
MW-6	11020727-14	2/14/11 14:53	2/18/11 17:10	Water
MW-A	11020727-29	2/16/11 10:01	2/18/11 17:10	Water
NORTH WELL	11020727-18	2/15/11 9:33	2/18/11 17:10	Water
PW-4	11020727-24	2/15/11 13:25	2/18/11 17:10	Water
(b) (6) WELL	11020727-06	2/14/11 11:40	2/18/11 17:10	Water
SOUTH WELL	11020727-16	2/15/11 9:04	2/18/11 17:10	Water

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

Signature: Keran Lafleur

Date: 3/10/11

Name: Keran Lafleur

Title: Metals Supervisor

COVER PAGE - INORGANICS DATA PACKAGE

Lab Name: SPL Inc.

Lab Code: SPLLAF

SDG: 11020727

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Matrix
WW-04	11020727-05	2/14/11 11:35	2/18/11 17:10	Water
WW-09	11020727-04	2/14/11 11:05	2/18/11 17:10	Water

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

Signature: Keran Lafleur

Name: Keran Lafleur

Date: 3/10/11

Title: Metals Supervisor

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-09A

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-01A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00279	J	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.000878	J	0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.0267		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.000516	J	0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000424	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00341	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-09

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-02A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-43-9	Cadmium	1	0.000453	J	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.00123		0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	2.61		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.141		0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000442	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.440		0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
MW-4

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-03A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.00154		0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.0134		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00110	J	0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000417	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00537	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

WW-09

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-04A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.00123		0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.0161		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.000477	U	0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000414	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00376	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

WW-04

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-05A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.000794	J	0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.00355		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.000477	U	0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000413	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00205	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

[redacted] WELL

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-06A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00186	J	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.00341		0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.0230		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.000568	J	0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000413	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00368	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BC-03

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-07A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.0000556	J	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.000948	J	0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.00403		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00186	J	0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000424	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00298	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BC-07

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-08A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00277	J	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.00137		0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.0290		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00317		0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000413	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00661	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
DW-04

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-09A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00187	J	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.000841	J	0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.00260		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00100	J	0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000412	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00239	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

DUPLICATE #1

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-10A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00165	J	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.000816	J	0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.00354		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.000902	J	0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000414	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00189	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BC-19

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-11A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.000850	J	0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.00272		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00179	J	0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000474	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00365	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BC-25

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-12A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.000836	J	0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.0264		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.000680	J	0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000414	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00408	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

MW-3

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-13A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.00240		0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.509		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00219		0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000418	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00235	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
MW-6

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	11020727-14A
Matrix:	Water	Date Received:	2/18/2011 5:10:00PM
Level:	LOW	Total/Dissolved:	Total
% Moisture:	0	Prep Method:	

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-43-9	Cadmium	1	0.0675		0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.00175		0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	3.14		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.0354		0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000523	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.128		0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BB-01

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-15A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00555		0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000109	J	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.00571		0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.00455		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00334		0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000416	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00690	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

SOUTH WELL

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-16A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.000851	J	0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.00484		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00204		0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000410	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00300	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BC-17

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-17A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00374	J	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000764	J	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.0243		0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.114		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00362		0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000439	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00406	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

NORTH WELL

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-18A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.00135		0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.00405		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00148	J	0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000412	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00277	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BC-21R

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-19A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.000912	J	0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.00758		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00250		0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000416	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00462	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-01A

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-20A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00706		0.00133	0.004		P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002		P	mg/L
7439-92-1	Lead	1	0.00121		0.00028	0.001		P	mg/L
7439-96-5	Manganese	1	0.00700		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00139	J	0.000477	0.002		P	mg/L
7440-28-0	Thallium	1	0.000410	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00288	J	0.00122	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

DUPLICATE #2

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-21A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00644		0.00133	0.004	N	P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	1	0.00102		0.00028	0.001	*	P	mg/L
7439-96-5	Manganese	1	0.00638		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00101	J	0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000414	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00250	J	0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BA-01

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-22A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-43-9	Cadmium	1	0.0000733	J	0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	1	0.00102		0.00028	0.001	*	P	mg/L
7439-96-5	Manganese	1	1.37		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.0499		0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000421	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.0553		0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
DW-3

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-23A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-43-9	Cadmium	1	0.230		0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	1	0.407		0.00028	0.001	*	P	mg/L
7439-96-5	Manganese	1	1.09		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.0482		0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000700	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.0889		0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

PW-4

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-24A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00245	J	0.00133	0.004	N	P	mg/L
7440-43-9	Cadmium	1	0.000849	J	0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	1	0.00200		0.00028	0.001	*	P	mg/L
7439-96-5	Manganese	1	1.57		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.0408		0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000438	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.0921		0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
DW-2

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-25A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	25	0.0425	J	0.0331	0.1	N	P	mg/L
7440-43-9	Cadmium	1	0.0187		0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	5	0.00865		0.0014	0.005	*	P	mg/L
7439-96-5	Manganese	1	12.9		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.575		0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	5	0.00125	U	0.00125	0.01		P	mg/L
7440-66-6	Zinc	1	1.41		0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

DUPLICATE #3

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-26A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	25	0.0386	J	0.0331	0.1	N	P	mg/L
7440-43-9	Cadmium	1	0.0193		0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	5	0.00794		0.0014	0.005	*	P	mg/L
7439-96-5	Manganese	1	13.5		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.602		0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	5	0.00125	U	0.00125	0.01		P	mg/L
7440-66-6	Zinc	1	1.46		0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BA-05A

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-27A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00203	J	0.00133	0.004	N	P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	1	0.000601	J	0.00028	0.001	*	P	mg/L
7439-96-5	Manganese	1	0.00329		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00107	J	0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.00025	U	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00395	J	0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-05

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-28A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	1	0.000582	J	0.00028	0.001	*	P	mg/L
7439-96-5	Manganese	1	18.5		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.0806		0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.00025	U	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.0133		0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
MW-A

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-29A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00134	J	0.00133	0.004	N	P	mg/L
7440-43-9	Cadmium	1	0.000053	U	0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	1	0.000617	J	0.00028	0.001	*	P	mg/L
7439-96-5	Manganese	1	0.00471		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.00102	J	0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.00025	U	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.00390	J	0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
DW-1

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-30A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.0819		0.00133	0.004	N	P	mg/L
7440-43-9	Cadmium	1	0.0154		0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	1	0.00383		0.00028	0.001	*	P	mg/L
7439-96-5	Manganese	1	1.58		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.0206		0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000385	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.0579		0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

MW-1

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-31A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	25	0.0395	J	0.0331	0.1	N	P	mg/L
7440-43-9	Cadmium	1	0.00475		0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	5	0.00578		0.0014	0.005	*	P	mg/L
7439-96-5	Manganese	1	5.69		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.226		0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	5	0.00125	U	0.00125	0.01		P	mg/L
7440-66-6	Zinc	1	0.258		0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-03A

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-32A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004	N	P	mg/L
7440-43-9	Cadmium	1	0.0443		0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	1	0.0241		0.00028	0.001	*	P	mg/L
7439-96-5	Manganese	1	0.507		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.0178		0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.00025	U	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.0798		0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-03

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-33A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004	N	P	mg/L
7440-43-9	Cadmium	1	0.0517		0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	1	0.0321		0.00028	0.001	*	P	mg/L
7439-96-5	Manganese	1	0.674		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.0240		0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000599	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.115		0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
MW-2

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-34A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004	N	P	mg/L
7440-43-9	Cadmium	1	0.112		0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	1	0.00382		0.00028	0.001	*	P	mg/L
7439-96-5	Manganese	1	1.11		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.0612		0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000341	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.270		0.00122	0.01	N*	P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

DUPLICATE #4

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 11020727

Lab Sample ID: 11020727-35A

Date Received: 2/18/2011 5:10:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00133	U	0.00133	0.004	N	P	mg/L
7440-43-9	Cadmium	1	0.108		0.000053	0.002	N*	P	mg/L
7439-92-1	Lead	1	0.00304		0.00028	0.001	*	P	mg/L
7439-96-5	Manganese	1	1.05		0.000217	0.002		P	mg/L
7440-02-0	Nickel	1	0.0693		0.000477	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000331	J	0.00025	0.002		P	mg/L
7440-66-6	Zinc	1	0.257		0.00122	0.01	N*	P	mg/L

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/24/11 10:58	Sample Type:	CCV
RunID:	ICPMS_110224A-3947723	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	94.25	94.2	P	90	110
Cadmium	100	96.85	96.8	P	90	110
Lead	100	96.17	96.2	P	90	110
Manganese	100	96.41	96.4	P	90	110
Nickel	100	94.52	94.5	P	90	110
Thallium	100	97.27	97.3	P	90	110
Zinc	100	98.08	98.1	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/24/11 11:40	Sample Type:	CCV
RunID:	ICPMS_110224A-3947735	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	94.66	94.7	P	90	110
Cadmium	100	96.57	96.6	P	90	110
Lead	100	92.75	92.8	P	90	110
Manganese	100	94.86	94.9	P	90	110
Nickel	100	94.27	94.3	P	90	110
Thallium	100	95.17	95.2	P	90	110
Zinc	100	95.11	95.1	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/24/11 13:27	Sample Type:	CCV
RunID:	ICPMS_110224A-3947746	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	92.20	92.2	P	90	110
Cadmium	100	94.02	94.0	P	90	110
Lead	100	96.06	96.1	P	90	110
Manganese	100	96.80	96.8	P	90	110
Nickel	100	95.50	95.5	P	90	110
Thallium	100	96.62	96.6	P	90	110
Zinc	100	95.33	95.3	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/24/11 13:41	Sample Type:	CCV
RunID:	ICPMS_110224A-3947750	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	95.21	95.2	P	90	110
Cadmium	100	95.76	95.8	P	90	110
Lead	100	98.76	98.8	P	90	110
Manganese	100	97.73	97.7	P	90	110
Nickel	100	94.46	94.5	P	90	110
Thallium	100	98.65	98.6	P	90	110
Zinc	100	96.29	96.3	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/24/11 13:41	Sample Type:	CCV
RunID:	ICPMS_110224B-3948581	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	95.21	95.2	P	90	110
Cadmium	100	95.76	95.8	P	90	110
Lead	100	98.76	98.8	P	90	110
Manganese	100	97.73	97.7	P	90	110
Nickel	100	94.46	94.5	P	90	110
Thallium	100	98.65	98.6	P	90	110
Zinc	100	96.29	96.3	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/24/11 14:36	Sample Type:	CCV
RunID:	ICPMS_110224B-3948593	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	92.40	92.4	P	90	110
Cadmium	100	94.19	94.2	P	90	110
Lead	100	97.99	98.0	P	90	110
Manganese	100	97.68	97.7	P	90	110
Nickel	100	96.63	96.6	P	90	110
Thallium	100	98.07	98.1	P	90	110
Zinc	100	98.16	98.2	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/24/11 15:57	Sample Type:	CCV
RunID:	ICPMS_110224B-3948607	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	91.97	92.0	P	90	110
Cadmium	100	95.85	95.8	P	90	110
Lead	100	97.09	97.1	P	90	110
Manganese	100	97.24	97.2	P	90	110
Nickel	100	95.45	95.4	P	90	110
Thallium	100	97.54	97.5	P	90	110
Zinc	100	94.55	94.5	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/24/11 17:13	Sample Type:	CCV
RunID:	ICPMS_110224B-3948623	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	91.46	91.5	P	90	110
Cadmium	100	94.70	94.7	P	90	110
Lead	100	86.50	86.5	P	90	110
Manganese	100	97.12	97.1	P	90	110
Nickel	100	95.78	95.8	P	90	110
Thallium	100	87.31	87.3	P	90	110
Zinc	100	92.77	92.8	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/26/11 16:21	Sample Type:	CCV
RunID:	ICPMS_110226E-3951853	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	99.08	99.1	P	90	110
Lead	100	98.65	98.6	P	90	110
Thallium	100	97.53	97.5	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/26/11 16:53	Sample Type:	CCV
RunID:	ICPMS_110226E-3951862	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	99.94	99.9	P	90	110
Lead	100	105.3	105.3	P	90	110
Thallium	100	106.1	106.1	P	90	110

INITIAL CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	ICV
Analysis	2/24/11 9:34	Sample Type:	ICV
RunID:	ICPMS_110224A-3947711	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	95.48	95.5	P	90	110
Cadmium	100	96.90	96.9	P	90	110
Lead	100	96.23	96.2	P	90	110
Manganese	100	94.17	94.2	P	90	110
Nickel	100	94.69	94.7	P	90	110
Thallium	100	96.05	96.0	P	90	110
Zinc	100	94.71	94.7	P	90	110

INITIAL CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	ICV
Analysis	2/24/11 9:34	Sample Type:	ICV
RunID:	ICPMS_110224B-3948577	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	95.48	95.5	P	90	110
Cadmium	100	96.90	96.9	P	90	110
Lead	100	96.23	96.2	P	90	110
Manganese	100	94.17	94.2	P	90	110
Nickel	100	94.69	94.7	P	90	110
Thallium	100	96.05	96.0	P	90	110
Zinc	100	94.71	94.7	P	90	110

INITIAL CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	ICV
Analysis	2/26/11 15:30	Sample Type:	ICV
RunID:	ICPMS_110226E-3951841	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	98.92	98.9	P	90	110
Lead	100	101.6	101.6	P	90	110
Thallium	100	102.8	102.8	P	90	110

INITIAL CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: ICB

Matrix: Water

Analysis Date: 2/24/11 9:38

Run ID: ICPMS_110224A-3947712

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7440-43-9	Cadmium	0.053	U	0.053	2.0	P	ug/L
7439-92-1	Lead	0.74	J	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.61	J	0.22	2.0	P	ug/L
7440-02-0	Nickel	0.48	U	0.48	2.0	P	ug/L
7440-28-0	Thallium	0.46	J	0.25	2.0	P	ug/L
7440-66-6	Zinc	1.2	U	1.2	6.0	P	ug/L

INITIAL CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 11020727

Lab Code: SPLLAF

Lab Sample ID: ICB

Matrix: Water

Analysis Date: 2/24/11 9:38

Run ID: ICPMS_110224B-3948578

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7440-43-9	Cadmium	0.053	U	0.053	2.0	P	ug/L
7439-92-1	Lead	0.74	J	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.61	J	0.22	2.0	P	ug/L
7440-02-0	Nickel	0.48	U	0.48	2.0	P	ug/L
7440-28-0	Thallium	0.46	J	0.25	2.0	P	ug/L
7440-66-6	Zinc	1.2	U	1.2	6.0	P	ug/L

INITIAL CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	ICB
Matrix:	Water		
Analysis Date:	2/26/11 15:33		
Run ID:	ICPMS_110226E-3951842		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7439-92-1	Lead	0.28	U	0.28	1.0	P	ug/L
7440-28-0	Thallium	0.25	U	0.25	2.0	P	ug/L

METHOD BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	MBLK-98096
Matrix:	Water	Total/Dissolved:	Total
Analysis Date:	2/24/11 9:58		
Run ID:	ICPMS_110224A-3947715		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	0.00133	U	0.00133	0.004	P	mg/L
7440-43-9	Cadmium	0.0000528	U	0.0000528	0.002	P	mg/L
7439-92-1	Lead	0.000764	J	0.000280	0.001	P	mg/L
7439-96-5	Manganese	0.000649	J	0.000217	0.002	P	mg/L
7440-02-0	Nickel	0.000477	U	0.000477	0.002	P	mg/L
7440-28-0	Thallium	0.000411	J	0.000250	0.002	P	mg/L
7440-66-6	Zinc	0.00250	J	0.00122	0.006	P	mg/L

METHOD BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	MBLK-98097
Matrix:	Water	Total/Dissolved:	Total
Analysis Date:	2/24/11 13:55		
Run ID:	ICPMS_110224B-3948585		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	0.00133	U	0.00133	0.004	P	mg/L
7440-43-9	Cadmium	0.0000528	U	0.0000528	0.002	P	mg/L
7439-92-1	Lead	0.000754	J	0.000280	0.001	P	mg/L
7439-96-5	Manganese	0.000754	J	0.000217	0.002	P	mg/L
7440-02-0	Nickel	0.000477	U	0.000477	0.002	P	mg/L
7440-28-0	Thallium	0.000412	J	0.000250	0.002	P	mg/L
7440-66-6	Zinc	0.00166	J	0.00122	0.006	P	mg/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/24/11 11:01

Run ID: ICPMS_110224A-3947724

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7440-43-9	Cadmium	0.053	U	0.053	2.0	P	ug/L
7439-92-1	Lead	0.74	J	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.54	J	0.22	2.0	P	ug/L
7440-02-0	Nickel	0.48	U	0.48	2.0	P	ug/L
7440-28-0	Thallium	0.45	J	0.25	2.0	P	ug/L
7440-66-6	Zinc	1.2	U	1.2	6.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/24/11 11:43

Run ID: ICPMS_110224A-3947736

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7440-43-9	Cadmium	0.053	U	0.053	2.0	P	ug/L
7439-92-1	Lead	0.74	J	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.88	J	0.22	2.0	P	ug/L
7440-02-0	Nickel	0.48	U	0.48	2.0	P	ug/L
7440-28-0	Thallium	0.46	J	0.25	2.0	P	ug/L
7440-66-6	Zinc	1.2	U	1.2	6.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/24/11 13:30

Run ID: ICPMS_110224A-3947747

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7440-43-9	Cadmium	0.053	U	0.053	2.0	P	ug/L
7439-92-1	Lead	0.74	J	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.87	J	0.22	2.0	P	ug/L
7440-02-0	Nickel	0.48	U	0.48	2.0	P	ug/L
7440-28-0	Thallium	0.47	J	0.25	2.0	P	ug/L
7440-66-6	Zinc	1.2	U	1.2	6.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/24/11 13:44

Run ID: ICPMS_110224A-3947751

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7440-43-9	Cadmium	0.053	U	0.053	2.0	P	ug/L
7439-92-1	Lead	0.74	J	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.65	J	0.22	2.0	P	ug/L
7440-02-0	Nickel	0.48	U	0.48	2.0	P	ug/L
7440-28-0	Thallium	0.46	J	0.25	2.0	P	ug/L
7440-66-6	Zinc	1.2	U	1.2	6.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/24/11 13:44

Run ID: ICPMS_110224B-3948582

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7440-43-9	Cadmium	0.053	U	0.053	2.0	P	ug/L
7439-92-1	Lead	0.74	J	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.65	J	0.22	2.0	P	ug/L
7440-02-0	Nickel	0.48	U	0.48	2.0	P	ug/L
7440-28-0	Thallium	0.46	J	0.25	2.0	P	ug/L
7440-66-6	Zinc	1.2	U	1.2	6.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/24/11 14:45

Run ID: ICPMS_110224B-3948594

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7440-43-9	Cadmium	0.053	U	0.053	2.0	P	ug/L
7439-92-1	Lead	0.73	J	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.83	J	0.22	2.0	P	ug/L
7440-02-0	Nickel	0.48	U	0.48	2.0	P	ug/L
7440-28-0	Thallium	0.41	J	0.25	2.0	P	ug/L
7440-66-6	Zinc	1.2	U	1.2	6.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/24/11 16:04

Run ID: ICPMS_110224B-3948608

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7440-43-9	Cadmium	0.053	U	0.053	2.0	P	ug/L
7439-92-1	Lead	0.73	J	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.82	J	0.22	2.0	P	ug/L
7440-02-0	Nickel	0.48	U	0.48	2.0	P	ug/L
7440-28-0	Thallium	0.41	J	0.25	2.0	P	ug/L
7440-66-6	Zinc	1.2	U	1.2	6.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/24/11 19:37

Run ID: ICPMS_110224B-3948624

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7440-43-9	Cadmium	0.053	U	0.053	2.0	P	ug/L
7439-92-1	Lead	0.74	J	0.28	1.0	P	ug/L
7439-96-5	Manganese	0.60	J	0.22	2.0	P	ug/L
7440-02-0	Nickel	0.48	U	0.48	2.0	P	ug/L
7440-28-0	Thallium	0.46	J	0.25	2.0	P	ug/L
7440-66-6	Zinc	1.2	U	1.2	6.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/26/11 16:26

Run ID: ICPMS_110226E-3951854

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7439-92-1	Lead	0.28	U	0.28	1.0	P	ug/L
7440-28-0	Thallium	0.25	U	0.25	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/26/11 16:57

Run ID: ICPMS_110226E-3951863

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.3	U	1.3	4.0	P	ug/L
7439-92-1	Lead	0.28	U	0.28	1.0	P	ug/L
7440-28-0	Thallium	0.25	U	0.25	2.0	P	ug/L

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/24/2011 09:44			02/24/2011 09:46				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	93702	93.7		91491.2	91.49		70-130	70-130
Antimony	0	0	0.66363	0		0.56597	0		-	-
Arsenic	0	40	0	0		41	102.4		-	70-130
Barium	0	0	5.2	0		4.89777	0		-	-
Beryllium	0	0	1.13283	0		1.13956	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	2.5	0		40.9	102.3		-	70-130
Calcium	100000	100000	90270.8	90.27		89463.9	89.46		70-130	70-130
Chromium	0	80	2.03462	0		77.2	96.53		-	70-130
Cobalt	0	80	1.68316	0		79.8	99.79		-	70-130
Copper	0	80	1.65758	0		76.1	95.14		-	70-130
Iron	100000	100000	102927	102.9		103337	103.3		70-130	70-130
Lead	0	0	8.8	0		8.7	0		-	-
Lithium	0	0	1.80293	0		1.82746	0		-	-
Magnesium	100000	100000	90870	90.87		90304.9	90.3		70-130	70-130
Manganese	0	80	8.6	0		85.2	106.5		-	70-130
Molybdenum	2000	2000	1870.8	93.54		1942	97.1		70-130	70-130
Nickel	0	80	2.9	0		76.9	96.13		-	70-130
Potassium	100000	100000	93374	93.37		93066	93.07		70-130	70-130
Selenium	0	40	0	0		35	87.49		-	70-130
Silver	0	20	0	0		17.8	89.06		-	70-130
Sodium	100000	100000	90480.5	90.48		88845.9	88.85		70-130	70-130
Strontium	0	0	6.4	0		6.8	0		-	-
Thallium	0	0	0.66667	0		0.64422	0		-	-
Tin	0	0	0.92527	0		0.65976	0		-	-
Titanium	2000	0	1900.1	95		1896.5	0		70-130	-
Vanadium	0	80	0	0		78.1	97.67		-	70-130
Zinc	0	40	2.74836	0		35.4	88.5		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/24/2011 13:47			02/24/2011 13:50				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	92663.9	92.66		92758.3	92.76		70-130	70-130
Antimony	0	0	0.56533	0		0	0		-	-
Arsenic	0	40	0	0		40.3	100.9		-	70-130
Barium	0	0	5.1	0		5.2	0		-	-
Beryllium	0	0	1.13756	0		1.12414	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	2.4	0		39.9	99.69		-	70-130
Calcium	100000	100000	89289.9	89.29		90722.3	90.72		70-130	70-130
Chromium	0	80	2.09516	0		80.2	100.3		-	70-130
Cobalt	0	80	1.66986	0		83.9	104.9		-	70-130
Copper	0	80	2.6	0		78.5	98.18		-	70-130
Iron	100000	100000	101686	101.7		105069	105.1		70-130	70-130
Lead	0	0	8.7	0		8.6	0		-	-
Lithium	0	0	1.96358	0		2	0		-	-
Magnesium	100000	100000	90317.3	90.32		89117.1	89.12		70-130	70-130
Manganese	0	80	8.8	0		88.5	110.6		-	70-130
Molybdenum	2000	2000	1884.2	94.21		1925.1	96.26		70-130	70-130
Nickel	0	80	2.7	0		79.4	99.24		-	70-130
Potassium	100000	100000	94237.1	94.24		96090.6	96.09		70-130	70-130
Selenium	0	40	0	0		34.2	85.49		-	70-130
Silver	0	20	0	0		17.6	88.06		-	70-130
Sodium	100000	100000	90779.9	90.78		88663.1	88.66		70-130	70-130
Strontium	0	0	6.5	0		6.6	0		-	-
Thallium	0	0	0.6551	0		0.65831	0		-	-
Tin	0	0	0.94646	0		0.63363	0		-	-
Titanium	2000	0	1878	93.9		1926.2	0		70-130	-
Vanadium	0	80	0	0		79.9	99.88		-	70-130
Zinc	0	40	2.59471	0		37.8	94.62		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/24/2011 09:44 Sol. A			02/24/2011 09:46 Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	93702	93.7		91491.2	91.49		70-130	70-130
Antimony	0	0	0.66363	0		0.56597	0		-	-
Arsenic	0	40	0	0		41	102.4		-	70-130
Barium	0	0	5.2	0		4.89777	0		-	-
Beryllium	0	0	1.13283	0		1.13956	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	2.5	0		40.9	102.3		-	70-130
Calcium	100000	100000	90270.8	90.27		89463.9	89.46		70-130	70-130
Chromium	0	80	2.03462	0		77.2	96.53		-	70-130
Cobalt	0	80	1.68316	0		79.8	99.79		-	70-130
Copper	0	80	1.65758	0		76.1	95.14		-	70-130
Iron	100000	100000	102927	102.9		103337	103.3		70-130	70-130
Lead	0	0	8.8	0		8.7	0		-	-
Lithium	0	0	1.80293	0		1.82746	0		-	-
Magnesium	100000	100000	90870	90.87		90304.9	90.3		70-130	70-130
Manganese	0	80	8.6	0		85.2	106.5		-	70-130
Molybdenum	2000	2000	1870.8	93.54		1942	97.1		70-130	70-130
Nickel	0	80	2.9	0		76.9	96.13		-	70-130
Potassium	100000	100000	93374	93.37		93066	93.07		70-130	70-130
Selenium	0	40	0	0		35	87.49		-	70-130
Silver	0	20	0	0		17.8	89.06		-	70-130
Sodium	100000	100000	90480.5	90.48		88845.9	88.85		70-130	70-130
Strontium	0	0	6.4	0		6.8	0		-	-
Thallium	0	0	0.66667	0		0.64422	0		-	-
Tin	0	0	0.92527	0		0.65976	0		-	-
Titanium	2000	0	1900.1	95		1896.5	0		70-130	-
Vanadium	0	80	0	0		78.1	97.67		-	70-130
Zinc	0	40	2.74836	0		35.4	88.5		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/24/2011 13:47			02/24/2011 13:50				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	92663.9	92.66		92758.3	92.76		70-130	70-130
Antimony	0	0	0.56533	0		0	0		-	-
Arsenic	0	40	0	0		40.3	100.9		-	70-130
Barium	0	0	5.1	0		5.2	0		-	-
Beryllium	0	0	1.13756	0		1.12414	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	2.4	0		39.9	99.69		-	70-130
Calcium	100000	100000	89289.9	89.29		90722.3	90.72		70-130	70-130
Chromium	0	80	2.09516	0		80.2	100.3		-	70-130
Cobalt	0	80	1.66986	0		83.9	104.9		-	70-130
Copper	0	80	2.6	0		78.5	98.18		-	70-130
Iron	100000	100000	101686	101.7		105069	105.1		70-130	70-130
Lead	0	0	8.7	0		8.6	0		-	-
Lithium	0	0	1.96358	0		2	0		-	-
Magnesium	100000	100000	90317.3	90.32		89117.1	89.12		70-130	70-130
Manganese	0	80	8.8	0		88.5	110.6		-	70-130
Molybdenum	2000	2000	1884.2	94.21		1925.1	96.26		70-130	70-130
Nickel	0	80	2.7	0		79.4	99.24		-	70-130
Potassium	100000	100000	94237.1	94.24		96090.6	96.09		70-130	70-130
Selenium	0	40	0	0		34.2	85.49		-	70-130
Silver	0	20	0	0		17.6	88.06		-	70-130
Sodium	100000	100000	90779.9	90.78		88663.1	88.66		70-130	70-130
Strontium	0	0	6.5	0		6.6	0		-	-
Thallium	0	0	0.6551	0		0.65831	0		-	-
Tin	0	0	0.94646	0		0.63363	0		-	-
Titanium	2000	0	1878	93.9		1926.2	0		70-130	-
Vanadium	0	80	0	0		79.9	99.88		-	70-130
Zinc	0	40	2.59471	0		37.8	94.62		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/24/2011 19:40			02/24/2011 19:43				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	96947	96.95		103012	103		70-130	70-130
Antimony	0	0	0.64258	0		0.58649	0		-	-
Arsenic	0	40	0	0		37.3	93.18		-	70-130
Barium	0	0	4.79813	0		4.80373	0		-	-
Beryllium	0	0	1.13716	0		1.11037	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	2.4	0		37.7	94.28		-	70-130
Calcium	100000	100000	90585.8	90.59		91833.3	91.83		70-130	70-130
Chromium	0	80	1.88616	0		79.2	98.97		-	70-130
Cobalt	0	80	1.6162	0		82.4	103		-	70-130
Copper	0	80	2.7	0		75.8	94.71		-	70-130
Iron	100000	100000	102705	102.7		106337	106.3		70-130	70-130
Lead	0	0	7.4	0		7.6	0		-	-
Lithium	0	0	2	0		1.9897	0		-	-
Magnesium	100000	100000	89975.2	89.98		95197.7	95.2		70-130	70-130
Manganese	0	80	8.6	0		88.1	110.1		-	70-130
Molybdenum	2000	2000	1867	93.35		1895.6	94.78		70-130	70-130
Nickel	0	80	2.5	0		78.2	97.71		-	70-130
Potassium	100000	100000	94715.5	94.72		98944.2	98.94		70-130	70-130
Selenium	0	40	0	0		30.5	76.37		-	70-130
Silver	0	20	0	0		16.8	83.98		-	70-130
Sodium	100000	100000	89191.8	89.19		93450.4	93.45		70-130	70-130
Strontium	0	0	6.3	0		6.4	0		-	-
Thallium	0	0	0.6293	0		0.62841	0		-	-
Tin	0	0	0.84169	0		0.71781	0		-	-
Titanium	2000	0	1879.3	93.97		1932	0		70-130	-
Vanadium	0	80	0	0		78.8	98.51		-	70-130
Zinc	0	40	2.39416	0		39	97.62		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/26/2011 15:38			02/26/2011 15:41				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	99979.8	99.98		100432	100.4		70-130	70-130
Antimony	0	0	1.27589	0		1.22533	0		-	-
Arsenic	0	40	0	0		39.1	97.8		-	70-130
Barium	0	0	4.79888	0		4.83737	0		-	-
Beryllium	0	0	0.46214	0		0.4509	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	3.2	0		40.4	101.1		-	70-130
Calcium	100000	100000	94930.1	94.93		95312.2	95.31		70-130	70-130
Chromium	0	80	1.7968	0		77.7	97.18		-	70-130
Cobalt	0	80	1.29563	0		79.9	99.89		-	70-130
Copper	0	80	1.603	0		75.5	94.35		-	70-130
Iron	100000	100000	102755	102.8		101756	101.8		70-130	70-130
Lead	0	0	8.8	0		8.9	0		-	-
Lithium	0	0	0.87769	0		0.93967	0		-	-
Magnesium	100000	100000	95352.9	95.35		95949.6	95.95		70-130	70-130
Manganese	0	80	9.2	0		85.4	106.7		-	70-130
Molybdenum	2000	2000	1947.8	97.39		1873	93.65		70-130	70-130
Nickel	0	80	2.5	0		76.9	96.12		-	70-130
Potassium	100000	100000	101370	101.4		100830	100.8		70-130	70-130
Selenium	0	40	2.00295	0		38.2	95.62		-	70-130
Silver	0	20	0.79026	0		19	95.02		-	70-130
Sodium	100000	100000	93915.2	93.92		96653.3	96.65		70-130	70-130
Strontium	0	0	8.2	0		8	0		-	-
Thallium	0	0	0	0		0	0		-	-
Tin	0	0	0.763	0		0.80254	0		-	-
Titanium	2000	0	1944.7	97.24		1934.4	0		70-130	-
Vanadium	0	80	0	0		78.6	98.25		-	70-130
Zinc	0	40	2.77199	0		32.7	81.78		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/26/2011 17:05			02/26/2011 17:07				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	98760.1	98.76		101890	101.9		70-130	70-130
Antimony	0	0	1.19572	0		1.1878	0		-	-
Arsenic	0	40	0	0		37.1	92.83		-	70-130
Barium	0	0	4.84246	0		4.8017	0		-	-
Beryllium	0	0	0.45212	0		0.4329	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	3	0		39.6	99.04		-	70-130
Calcium	100000	100000	92042.5	92.04		94981.8	94.98		70-130	70-130
Chromium	0	80	1.78491	0		78	97.47		-	70-130
Cobalt	0	80	1.22207	0		81.1	101.4		-	70-130
Copper	0	80	1.4276	0		74.4	93		-	70-130
Iron	100000	100000	101043	101		102796	102.8		70-130	70-130
Lead	0	0	8.9	0		9.3	0		-	-
Lithium	0	0	1.21756	0		1.01292	0		-	-
Magnesium	100000	100000	98099.1	98.1		96967	96.97		70-130	70-130
Manganese	0	80	9.3	0		86.8	108.5		-	70-130
Molybdenum	2000	2000	1883.4	94.17		1871.4	93.57		70-130	70-130
Nickel	0	80	2.4	0		76.8	95.94		-	70-130
Potassium	100000	100000	100808	100.8		102420	102.4		70-130	70-130
Selenium	0	40	2.18962	0		36.8	92.06		-	70-130
Silver	0	20	0.78535	0		18.9	94.33		-	70-130
Sodium	100000	100000	97780.1	97.78		99760.9	99.76		70-130	70-130
Strontium	0	0	7.9	0		7.9	0		-	-
Thallium	0	0	0	0		0	0		-	-
Tin	0	0	0.74292	0		0.74883	0		-	-
Titanium	2000	0	1909.1	95.45		1939.9	0		70-130	-
Vanadium	0	80	0	0		77.8	97.26		-	70-130
Zinc	0	40	2.49602	0		32.9	82.23		-	70-130

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Ext. method:

Total/Diss.: Total Level:(low/med): LOW

Matrix Spike - Client SampleID: BC-19MS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	MS CONCENTRATION mg/L	C	MS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.00133	U	0.08680		86.80		75	125	P
Cadmium	0.1	0.000053	U	0.08894		88.94		75	125	P
Lead	0.1	0.000850	J	0.09113		90.3		75	125	P
Manganese	0.1	0.00272		0.09341		90.7		75	125	P
Nickel	0.1	0.00179	J	0.09175		90.0		75	125	P
Thallium	0.1	0.000474	J	0.09276		92.3		75	125	P
Zinc	0.1	0.00365	J	0.08593		82.3		75	125	P

Matrix Spike - Client SampleID: BC-19MSD

Analyte	SPIKE ADDED mg/L	MSD CONCENTRATION mg/L	C	MSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.08618		86.18		0.717		20	75	125	P
Cadmium	0.1	0.09131		91.31		2.63		20	75	125	P
Lead	0.1	0.09456		93.7		3.69		20	75	125	P
Manganese	0.1	0.1022		99.5		8.99		20	75	125	P
Nickel	0.1	0.09643		94.6		4.97		20	75	125	P
Thallium	0.1	0.09545		95.0		2.86		20	75	125	P
Zinc	0.1	0.09368		90.0		8.63		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Ext. method:

Total/Diss.: Total Level:(low/med): LOW

Matrix Spike - Client SampleID: BA-03MS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	MS CONCENTRATION mg/L	C	MS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.00133	U	0.07375		73.75	N	75	125	P
Cadmium	0.1	0.0517		0.1514		99.7		75	125	P
Lead	0.1	0.0321		0.1410		109		75	125	P
Manganese	0.1	0.674		0.9102		236		75	125	P
Nickel	0.1	0.0240		0.1206		96.6		75	125	P
Thallium	0.1	0.000599	J	0.1035		103		75	125	P
Zinc	0.1	0.115		0.2249		110		75	125	P

Matrix Spike - Client SampleID: BA-03MSD

Analyte	SPIKE ADDED mg/L	MSD CONCENTRATION mg/L	C	MSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.08971		89.71		19.5		20	75	125	P
Cadmium	0.1	0.09545		43.7	N	45.3	*	20	75	125	P
Lead	0.1	0.1102		78.1		24.5	*	20	75	125	P
Manganese	0.1	0.1610		-513		140		20	75	125	P
Nickel	0.1	0.09893		74.9	N	19.7		20	75	125	P
Thallium	0.1	0.1039		103		0.386		20	75	125	P
Zinc	0.1	0.09857		-16.7	N	78.1	*	20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

POST DIGESTION SPIKE/POST DIGESTION SPIKE DUPLICATE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Ext. method:

Total/Diss.: Total Level:(low/med): LOW

Matrix Spike - Client SampleID: BC-19PDS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	PDS CONCENTRATION mg/L	PDS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.5	0.00133	U	0.4712	94.25		75	125	P
Cadmium	0.5	0.000053	U	0.4686	93.72		75	125	P
Lead	0.5	0.000850	J	0.4754	94.9		75	125	P
Manganese	0.5	0.00272		0.4927	98.0		75	125	P
Nickel	0.5	0.00179	J	0.4758	94.8		75	125	P
Thallium	0.5	0.000474	J	0.4862	97.1		75	125	P
Zinc	0.5	0.00365	J	0.4802	95.3		75	125	P

Analyte	SPIKE ADDED mg/L	PDSD CONCENTRATION mg/L	PDSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.5	0.4785	95.70		1.54		20	75	125	P
Cadmium	0.5	0.4869	97.38		3.83		20	75	125	P
Lead	0.5	0.4755	94.9		0.0210		20	75	125	P
Manganese	0.5	0.4887	97.2		0.815		20	75	125	P
Nickel	0.5	0.4772	95.1		0.294		20	75	125	P
Thallium	0.5	0.4853	97.0		0.185		20	75	125	P
Zinc	0.5	0.4790	95.1		0.250		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

POST DIGESTION SPIKE/POST DIGESTION SPIKE DUPLICATE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Ext. method:

Total/Diss.: Total Level:(low/med): LOW

Matrix Spike - Client SampleID: BA-03PDS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	PDS CONCENTRATION mg/L	PDS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.5	0.00133	U	0.4538	90.75		75	125	P
Cadmium	0.5	0.0517		0.5241	94.5		75	125	P
Lead	0.5	0.0321		0.5529	104		75	125	P
Manganese	0.5	0.674		1.180	101		75	125	P
Nickel	0.5	0.0240		0.5174	98.7		75	125	P
Thallium	0.5	0.000599	J	0.5243	105		75	125	P
Zinc	0.5	0.115		0.6145	99.8		75	125	P

Analyte	SPIKE ADDED mg/L	PDSD CONCENTRATION mg/L	PDSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.5	0.4661	93.22		2.67		20	75	125	P
Cadmium	0.5	0.5241	94.5		0		20	75	125	P
Lead	0.5	0.5340	100		3.48		20	75	125	P
Manganese	0.5	1.175	100		0.425		20	75	125	P
Nickel	0.5	0.5131	97.8		0.835		20	75	125	P
Thallium	0.5	0.5184	104		1.13		20	75	125	P
Zinc	0.5	0.6053	98.0		1.51		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

LABORATORY CONTROL SAMPLE

LCS-98096

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Total/Dissolved: Total

Solid LCS Source:

Aqueous LCS Source:

Analyte	M	Aqueous (mg/L) True	Found	%R	Limits	Solid (mg/kg) True	Found	C	%R	Limits
Arsenic	P	0.1	0.09666	96.66	80 - 120					
Cadmium	P	0.1	0.09881	98.81	80 - 120					
Lead	P	0.1	0.1055	105.5	80 - 120					
Manganese	P	0.1	0.1059	105.9	80 - 120					
Nickel	P	0.1	0.1038	103.8	80 - 120					
Thallium	P	0.1	0.1051	105.1	80 - 120					
Zinc	P	0.1	0.09926	99.26	80 - 120					

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

LABORATORY CONTROL SAMPLE

LCS-98097

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Total/Dissolved: Total

Solid LCS Source:

Aqueous LCS Source:

Analyte	M	Aqueous (mg/L) True	Found	%R	Limits	Solid (mg/kg) True	Found	C	%R	Limits
Arsenic	P	0.1	0.09563	95.63	80 - 120					
Cadmium	P	0.1	0.09639	96.39	80 - 120					
Lead	P	0.1	0.1113	111.3	80 - 120					
Manganese	P	0.1	0.1090	109.0	80 - 120					
Nickel	P	0.1	0.1072	107.2	80 - 120					
Thallium	P	0.1	0.1107	110.7	80 - 120					
Zinc	P	0.1	0.1015	101.5	80 - 120					

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

ICP SERIAL DILUTIONS

Client Sample ID
BA-03SD

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

Total/Diss.: Total

Lab Sample ID: 11020727-33A

SDG: 11020727

Concentration Units: mg/L

Analyte	Initial Sample Results (I)	C	Serial Dilution Results (S)	C	% Difference	Q	M
Arsenic	0.00133	U	0.006628	U			P
Cadmium	0.0517		0.04914				P
Lead	0.0321		0.03284				P
Manganese	0.674		0.6339		5.98		P
Nickel	0.0240		0.02355				P
Thallium	0.000599	J	0.002211	J			P
Zinc	0.115		0.1171				P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

ICP SERIAL DILUTIONS

Client Sample ID
BC-19SD

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

Total/Diss.: Total

Lab Sample ID: 11020727-11A

SDG: 11020727

Concentration Units: mg/L

Analyte	Initial Sample Results (I)	C	Serial Dilution Results (S)	C	% Difference	Q	M
Arsenic	0.00133	U	0.006628	U			P
Cadmium	0.000053	U	0.0002639	U			P
Lead	0.000850	J	0.003793	J			P
Manganese	0.00272		0.005159	J			P
Nickel	0.00179	J	0.002387	U			P
Thallium	0.000474	J	0.002096	J			P
Zinc	0.00365	J	0.008551	J			P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

METHOD DETECTION LIMITS

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF

Instrument ID Number: ICPMS Date:

6020_W_ALL

Analyte	Wavelength (nm)	Background	PQL mg/L	MDL mg/L	M
Arsenic	75.000		0.0040	0.0013	P
Cadmium	111.000		0.0020	0.000053	P
Lead	208.000		0.00100	0.00028	P
Manganese	55.000		0.0020	0.00022	P
Nickel	60.000		0.0020	0.00048	P
Thallium	205.000		0.0020	0.00025	P
Zinc	66.000		0.0060	0.0012	P

PREPARATION LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF

Method: SW3010A

Total/Diss.: Total

Lab Sample ID	Client Sample ID	Preparation Date	Initial Weight (gram)	Initial Volume (ml)	Final Volume (ml)
11020727-20A	BA-01A	2/21/11	0	50	50
11020727-02A	BA-09	2/21/11	0	50	50
11020727-01A	BA-09A	2/21/11	0	50	50
11020727-15A	BB-01	2/21/11	0	50	50
11020727-07A	BC-03	2/21/11	0	50	50
11020727-08A	BC-07	2/21/11	0	50	50
11020727-17A	BC-17	2/21/11	0	50	50
11020727-11A	BC-19	2/21/11	0	50	50
11020727-11AMS	BC-19MS	2/21/11	0	50	50
11020727-11AMSD	BC-19MSD	2/21/11	0	50	50
11020727-19A	BC-21R	2/21/11	0	50	50
11020727-12A	BC-25	2/21/11	0	50	50
11020727-10A	DUPLICATE #1	2/21/11	0	50	50
11020727-09A	DW-04	2/21/11	0	50	50
LCS-98096	LCS-98096	2/21/11	0	50	50
MBLK-98096	MBLK-98096	2/21/11	0	50	50
11020727-13A	MW-3	2/21/11	0	50	50
11020727-03A	MW-4	2/21/11	0	50	50
11020727-14A	MW-6	2/21/11	0	50	50
11020727-18A	NORTH WELL	2/21/11	0	50	50
11020727-06A	(b) (6) WELL	2/21/11	0	50	50
11020727-16A	SOUTH WELL	2/21/11	0	50	50
11020727-05A	WW-04	2/21/11	0	50	50
11020727-04A	WW-09	2/21/11	0	50	50

PREPARATION LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF

Method: SW3010A

Total/Diss.: Total

Lab Sample ID	Client Sample ID	Preparation Date	Initial Weight (gram)	Initial Volume (ml)	Final Volume (ml)
11020727-22A	BA-01	2/21/11	0	50	50
11020727-33A	BA-03	2/21/11	0	50	50
11020727-32A	BA-03A	2/21/11	0	50	50
11020727-33AMS	BA-03MS	2/21/11	0	50	50
11020727-33AMSD	BA-03MSD	2/21/11	0	50	50
11020727-28A	BA-05	2/21/11	0	50	50
11020727-27A	BA-05A	2/21/11	0	50	50
11020727-21A	DUPLICATE #2	2/21/11	0	50	50
11020727-26A	DUPLICATE #3	2/21/11	0	50	50
11020727-35A	DUPLICATE #4	2/21/11	0	50	50
11020727-30A	DW-1	2/21/11	0	50	50
11020727-25A	DW-2	2/21/11	0	50	50
11020727-23A	DW-3	2/21/11	0	50	50
LCS-98097	LCS-98097	2/21/11	0	50	50
MBLK-98097	MBLK-98097	2/21/11	0	50	50
11020727-31A	MW-1	2/21/11	0	50	50
11020727-34A	MW-2	2/21/11	0	50	50
11020727-29A	MW-A	2/21/11	0	50	50
11020727-24A	PW-4	2/21/11	0	50	50

ANALYSIS RUN LOG

Lab Name: SPL Inc.

SDG: 11020727

Lab Code: SPLLAF

Method: SW6020

Instrument ID: ICPMS

Total/Dissolved: Total

Start Date: 2/24/2011 End Date: 2/24/2011

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																												
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
ICV	ICV	1	09:34				X			X						X		X			X								X		X
ICB	ICB	1	09:38				X			X						X		X			X								X		X
ICSA	ICSA	1	09:44		X		X			X	X				X	X	X	X			X								X		X
ICSAB	ICSAB	1	09:46		X		X			X	X				X	X	X	X			X								X		X
MBLK-98096	MBLK-98096	1	09:58				X			X						X		X			X								X		X
LCS-98096	LCS-98096	1	10:01				X			X						X		X			X								X		X
11020727-11A	BC-19	1	10:39				X			X						X		X			X								X		X
11020727-11ASD	BC-19SD	5	10:41				X			X						X		X			X								X		X
11020727-11AMS	BC-19MS	1	10:44				X			X						X		X			X								X		X
11020727-11AMSD	BC-19MSD	1	10:47				X			X						X		X			X								X		X
11020727-11APDS	BC-19PDS	5	10:50				X			X						X		X			X								X		X
11020727-11APDSD	BC-19PDSD	5	10:52				X			X						X		X			X								X		X
CCV	CCV	1	10:58				X			X						X		X			X								X		X
CCB	CCB	1	11:01				X			X						X		X			X								X		X
11020727-01A	BA-09A	1	11:04				X			X						X		X			X								X		X
11020727-02A	BA-09	1	11:07							X						X		X			X								X		X
11020727-03A	MW-4	1	11:10				X			X						X		X			X								X		X
11020727-04A	WW-09	1	11:12				X			X						X		X			X								X		X
11020727-05A	WW-04	1	11:15				X			X						X		X			X								X		X
11020727-06A	(b) (6) WELL	1	11:18				X			X						X		X			X								X		X
11020727-07A	BC-03	1	11:21				X			X						X		X			X								X		X
11020727-08A	BC-07	1	11:23				X			X						X		X			X								X		X
11020727-09A	DW-04	1	11:26				X			X						X		X			X								X		X
11020727-10A	DUPLICATE #1	1	11:29				X			X						X		X			X								X		X
CCV	CCV	1	11:40				X			X						X		X			X								X		X
CCB	CCB	1	11:43				X			X						X		X			X								X		X
11020727-12A	BC-25	1	11:46				X			X						X		X			X								X		X
11020727-13A	MW-3	1	11:49				X			X						X		X			X								X		X
11020727-14A	MW-6	1	11:51							X						X		X			X								X		X
11020727-15A	BB-01	1	11:54				X			X						X		X			X								X		X

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Method: SW6020

Instrument ID: ICPMS Total/Dissolved: Total

Start Date: 2/24/2011 End Date: 2/24/2011

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																											
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
11020727-16A	SOUTH WELL	1	11:57				X			X						X		X			X							X		X
11020727-17A	BC-17	1	11:59				X			X						X		X			X							X		X
11020727-18A	NORTH WELL	1	12:02				X			X						X		X			X							X		X
11020727-19A	BC-21R	1	12:05				X			X						X		X			X							X		X
11020727-20A	BA-01A	1	12:07				X			X						X		X			X							X		X
CCV	CCV	1	13:27				X			X						X		X			X							X		X
CCB	CCB	1	13:30				X			X						X		X			X							X		X
CCV	CCV	1	13:41				X			X						X		X			X							X		X
CCB	CCB	1	13:44				X			X						X		X			X							X		X
ICSA	ICSA	1	13:47		X		X			X	X				X	X	X	X			X							X		X
ICSAB	ICSAB	1	13:50		X		X			X	X				X	X	X	X			X							X		X

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Method: SW6020

Instrument ID: ICPMS Total/Dissolved: Total

Start Date: 2/24/2011 End Date: 2/24/2011

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																												
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
ICV	ICV	1	09:34				X	X		X		X				X		X			X		X			X			X		X
ICB	ICB	1	09:38				X	X		X		X				X		X			X		X			X			X		X
ICSA	ICSA	1	09:44		X		X	X		X	X	X			X	X	X	X			X		X			X			X		X
ICSAB	ICSAB	1	09:46		X		X	X		X	X	X			X	X	X	X			X		X			X			X		X
CCV	CCV	1	13:41				X	X		X		X				X		X			X		X			X			X		X
CCB	CCB	1	13:44				X	X		X		X				X		X			X		X			X			X		X
ICSA	ICSA	1	13:47		X		X	X		X	X	X			X	X	X	X			X		X			X			X		X
ICSAB	ICSAB	1	13:50		X		X	X		X	X	X			X	X	X	X			X		X			X			X		X
MBLK-98097	MBLK-98097	1	13:55				X			X						X		X			X								X		X
LCS-98097	LCS-98097	1	13:58				X			X						X		X			X								X		X
11020727-33A	BA-03	1	14:01				X			X						X		X			X								X		X
11020727-33ASD	BA-03SD	5	14:08				X			X						X		X			X								X		X
11020727-33AMS	BA-03MS	1	14:13				X			X						X		X			X								X		X
11020727-33AMSD	BA-03MSD	1	14:15				X			X						X		X			X								X		X
11020727-33APDS	BA-03PDS	5	14:18				X			X						X		X			X								X		X
11020727-33APDSD	BA-03PDSD	5	14:21				X			X						X		X			X								X		X
CCV	CCV	1	14:36				X	X		X		X				X		X			X		X			X			X		X
CCB	CCB	1	14:45				X	X		X		X				X		X			X		X			X			X		X
11020687-01D	ZZZZZZ	10	15:23																														
11020687-03D	ZZZZZZ	10	15:25																														
11020689-01C	ZZZZZZ	1	15:28																														
11020689-03C	ZZZZZZ	1	15:31																														
11020689-05C	ZZZZZZ	1	15:34																														
11020727-21A	DUPLICATE #2	1	15:36				X			X						X		X			X								X		X
11020727-22A	BA-01	1	15:39							X						X		X			X								X		X
11020727-23A	DW-3	1	15:42							X						X		X			X								X		X
11020727-24A	PW-4	1	15:44				X			X						X		X			X								X		X
11020727-25A	DW-2	1	15:47							X								X			X										X
CCV	CCV	1	15:57				X	X		X		X				X		X			X		X			X			X		X
CCB	CCB	1	16:04				X	X		X		X				X		X			X		X			X			X		X

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Method: SW6020

Instrument ID: ICPMS Total/Dissolved: Total

Start Date: 2/24/2011 End Date: 2/24/2011

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																										
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
11020727-26A	DUPLICATE #3	1	16:07							X								X			X										X
11020727-27A	BA-05A	1	16:10				X			X								X			X										X
11020727-28A	BA-05	1	16:13							X								X			X										X
11020727-29A	MW-A	1	16:16				X			X								X			X										X
11020727-30A	DW-1	1	16:18				X			X								X			X										X
11020727-31A	MW-1	1	16:21							X								X			X										X
11020727-32A	BA-03A	1	16:24				X			X								X			X										X
11020727-34A	MW-2	1	16:26				X			X								X			X										X
11020727-35A	DUPLICATE #4	1	16:29				X			X								X			X										X
CCV	CCV	1	17:13				X	X		X		X				X		X			X		X			X			X		X
CCB	CCB	1	19:37				X	X		X		X				X		X			X		X			X			X		X
ICSA	ICSA	1	19:40		X		X	X		X	X	X			X	X	X	X			X		X			X			X		X
ICSAB	ICSAB	1	19:43		X		X	X		X	X	X			X	X	X	X			X		X			X			X		X

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Method: SW6020

Instrument ID: ICPMS Total/Dissolved: Total

Start Date: 2/26/2011 End Date: 2/26/2011

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																													
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
ICV	ICV	1	15:30				X	X		X		X				X		X			X		X			X			X		X
ICB	ICB	1	15:33				X	X		X		X				X		X			X		X			X			X		X
ICSA	ICSA	1	15:38		X		X	X		X	X	X			X	X	X	X			X		X			X			X		X
ICSAB	ICSAB	1	15:41		X		X	X		X	X	X			X	X	X	X			X		X			X			X		X
11020727-25A	DW-2	5	15:57													X													X		
11020727-25A	DW-2	25	15:59				X																									
11020727-26A	DUPLICATE #3	5	16:02													X													X		
11020727-26A	DUPLICATE #3	25	16:05				X																									
11020727-27A	BA-05A	1	16:07													X													X		
11020727-28A	BA-05	1	16:10													X													X		
CCV	CCV	1	16:21				X	X		X		X				X		X			X		X			X			X		X
CCB	CCB	1	16:26				X	X		X		X				X		X			X		X			X			X		X
11020727-29A	MW-A	1	16:34													X													X		
11020727-30A	DW-1	1	16:36													X													X		
11020727-31A	MW-1	5	16:39													X													X		
11020727-31A	MW-1	25	16:42				X																									
11020727-32A	BA-03A	1	16:44													X													X		
11020727-34A	MW-2	1	16:47													X													X		
11020727-35A	DUPLICATE #4	1	16:50													X													X		
CCV	CCV	1	16:53				X	X		X		X				X		X			X		X			X			X		X
CCB	CCB	1	16:57				X	X		X		X				X		X			X		X			X			X		X
ICSA	ICSA	1	17:05		X		X	X		X	X	X			X	X	X	X			X		X			X			X		X
ICSAB	ICSAB	1	17:07		X		X	X		X	X	X			X	X	X	X			X		X			X			X		X

METALS RAW DATA

1102240907MS
2-24-11
RD

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
8	QC Std 3		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
221	MBLK-98096 6020-W-ALL	76	Sample
222	LCS-98096	77	Sample
223	11020727-11A As, Cd, Pb, Mn, Ni, TL, Zn	78	Sample
224	11020727-11ASD	79	Sample
225	11020727-11AMS	80	Sample
226	11020727-11AMSD ICPMS-110224A	81	Sample
227	11020727-11APDS	82	Sample
228	11020727-11APDSD	83	Sample
7	QC Std 4 Reviewed By		QC Std
8	QC Std 6		QC Std
229	11020727-01A KL 2|24|11	84	Sample
230	11020727-02A Cd, Pb, Mn, Ni, TL, Zn	85	Sample
231	11020727-03A As, Cd, Pb, Mn, Ni, TL, Zn	86	Sample
232	11020727-04A	87	Sample
233	11020727-05A	88	Sample
234	11020727-06A	89	Sample
235	11020727-07A	90	Sample
236	11020727-08A	91	Sample
237	11020727-09A	92	Sample
238	11020727-10A	93	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
239	11020727-12A	94	Sample
240	11020727-13A	95	Sample
241	11020727-14A Cd, Pb, Mn, Ni, TL, Zn	96	Sample
242	11020727-15A As, Cd, Pb, Mn, Ni, TL, Zn	97	Sample
243	11020727-16A	98	Sample
244	11020727-17A	99	Sample
245	11020727-18A	100	Sample
246	11020727-19A	101	Sample
247	11020727-20A	102	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
x5 248	11020727-02A ØAs	103	Sample
x25 248	11020727-02A As	104	Sample
x5 249	11020727-14A	105	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	106	Sample
10	ICSAB	107	Spike - 2 of 106

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
318	MBLK-98097 6020-W-ALL	108	Sample
319	LCS-98097	109	Sample
320	11020727-33A As, Cd, Pb, Mn, Ni, TL, Zn	110	Sample
321	11020727-33ASD	111	Sample
322	11020727-33AMS	112	Sample
323	11020727-33AMSD ICPMS-110224B	113	Sample
324	11020727-33APDS	114	Sample
325	11020727-33APDSD	115	Sample
7	QC Std 4 Reviewed By		QC Std
8	QC Std 6		QC Std
326	11020687-01D As, Ba, Cd, Cr, Pb, Se, Ag, Zn KL 2/25/11	116	Sample
327	11020687-03D	117	Sample
328	11020689-01C As, Ba, Cd, Cr, Pb, Se Ag	118	Sample
329	11020689-03C	119	Sample
330	11020689-05C	120	Sample
331	11020727-21A As, Cd, Pb, Mn, Ni, TL, Zn	121	Sample
332	11020727-22A Cd, Pb, Mn, Ni, TL, Zn ØAs	122	Sample
333	11020727-23A	123	Sample
334	11020727-24A As, Cd, Pb, Mn, Ni, TL, Zn	124	Sample
335	11020727-25A Cd, Mn, Ni, Zn Ø As, Pb, TL	125	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
336	11020727-26A Cd, Mn, Ni, Zn Ø As, Pb, TL	126	Sample
337	11020727-27A Cd, Mn, Ni, Zn, As Ø Pb, TL	127	Sample
338	11020727-28A Cd, Mn, Ni, Zn Ø As, Pb, TL	128	Sample
339	11020727-29A Cd, Mn, Ni, Zn, As Ø Pb, TL	129	Sample
340	11020727-30A	130	Sample
341	11020727-31A Cd, Mn, Ni, Zn Ø As, Pb, TL	131	Sample
342	11020727-32A Cd, Mn, Ni, Zn, As Ø Pb, TL	132	Sample
343	11020727-34A	133	Sample
344	11020727-35A	134	Sample
X5 345	11020727-22A As	135	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	136	Sample
10	ICSAB	137	Spike - 2 of 136

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
8	QC Std 3		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
221	MBLK-98096	76	Sample
222	LCS-98096	77	Sample
223	11020727-11A	78	Sample
224	11020727-11ASD	79	Sample
225	11020727-11AMS	80	Sample
226	11020727-11AMSD	81	Sample
227	11020727-11APDS	82	Sample
228	11020727-11APDSD	83	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
229	11020727-01A	84	Sample
230	11020727-02A	85	Sample
231	11020727-03A	86	Sample
232	11020727-04A	87	Sample
233	11020727-05A	88	Sample
234	11020727-06A	89	Sample
235	11020727-07A	90	Sample
236	11020727-08A	91	Sample
237	11020727-09A	92	Sample
238	11020727-10A	93	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
239	11020727-12A	94	Sample
240	11020727-13A	95	Sample
241	11020727-14A	96	Sample
242	11020727-15A	97	Sample
243	11020727-16A	98	Sample
244	11020727-17A	99	Sample
245	11020727-18A	100	Sample
246	11020727-19A	101	Sample
247	11020727-20A	102	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
248	11020727-02A	103	Sample
248	11020727-02A	104	Sample
249	11020727-14A	105	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	106	Sample
10	ICSAB	107	Spike - 2 of 106

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
318	MBLK-98097	108	Sample
319	LCS-98097	109	Sample
320	11020727-33A	110	Sample
321	11020727-33ASD	111	Sample
322	11020727-33AMS	112	Sample
323	11020727-33AMSD	113	Sample
324	11020727-33APDS	114	Sample
325	11020727-33APDSD	115	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
326	11020687-01D	116	Sample
327	11020687-03D	117	Sample
328	11020689-01C	118	Sample
329	11020689-03C	119	Sample
330	11020689-05C	120	Sample
331	11020727-21A	121	Sample
332	11020727-22A	122	Sample
333	11020727-23A	123	Sample
334	11020727-24A	124	Sample
335	11020727-25A	125	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
336	11020727-26A	126	Sample
337	11020727-27A	127	Sample
338	11020727-28A	128	Sample
339	11020727-29A	129	Sample
340	11020727-30A	130	Sample
341	11020727-31A	131	Sample
342	11020727-32A	132	Sample
343	11020727-34A	133	Sample
344	11020727-35A	134	Sample
345	11020727-22A	135	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	136	Sample
10	ICSAB	137	Spike - 2 of 136

Instrument Tuning Report

File Name: default.tun
File Path: C:\elandata\Tuning\default.tun

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	8.977	2029	2115	0.590	
C	12.000	11.979	2752	2110	0.595	
Mg	23.985	23.978	5656	2130	0.563	
Co	58.933	58.928	14141	2160	0.564	
In	114.904	114.878	27755	2235	0.578	
Ce	139.905	139.928	33828	2265	0.584	
Pb	207.977	207.978	50399	2365	0.601	
U	238.050	238.076	57696	2395	0.620	

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Thursday, February 24, 2011 09:02:41
Sample Description:
Method File: C:\Elandata\Method\Daily.mth
Dataset File: C:\Elandata\DataSet\Daily Performance\Sample.1863
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 35
Current Dead Time (ns): 35

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Be	9.0	6341.9	6341.941	46.032	0.7
	C	12.0	1026589.0	1026589.000	2243.580	0.2
	Mg	24.0	49840.8	49840.796	348.652	0.7
	Co	58.9	103858.4	103858.443	705.890	0.7
	In	114.9	159308.9	159308.931	1301.646	0.8
	Pb	208.0	36782.4	36782.431	447.870	1.2
	U	238.1	92838.5	92838.498	628.064	0.7
⌈>	Ce	139.9	164692.7	164692.741	2076.868	1.3
⌊	CeO	155.9	1417.1	0.009	0.000	1.1
⌈>	Ba	137.9	131230.3	131230.338	1115.160	0.8
⌊	Ba++	69.0	2047.9	0.016	0.000	2.1
	220	220.0	0.4	0.367	0.217	59.3

Current Optimization File Data

Current Value	Description
0.91	Nebulizer Gas Flow [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
7.40	Lens Voltage
1400.00	ICP RF Power
-1700.00	Analog Stage Voltage
800.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-17.00	Cell Rod Offset Std [CRO]
19.00	Discriminator Threshold
-15.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
1.00	DRC Mode NEB
-6.00	DRC Mode QRO
-1.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A
0.00	Cell Gas B

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	36	5.0	6495.5
Co	59	36	6.2	112783.9

In	115	36	7.8	159097.8

Quantitative Analysis - Summary Report

Sample ID: Cal Blank
Sample Date/Time: Thursday, February 24, 2011 09:18:42
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\Cal Blank.001
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	34506.163					ug/L
	Li	7	2516.222					ug/L
	Be	9	4.000					ug/L
	B	11	1468.742					ug/L
	Na	23	17010.147					ug/L
	Mg	24	500.010					ug/L
	Al	27	1698.435					ug/L
	K	39	58821.189					ug/L
	Ca	43	214.668					ug/L
>	Sc	45	376681.195					ug/L
	Ti	49	610.680					ug/L
	Co	59	270.669					ug/L
	Ni	60	83.334					ug/L
	Ni	62	76.000					ug/L
	Cu	63	1106.710					ug/L
	Cu	65	276.003					ug/L
	Zn	66	238.669					ug/L
	Zn	67	3119.009					ug/L
	Zn	68	293.336					ug/L
	V	51	-7640.962					ug/L
	Cr	52	4193.949					ug/L
	Cr	53	23095.330					ug/L
	Mn	55	1443.406					ug/L
	Fe	54	19625.928					ug/L
	Fe	57	3442.415					ug/L
	As	75	227.148					ug/L
	Se	77	2294.184					ug/L
	Se	82	-8.679					ug/L
	Sr	88	278.003					ug/L
>	Y	89	454714.084					ug/L
	Mo	95	39.333					ug/L
	Mo	97	23.333					ug/L
	Mo	98	47.854					ug/L
	Ag	107	6.000					ug/L
	Ag	109	2.667					ug/L
	Cd	111	3.000					ug/L
	Cd	114	10.433					ug/L

|>	In	115	240460.866	ug/L
|	Sn	120	2369.343	ug/L
|	Sb	121	52.000	ug/L
L	Sb	123	98.821	ug/L
⌈	Ba	135	17.333	ug/L
|	Ba	137	24.667	ug/L
|	Tb	159	203950.022	ug/L
|>	Ho	165	200403.980	ug/L
|	Tl	203	4.000	ug/L
|	Tl	205	6.000	ug/L
L	Pb	208	47.333	ug/L
	Kr	83	35.600	ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 1
Sample Date/Time: Thursday, February 24, 2011 09:21:23
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\Std 1.002
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	34202.713	-0.001				ug/L
|	Li	7	3544.440	0.003				ug/L
|	Be	9	258.002	0.001				ug/L
|	B	11	2518.222	0.003				ug/L
|	Na	23	25389.284	0.022				ug/L
|	Mg	24	6834.975	0.017				ug/L
|	Al	27	19683.565	0.048				ug/L
|	K	39	71646.245	0.034				ug/L
|	Ca	43	274.669	0.000				ug/L
\>	Sc	45	377359.826	377359.826				ug/L
|	Ti	49	774.688	0.000				ug/L
|	Co	59	4255.300	0.011				ug/L
|	Ni	60	916.029	0.002				ug/L
|	Ni	62	190.668	0.000				ug/L
|	Cu	63	2856.286	0.005				ug/L
|	Cu	65	1168.048	0.002				ug/L
|	Zn	66	985.368	0.002				ug/L
|	Zn	67	3684.476	0.001				ug/L
|	Zn	68	769.354	0.001				ug/L
|	V	51	-6012.152	0.004				ug/L
|	Cr	52	7025.728	0.007				ug/L
|	Cr	53	25138.777	0.005				ug/L
|	Mn	55	6390.763	0.013				ug/L
|	Fe	54	21837.345	0.006				ug/L
⌞	Fe	57	4402.012	0.003				ug/L
⌜	As	75	638.159	0.001				ug/L
|	Se	77	2556.896	0.001				ug/L
|	Se	82	167.696	0.000				ug/L
|	Sr	88	4935.520	0.010				ug/L
\>	Y	89	451756.957	451756.957				ug/L
|	Mo	95	656.015	0.001				ug/L
|	Mo	97	392.005	0.001				ug/L
⌞	Mo	98	1075.155	0.002				ug/L
⌜	Ag	107	1970.136	0.008				ug/L
|	Ag	109	1898.126	0.008				ug/L
|	Cd	111	440.673	0.002				ug/L
|	Cd	114	940.154	0.004				ug/L

|>	In	115	241518.420	241518.420	ug/L
|	Sn	120	4309.737	0.008	ug/L
|	Sb	121	1511.413	0.006	ug/L
_	Sb	123	1218.952	0.005	ug/L
⌜	Ba	135	430.006	0.002	ug/L
|	Ba	137	749.353	0.004	ug/L
|	Tb	159	205319.050	-0.008	ug/L
|>	Ho	165	203319.371	203319.371	ug/L
|	Tl	203	674.016	0.003	ug/L
|	Tl	205	1644.095	0.008	ug/L
_	Pb	208	2455.418	0.012	ug/L
	Kr	83	38.933	3.333	ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 2
Sample Date/Time: Thursday, February 24, 2011 09:24:04
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\Std 2.003
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	34403.738	-0.000				ug/L
|	Li	7	6594.859	0.011	**5.000000**	0.72	14.4	ug/L
|	Be	9	1153.380	0.003	**5.000000**	0.11	2.3	ug/L
|	B	11	3533.104	0.005	**5.000000**	0.63	12.6	ug/L
|	Na	23	61063.810	0.117	**50.000000**	3.82	7.6	ug/L
|	Mg	24	27960.690	0.073	**50.000000**	2.84	5.7	ug/L
|	Al	27	87190.384	0.227	**55.000000**	2.76	5.0	ug/L
|	K	39	123733.709	0.172	**50.000000**	4.19	8.4	ug/L
|	Ca	43	540.010	0.001	**50.000000**	1.98	4.0	ug/L
| >	Sc	45	376929.127	376929.127				ug/L
|	Ti	49	1418.071	0.002	**5.000000**	0.32	6.3	ug/L
|	Co	59	17785.733	0.046	**5.000000**	0.09	1.8	ug/L
|	Ni	60	3850.519	0.010	**5.000000**	0.16	3.2	ug/L
|	Ni	62	657.349	0.002	**5.000000**	0.67	13.5	ug/L
|	Cu	63	9895.426	0.023	**5.000000**	0.14	2.8	ug/L
|	Cu	65	4474.035	0.011	**5.000000**	0.16	3.2	ug/L
|	Zn	66	2942.970	0.007	**5.000000**	0.17	3.4	ug/L
|	Zn	67	4079.249	0.003	**5.000000**	2.01	40.2	ug/L
|	Zn	68	2156.163	0.005	**5.000000**	0.42	8.5	ug/L
|	V	51	6339.169	0.037	**5.000000**	0.45	9.0	ug/L
|	Cr	52	16635.021	0.033	**5.000000**	0.39	7.8	ug/L
|	Cr	53	26120.537	0.008	**5.000000**	4.49	89.8	ug/L
|	Mn	55	23741.053	0.059	**5.000000**	0.24	4.8	ug/L
|	Fe	54	28745.667	0.024	**50.000000**	9.89	19.8	ug/L
⌞	Fe	57	7762.110	0.011	**50.000000**	4.57	9.1	ug/L
⌜	As	75	2007.268	0.004	**5.000000**	0.18	3.7	ug/L
|	Se	77	3040.324	0.002	**25.000000**	4.02	16.1	ug/L
|	Se	82	789.738	0.002	**25.000000**	0.61	2.4	ug/L
|	Sr	88	21691.792	0.048	**5.000000**	0.14	2.7	ug/L
| >	Y	89	442168.011	442168.011				ug/L
|	Mo	95	2873.622	0.006	**5.000000**	0.03	0.7	ug/L
|	Mo	97	1819.449	0.004	**5.000000**	0.22	4.4	ug/L
⌞	Mo	98	4594.447	0.010	**5.000000**	0.10	2.0	ug/L
⌜	Ag	107	8571.905	0.037	**5.000000**	0.12	2.3	ug/L
|	Ag	109	8177.006	0.035	**5.000000**	0.03	0.5	ug/L
|	Cd	111	1986.972	0.008	**5.000000**	0.17	3.4	ug/L
|	Cd	114	4581.723	0.019	**5.000000**	0.11	2.1	ug/L

|>	In	115	234689.977	234689.977				ug/L
|	Sn	120	10651.133	0.036	**5.000000**	0.08	1.7	ug/L
|	Sb	121	6636.875	0.028	**5.000000**	0.09	1.8	ug/L
\L	Sb	123	5039.878	0.021	**5.000000**	0.17	3.4	ug/L
|	Ba	135	1554.751	0.008	**5.000000**	0.27	5.5	ug/L
|	Ba	137	2714.258	0.014	**5.000000**	0.31	6.2	ug/L
|	Tb	159	201056.404	0.004				ug/L
|>	Ho	165	196882.878	196882.878				ug/L
|	Tl	203	3195.691	0.016	**5.000000**	0.18	3.7	ug/L
|	Tl	205	7596.686	0.039	**5.000000**	0.08	1.6	ug/L
\L	Pb	208	10640.242	0.054	**5.000000**	0.20	4.0	ug/L
	Kr	83	36.533	0.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 3
Sample Date/Time: Thursday, February 24, 2011 09:26:45
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\Std 3.004
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33179.657	-0.002				ug/L
|	Li	7	42881.600	0.109	**50.011320**	0.64	1.3	ug/L
|	Be	9	10978.886	0.030	**49.998799**	1.53	3.1	ug/L
|	B	11	16168.500	0.040	**50.018470**	3.63	7.3	ug/L
|	Na	23	102836.821	0.232	**99.840901**	8.94	9.0	ug/L
|	Mg	24	54738.044	0.146	**100.307081**	2.49	2.5	ug/L
|	Al	27	233099.780	0.625	**150.162241**	1.42	0.9	ug/L
|	K	39	176618.782	0.321	**98.967785**	3.47	3.5	ug/L
|	Ca	43	784.022	0.002	**98.325568**	6.43	6.5	ug/L
| >	Sc	45	370518.485	370518.485				ug/L
|	Ti	49	8606.593	0.022	**50.001970**	1.02	2.0	ug/L
|	Co	59	167241.849	0.451	**50.000051**	1.53	3.1	ug/L
|	Ni	60	36277.341	0.098	**50.000051**	0.76	1.5	ug/L
|	Ni	62	5578.422	0.015	**49.992210**	0.59	1.2	ug/L
|	Cu	63	86725.828	0.231	**49.998032**	0.92	1.8	ug/L
|	Cu	65	39610.854	0.106	**49.993809**	0.83	1.7	ug/L
|	Zn	66	24786.837	0.066	**50.001619**	1.66	3.3	ug/L
|	Zn	67	7806.133	0.013	**49.974088**	2.51	5.0	ug/L
|	Zn	68	16875.300	0.045	**49.993331**	1.23	2.5	ug/L
|	V	51	123178.486	0.353	**49.972869**	0.96	1.9	ug/L
|	Cr	52	120863.305	0.315	**49.996967**	1.00	2.0	ug/L
|	Cr	53	39273.285	0.045	**50.029454**	4.36	8.7	ug/L
|	Mn	55	216547.141	0.581	**50.000949**	0.55	1.1	ug/L
|	Fe	54	39937.544	0.056	**101.983599**	4.63	4.5	ug/L
⌊	Fe	57	12664.279	0.025	**101.254811**	2.34	2.3	ug/L
⌈	As	75	17014.310	0.038	**49.994676**	1.60	3.2	ug/L
|	Se	77	9868.742	0.017	**250.094834**	12.17	4.9	ug/L
|	Se	82	7554.522	0.017	**249.970008**	2.93	1.2	ug/L
|	Sr	88	203850.848	0.462	**49.993853**	0.84	1.7	ug/L
| >	Y	89	440851.919	440851.919				ug/L
|	Mo	95	26920.683	0.061	**49.993474**	1.19	2.4	ug/L
|	Mo	97	17150.956	0.039	**49.991827**	1.02	2.0	ug/L
⌊	Mo	98	43705.286	0.099	**49.997580**	1.18	2.4	ug/L
⌈	Ag	107	79853.954	0.338	**49.990325**	1.56	3.1	ug/L
|	Ag	109	76031.847	0.322	**49.990515**	1.82	3.7	ug/L
|	Cd	111	18930.368	0.080	**49.992889**	0.88	1.8	ug/L
|	Cd	114	42754.687	0.181	**49.985355**	0.88	1.8	ug/L

|>	In	115	236544.466	236544.466				ug/L
|	Sn	120	79215.502	0.325	**49.988693**	0.96	1.9	ug/L
|	Sb	121	62986.555	0.266	**49.993389**	0.62	1.2	ug/L
_	Sb	123	48476.270	0.205	**49.998790**	1.04	2.1	ug/L
⌈	Ba	135	14873.072	0.075	**50.004952**	0.75	1.5	ug/L
|	Ba	137	25166.148	0.127	**49.999126**	1.14	2.3	ug/L
|	Tb	159	204846.584	0.015				ug/L
|>	Ho	165	198422.257	198422.257				ug/L
|	Tl	203	30608.090	0.154	**49.991543**	0.77	1.5	ug/L
|	Tl	205	74953.540	0.378	**49.998171**	1.89	3.8	ug/L
_	Pb	208	102852.730	0.518	**49.997307**	1.35	2.7	ug/L
	Kr	83	37.600	2.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 4
Sample Date/Time: Thursday, February 24, 2011 09:29:26
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\Std 4.005
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	33152.845	-0.002				ug/L
|	Li	7	83206.958	0.218	**100.021924**	2.65	2.7	ug/L
|	Be	9	21942.844	0.059	**100.025148**	0.87	0.9	ug/L
|	B	11	31353.709	0.081	**100.695193**	1.32	1.3	ug/L
|	Na	23	931280.001	2.470	**1000.248133**	35.42	3.5	ug/L
|	Mg	24	570795.205	1.541	**1000.285508**	56.85	5.7	ug/L
|	Al	27	1703633.160	4.595	**1100.051809**	25.65	2.3	ug/L
|	K	39	1239204.372	3.192	**1000.012173**	48.53	4.9	ug/L
|	Ca	43	5547.744	0.014	**999.691841**	14.20	1.4	ug/L
| >	Sc	45	370324.567	370324.567				ug/L
|	Ti	49	16304.633	0.042	**99.671963**	1.62	1.6	ug/L
|	Co	59	334572.851	0.903	**100.055970**	0.71	0.7	ug/L
|	Ni	60	73806.168	0.199	**100.347290**	2.04	2.0	ug/L
|	Ni	62	11129.670	0.030	**100.097716**	1.47	1.5	ug/L
|	Cu	63	173405.822	0.465	**100.116145**	1.52	1.5	ug/L
|	Cu	65	81454.438	0.219	**100.573577**	3.64	3.6	ug/L
|	Zn	66	49723.729	0.134	**100.232612**	2.09	2.1	ug/L
|	Zn	67	11572.687	0.023	**98.986657**	4.83	4.9	ug/L
|	Zn	68	34589.832	0.093	**100.662482**	1.26	1.3	ug/L
|	V	51	251805.076	0.700	**99.853290**	2.74	2.7	ug/L
|	Cr	52	238655.758	0.634	**100.131865**	3.65	3.6	ug/L
|	Cr	53	53452.512	0.083	**99.573690**	6.76	6.8	ug/L
|	Mn	55	431160.201	1.161	**100.016346**	3.15	3.2	ug/L
|	Fe	54	230761.667	0.571	**1000.118671**	40.22	4.0	ug/L
⌞	Fe	57	97827.817	0.255	**1000.078821**	17.59	1.8	ug/L
⌜	As	75	34320.842	0.078	**100.427813**	1.05	1.0	ug/L
|	Se	77	17219.708	0.034	**499.529318**	7.03	1.4	ug/L
|	Se	82	15501.528	0.035	**502.907219**	3.66	0.7	ug/L
|	Sr	88	412387.771	0.942	**100.358222**	1.85	1.8	ug/L
| >	Y	89	437672.036	437672.036				ug/L
|	Mo	95	54363.939	0.124	**100.330691**	1.02	1.0	ug/L
|	Mo	97	34037.840	0.078	**100.022213**	1.23	1.2	ug/L
⌞	Mo	98	88296.379	0.202	**100.332355**	0.67	0.7	ug/L
⌜	Ag	107	160828.478	0.696	**100.567898**	0.81	0.8	ug/L
|	Ag	109	153111.550	0.663	**100.567725**	0.92	0.9	ug/L
|	Cd	111	38086.037	0.165	**100.537734**	1.22	1.2	ug/L
|	Cd	114	85552.978	0.370	**100.447851**	1.05	1.0	ug/L

|>	In	115	231014.122	231014.122				ug/L
|	Sn	120	154033.354	0.657	**100.236754**	2.32	2.3	ug/L
|	Sb	121	123836.538	0.536	**100.153523**	2.08	2.1	ug/L
_	Sb	123	94622.213	0.409	**100.029916**	2.43	2.4	ug/L
⌜	Ba	135	29245.240	0.147	**99.779246**	0.46	0.5	ug/L
|	Ba	137	49381.874	0.249	**99.759067**	1.51	1.5	ug/L
|	Tb	159	202568.133	0.004				ug/L
|>	Ho	165	198278.050	198278.050				ug/L
|	Tl	203	61570.439	0.311	**100.137062**	2.48	2.5	ug/L
|	Tl	205	148493.123	0.749	**99.859464**	1.74	1.7	ug/L
_	Pb	208	203219.711	1.025	**99.832172**	3.48	3.5	ug/L
	Kr	83	41.400	5.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 5
Sample Date/Time: Thursday, February 24, 2011 09:32:07
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\Std 5.006
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	28947.867	-0.010				ug/L
|	Li	7	166925.257	0.463	**202.225620**	5.61	2.8	ug/L
|	Be	9	44081.269	0.124	**201.720305**	4.77	2.4	ug/L
|	B	11	58750.580	0.161	**200.573704**	5.36	2.7	ug/L
|	Na	23	8896575.784	24.979	**10000.598491**	213.44	2.1	ug/L
|	Mg	24	5370333.806	15.106	**9998.455799**	501.40	5.0	ug/L
|	Al	27	15249906.446	42.896	**10200.540600**	234.99	2.3	ug/L
|	K	39	11273059.440	31.552	**9999.284010**	257.88	2.6	ug/L
|	Ca	43	49996.688	0.140	**9998.354913**	284.97	2.9	ug/L
| >	Sc	45	355514.969	355514.969				ug/L
|	Ti	49	32656.618	0.090	**202.200334**	0.51	0.3	ug/L
|	Co	59	643154.177	1.808	**200.110771**	2.13	1.1	ug/L
|	Ni	60	140524.586	0.395	**199.802800**	2.72	1.4	ug/L
|	Ni	62	21178.359	0.059	**199.831719**	2.65	1.3	ug/L
|	Cu	63	329440.924	0.924	**199.750893**	1.71	0.9	ug/L
|	Cu	65	152384.855	0.428	**199.239638**	3.51	1.8	ug/L
|	Zn	66	94670.049	0.266	**199.908842**	1.66	0.8	ug/L
|	Zn	67	18298.381	0.043	**198.441696**	6.09	3.1	ug/L
|	Zn	68	64709.065	0.181	**199.414191**	7.88	4.0	ug/L
|	V	51	502293.342	1.433	**200.805317**	1.85	0.9	ug/L
|	Cr	52	461604.599	1.287	**200.670409**	0.50	0.3	ug/L
|	Cr	53	80693.257	0.166	**200.787381**	3.04	1.5	ug/L
|	Mn	55	847799.339	2.381	**200.970709**	5.49	2.7	ug/L
|	Fe	54	1904189.644	5.304	**9994.290931**	128.12	1.3	ug/L
⌞	Fe	57	856413.709	2.400	**9995.360935**	248.69	2.5	ug/L
⌜	As	75	67179.162	0.154	**199.828099**	4.74	2.4	ug/L
|	Se	77	30770.440	0.066	**992.818618**	11.56	1.2	ug/L
|	Se	82	29696.981	0.069	**994.486713**	17.08	1.7	ug/L
|	Sr	88	796032.547	1.836	**199.160356**	6.02	3.0	ug/L
| >	Y	89	433489.785	433489.785				ug/L
|	Mo	95	106785.656	0.246	**199.816980**	2.09	1.0	ug/L
|	Mo	97	68237.256	0.157	**200.499065**	1.78	0.9	ug/L
⌞	Mo	98	176037.864	0.406	**200.371735**	1.46	0.7	ug/L
⌜	Ag	107	311418.547	1.377	**199.782651**	4.65	2.3	ug/L
|	Ag	109	295023.025	1.305	**199.593294**	5.21	2.6	ug/L
|	Cd	111	73765.802	0.326	**199.756779**	2.95	1.5	ug/L
|	Cd	114	168575.111	0.745	**200.391747**	3.75	1.9	ug/L

|>	In	115	226207.451	226207.451				ug/L
|	Sn	120	303988.143	1.334	**200.705105**	4.43	2.2	ug/L
|	Sb	121	247784.463	1.095	**200.896269**	3.80	1.9	ug/L
\L	Sb	123	188477.669	0.833	**200.692920**	3.15	1.6	ug/L
|	Ba	135	58565.134	0.305	**201.326634**	0.93	0.5	ug/L
|	Ba	137	99620.815	0.520	**201.610574**	0.62	0.3	ug/L
|	Tb	159	195966.960	0.005				ug/L
|>	Ho	165	191688.866	191688.866				ug/L
|	Tl	203	120578.150	0.629	**200.542266**	2.66	1.3	ug/L
|	Tl	205	293621.585	1.532	**200.819399**	1.40	0.7	ug/L
\L	Pb	208	408191.510	2.130	**201.421733**	6.82	3.4	ug/L
	Kr	83	44.267	8.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

File Name: 02-24.cal
File Path: C:\Elandata\System\02-24.cal
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Li	6.015	Simple Linear	0.000000000	0.000000000	0.000000
Li	7.016	Simple Linear	0.002306293	-0.003490348	0.999519
Be	9.012	Simple Linear	0.000618062	-0.000692569	0.999713
B	11.009	Simple Linear	0.000798886	0.001149560	0.999916
Na	22.990	Simple Linear	0.002499110	-0.013955037	1.000000
Mg	23.985	Simple Linear	0.001510295	0.005649159	0.999998
Al	26.982	Simple Linear	0.004206184	-0.009631391	1.000000
K	38.964	Simple Linear	0.003153954	0.014447402	0.999999
Ca	42.959	Simple Linear	0.000013993	0.000180285	0.999997
Sc	44.956	Simple Linear	0.000000000	0.000000000	0.000000
Ti	48.948	Simple Linear	0.000449402	-0.000631630	0.999520
Co	58.933	Simple Linear	0.009034334	0.000500086	0.999998
Ni	59.933	Simple Linear	0.001976865	0.000061565	0.999983
Ni	61.928	Simple Linear	0.000296831	0.000048093	0.999996
Cu	62.930	Simple Linear	0.004621609	0.000569810	0.999993
Cu	64.928	Simple Linear	0.002143821	0.000711190	0.999907
Zn	65.926	Simple Linear	0.001326247	0.000515464	0.999993
Zn	66.927	Simple Linear	0.000209019	0.001719097	0.999642
Zn	67.925	Simple Linear	0.000906759	0.000405327	0.999918
V	50.944	Simple Linear	0.007157480	-0.004056021	0.999931
Cr	51.941	Simple Linear	0.006426068	-0.002260865	0.999955
Cr	52.941	Simple Linear	0.000804982	0.004050146	0.999917
Mn	54.938	Simple Linear	0.011882181	-0.007081885	0.999909
Fe	53.940	Simple Linear	0.000529753	0.009859206	0.999970
Fe	56.935	Simple Linear	0.000239713	0.003736061	0.999980
As	74.922	Simple Linear	0.000772794	0.000067444	0.999977
Se	76.920	Simple Linear	0.000065852	0.000563805	0.999797
Se	81.917	Simple Linear	0.000068713	0.000204041	0.999844
Sr	87.906	Simple Linear	0.009195140	0.005017256	0.999917
Y	88.905	Simple Linear	0.000000000	0.000000000	0.000000
Mo	94.906	Simple Linear	0.001231894	0.000120576	0.999985
Mo	96.906	Simple Linear	0.000785847	-0.000183955	0.999975
Mo	97.906	Simple Linear	0.002029569	-0.000654079	0.999975
Ag	106.905	Simple Linear	0.006890086	0.000514656	0.999960
Ag	108.905	Simple Linear	0.006528551	0.001476758	0.999948
Cd	110.904	Simple Linear	0.001632545	0.000022249	0.999963
Cd	113.904	Simple Linear	0.003726163	-0.001359012	0.999963
In	114.904	Simple Linear	0.000000000	0.000000000	0.000000
Sn	119.902	Simple Linear	0.006658793	-0.002115013	0.999945
Sb	120.904	Simple Linear	0.005467424	-0.002980320	0.999919
Sb	122.904	Simple Linear	0.004158062	-0.001560969	0.999953
Ba	134.906	Simple Linear	0.001521022	-0.000780533	0.999824
Ba	136.905	Simple Linear	0.002584757	-0.001529657	0.999743
Tb	158.925	Simple Linear	0.000000000	0.000000000	0.000000
Ho	164.930	Simple Linear	0.000000000	0.000000000	0.000000
Tl	202.972	Simple Linear	0.003141591	-0.001017673	0.999969
Tl	204.975	Simple Linear	0.007643135	-0.003143488	0.999933
Pb	207.977	Simple Linear	0.010611769	-0.007920156	0.999801

Kr	82.914	Simple Linear	0.000000000	0.000000000	0.000000

Quantitative Analysis - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Thursday, February 24, 2011 09:34:48
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 1.007
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31400.033	-0.003				ug/L
|	Li	7	78787.503	0.215	**94.843415**	5.49	5.8	ug/L
|	Be	9	20711.679	0.058	**95.498253**	5.21	5.5	ug/L
|	B	11	27947.313	0.075	**92.184383**	3.36	3.6	ug/L
|	Na	23	4182879.841	11.738	**4702.526144**	358.64	7.6	ug/L
|	Mg	24	2600816.110	7.327	**4847.579039**	459.28	9.5	ug/L
|	Al	27	7485546.150	21.076	**5012.980978**	205.68	4.1	ug/L
|	K	39	5573790.480	15.545	**4924.061430**	301.13	6.1	ug/L
|	Ca	43	24227.193	0.068	**4820.815763**	118.07	2.4	ug/L
| >	Sc	45	355331.600	355331.600				ug/L
|	Ti	49	15735.997	0.043	**96.407714**	4.02	4.2	ug/L
|	Co	59	304485.779	0.857	**94.776395**	4.44	4.7	ug/L
|	Ni	60	66578.854	0.187	**94.692843**	4.01	4.2	ug/L
|	Ni	62	10159.612	0.028	**95.544592**	3.78	4.0	ug/L
|	Cu	63	156982.198	0.439	**94.849605**	2.32	2.4	ug/L
|	Cu	65	72621.475	0.204	**94.680115**	1.46	1.5	ug/L
|	Zn	66	45024.180	0.126	**94.705867**	2.19	2.3	ug/L
|	Zn	67	10418.465	0.021	**92.533392**	6.14	6.6	ug/L
|	Zn	68	31006.960	0.087	**94.963081**	3.11	3.3	ug/L
|	V	51	239076.605	0.693	**97.422282**	1.26	1.3	ug/L
|	Cr	52	220744.577	0.610	**95.352155**	3.54	3.7	ug/L
|	Cr	53	50200.067	0.080	**94.430720**	7.57	8.0	ug/L
|	Mn	55	396123.174	1.112	**94.166045**	5.08	5.4	ug/L
|	Fe	54	948920.206	2.620	**4927.872766**	242.56	4.9	ug/L
⌊	Fe	57	420955.305	1.176	**4891.599633**	231.07	4.7	ug/L
⌈	As	75	31435.899	0.074	**95.484706**	1.24	1.3	ug/L
|	Se	77	15735.333	0.032	**479.913663**	10.37	2.2	ug/L
|	Se	82	14147.120	0.033	**484.316289**	12.82	2.6	ug/L
|	Sr	88	376817.679	0.891	**96.334142**	2.77	2.9	ug/L
| >	Y	89	422787.604	422787.604				ug/L
|	Mo	95	49401.948	0.117	**94.689148**	1.26	1.3	ug/L
|	Mo	97	31629.656	0.075	**95.367324**	1.84	1.9	ug/L
⌊	Mo	98	80579.118	0.190	**94.174629**	1.05	1.1	ug/L
⌈	Ag	107	140332.582	0.639	**92.616454**	2.22	2.4	ug/L
|	Ag	109	134060.086	0.610	**93.225655**	2.04	2.2	ug/L
|	Cd	111	34766.426	0.158	**96.896553**	2.48	2.6	ug/L
|	Cd	114	78458.351	0.357	**96.194849**	3.06	3.2	ug/L

|>	In	115	219799.716	219799.716				ug/L
|	Sn	120	141276.427	0.633	**95.392392**	2.15	2.3	ug/L
|	Sb	121	113724.915	0.517	**95.162706**	1.86	2.0	ug/L
|	Sb	123	87052.907	0.396	**95.547332**	2.11	2.2	ug/L
⌈	Ba	135	25861.391	0.139	**92.003255**	2.80	3.0	ug/L
|	Ba	137	44421.635	0.239	**93.074234**	2.59	2.8	ug/L
|	Tb	159	191008.628	0.010				ug/L
|>	Ho	165	185783.768	185783.768				ug/L
|	Tl	203	56432.602	0.304	**97.039826**	3.29	3.4	ug/L
|	Tl	205	135758.212	0.731	**96.050771**	3.55	3.7	ug/L
⌊	Pb	208	188231.681	1.013	**96.226082**	2.99	3.1	ug/L
	Kr	83	41.600	6.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	94.843		
Be	9	95.498		
B	11	92.184		
Na	23	94.051		
Mg	24	96.952		
Al	27	98.294		
K	39	98.481		
Ca	43	96.416		
Sc	45		94.332	
Ti	49	96.408		
Co	59	94.776		
Ni	60	94.693		
Ni	62	95.545		
Cu	63	94.850		
Cu	65	94.680		
Zn	66	94.706		
Zn	67	92.533		
Zn	68	94.963		
V	51	97.422		
Cr	52	95.352		
Cr	53	94.431		
Mn	55	94.166		
Fe	54	98.557		
Fe	57	97.832		
As	75	95.485		
Se	77	95.983		
Se	82	96.863		
Sr	88	96.334		
Y	89		92.979	
Mo	95	94.689		
Mo	97	95.367		
Mo	98	94.175		
Ag	107	92.616		
Ag	109	93.226		
Cd	111	96.897		
Cd	114	96.195		
In	115		91.408	
Sn	120	95.392		
Sb	121	95.163		

Sb	123	95.547	
Ba	135	92.003	
Ba	137	93.074	
Tb	159		
Ho	165		92.705
Tl	203	97.040	
Tl	205	96.051	
Pb	208	96.226	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Thursday, February 24, 2011 09:38:56
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 3.008
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	33657.518	0.004				ug/L
	Li	7	2515.555	0.001	**1.731066**	0.11	6.4	ug/L
	Be	9	6.000	0.000	**1.131042**	0.01	0.8	ug/L
	B	11	1195.384	-0.000	**-2.053580**	0.50	24.3	ug/L
	Na	23	15041.255	-0.002	**4.689527**	0.45	9.6	ug/L
	Mg	24	466.675	0.000	**-3.735547**	0.23	6.2	ug/L
	Al	27	1376.734	-0.001	**2.153299**	0.14	6.6	ug/L
	K	39	58653.550	0.011	**-1.008431**	1.54	152.9	ug/L
	Ca	43	220.002	0.000	**-8.733877**	3.57	40.9	ug/L
>	Sc	45	350371.740	350371.740				ug/L
	Ti	49	490.675	-0.000	**0.914877**	0.18	19.4	ug/L
	Co	59	313.337	0.000	**-0.035894**	0.02	47.8	ug/L
	Ni	60	76.000	-0.000	**-0.033514**	0.04	106.1	ug/L
	Ni	62	82.667	0.000	**-0.047037**	0.14	306.3	ug/L
	Cu	63	400.006	-0.002	**-0.512036**	0.01	2.5	ug/L
	Cu	65	106.667	-0.000	**-0.531114**	0.04	8.4	ug/L
	Zn	66	142.667	-0.000	**-0.559970**	0.06	11.6	ug/L
	Zn	67	3128.343	0.001	**-5.093271**	3.22	63.1	ug/L
	Zn	68	244.002	-0.000	**-0.537465**	0.09	16.0	ug/L
	V	51	-6789.393	0.001	**0.691399**	0.35	50.6	ug/L
	Cr	52	3992.558	0.000	**0.392901**	0.07	17.0	ug/L
	Cr	53	22736.763	0.004	**-0.555639**	3.83	689.8	ug/L
	Mn	55	1398.735	0.000	**0.609438**	0.01	1.2	ug/L
	Fe	54	17675.042	-0.002	**-21.738840**	0.54	2.5	ug/L
	Fe	57	3356.394	0.000	**-13.739654**	0.85	6.2	ug/L
	As	75	204.038	-0.000	**-0.117067**	0.33	283.4	ug/L
	Se	77	2210.171	0.000	**-7.587248**	3.13	41.3	ug/L
	Se	82	0.150	0.000	**-2.688805**	0.11	4.2	ug/L
	Sr	88	264.669	-0.000	**-0.545675**	0.01	1.4	ug/L
>	Y	89	432808.914	432808.914				ug/L
	Mo	95	76.667	0.000	**-0.024331**	0.01	39.0	ug/L
	Mo	97	59.333	0.000	**0.342994**	0.02	6.2	ug/L
	Mo	98	137.261	0.000	**0.427228**	0.03	6.5	ug/L
	Ag	107	15.333	0.000	**-0.068432**	0.00	0.8	ug/L
	Ag	109	6.000	0.000	**-0.223826**	0.00	0.6	ug/L
	Cd	111	2.167	-0.000	**-0.015355**	0.00	6.2	ug/L
	Cd	114	5.784	-0.000	**0.360072**	0.01	2.1	ug/L

|>	In	115	224984.641	224984.641				ug/L
|	Sn	120	2540.716	0.001	**0.533999**	0.15	27.7	ug/L
|	Sb	121	604.014	0.002	**0.999321**	0.17	17.3	ug/L
\L	Sb	123	461.579	0.002	**0.772457**	0.15	19.4	ug/L
⌈	Ba	135	7.333	-0.000	**0.482509**	0.02	3.7	ug/L
|	Ba	137	17.333	-0.000	**0.580688**	0.01	1.5	ug/L
|	Tb	159	187181.671	0.002				ug/L
|>	Ho	165	183558.435	183558.435				ug/L
|	Tl	203	26.667	0.000	**0.363827**	0.00	1.1	ug/L
|	Tl	205	67.334	0.000	**0.455308**	0.02	4.4	ug/L
\L	Pb	208	30.000	-0.000	**0.739505**	0.00	0.6	ug/L
	Kr	83	31.867	-3.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.015	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		95.183	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		93.564	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	91.594
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Thursday, February 24, 2011 09:44:17
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\ICSA.009
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30234.361	0.000				ug/L
|	Li	7	2416.871	0.001	**1.802927**	0.08	4.2	ug/L
|	Be	9	6.000	0.000	**1.132832**	0.02	1.5	ug/L
|	B	11	1193.383	-0.000	**-1.778307**	0.10	5.8	ug/L
|	Na	23	74385519.313	226.107	**90480.488489**	2795.43	3.1	ug/L
|	Mg	24	45138624.931	137.246	**90869.982038**	4081.08	4.5	ug/L
|	Al	27	129616410.625	394.118	**93702.024558**	4137.12	4.4	ug/L
|	K	39	96928241.241	294.512	**93373.997335**	2215.74	2.4	ug/L
|	Ca	43	415728.600	1.263	**90270.750370**	3036.60	3.4	ug/L
| >	Sc	45	328992.853	328992.853				ug/L
|	Ti	49	281175.658	0.853	**1900.105596**	75.22	4.0	ug/L
|	Co	59	5402.355	0.016	**1.683162**	0.06	3.4	ug/L
|	Ni	60	1984.138	0.006	**2.908806**	0.13	4.6	ug/L
|	Ni	62	1212.052	0.003	**11.568951**	1.28	11.1	ug/L
|	Cu	63	3673.139	0.008	**1.657576**	0.10	5.9	ug/L
|	Cu	65	1992.139	0.005	**2.151104**	0.13	6.3	ug/L
|	Zn	66	1577.421	0.004	**2.748359**	0.24	8.9	ug/L
|	Zn	67	3068.331	0.001	**-3.219804**	3.58	111.2	ug/L
|	Zn	68	602.679	0.001	**0.712861**	0.19	26.9	ug/L
|	V	51	-7515.345	-0.003	**0.209162**	0.44	208.9	ug/L
|	Cr	52	7220.491	0.011	**2.034620**	0.02	1.2	ug/L
|	Cr	53	20576.820	0.001	**-3.510462**	1.98	56.4	ug/L
|	Mn	55	32667.317	0.095	**8.631778**	0.24	2.8	ug/L
|	Fe	54	17953733.280	54.536	**102926.811810**	3656.48	3.6	ug/L
⌊	Fe	57	8254932.046	25.088	**104641.784861**	2791.80	2.7	ug/L
⌜	As	75	258.282	0.000	**0.068396**	0.11	166.3	ug/L
|	Se	77	2602.237	0.001	**9.478131**	3.04	32.0	ug/L
|	Se	82	-11.095	-0.000	**-3.078218**	0.05	1.5	ug/L
|	Sr	88	26980.802	0.064	**6.413519**	0.13	2.0	ug/L
| >	Y	89	417665.336	417665.336				ug/L
|	Mo	95	989260.053	2.369	**1923.019622**	32.94	1.7	ug/L
|	Mo	97	626046.285	1.499	**1908.280627**	43.39	2.3	ug/L
⌊	Mo	98	1585145.153	3.796	**1870.829991**	38.88	2.1	ug/L
⌜	Ag	107	226.668	0.001	**0.077804**	0.01	15.7	ug/L
|	Ag	109	168.668	0.001	**-0.105210**	0.01	8.2	ug/L
|	Cd	111	880.694	0.004	**2.539732**	0.10	3.8	ug/L
|	Cd	114	1522.466	0.007	**2.292532**	0.07	3.2	ug/L

|>	In	115	210670.853	210670.853				ug/L
|	Sn	120	2928.190	0.004	**0.925267**	0.05	5.8	ug/L
|	Sb	121	376.672	0.002	**0.832753**	0.04	5.0	ug/L
|	Sb	123	338.913	0.001	**0.663634**	0.02	3.7	ug/L
⌈	Ba	135	1337.396	0.007	**4.842984**	0.28	5.8	ug/L
|	Ba	137	2400.869	0.012	**5.179395**	0.10	1.9	ug/L
|	Tb	159	202817.618	-0.005				ug/L
|>	Ho	165	200382.768	200382.768				ug/L
|	Tl	203	146.667	0.001	**0.550349**	0.01	2.5	ug/L
|	Tl	205	397.339	0.002	**0.666670**	0.01	1.4	ug/L
⌊	Pb	208	17156.002	0.085	**8.794760**	0.16	1.9	ug/L
	Kr	83	46.200	10.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.340	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		91.852	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		87.611	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	99.989
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Thursday, February 24, 2011 09:46:58
Sample Type: Spike - 2 of 14
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\ICSAB.010
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30346.305	0.001				ug/L
|	Li	7	2428.874	0.001	**1.827461**	0.18	10.1	ug/L
|	Be	9	7.333	0.000	**1.139559**	0.01	0.5	ug/L
|	B	11	1326.062	0.000	**-1.259037**	0.07	5.8	ug/L
|	Na	23	72844887.799	222.022	**88845.944775**	1624.54	1.8	ug/L
|	Mg	24	44740844.350	136.393	**90304.860530**	1432.12	1.6	ug/L
|	Al	27	126226201.595	384.819	**91491.201084**	850.65	0.9	ug/L
|	K	39	96335731.525	293.540	**93065.998487**	663.15	0.7	ug/L
|	Ca	43	410841.664	1.252	**89463.955457**	2457.08	2.7	ug/L
| >	Sc	45	328016.839	328016.839				ug/L
|	Ti	49	279868.194	0.852	**1896.528574**	48.22	2.5	ug/L
|	Co	59	236957.394	0.722	**79.833183**	1.80	2.3	ug/L
|	Ni	60	49957.200	0.152	**76.901652**	0.84	1.1	ug/L
|	Ni	62	8503.864	0.026	**86.495426**	0.58	0.7	ug/L
|	Cu	63	116523.376	0.352	**76.112153**	1.75	2.3	ug/L
|	Cu	65	54107.678	0.164	**76.272361**	2.53	3.3	ug/L
|	Zn	66	15776.708	0.047	**35.397957**	0.34	1.0	ug/L
|	Zn	67	5971.916	0.010	**39.262796**	3.24	8.3	ug/L
|	Zn	68	11750.165	0.035	**38.203595**	1.11	2.9	ug/L
|	V	51	175441.861	0.555	**78.136029**	2.34	3.0	ug/L
|	Cr	52	165664.708	0.494	**77.220745**	2.23	2.9	ug/L
|	Cr	53	41059.608	0.064	**74.311553**	3.94	5.3	ug/L
|	Mn	55	330996.049	1.005	**85.201496**	1.00	1.2	ug/L
|	Fe	54	17975580.790	54.753	**103336.765892**	1987.61	1.9	ug/L
⌊	Fe	57	8202184.256	24.997	**104264.814618**	1397.89	1.3	ug/L
⌈	As	75	13202.236	0.032	**40.955828**	1.70	4.2	ug/L
|	Se	77	3553.776	0.004	**46.481228**	4.59	9.9	ug/L
|	Se	82	1061.017	0.003	**34.994175**	1.17	3.3	ug/L
|	Sr	88	27801.705	0.067	**6.766237**	0.24	3.5	ug/L
| >	Y	89	409863.306	409863.306				ug/L
|	Mo	95	1001392.407	2.444	**1983.540112**	51.29	2.6	ug/L
|	Mo	97	635349.199	1.550	**1973.134701**	37.61	1.9	ug/L
⌊	Mo	98	1615048.195	3.941	**1942.017170**	22.06	1.1	ug/L
⌈	Ag	107	25564.191	0.123	**17.811189**	0.54	3.0	ug/L
|	Ag	109	24499.663	0.118	**17.862425**	0.40	2.3	ug/L
|	Cd	111	13869.229	0.067	**40.937161**	0.85	2.1	ug/L
|	Cd	114	31094.328	0.150	**40.587793**	1.03	2.5	ug/L

|>	In	115	207468.463	207468.463				ug/L
|	Sn	120	2516.787	0.002	**0.659758**	0.03	5.0	ug/L
|	Sb	121	319.337	0.001	**0.786976**	0.04	5.2	ug/L
_	Sb	123	249.662	0.001	**0.565968**	0.02	4.0	ug/L
⌈	Ba	135	1329.395	0.007	**4.853686**	0.12	2.5	ug/L
|	Ba	137	2236.175	0.011	**4.897768**	0.19	3.8	ug/L
|	Tb	159	200791.951	-0.008				ug/L
|>	Ho	165	198833.884	198833.884				ug/L
|	Tl	203	172.668	0.001	**0.593970**	0.01	1.8	ug/L
|	Tl	205	360.005	0.002	**0.644218**	0.04	5.9	ug/L
_	Pb	208	16822.570	0.084	**8.700708**	0.29	3.4	ug/L
	Kr	83	45.867	10.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.081	
Ti	49			
Co	59			97.688
Ni	60			92.491
Ni	62			93.658
Cu	63			93.068
Cu	65			92.652
Zn	66			81.624
Zn	67			106.206
Zn	68			93.727
V	51			97.409
Cr	52			93.983
Cr	53			97.278
Mn	55			95.712
Fe	54			
Fe	57			
As	75			102.219
Se	77			92.508
Se	82			95.181
Sr	88			
Y	89		90.136	
Mo	95			
Mo	97			
Mo	98			
Ag	107			88.667
Ag	109			89.838
Cd	111			95.994
Cd	114			95.738
In	115		86.280	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	99.217
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: MBLK-98096
Sample Date/Time: Thursday, February 24, 2011 09:58:34
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\MBLK-98096.011
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	35380.945	0.013				ug/L
|	Li	7	2758.933	0.001	**2.160011**	0.11	5.3	ug/L
|	Be	9	1.333	-0.000	**1.109765**	0.01	0.5	ug/L
|	B	11	2704.923	0.004	**3.708129**	0.42	11.4	ug/L
|	Na	23	27159.169	0.035	**19.690221**	1.42	7.2	ug/L
|	Mg	24	2633.607	0.006	**0.540281**	2.23	412.9	ug/L
|	Al	27	53025.596	0.152	**38.541697**	12.46	32.3	ug/L
|	K	39	63608.161	0.032	**5.644205**	3.17	56.2	ug/L
|	Ca	43	378.672	0.001	**26.534961**	4.45	16.8	ug/L
| >	Sc	45	337701.384	337701.384				ug/L
|	Ti	49	1129.379	0.002	**5.236870**	1.52	29.1	ug/L
|	Co	59	242.669	-0.000	**-0.055362**	0.01	10.7	ug/L
|	Ni	60	270.669	0.001	**0.262448**	0.01	4.4	ug/L
|	Ni	62	94.667	0.000	**0.102277**	0.08	74.0	ug/L
|	Cu	63	366.671	-0.002	**-0.524033**	0.01	1.4	ug/L
|	Cu	65	126.667	-0.000	**-0.498570**	0.00	0.4	ug/L
|	Zn	66	1505.413	0.004	**2.495908**	0.25	9.9	ug/L
|	Zn	67	3487.102	0.002	**1.551532**	8.87	572.0	ug/L
|	Zn	68	1128.045	0.003	**2.379753**	0.29	12.4	ug/L
|	V	51	-7297.168	-0.001	**0.379842**	0.37	96.1	ug/L
|	Cr	52	4687.436	0.003	**0.778985**	0.06	7.4	ug/L
|	Cr	53	26335.626	0.017	**15.685099**	4.90	31.2	ug/L
|	Mn	55	1508.746	0.001	**0.649448**	0.01	1.9	ug/L
|	Fe	54	26980.063	0.028	**33.862513**	2.32	6.9	ug/L
⌊	Fe	57	4334.659	0.004	**-0.166072**	2.67	1606.2	ug/L
⌜	As	75	133.381	-0.000	**-0.306922**	0.20	65.7	ug/L
|	Se	77	2711.591	0.002	**15.748425**	6.06	38.5	ug/L
|	Se	82	-2.863	0.000	**-2.793772**	0.15	5.2	ug/L
|	Sr	88	944.031	0.002	**-0.360523**	0.01	4.0	ug/L
| >	Y	89	408700.292	408700.292				ug/L
|	Mo	95	422.673	0.001	**0.677513**	0.21	31.4	ug/L
|	Mo	97	227.335	0.001	**0.879071**	0.09	10.2	ug/L
⌊	Mo	98	648.609	0.001	**1.057634**	0.19	17.9	ug/L
⌜	Ag	107	5.333	0.000	**-0.074483**	0.00	2.9	ug/L
|	Ag	109	1.333	-0.000	**-0.226872**	0.00	0.4	ug/L
|	Cd	111	3.500	0.000	**-0.010581**	0.00	12.2	ug/L
|	Cd	114	4.565	-0.000	**0.359220**	0.01	2.2	ug/L

|>	In	115	200197.551	200197.551				ug/L
|	Sn	120	2022.700	0.000	**0.356222**	0.07	18.7	ug/L
|	Sb	121	62.000	0.000	**0.562367**	0.01	2.3	ug/L
L	Sb	123	76.909	-0.000	**0.369165**	0.01	3.5	ug/L
⌈	Ba	135	80.667	0.000	**0.761065**	0.08	10.2	ug/L
|	Ba	137	144.667	0.001	**0.864112**	0.02	2.5	ug/L
|	Tb	159	174523.765	-0.019				ug/L
|>	Ho	165	174904.954	174904.954				ug/L
|	Tl	203	4.667	0.000	**0.326037**	0.00	0.6	ug/L
|	Tl	205	5.333	0.000	**0.411338**	0.00	0.6	ug/L
L	Pb	208	73.333	0.000	**0.763578**	0.00	0.3	ug/L
	Kr	83	25.067	-10.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.652	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		89.881	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		83.256	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	87.276
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: LCS-98096
Sample Date/Time: Thursday, February 24, 2011 10:01:15
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\LCS-98096.012
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	31531.281	0.006				ug/L
|	Li	7	87273.779	0.263	**115.492282**	1.36	1.2	ug/L
|	Be	9	20688.975	0.064	**104.493437**	2.64	2.5	ug/L
|	B	11	29376.845	0.087	**107.253855**	2.09	2.0	ug/L
|	Na	23	4647054.926	14.308	**5730.791246**	159.64	2.8	ug/L
|	Mg	24	2753387.456	8.503	**5626.139492**	97.27	1.7	ug/L
|	Al	27	7960314.327	24.580	**5846.131544**	53.15	0.9	ug/L
|	K	39	5814662.873	17.805	**5640.623600**	218.56	3.9	ug/L
|	Ca	43	23162.768	0.071	**5059.126341**	136.53	2.7	ug/L
| >	Sc	45	323792.428	323792.428				ug/L
|	Ti	49	15653.912	0.047	**105.392658**	4.43	4.2	ug/L
|	Co	59	313833.432	0.969	**107.161853**	2.97	2.8	ug/L
|	Ni	60	66526.571	0.205	**103.798322**	2.30	2.2	ug/L
|	Ni	62	10099.569	0.031	**104.245219**	1.50	1.4	ug/L
|	Cu	63	155350.168	0.477	**103.059277**	1.52	1.5	ug/L
|	Cu	65	71452.969	0.220	**102.273939**	2.86	2.8	ug/L
|	Zn	66	42989.958	0.132	**99.258228**	3.58	3.6	ug/L
|	Zn	67	10933.517	0.025	**113.728120**	4.63	4.1	ug/L
|	Zn	68	29879.236	0.092	**100.470745**	3.61	3.6	ug/L
|	V	51	226283.078	0.719	**101.044407**	1.40	1.4	ug/L
|	Cr	52	219086.158	0.666	**103.922380**	2.40	2.3	ug/L
|	Cr	53	55345.015	0.110	**131.150381**	3.83	2.9	ug/L
|	Mn	55	406318.145	1.251	**105.890858**	2.58	2.4	ug/L
|	Fe	54	959803.154	2.912	**5479.072933**	122.40	2.2	ug/L
⌊	Fe	57	428576.979	1.315	**5468.105083**	159.30	2.9	ug/L
⌜	As	75	29560.033	0.075	**96.656985**	4.09	4.2	ug/L
|	Se	77	14561.419	0.032	**477.799858**	22.11	4.6	ug/L
|	Se	82	12638.250	0.032	**465.610723**	19.71	4.2	ug/L
|	Sr	88	376390.304	0.958	**103.602992**	4.06	3.9	ug/L
| >	Y	89	393007.712	393007.712				ug/L
|	Mo	95	47348.375	0.120	**97.704298**	4.89	5.0	ug/L
|	Mo	97	29577.259	0.075	**95.993730**	3.77	3.9	ug/L
⌊	Mo	98	76701.177	0.195	**96.488527**	3.78	3.9	ug/L
⌜	Ag	107	129454.663	0.666	**96.613955**	1.62	1.7	ug/L
|	Ag	109	123197.617	0.634	**96.884388**	0.18	0.2	ug/L
|	Cd	111	31351.365	0.161	**98.807718**	0.47	0.5	ug/L
|	Cd	114	70326.161	0.362	**97.480932**	0.88	0.9	ug/L

|>	In	115	194317.374	194317.374				ug/L
|	Sn	120	130929.775	0.664	**100.027657**	0.39	0.4	ug/L
|	Sb	121	101600.024	0.523	**96.136351**	0.34	0.4	ug/L
|	Sb	123	77323.235	0.397	**95.971949**	1.19	1.2	ug/L
⌈	Ba	135	23292.985	0.135	**89.239928**	4.42	5.0	ug/L
|	Ba	137	39660.340	0.230	**89.506283**	4.53	5.1	ug/L
|	Tb	159	173775.932	-0.011				ug/L
|>	Ho	165	172606.155	172606.155				ug/L
|	Tl	203	57526.949	0.333	**106.463764**	4.04	3.8	ug/L
|	Tl	205	138005.603	0.800	**105.081337**	4.53	4.3	ug/L
⌊	Pb	208	191933.781	1.112	**105.545745**	2.68	2.5	ug/L
	Kr	83	29.667	-5.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.959	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		86.430	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.810	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	86.129
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-11A
Sample Date/Time: Thursday, February 24, 2011 10:39:03
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-11A.013
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32894.433	0.013				ug/L
|	Li	7	43322.275	0.132	**58.548699**	1.20	2.0	ug/L
|	Be	9	2.667	-0.000	**1.117197**	0.02	1.4	ug/L
|	B	11	14989.198	0.044	**53.545258**	1.99	3.7	ug/L
|	Na	23	S	S	**S**	S	S	ug/L
|	Mg	24	33299917.175	106.271	**70360.689941**	4876.72	6.9	ug/L
|	Al	27	32834.357	0.100	**26.123901**	0.11	0.4	ug/L
|	K	39	2294652.584	7.165	**2267.236334**	32.96	1.5	ug/L
|	Ca	43	338717.198	1.080	**77169.226756**	2484.85	3.2	ug/L
| >	Sc	45	313431.511	313431.511				ug/L
|	Ti	49	854.026	0.001	**3.864514**	0.73	18.9	ug/L
|	Co	59	669.349	0.001	**0.101603**	0.03	26.7	ug/L
|	Ni	60	1195.383	0.004	**1.786191**	0.03	1.9	ug/L
|	Ni	62	106.667	0.000	**0.305295**	0.22	73.3	ug/L
|	Cu	63	4808.810	0.012	**2.560483**	0.10	4.0	ug/L
|	Cu	65	428.006	0.001	**-0.036656**	0.04	121.9	ug/L
|	Zn	66	1878.791	0.005	**3.652590**	0.31	8.6	ug/L
|	Zn	67	3779.171	0.004	**9.878683**	6.93	70.1	ug/L
|	Zn	68	5192.946	0.016	**16.963778**	1.02	6.0	ug/L
|	V	51	-1950.576	0.014	**2.530514**	1.21	48.0	ug/L
|	Cr	52	4682.769	0.004	**0.944828**	0.14	15.2	ug/L
|	Cr	53	23085.352	0.012	**10.323027**	6.17	59.8	ug/L
|	Mn	55	9119.580	0.025	**2.721846**	0.08	2.9	ug/L
|	Fe	54	26272.879	0.032	**41.266808**	3.18	7.7	ug/L
⌊	Fe	57	17737.676	0.047	**182.353273**	4.04	2.2	ug/L
⌈	As	75	602.438	0.001	**1.191199**	0.58	48.7	ug/L
|	Se	77	3611.790	0.004	**50.933628**	2.60	5.1	ug/L
|	Se	82	63.886	0.000	**-0.383924**	0.11	28.5	ug/L
|	Sr	88	2628593.836	6.521	**708.620075**	14.21	2.0	ug/L
| >	Y	89	402982.415	402982.415				ug/L
|	Mo	95	836.691	0.002	**1.517328**	0.09	5.7	ug/L
|	Mo	97	498.009	0.001	**1.742012**	0.08	4.5	ug/L
⌊	Mo	98	1229.688	0.003	**1.773856**	0.03	1.9	ug/L
⌈	Ag	107	81.334	0.000	**-0.016385**	0.03	171.6	ug/L
|	Ag	109	72.000	0.000	**-0.170103**	0.03	17.8	ug/L
|	Cd	111	19.167	0.000	**0.039899**	0.01	21.1	ug/L
|	Cd	114	39.765	0.000	**0.408826**	0.02	3.7	ug/L

|>	In	115	191847.212	191847.212				ug/L
|	Sn	120	2080.505	0.001	**0.465700**	0.06	12.4	ug/L
|	Sb	121	305.337	0.001	**0.797410**	0.11	14.0	ug/L
_	Sb	123	279.564	0.001	**0.628342**	0.11	17.6	ug/L
⌈	Ba	135	261188.617	1.527	**1004.369681**	9.59	1.0	ug/L
|	Ba	137	447725.036	2.618	**1013.268741**	4.18	0.4	ug/L
|	Tb	159	174075.789	-0.000				ug/L
|>	Ho	165	171044.663	171044.663				ug/L
|	Tl	203	44.000	0.000	**0.399299**	0.03	6.3	ug/L
|	Tl	205	87.334	0.000	**0.473866**	0.04	8.8	ug/L
_	Pb	208	228.667	0.001	**0.850024**	0.01	1.0	ug/L
	Kr	83	31.600	-4.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		83.209	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		88.623	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		79.783	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	85.350
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-11ASD
Sample Date/Time: Thursday, February 24, 2011 10:41:44
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-11ASD.014
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	34169.153	0.015				ug/L
|	Li	7	11465.266	0.029	**70.653094**	1.03	1.5	ug/L
|	Be	9	4.000	0.000	**5.618531**	0.10	1.8	ug/L
|	B	11	3645.132	0.007	**39.580986**	1.12	2.8	ug/L
|	Na	23	79364283.301	247.673	**495550.023152**	24946.47	5.0	ug/L
|	Mg	24	7202077.863	22.476	**74389.355842**	3832.15	5.2	ug/L
|	Al	27	8157.329	0.021	**36.346470**	0.27	0.7	ug/L
|	K	39	536671.605	1.519	**2384.682177**	115.21	4.8	ug/L
|	Ca	43	76177.245	0.237	**84673.492689**	1343.04	1.6	ug/L
| >	Sc	45	320475.381	320475.381				ug/L
|	Ti	49	502.676	-0.000	**6.449155**	1.22	19.0	ug/L
|	Co	59	374.672	0.000	**-0.027343**	0.06	236.3	ug/L
|	Ni	60	347.338	0.001	**2.025919**	0.18	8.8	ug/L
|	Ni	62	84.000	0.000	**0.202182**	1.56	771.1	ug/L
|	Cu	63	1259.389	0.001	**0.456535**	0.02	4.3	ug/L
|	Cu	65	142.667	-0.000	**-2.329923**	0.08	3.6	ug/L
|	Zn	66	1094.709	0.003	**8.550883**	0.93	10.8	ug/L
|	Zn	67	3165.684	0.002	**-2.882289**	3.24	112.3	ug/L
|	Zn	68	1852.121	0.005	**25.349353**	2.70	10.7	ug/L
|	V	51	-5779.315	0.002	**4.394433**	2.02	46.0	ug/L
|	Cr	52	3871.191	0.001	**2.495749**	0.14	5.6	ug/L
|	Cr	53	21737.870	0.007	**15.437795**	16.86	109.2	ug/L
|	Mn	55	2886.959	0.005	**5.159190**	0.21	4.1	ug/L
|	Fe	54	18691.100	0.006	**-34.377535**	10.26	29.9	ug/L
⌞	Fe	57	6734.922	0.012	**169.742643**	12.22	7.2	ug/L
⌜	As	75	295.395	0.000	**1.070892**	0.65	61.0	ug/L
|	Se	77	2442.209	0.001	**33.618577**	12.53	37.3	ug/L
|	Se	82	6.776	0.000	**-12.244629**	1.65	13.4	ug/L
|	Sr	88	534294.337	1.324	**716.975545**	16.89	2.4	ug/L
| >	Y	89	403541.767	403541.767				ug/L
|	Mo	95	174.668	0.000	**0.915881**	0.19	21.3	ug/L
|	Mo	97	112.667	0.000	**2.621037**	0.14	5.4	ug/L
⌞	Mo	98	284.003	0.001	**3.085869**	0.07	2.4	ug/L
⌜	Ag	107	14.667	0.000	**-0.338940**	0.00	1.0	ug/L
|	Ag	109	5.333	0.000	**-1.119445**	0.02	1.4	ug/L
|	Cd	111	4.500	0.000	**-0.037954**	0.02	54.7	ug/L
|	Cd	114	16.700	0.000	**1.876739**	0.06	3.0	ug/L

|>	In	115	202058.542	202058.542				ug/L
|	Sn	120	2209.993	0.001	**2.401849**	0.03	1.4	ug/L
|	Sb	121	80.000	0.000	**2.890815**	0.12	4.0	ug/L
\L	Sb	123	89.571	0.000	**1.915336**	0.05	2.7	ug/L
|	Ba	135	55341.031	0.313	**1032.450820**	20.62	2.0	ug/L
|	Ba	137	94633.188	0.536	**1039.323733**	16.70	1.6	ug/L
|	Tb	159	177030.204	-0.015				ug/L
|>	Ho	165	176582.018	176582.018				ug/L
|	Tl	203	5.333	0.000	**1.635927**	0.01	0.6	ug/L
|	Tl	205	16.000	0.000	**2.096063**	0.05	2.5	ug/L
\L	Pb	208	64.667	0.000	**3.793049**	0.01	0.2	ug/L
	Kr	83	28.600	-7.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.079	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		88.746	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		84.030	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.113
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-11AMS
Sample Date/Time: Thursday, February 24, 2011 10:44:58
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-11AMS.015
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30495.539	0.007				ug/L
|	Li	7	111986.021	0.355	**155.636949**	6.32	4.1	ug/L
|	Be	9	17959.289	0.058	**95.068602**	4.38	4.6	ug/L
|	B	11	36141.698	0.113	**139.999344**	7.83	5.6	ug/L
|	Na	23	344579211.157	1113.659	**445627.802824**	35578.01	8.0	ug/L
|	Mg	24	33830291.282	109.366	**72410.131467**	1563.86	2.2	ug/L
|	Al	27	7478985.540	24.165	**5747.459743**	157.04	2.7	ug/L
|	K	39	7515813.816	24.139	**7648.872714**	88.47	1.2	ug/L
|	Ca	43	334137.877	1.080	**77169.825245**	3609.46	4.7	ug/L
| >	Sc	45	309395.610	309395.610				ug/L
|	Ti	49	13300.861	0.041	**93.491020**	4.14	4.4	ug/L
|	Co	59	257225.856	0.831	**91.936466**	4.20	4.6	ug/L
|	Ni	60	56180.938	0.181	**91.750368**	3.14	3.4	ug/L
|	Ni	62	8491.857	0.027	**91.649445**	2.91	3.2	ug/L
|	Cu	63	128119.558	0.411	**88.891590**	4.05	4.6	ug/L
|	Cu	65	57262.549	0.184	**85.691558**	2.71	3.2	ug/L
|	Zn	66	35593.655	0.114	**85.929645**	4.47	5.2	ug/L
|	Zn	67	10064.878	0.024	**107.805293**	1.36	1.3	ug/L
|	Zn	68	28472.355	0.091	**100.234520**	4.13	4.1	ug/L
|	V	51	201069.901	0.670	**94.232899**	2.84	3.0	ug/L
|	Cr	52	183888.040	0.583	**91.135045**	2.27	2.5	ug/L
|	Cr	53	47450.678	0.092	**109.347724**	2.00	1.8	ug/L
|	Mn	55	342284.750	1.103	**93.413321**	3.62	3.9	ug/L
|	Fe	54	796179.328	2.522	**4741.741860**	100.57	2.1	ug/L
⌞	Fe	57	370026.559	1.187	**4937.155201**	156.37	3.2	ug/L
⌜	As	75	26367.955	0.067	**86.801498**	2.44	2.8	ug/L
|	Se	77	13537.745	0.030	**442.536631**	21.27	4.8	ug/L
|	Se	82	10917.257	0.028	**405.137043**	17.17	4.2	ug/L
|	Sr	88	2831646.861	7.268	**789.852282**	31.57	4.0	ug/L
| >	Y	89	389937.224	389937.224				ug/L
|	Mo	95	45251.559	0.116	**94.099523**	2.69	2.9	ug/L
|	Mo	97	28553.175	0.073	**93.415778**	2.94	3.1	ug/L
⌞	Mo	98	73540.745	0.189	**93.278128**	3.62	3.9	ug/L
⌜	Ag	107	111462.499	0.586	**84.951480**	3.16	3.7	ug/L
|	Ag	109	105215.381	0.553	**84.477054**	2.94	3.5	ug/L
|	Cd	111	27626.861	0.145	**88.936494**	3.97	4.5	ug/L
|	Cd	114	62885.102	0.330	**89.059144**	3.29	3.7	ug/L

|>	In	115	190391.708	190391.708				ug/L
|	Sn	120	120102.611	0.622	**93.660525**	4.54	4.8	ug/L
|	Sb	121	95398.170	0.501	**92.220638**	3.67	4.0	ug/L
L	Sb	123	72984.731	0.383	**92.538549**	3.72	4.0	ug/L
⌈	Ba	135	274416.906	1.549	**1019.228854**	26.58	2.6	ug/L
|	Ba	137	468055.954	2.643	**1023.012451**	20.28	2.0	ug/L
|	Tb	159	178006.819	-0.013				ug/L
|>	Ho	165	177130.144	177130.144				ug/L
|	Tl	203	51809.781	0.293	**93.432849**	1.43	1.5	ug/L
|	Tl	205	125000.554	0.706	**92.758071**	2.33	2.5	ug/L
L	Pb	208	169901.760	0.959	**91.133980**	2.64	2.9	ug/L
	Kr	83	34.933	-0.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		82.137	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		85.754	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		79.178	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.387
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-11AMSD
Sample Date/Time: Thursday, February 24, 2011 10:47:38
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-11AMSD.016
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	29888.612	0.009				ug/L
|	Li	7	119614.715	0.397	**173.489730**	3.83	2.2	ug/L
|	Be	9	18676.868	0.063	**102.985004**	1.59	1.5	ug/L
|	B	11	38185.636	0.125	**154.841175**	3.20	2.1	ug/L
|	Na	23	S	S	**S**	S	S	ug/L
|	Mg	24	35686600.658	120.345	**79679.079420**	3526.69	4.4	ug/L
|	Al	27	7903146.663	26.645	**6337.025629**	207.97	3.3	ug/L
|	K	39	7764952.248	26.026	**8247.369732**	320.23	3.9	ug/L
|	Ca	43	345891.786	1.166	**83295.257044**	2592.45	3.1	ug/L
| >	Sc	45	296636.061	296636.061				ug/L
|	Ti	49	14166.355	0.046	**104.083192**	2.57	2.5	ug/L
|	Co	59	274367.617	0.924	**102.260205**	2.69	2.6	ug/L
|	Ni	60	56616.024	0.191	**96.429520**	3.67	3.8	ug/L
|	Ni	62	8463.842	0.028	**95.319968**	4.65	4.9	ug/L
|	Cu	63	133427.708	0.447	**96.591472**	3.11	3.2	ug/L
|	Cu	65	60211.973	0.202	**94.028098**	2.37	2.5	ug/L
|	Zn	66	37188.352	0.125	**93.683854**	2.83	3.0	ug/L
|	Zn	67	10850.786	0.028	**127.177190**	1.42	1.1	ug/L
|	Zn	68	29273.979	0.098	**107.550959**	3.91	3.6	ug/L
|	V	51	209001.852	0.725	**101.869835**	3.81	3.7	ug/L
|	Cr	52	190893.004	0.633	**98.794670**	4.12	4.2	ug/L
|	Cr	53	50031.472	0.107	**128.370223**	5.69	4.4	ug/L
|	Mn	55	359165.532	1.207	**102.195926**	3.15	3.1	ug/L
|	Fe	54	824353.380	2.728	**5130.211392**	173.88	3.4	ug/L
⌊	Fe	57	388264.296	1.300	**5407.901845**	208.33	3.9	ug/L
⌜	As	75	26144.042	0.067	**86.184003**	1.89	2.2	ug/L
|	Se	77	13858.054	0.031	**455.481859**	10.43	2.3	ug/L
|	Se	82	10802.513	0.028	**401.217506**	5.47	1.4	ug/L
|	Sr	88	2815297.126	7.233	**786.013162**	16.76	2.1	ug/L
| >	Y	89	389216.240	389216.240				ug/L
|	Mo	95	46267.512	0.119	**96.323374**	2.54	2.6	ug/L
|	Mo	97	28852.441	0.074	**94.499899**	0.54	0.6	ug/L
⌊	Mo	98	74296.420	0.191	**94.322310**	0.66	0.7	ug/L
⌜	Ag	107	111558.609	0.593	**86.044283**	0.73	0.8	ug/L
|	Ag	109	105840.057	0.563	**86.000764**	0.99	1.2	ug/L
|	Cd	111	28028.307	0.149	**91.312139**	2.23	2.4	ug/L
|	Cd	114	62533.546	0.333	**89.633711**	1.81	2.0	ug/L

|>	In	115	188010.421	188010.421				ug/L
|	Sn	120	123244.581	0.646	**97.298055**	2.27	2.3	ug/L
|	Sb	121	97596.277	0.519	**95.455415**	0.92	1.0	ug/L
|	Sb	123	74690.871	0.397	**95.831825**	2.16	2.2	ug/L
⌈	Ba	135	279031.234	1.555	**1022.683895**	23.26	2.3	ug/L
|	Ba	137	474985.524	2.647	**1024.576708**	29.40	2.9	ug/L
|	Tb	159	178737.378	-0.022				ug/L
|>	Ho	165	179477.093	179477.093				ug/L
|	Tl	203	53388.271	0.297	**95.017364**	2.71	2.9	ug/L
|	Tl	205	130361.664	0.726	**95.454862**	3.07	3.2	ug/L
⌊	Pb	208	178697.740	0.995	**94.556394**	1.90	2.0	ug/L
	Kr	83	33.600	-2.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		78.750	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		85.596	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		78.188	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	89.558
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-11APDS
Sample Date/Time: Thursday, February 24, 2011 10:50:19
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-11APDS.017
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31842.182	0.010				ug/L
|	Li	7	87465.166	0.271	**595.634697**	28.53	4.8	ug/L
|	Be	9	19530.683	0.062	**507.577066**	21.50	4.2	ug/L
|	B	11	28890.532	0.088	**542.921410**	22.09	4.1	ug/L
|	Na	23	79364283.301	252.130	**504467.701216**	20739.07	4.1	ug/L
|	Mg	24	9378624.284	29.798	**98631.260882**	3386.92	3.4	ug/L
|	Al	27	7560140.680	24.015	**28558.937921**	744.86	2.6	ug/L
|	K	39	5931214.031	18.689	**29604.211416**	874.57	3.0	ug/L
|	Ca	43	91717.522	0.291	**103855.022328**	2816.32	2.7	ug/L
| >	Sc	45	314815.357	314815.357				ug/L
|	Ti	49	14077.600	0.043	**486.604236**	11.76	2.4	ug/L
|	Co	59	275878.784	0.876	**484.436090**	13.89	2.9	ug/L
|	Ni	60	59284.837	0.188	**475.758427**	20.70	4.4	ug/L
|	Ni	62	8742.675	0.028	**463.721630**	17.29	3.7	ug/L
|	Cu	63	139751.276	0.441	**476.632798**	19.92	4.2	ug/L
|	Cu	65	64153.075	0.203	**472.000375**	11.91	2.5	ug/L
|	Zn	66	40449.188	0.128	**480.150803**	10.93	2.3	ug/L
|	Zn	67	10007.507	0.024	**521.422516**	34.73	6.7	ug/L
|	Zn	68	28146.368	0.089	**486.508562**	6.10	1.3	ug/L
|	V	51	213452.862	0.698	**490.722827**	11.07	2.3	ug/L
|	Cr	52	197972.409	0.618	**482.487120**	11.09	2.3	ug/L
|	Cr	53	47158.378	0.089	**524.573940**	16.38	3.1	ug/L
|	Mn	55	367454.478	1.164	**492.684749**	18.91	3.8	ug/L
|	Fe	54	851506.070	2.654	**24951.710501**	979.94	3.9	ug/L
⌊	Fe	57	386197.714	1.218	**25326.925037**	917.83	3.6	ug/L
⌈	As	75	28784.846	0.073	**471.226332**	9.08	1.9	ug/L
|	Se	77	14283.805	0.031	**2339.571503**	40.22	1.7	ug/L
|	Se	82	12424.940	0.032	**2291.974554**	39.81	1.7	ug/L
|	Sr	88	838568.567	2.138	**1159.670134**	23.15	2.0	ug/L
| >	Y	89	392181.698	392181.698				ug/L
|	Mo	95	44501.207	0.113	**459.721741**	4.50	1.0	ug/L
|	Mo	97	27794.351	0.071	**451.765305**	8.02	1.8	ug/L
⌊	Mo	98	71500.225	0.182	**450.510531**	8.48	1.9	ug/L
⌈	Ag	107	118654.727	0.608	**440.847480**	10.52	2.4	ug/L
|	Ag	109	112993.138	0.579	**442.360827**	14.05	3.2	ug/L
|	Cd	111	29857.675	0.153	**468.591424**	17.77	3.8	ug/L
|	Cd	114	67133.648	0.344	**463.501273**	18.29	3.9	ug/L

|>	In	115	195213.643	195213.643				ug/L
|	Sn	120	124088.137	0.626	**471.746235**	21.94	4.7	ug/L
|	Sb	121	98650.937	0.505	**464.884430**	18.42	4.0	ug/L
\L	Sb	123	75326.753	0.386	**465.555356**	17.42	3.7	ug/L
|	Ba	135	73542.871	0.416	**1369.919129**	23.21	1.7	ug/L
|	Ba	137	125245.574	0.708	**1373.263589**	30.17	2.2	ug/L
|	Tb	159	178308.684	-0.009				ug/L
|>	Ho	165	176766.333	176766.333				ug/L
|	Tl	203	54561.357	0.309	**492.817838**	5.76	1.2	ug/L
|	Tl	205	130850.327	0.740	**486.205934**	10.73	2.2	ug/L
\L	Pb	208	176978.253	1.001	**475.358283**	7.75	1.6	ug/L
	Kr	83	28.000	-7.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		83.576	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		86.248	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		81.183	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.205
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-11APDSD
Sample Date/Time: Thursday, February 24, 2011 10:52:59
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-11APDSD.018
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30641.871	0.007				ug/L
|	Li	7	87421.360	0.274	**600.612607**	12.22	2.0	ug/L
|	Be	9	19156.841	0.061	**502.417653**	20.39	4.1	ug/L
|	B	11	28785.651	0.088	**545.851887**	14.53	2.7	ug/L
|	Na	23	77553823.669	248.337	**496878.928768**	11625.81	2.3	ug/L
|	Mg	24	9556352.884	30.609	**101314.141667**	1775.81	1.8	ug/L
|	Al	27	7525499.088	24.114	**28675.923136**	669.94	2.3	ug/L
|	K	39	5946919.506	18.893	**29928.715271**	1009.59	3.4	ug/L
|	Ca	43	88388.707	0.283	**100998.970257**	4254.38	4.2	ug/L
| >	Sc	45	312089.162	312089.162				ug/L
|	Ti	49	13775.972	0.043	**480.396559**	14.82	3.1	ug/L
|	Co	59	277576.145	0.889	**491.835900**	13.65	2.8	ug/L
|	Ni	60	58938.686	0.189	**477.204004**	15.23	3.2	ug/L
|	Ni	62	8794.706	0.028	**470.756956**	14.09	3.0	ug/L
|	Cu	63	137652.102	0.438	**473.604488**	12.72	2.7	ug/L
|	Cu	65	64048.612	0.205	**475.644288**	19.22	4.0	ug/L
|	Zn	66	39985.214	0.128	**478.977308**	14.43	3.0	ug/L
|	Zn	67	9663.267	0.023	**501.941699**	23.56	4.7	ug/L
|	Zn	68	28209.161	0.090	**492.319032**	21.67	4.4	ug/L
|	V	51	213232.303	0.704	**494.753819**	23.33	4.7	ug/L
|	Cr	52	196969.969	0.621	**484.694580**	27.10	5.6	ug/L
|	Cr	53	47002.550	0.089	**530.375190**	45.25	8.5	ug/L
|	Mn	55	361100.326	1.154	**488.686629**	23.27	4.8	ug/L
|	Fe	54	843426.563	2.653	**24950.929487**	1517.13	6.1	ug/L
⌞	Fe	57	381193.624	1.213	**25232.264582**	1229.94	4.9	ug/L
⌜	As	75	28480.855	0.074	**478.519398**	20.29	4.2	ug/L
|	Se	77	13883.410	0.031	**2333.457708**	18.28	0.8	ug/L
|	Se	82	12442.129	0.033	**2356.236188**	19.05	0.8	ug/L
|	Sr	88	848372.127	2.220	**1204.454698**	6.03	0.5	ug/L
| >	Y	89	382036.140	382036.140				ug/L
|	Mo	95	45770.564	0.120	**485.400189**	6.05	1.2	ug/L
|	Mo	97	28746.895	0.075	**479.637121**	3.72	0.8	ug/L
⌞	Mo	98	73322.805	0.192	**474.210762**	3.77	0.8	ug/L
⌜	Ag	107	121206.822	0.637	**462.172461**	14.45	3.1	ug/L
|	Ag	109	116946.185	0.615	**469.857613**	13.54	2.9	ug/L
|	Cd	111	30235.647	0.159	**486.891887**	18.40	3.8	ug/L
|	Cd	114	68725.747	0.361	**486.738629**	15.55	3.2	ug/L

|>	In	115	190199.203	190199.203				ug/L
|	Sn	120	125491.482	0.650	**489.670437**	13.19	2.7	ug/L
|	Sb	121	99881.428	0.525	**482.817799**	12.66	2.6	ug/L
L	Sb	123	76085.762	0.400	**482.469932**	8.35	1.7	ug/L
⌈	Ba	135	72892.235	0.414	**1364.199338**	55.11	4.0	ug/L
|	Ba	137	125025.144	0.710	**1377.353325**	64.98	4.7	ug/L
|	Tb	159	175330.147	-0.021				ug/L
|>	Ho	165	176015.925	176015.925				ug/L
|	Tl	203	53969.097	0.307	**489.614178**	4.84	1.0	ug/L
|	Tl	205	130027.814	0.739	**485.345418**	6.54	1.3	ug/L
L	Pb	208	176232.607	1.001	**475.469810**	8.76	1.8	ug/L
	Kr	83	31.867	-3.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		82.852	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		84.017	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		79.098	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	87.831
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, February 24, 2011 10:58:42
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 4.019
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32860.989	0.010				ug/L
|	Li	7	80588.061	0.242	**106.449857**	3.19	3.0	ug/L
|	Be	9	20074.764	0.062	**101.337703**	2.72	2.7	ug/L
|	B	11	26582.712	0.078	**96.370257**	2.82	2.9	ug/L
|	Na	23	4536077.232	13.953	**5588.596171**	155.67	2.8	ug/L
|	Mg	24	2717279.398	8.383	**5546.499493**	119.98	2.2	ug/L
|	Al	27	7894810.367	24.357	**5792.968221**	139.58	2.4	ug/L
|	K	39	5653805.743	17.290	**5477.321506**	133.09	2.4	ug/L
|	Ca	43	21906.119	0.067	**4778.549127**	180.65	3.8	ug/L
| >	Sc	45	324145.995	324145.995				ug/L
|	Ti	49	13973.499	0.042	**93.770282**	3.64	3.9	ug/L
|	Co	59	285095.340	0.879	**97.247933**	2.01	2.1	ug/L
|	Ni	60	60634.416	0.187	**94.518251**	2.74	2.9	ug/L
|	Ni	62	9141.593	0.028	**94.241045**	5.12	5.4	ug/L
|	Cu	63	144290.398	0.442	**95.596042**	2.71	2.8	ug/L
|	Cu	65	67094.532	0.206	**95.897145**	1.43	1.5	ug/L
|	Zn	66	42513.897	0.131	**98.084651**	5.30	5.4	ug/L
|	Zn	67	9038.861	0.020	**85.675725**	7.53	8.8	ug/L
|	Zn	68	29216.520	0.089	**98.123099**	2.68	2.7	ug/L
|	V	51	211086.589	0.672	**94.423151**	3.51	3.7	ug/L
|	Cr	52	200338.505	0.607	**94.825094**	2.40	2.5	ug/L
|	Cr	53	44817.544	0.077	**90.656937**	6.88	7.6	ug/L
|	Mn	55	370191.482	1.138	**96.410881**	1.83	1.9	ug/L
|	Fe	54	885470.109	2.681	**5041.467327**	143.24	2.8	ug/L
⌊	Fe	57	399254.725	1.223	**5086.439503**	140.35	2.8	ug/L
⌈	As	75	29023.943	0.073	**94.246657**	4.03	4.3	ug/L
|	Se	77	14221.077	0.031	**460.836255**	8.10	1.8	ug/L
|	Se	82	13188.875	0.033	**482.561370**	9.32	1.9	ug/L
|	Sr	88	359503.561	0.908	**98.237069**	2.44	2.5	ug/L
| >	Y	89	395521.177	395521.177				ug/L
|	Mo	95	45409.404	0.115	**93.032578**	0.68	0.7	ug/L
|	Mo	97	28670.081	0.072	**92.413910**	1.20	1.3	ug/L
⌊	Mo	98	73352.410	0.185	**91.655061**	1.44	1.6	ug/L
⌈	Ag	107	128067.020	0.643	**93.231284**	1.84	2.0	ug/L
|	Ag	109	122349.123	0.614	**93.853879**	1.24	1.3	ug/L
|	Cd	111	31501.705	0.158	**96.849749**	1.89	1.9	ug/L
|	Cd	114	71618.847	0.359	**96.843769**	2.01	2.1	ug/L

|>	In	115	199188.761	199188.761				ug/L
|	Sn	120	127229.514	0.629	**94.756608**	2.23	2.4	ug/L
|	Sb	121	101968.686	0.512	**94.133590**	1.18	1.3	ug/L
|	Sb	123	77999.067	0.391	**94.447691**	1.36	1.4	ug/L
⌈	Ba	135	23041.906	0.129	**85.194137**	1.63	1.9	ug/L
|	Ba	137	39514.574	0.221	**86.077547**	2.21	2.6	ug/L
|	Tb	159	178877.749	-0.017				ug/L
|>	Ho	165	178799.659	178799.659				ug/L
|	Tl	203	55043.335	0.308	**98.319584**	4.61	4.7	ug/L
|	Tl	205	132374.274	0.740	**97.274786**	2.69	2.8	ug/L
⌊	Pb	208	181018.639	1.013	**96.165635**	2.65	2.8	ug/L
	Kr	83	31.000	-4.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	106.450		
Be	9	101.338		
B	11	96.370		
Na	23	111.772		
Mg	24	110.930		
Al	27	113.588		
K	39	109.546		
Ca	43	95.571		
Sc	45		86.053	
Ti	49	93.770		
Co	59	97.248		
Ni	60	94.518		
Ni	62	94.241		
Cu	63	95.596		
Cu	65	95.897		
Zn	66	98.085		
Zn	67	85.676		
Zn	68	98.123		
V	51	94.423		
Cr	52	94.825		
Cr	53	90.657		
Mn	55	96.411		
Fe	54	100.829		
Fe	57	101.729		
As	75	94.247		
Se	77	92.167		
Se	82	96.512		
Sr	88	98.237		
Y	89		86.982	
Mo	95	93.033		
Mo	97	92.414		
Mo	98	91.655		
Ag	107	93.231		
Ag	109	93.854		
Cd	111	96.850		
Cd	114	96.844		
In	115		82.836	
Sn	120	94.757		
Sb	121	94.134		

Sb	123	94.448	
Ba	135	85.194	
Ba	137	86.078	
Tb	159		
Ho	165		89.220
Tl	203	98.320	
Tl	205	97.275	
Pb	208	96.166	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, February 24, 2011 11:01:59
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 6.020
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	35100.122	0.018				ug/L
|	Li	7	2743.597	0.002	**2.328863**	0.22	9.5	ug/L
|	Be	9	8.000	0.000	**1.143700**	0.01	0.9	ug/L
|	B	11	1058.706	-0.001	**-2.182547**	0.39	17.7	ug/L
|	Na	23	22117.168	0.024	**15.105057**	1.54	10.2	ug/L
|	Mg	24	833.361	0.001	**-2.906140**	0.69	23.9	ug/L
|	Al	27	1546.752	0.000	**2.363064**	0.17	7.1	ug/L
|	K	39	57783.350	0.024	**3.089699**	2.53	81.9	ug/L
|	Ca	43	201.335	0.000	**-8.718071**	2.68	30.7	ug/L
| >	Sc	45	320562.076	320562.076				ug/L
|	Ti	49	440.007	-0.000	**0.854486**	0.19	22.1	ug/L
|	Co	59	314.670	0.000	**-0.026287**	0.00	17.8	ug/L
|	Ni	60	66.000	-0.000	**-0.039091**	0.02	62.3	ug/L
|	Ni	62	54.667	-0.000	**-0.266579**	0.13	49.3	ug/L
|	Cu	63	294.670	-0.002	**-0.559998**	0.03	5.5	ug/L
|	Cu	65	78.667	-0.000	**-0.559095**	0.01	1.4	ug/L
|	Zn	66	110.667	-0.000	**-0.606676**	0.08	12.8	ug/L
|	Zn	67	2929.635	0.001	**-4.094000**	4.38	106.9	ug/L
|	Zn	68	208.002	-0.000	**-0.591075**	0.10	16.7	ug/L
|	V	51	-7097.639	-0.002	**0.308113**	0.54	176.6	ug/L
|	Cr	52	3832.514	0.001	**0.480531**	0.07	15.0	ug/L
|	Cr	53	21609.680	0.006	**2.583472**	4.05	156.7	ug/L
|	Mn	55	1000.702	-0.001	**0.536284**	0.00	0.7	ug/L
|	Fe	54	15995.562	-0.002	**-22.757606**	1.15	5.0	ug/L
⌞	Fe	57	3393.070	0.001	**-9.556879**	1.31	13.7	ug/L
⌜	As	75	116.946	-0.000	**-0.356305**	0.20	57.3	ug/L
|	Se	77	1981.471	-0.000	**-10.552263**	1.30	12.4	ug/L
|	Se	82	-2.807	0.000	**-2.793266**	0.02	0.8	ug/L
|	Sr	88	228.002	-0.000	**-0.550556**	0.01	1.7	ug/L
| >	Y	89	403289.101	403289.101				ug/L
|	Mo	95	72.000	0.000	**-0.023307**	0.05	209.8	ug/L
|	Mo	97	34.667	0.000	**0.278145**	0.01	3.2	ug/L
⌞	Mo	98	98.000	0.000	**0.390131**	0.01	3.2	ug/L
⌜	Ag	107	9.333	0.000	**-0.071628**	0.00	1.2	ug/L
|	Ag	109	8.667	0.000	**-0.221351**	0.00	1.0	ug/L
|	Cd	111	3.667	0.000	**-0.010177**	0.00	37.7	ug/L
|	Cd	114	4.015	-0.000	**0.358393**	0.01	2.4	ug/L

|>	In	115	202666.869	202666.869				ug/L
|	Sn	120	2252.726	0.001	**0.507228**	0.09	17.4	ug/L
|	Sb	121	400.006	0.002	**0.866339**	0.04	4.5	ug/L
L	Sb	123	331.496	0.001	**0.669754**	0.04	6.7	ug/L
⌈	Ba	135	7.333	-0.000	**0.484249**	0.02	3.4	ug/L
|	Ba	137	22.667	0.000	**0.594844**	0.01	2.5	ug/L
|	Tb	159	177161.349	0.001				ug/L
|>	Ho	165	174027.461	174027.461				ug/L
|	Tl	203	20.667	0.000	**0.355677**	0.03	9.0	ug/L
|	Tl	205	57.333	0.000	**0.450817**	0.03	6.7	ug/L
L	Pb	208	30.667	-0.000	**0.740752**	0.00	0.4	ug/L
	Kr	83	26.467	-9.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.102	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		88.691	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		84.283	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	86.838
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-01A
Sample Date/Time: Thursday, February 24, 2011 11:04:57
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-01A.021
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	34736.822	0.020				ug/L
|	Li	7	16123.769	0.045	**21.079447**	1.58	7.5	ug/L
|	Be	9	4.667	0.000	**1.127523**	0.01	0.5	ug/L
|	B	11	26674.257	0.082	**100.979515**	8.96	8.9	ug/L
|	Na	23	43851421.284	140.562	**56250.487644**	1148.75	2.0	ug/L
|	Mg	24	1887005.324	6.048	**4001.057807**	128.02	3.2	ug/L
|	Al	27	31564.905	0.097	**25.284406**	0.80	3.2	ug/L
|	K	39	1099577.746	3.370	**1063.953781**	22.27	2.1	ug/L
|	Ca	43	29296.716	0.094	**6673.831316**	520.23	7.8	ug/L
| >	Sc	45	311733.076	311733.076				ug/L
|	Ti	49	822.024	0.001	**3.677060**	0.53	14.3	ug/L
|	Co	59	732.019	0.002	**0.125625**	0.03	21.2	ug/L
|	Ni	60	405.339	0.001	**0.516232**	0.08	15.0	ug/L
|	Ni	62	101.334	0.000	**0.252601**	0.12	48.8	ug/L
|	Cu	63	1362.732	0.001	**0.188384**	0.07	35.9	ug/L
|	Cu	65	350.671	0.000	**-0.147590**	0.06	41.1	ug/L
|	Zn	66	1766.776	0.005	**3.409321**	0.10	3.0	ug/L
|	Zn	67	4028.569	0.005	**14.080867**	4.91	34.9	ug/L
|	Zn	68	1465.409	0.004	**3.883824**	0.25	6.4	ug/L
|	V	51	-3186.411	0.010	**1.975480**	0.28	14.4	ug/L
|	Cr	52	5395.686	0.006	**1.315178**	0.12	8.8	ug/L
|	Cr	53	27570.587	0.027	**28.811826**	6.17	21.4	ug/L
|	Mn	55	97860.136	0.310	**26.721331**	1.32	4.9	ug/L
|	Fe	54	25736.475	0.031	**39.026438**	6.69	17.2	ug/L
⌞	Fe	57	5492.389	0.008	**19.834195**	1.92	9.7	ug/L
⌜	As	75	1029.678	0.002	**2.793568**	0.16	5.8	ug/L
|	Se	77	2692.254	0.002	**23.310184**	9.04	38.8	ug/L
|	Se	82	-4.484	0.000	**-2.860840**	0.16	5.7	ug/L
|	Sr	88	171152.527	0.453	**48.722684**	1.64	3.4	ug/L
| >	Y	89	377565.467	377565.467				ug/L
|	Mo	95	5214.285	0.014	**11.044134**	0.16	1.5	ug/L
|	Mo	97	3192.357	0.008	**10.937457**	0.43	3.9	ug/L
⌞	Mo	98	8405.066	0.022	**11.242501**	0.19	1.7	ug/L
⌜	Ag	107	14.000	0.000	**-0.067598**	0.00	3.8	ug/L
|	Ag	109	5.333	0.000	**-0.223575**	0.00	0.9	ug/L
|	Cd	111	6.833	0.000	**0.000772**	0.01	685.5	ug/L
|	Cd	114	2.279	-0.000	**0.356271**	0.00	1.3	ug/L

|>	In	115	189382.497	189382.497				ug/L
|	Sn	120	1917.951	0.000	**0.357761**	0.08	22.0	ug/L
|	Sb	121	144.001	0.001	**0.645002**	0.03	5.1	ug/L
|	Sb	123	148.905	0.000	**0.466258**	0.05	10.0	ug/L
⌈	Ba	135	10317.725	0.058	**38.486837**	0.31	0.8	ug/L
|	Ba	137	17622.866	0.099	**38.774849**	1.07	2.7	ug/L
|	Tb	159	176956.624	-0.025				ug/L
|>	Ho	165	178360.570	178360.570				ug/L
|	Tl	203	4.667	0.000	**0.325903**	0.01	1.7	ug/L
|	Tl	205	22.667	0.000	**0.424007**	0.00	0.8	ug/L
⌊	Pb	208	291.335	0.001	**0.878088**	0.01	1.5	ug/L
	Kr	83	27.733	-7.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		82.758	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		83.034	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		78.758	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	89.001
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-02A
Sample Date/Time: Thursday, February 24, 2011 11:07:37
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-02A.022
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	27650.652	-0.007				ug/L
|	Li	7	124844.405	0.374	**163.489671**	9.53	5.8	ug/L
|	Be	9	3511.766	0.011	**18.409591**	1.07	5.8	ug/L
|	B	11	55300.829	0.165	**204.649599**	30.16	14.7	ug/L
|	Na	23	208159337.042	633.871	**253644.303652**	10994.24	4.3	ug/L
|	Mg	24	28176124.458	85.807	**56810.651322**	2635.98	4.6	ug/L
|	Al	27	155164667.847	472.566	**112352.606136**	5807.74	5.2	ug/L
|	K	39	4753634.034	14.323	**4536.548618**	268.62	5.9	ug/L
|	Ca	43	207556.596	0.632	**45118.067653**	2209.44	4.9	ug/L
| >	Sc	45	328554.133	328554.133				ug/L
|	Ti	49	2964.308	0.007	**17.887405**	1.02	5.7	ug/L
|	Co	59	381658.352	1.162	**128.542145**	7.82	6.1	ug/L
|	Ni	60	91741.940	0.279	**141.198235**	7.91	5.6	ug/L
|	Ni	62	13769.305	0.042	**140.439378**	7.50	5.3	ug/L
|	Cu	63	8140.987	0.022	**4.605438**	0.24	5.2	ug/L
|	Cu	65	4376.671	0.013	**5.543851**	0.39	7.1	ug/L
|	Zn	66	191661.672	0.583	**439.565059**	63.81	14.5	ug/L
|	Zn	67	35656.531	0.100	**471.665976**	34.18	7.2	ug/L
|	Zn	68	140016.239	0.426	**468.867642**	15.28	3.3	ug/L
|	V	51	140599.629	0.448	**63.209738**	1.62	2.6	ug/L
|	Cr	52	91407.633	0.267	**41.926880**	1.52	3.6	ug/L
|	Cr	53	37769.251	0.054	**61.670874**	7.35	11.9	ug/L
|	Mn	55	10166639.894	30.957	**2605.949296**	148.03	5.7	ug/L
|	Fe	54	17505128.489	53.256	**100510.535761**	4667.17	4.6	ug/L
⌊	Fe	57	8211983.160	25.000	**104277.275983**	5686.82	5.5	ug/L
⌜	As	75	4278.421	0.003	**3.784604**	0.06	1.5	ug/L
|	Se	77	3295.047	-0.002	**-44.331898**	1.22	2.8	ug/L
|	Se	82	39.259	0.000	**-2.225800**	0.10	4.6	ug/L
|	Sr	88	2171396.395	1.772	**192.126498**	3.64	1.9	ug/L
| >	Y	89	1225460.400	1225460.400				ug/L
|	Mo	95	588.679	0.000	**0.221824**	0.03	15.3	ug/L
|	Mo	97	367.338	0.000	**0.550225**	0.02	3.8	ug/L
⌊	Mo	98	941.072	0.001	**0.648869**	0.01	1.2	ug/L
⌜	Ag	107	69.334	0.000	**-0.025676**	0.01	44.5	ug/L
|	Ag	109	32.000	0.000	**-0.202357**	0.01	3.0	ug/L
|	Cd	111	148.167	0.001	**0.452553**	0.01	2.5	ug/L
|	Cd	114	314.655	0.002	**0.794127**	0.03	4.4	ug/L

|>	In	115	191506.894	191506.894				ug/L
|	Sn	120	2119.979	0.001	**0.500863**	0.06	11.3	ug/L
|	Sb	121	231.335	0.001	**0.726633**	0.03	4.6	ug/L
L	Sb	123	188.906	0.001	**0.513829**	0.02	3.6	ug/L
⌈	Ba	135	85439.460	0.401	**264.032400**	6.91	2.6	ug/L
|	Ba	137	146240.320	0.686	**266.030182**	8.34	3.1	ug/L
|	Tb	159	215393.717	-0.007				ug/L
|>	Ho	165	213145.032	213145.032				ug/L
|	Tl	203	16.000	0.000	**0.341524**	0.01	3.2	ug/L
|	Tl	205	56.000	0.000	**0.441757**	0.00	1.0	ug/L
L	Pb	208	1154.018	0.005	**1.234350**	0.02	1.3	ug/L
	Kr	83	77.600	42.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.223	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		269.501	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		79.642	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	106.358
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-03A
Sample Date/Time: Thursday, February 24, 2011 11:10:18
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-03A.023
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31693.640	0.010				ug/L
|	Li	7	19571.406	0.056	**25.876949**	1.06	4.1	ug/L
|	Be	9	7.333	0.000	**1.141636**	0.03	2.3	ug/L
|	B	11	11451.930	0.033	**39.738830**	2.88	7.2	ug/L
|	Na	23	39273047.407	126.086	**50458.016802**	457.56	0.9	ug/L
|	Mg	24	2441733.475	7.842	**5188.363536**	98.36	1.9	ug/L
|	Al	27	406026.030	1.300	**311.249714**	11.65	3.7	ug/L
|	K	39	735040.927	2.205	**694.423433**	16.51	2.4	ug/L
|	Ca	43	44396.906	0.142	**10138.473400**	350.34	3.5	ug/L
| >	Sc	45	311371.331	311371.331				ug/L
|	Ti	49	1158.714	0.002	**6.081959**	0.49	8.1	ug/L
|	Co	59	2648.246	0.008	**0.806851**	0.05	5.6	ug/L
|	Ni	60	764.687	0.002	**1.099430**	0.03	2.6	ug/L
|	Ni	62	181.335	0.000	**1.121260**	0.32	28.6	ug/L
|	Cu	63	1442.740	0.002	**0.243293**	0.05	18.5	ug/L
|	Cu	65	474.675	0.001	**0.038330**	0.11	279.1	ug/L
|	Zn	66	2576.233	0.008	**5.371873**	0.30	5.5	ug/L
|	Zn	67	5034.221	0.008	**29.531471**	3.98	13.5	ug/L
|	Zn	68	2408.203	0.007	**7.225505**	0.30	4.2	ug/L
|	V	51	-2240.578	0.013	**2.389168**	0.87	36.3	ug/L
|	Cr	52	5887.880	0.008	**1.562423**	0.10	6.6	ug/L
|	Cr	53	28879.841	0.031	**34.050210**	4.03	11.8	ug/L
|	Mn	55	48561.071	0.152	**13.400761**	0.28	2.1	ug/L
|	Fe	54	54948.606	0.124	**216.149924**	2.32	1.1	ug/L
⌊	Fe	57	19241.618	0.053	**204.122646**	5.65	2.8	ug/L
⌈	As	75	418.590	0.001	**0.741721**	0.56	75.0	ug/L
|	Se	77	2896.961	0.003	**34.802369**	1.12	3.2	ug/L
|	Se	82	6.768	0.000	**-2.425212**	0.24	10.0	ug/L
|	Sr	88	252109.397	0.687	**74.199978**	2.23	3.0	ug/L
| >	Y	89	366624.821	366624.821				ug/L
|	Mo	95	551.344	0.001	**1.052702**	0.02	2.0	ug/L
|	Mo	97	354.671	0.001	**1.400389**	0.04	3.2	ug/L
⌊	Mo	98	881.214	0.002	**1.455178**	0.04	2.9	ug/L
⌈	Ag	107	15.333	0.000	**-0.065983**	0.00	1.5	ug/L
|	Ag	109	6.000	0.000	**-0.222803**	0.00	1.3	ug/L
|	Cd	111	11.667	0.000	**0.018331**	0.01	51.2	ug/L
|	Cd	114	11.785	0.000	**0.370603**	0.00	0.7	ug/L

|>	In	115	180498.106	180498.106				ug/L
|	Sn	120	1802.029	0.000	**0.337380**	0.03	9.4	ug/L
|	Sb	121	82.000	0.000	**0.588584**	0.02	2.7	ug/L
\L	Sb	123	80.494	0.000	**0.383795**	0.00	1.3	ug/L
|	Ba	135	25085.350	0.156	**103.260720**	3.35	3.2	ug/L
|	Ba	137	42958.527	0.268	**104.149020**	3.61	3.5	ug/L
|	Tb	159	162824.677	-0.003				ug/L
|>	Ho	165	160463.101	160463.101				ug/L
|	Tl	203	7.333	0.000	**0.332103**	0.01	1.8	ug/L
|	Tl	205	11.333	0.000	**0.416569**	0.00	0.9	ug/L
\L	Pb	208	1387.360	0.008	**1.538604**	0.02	1.2	ug/L
	Kr	83	29.667	-5.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		82.662	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		80.628	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		75.063	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	80.070
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-04A
Sample Date/Time: Thursday, February 24, 2011 11:12:58
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-04A.024
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32223.213	0.015				ug/L
|	Li	7	9017.512	0.023	**11.509447**	0.12	1.1	ug/L
|	Be	9	2.667	-0.000	**1.117670**	0.02	1.5	ug/L
|	B	11	20329.134	0.063	**77.603879**	3.71	4.8	ug/L
|	Na	23	54313788.967	179.019	**71638.788478**	1930.66	2.7	ug/L
|	Mg	24	127634.502	0.420	**274.037340**	6.33	2.3	ug/L
|	Al	27	26828.512	0.084	**22.248530**	0.45	2.0	ug/L
|	K	39	582577.545	1.765	**555.009057**	14.09	2.5	ug/L
|	Ca	43	4694.105	0.015	**1052.653612**	36.13	3.4	ug/L
|>	Sc	45	303279.214	303279.214				ug/L
|	Ti	49	1157.380	0.002	**6.291790**	0.46	7.3	ug/L
|	Co	59	372.005	0.001	**0.000908**	0.01	675.4	ug/L
|	Ni	60	296.670	0.001	**0.351793**	0.04	10.1	ug/L
|	Ni	62	70.667	0.000	**-0.056697**	0.22	393.2	ug/L
|	Cu	63	4982.203	0.013	**2.795924**	0.13	4.7	ug/L
|	Cu	65	2049.480	0.006	**2.478681**	0.10	4.1	ug/L
|	Zn	66	1858.788	0.005	**3.755992**	0.29	7.8	ug/L
|	Zn	67	5417.028	0.010	**37.626012**	4.29	11.4	ug/L
|	Zn	68	1469.409	0.004	**4.036272**	0.24	5.8	ug/L
|	V	51	-10600.706	-0.015	**-1.487449**	0.93	62.7	ug/L
|	Cr	52	5739.153	0.008	**1.564342**	0.08	5.4	ug/L
|	Cr	53	31749.928	0.043	**48.874406**	4.57	9.3	ug/L
|	Mn	55	57019.567	0.184	**16.096814**	0.09	0.6	ug/L
|	Fe	54	26446.099	0.035	**47.651660**	2.63	5.5	ug/L
⌊	Fe	57	4774.798	0.007	**11.980384**	2.64	22.1	ug/L
⌈	As	75	394.544	0.001	**0.667750**	0.62	92.5	ug/L
|	Se	77	2988.979	0.003	**39.724725**	3.92	9.9	ug/L
|	Se	82	-3.744	0.000	**-2.842320**	0.07	2.3	ug/L
|	Sr	88	35247.435	0.096	**9.937294**	0.33	3.4	ug/L
|>	Y	89	363508.486	363508.486				ug/L
|	Mo	95	512.676	0.001	**0.977791**	0.08	8.2	ug/L
|	Mo	97	302.003	0.001	**1.227304**	0.10	8.5	ug/L
⌊	Mo	98	810.544	0.002	**1.369105**	0.00	0.3	ug/L
⌈	Ag	107	4.667	0.000	**-0.074310**	0.00	3.6	ug/L
|	Ag	109	7.333	0.000	**-0.221267**	0.00	1.8	ug/L
|	Cd	111	3.000	0.000	**-0.010518**	0.00	2.8	ug/L
|	Cd	114	2.803	-0.000	**0.357640**	0.01	2.7	ug/L

|>	In	115	170998.597	170998.597				ug/L
|	Sn	120	1731.286	0.000	**0.357975**	0.02	5.8	ug/L
|	Sb	121	48.000	0.000	**0.557270**	0.02	4.3	ug/L
|	Sb	123	51.156	-0.000	**0.348432**	0.00	1.4	ug/L
⌈	Ba	135	2415.538	0.016	**10.745443**	0.16	1.5	ug/L
|	Ba	137	4101.255	0.026	**10.824812**	0.18	1.7	ug/L
|	Tb	159	154353.622	-0.018				ug/L
|>	Ho	165	154343.289	154343.289				ug/L
|	Tl	203	4.000	0.000	**0.325843**	0.01	2.2	ug/L
|	Tl	205	7.333	0.000	**0.413583**	0.00	0.9	ug/L
⌊	Pb	208	820.676	0.005	**1.225154**	0.01	0.5	ug/L
	Kr	83	26.867	-8.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		80.513	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		79.942	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		71.113	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	77.016
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-05A
Sample Date/Time: Thursday, February 24, 2011 11:15:39
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-05A.025
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31667.827	0.012				ug/L
|	Li	7	9720.640	0.025	**12.414101**	0.38	3.1	ug/L
|	Be	9	6.000	0.000	**1.134521**	0.04	3.1	ug/L
|	B	11	16566.951	0.050	**61.628538**	5.23	8.5	ug/L
|	Na	23	54174522.841	177.351	**70971.243547**	3096.65	4.4	ug/L
|	Mg	24	71009.561	0.231	**149.308427**	7.80	5.2	ug/L
|	Al	27	33308.796	0.105	**27.142576**	0.90	3.3	ug/L
|	K	39	267481.613	0.720	**223.590296**	11.43	5.1	ug/L
|	Ca	43	2340.192	0.007	**494.551023**	55.60	11.2	ug/L
| >	Sc	45	305619.390	305619.390				ug/L
|	Ti	49	813.357	0.001	**3.729798**	0.62	16.5	ug/L
|	Co	59	276.003	0.000	**-0.034978**	0.01	17.1	ug/L
|	Ni	60	297.336	0.001	**0.349926**	0.05	14.1	ug/L
|	Ni	62	80.000	0.000	**0.041630**	0.10	251.7	ug/L
|	Cu	63	1270.723	0.001	**0.140637**	0.01	10.3	ug/L
|	Cu	65	202.668	-0.000	**-0.363834**	0.04	9.7	ug/L
|	Zn	66	1180.049	0.003	**2.045424**	0.07	3.5	ug/L
|	Zn	67	4480.703	0.006	**22.373760**	3.96	17.7	ug/L
|	Zn	68	998.702	0.002	**2.298570**	0.26	11.2	ug/L
|	V	51	-9091.409	-0.009	**-0.760087**	0.76	99.4	ug/L
|	Cr	52	5567.752	0.007	**1.455791**	0.10	7.1	ug/L
|	Cr	53	28708.154	0.033	**35.569334**	4.47	12.6	ug/L
|	Mn	55	11871.600	0.035	**3.545508**	0.17	4.7	ug/L
|	Fe	54	24441.342	0.028	**34.051097**	3.66	10.8	ug/L
⌊	Fe	57	3935.209	0.004	**0.019040**	2.28	11976.8	ug/L
⌈	As	75	285.997	0.000	**0.313246**	0.45	143.1	ug/L
|	Se	77	2684.919	0.003	**30.049009**	0.73	2.4	ug/L
|	Se	82	-9.487	-0.000	**-3.083422**	0.18	5.8	ug/L
|	Sr	88	41224.738	0.116	**12.063454**	0.42	3.5	ug/L
| >	Y	89	353877.213	353877.213				ug/L
|	Mo	95	690.683	0.002	**1.419378**	0.19	13.3	ug/L
|	Mo	97	396.672	0.001	**1.594723**	0.05	2.9	ug/L
⌊	Mo	98	1033.298	0.003	**1.709859**	0.04	2.6	ug/L
⌈	Ag	107	6.000	0.000	**-0.073176**	0.00	2.2	ug/L
|	Ag	109	2.667	0.000	**-0.225487**	0.00	0.9	ug/L
|	Cd	111	1.167	-0.000	**-0.017020**	0.00	12.6	ug/L
|	Cd	114	3.197	-0.000	**0.358245**	0.01	3.2	ug/L

|>	In	115	168929.013	168929.013				ug/L
|	Sn	120	1730.012	0.000	**0.375707**	0.08	21.7	ug/L
|	Sb	121	41.333	0.000	**0.550264**	0.00	0.9	ug/L
L	Sb	123	47.744	-0.000	**0.344499**	0.01	2.1	ug/L
⌜	Ba	135	2867.621	0.019	**13.124876**	0.47	3.6	ug/L
|	Ba	137	4690.770	0.031	**12.737059**	0.26	2.0	ug/L
|	Tb	159	149590.498	-0.013				ug/L
|>	Ho	165	148865.755	148865.755				ug/L
|	Tl	203	2.000	-0.000	**0.321859**	0.00	0.0	ug/L
|	Tl	205	6.000	0.000	**0.412591**	0.00	1.1	ug/L
L	Pb	208	110.000	0.001	**0.793715**	0.01	1.1	ug/L
	Kr	83	28.067	-7.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		81.135	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		77.824	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		70.252	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	74.283
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-06A
Sample Date/Time: Thursday, February 24, 2011 11:18:19
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-06A.026
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31203.374	0.013				ug/L
|	Li	7	10005.503	0.027	**13.127172**	0.53	4.0	ug/L
|	Be	9	6.000	0.000	**1.135808**	0.01	0.9	ug/L
|	B	11	21061.532	0.067	**81.896549**	5.72	7.0	ug/L
|	Na	23	52277021.881	174.871	**69978.996419**	4630.04	6.6	ug/L
|	Mg	24	125549.483	0.419	**273.465941**	13.08	4.8	ug/L
|	Al	27	24170.435	0.076	**20.436366**	0.69	3.4	ug/L
|	K	39	728854.024	2.283	**719.224839**	53.34	7.4	ug/L
|	Ca	43	5410.358	0.018	**1239.170285**	32.30	2.6	ug/L
| >	Sc	45	299148.424	299148.424				ug/L
|	Ti	49	1916.129	0.005	**12.064716**	0.96	8.0	ug/L
|	Co	59	1150.713	0.003	**0.291725**	0.06	19.1	ug/L
|	Ni	60	420.006	0.001	**0.568079**	0.06	10.6	ug/L
|	Ni	62	120.001	0.000	**0.510250**	0.06	11.4	ug/L
|	Cu	63	7455.945	0.022	**4.636603**	0.18	3.8	ug/L
|	Cu	65	3291.046	0.010	**4.462936**	0.34	7.6	ug/L
|	Zn	66	1800.114	0.005	**3.678837**	0.61	16.5	ug/L
|	Zn	67	4544.724	0.007	**24.910520**	4.45	17.9	ug/L
|	Zn	68	1349.397	0.004	**3.670883**	0.15	4.1	ug/L
|	V	51	-7465.100	-0.005	**-0.082582**	0.33	401.2	ug/L
|	Cr	52	5537.740	0.007	**1.500884**	0.07	5.0	ug/L
|	Cr	53	28278.628	0.033	**36.270057**	2.40	6.6	ug/L
|	Mn	55	80720.128	0.266	**22.994788**	0.86	3.8	ug/L
|	Fe	54	31289.606	0.053	**80.601366**	8.33	10.3	ug/L
⌊	Fe	57	7297.197	0.015	**48.113444**	4.24	8.8	ug/L
⌈	As	75	737.560	0.002	**1.855676**	0.41	21.9	ug/L
|	Se	77	2525.557	0.002	**18.754571**	2.51	13.4	ug/L
|	Se	82	-7.747	-0.000	**-2.995876**	0.20	6.8	ug/L
|	Sr	88	42812.729	0.115	**12.007993**	0.22	1.8	ug/L
| >	Y	89	368971.822	368971.822				ug/L
|	Mo	95	609.346	0.002	**1.172894**	0.10	8.4	ug/L
|	Mo	97	362.005	0.001	**1.417035**	0.09	6.2	ug/L
⌊	Mo	98	961.293	0.003	**1.554168**	0.05	3.4	ug/L
⌈	Ag	107	13.333	0.000	**-0.066534**	0.00	6.1	ug/L
|	Ag	109	8.667	0.000	**-0.219798**	0.00	1.3	ug/L
|	Cd	111	9.167	0.000	**0.012957**	0.00	22.1	ug/L
|	Cd	114	14.674	0.000	**0.377030**	0.02	6.6	ug/L

|>	In	115	164050.975	164050.975				ug/L
|	Sn	120	1685.356	0.000	**0.380660**	0.01	3.8	ug/L
|	Sb	121	50.000	0.000	**0.561326**	0.01	1.4	ug/L
L	Sb	123	51.911	-0.000	**0.352596**	0.02	4.6	ug/L
⌈	Ba	135	3246.369	0.022	**15.110646**	0.57	3.8	ug/L
|	Ba	137	5499.725	0.038	**15.148722**	0.34	2.2	ug/L
|	Tb	159	144743.993	-0.025				ug/L
|>	Ho	165	145731.133	145731.133				ug/L
|	Tl	203	0.000	-0.000	**0.317582**	0.00	0.0	ug/L
|	Tl	205	6.000	0.000	**0.412713**	0.00	0.7	ug/L
L	Pb	208	4146.899	0.028	**3.406095**	0.05	1.4	ug/L
	Kr	83	27.267	-8.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		79.417	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		81.144	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		68.224	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	72.719
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-07A
Sample Date/Time: Thursday, February 24, 2011 11:21:00
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-07A.027
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	28721.898	0.007				ug/L
|	Li	7	47705.626	0.158	**69.810854**	4.85	7.0	ug/L
|	Be	9	7.333	0.000	**1.144088**	0.02	1.4	ug/L
|	B	11	23448.595	0.077	**94.691811**	7.04	7.4	ug/L
|	Na	23	377045626.677	1297.087	**519025.228720**	27819.17	5.4	ug/L
|	Mg	24	23023918.843	79.207	**52441.258740**	2783.66	5.3	ug/L
|	Al	27	38490.130	0.128	**32.702788**	1.46	4.5	ug/L
|	K	39	2079296.106	7.002	**2215.416066**	202.08	9.1	ug/L
|	Ca	43	287244.533	0.988	**70585.050867**	3841.57	5.4	ug/L
| >	Sc	45	290886.147	290886.147				ug/L
|	Ti	49	723.352	0.001	**3.329150**	0.22	6.7	ug/L
|	Co	59	648.015	0.002	**0.111710**	0.00	2.6	ug/L
|	Ni	60	1150.713	0.004	**1.859134**	0.06	3.2	ug/L
|	Ni	62	126.667	0.000	**0.625980**	0.07	10.5	ug/L
|	Cu	63	5357.005	0.016	**3.230843**	0.28	8.7	ug/L
|	Cu	65	385.339	0.001	**-0.055844**	0.03	60.1	ug/L
|	Zn	66	1482.744	0.004	**2.979093**	0.29	9.8	ug/L
|	Zn	67	4770.130	0.008	**30.638431**	1.52	5.0	ug/L
|	Zn	68	2018.809	0.006	**6.355605**	0.47	7.4	ug/L
|	V	51	-4274.994	0.006	**1.342752**	0.48	35.9	ug/L
|	Cr	52	4938.854	0.006	**1.262174**	0.06	4.9	ug/L
|	Cr	53	26797.777	0.031	**33.299780**	2.95	8.8	ug/L
|	Mn	55	12978.560	0.041	**4.030464**	0.11	2.7	ug/L
|	Fe	54	24470.444	0.032	**41.901898**	3.93	9.4	ug/L
⌞	Fe	57	15113.993	0.043	**163.180418**	8.16	5.0	ug/L
⌜	As	75	549.365	0.001	**1.251458**	0.51	40.8	ug/L
|	Se	77	3385.735	0.004	**58.159768**	5.50	9.4	ug/L
|	Se	82	44.903	0.000	**-0.869261**	0.25	28.3	ug/L
|	Sr	88	1811796.495	5.051	**548.716008**	20.30	3.7	ug/L
| >	Y	89	358788.677	358788.677				ug/L
|	Mo	95	3022.320	0.008	**6.671179**	0.26	3.9	ug/L
|	Mo	97	1932.131	0.005	**7.022069**	0.18	2.6	ug/L
⌞	Mo	98	4930.184	0.014	**7.041614**	0.10	1.5	ug/L
⌜	Ag	107	10.667	0.000	**-0.069290**	0.00	5.6	ug/L
|	Ag	109	5.333	0.000	**-0.223121**	0.00	1.2	ug/L
|	Cd	111	21.500	0.000	**0.055612**	0.01	15.6	ug/L
|	Cd	114	37.191	0.000	**0.411329**	0.01	2.9	ug/L

|>	In	115	171438.266	171438.266				ug/L
|	Sn	120	1727.969	0.000	**0.351875**	0.04	11.4	ug/L
|	Sb	121	60.667	0.000	**0.570387**	0.01	2.4	ug/L
\L	Sb	123	74.657	0.000	**0.381379**	0.03	9.1	ug/L
\[	Ba	135	59971.049	0.400	**263.558140**	7.73	2.9	ug/L
|	Ba	137	101892.232	0.680	**263.608084**	5.57	2.1	ug/L
|	Tb	159	153297.526	0.005				ug/L
|>	Ho	165	149843.779	149843.779				ug/L
|	Tl	203	5.333	0.000	**0.328861**	0.02	4.9	ug/L
|	Tl	205	18.667	0.000	**0.423644**	0.01	1.3	ug/L
\L	Pb	208	356.002	0.002	**0.948042**	0.01	1.5	ug/L
	Kr	83	29.400	-6.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		77.223	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		78.904	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		71.296	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	74.771
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-08A
Sample Date/Time: Thursday, February 24, 2011 11:23:41
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-08A.028
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30157.353	0.012				ug/L
|	Li	7	33086.964	0.107	**47.933239**	1.92	4.0	ug/L
|	Be	9	6.667	0.000	**1.140467**	0.01	1.1	ug/L
|	B	11	19428.546	0.063	**77.288145**	3.73	4.8	ug/L
|	Na	23	312913575.859	1075.739	**430454.252949**	18540.85	4.3	ug/L
|	Mg	24	17530758.445	60.259	**39894.907523**	1058.34	2.7	ug/L
|	Al	27	74632.815	0.252	**62.195914**	0.26	0.4	ug/L
|	K	39	1096600.215	3.613	**1140.938734**	13.12	1.2	ug/L
|	Ca	43	202987.985	0.697	**49804.542584**	477.54	1.0	ug/L
| >	Sc	45	290973.078	290973.078				ug/L
|	Ti	49	870.027	0.001	**4.453467**	0.49	11.0	ug/L
|	Co	59	1076.041	0.003	**0.274552**	0.02	7.8	ug/L
|	Ni	60	1907.461	0.006	**3.173979**	0.11	3.6	ug/L
|	Ni	62	232.002	0.001	**1.840568**	0.44	23.7	ug/L
|	Cu	63	4517.381	0.013	**2.601387**	0.13	5.1	ug/L
|	Cu	65	622.680	0.001	**0.325370**	0.08	23.9	ug/L
|	Zn	66	2884.292	0.009	**6.612043**	0.52	7.9	ug/L
|	Zn	67	4886.169	0.009	**32.531316**	3.56	10.9	ug/L
|	Zn	68	2680.251	0.008	**8.854444**	0.21	2.4	ug/L
|	V	51	-5404.286	0.002	**0.808029**	0.45	55.5	ug/L
|	Cr	52	5494.390	0.008	**1.558317**	0.08	4.9	ug/L
|	Cr	53	27644.723	0.034	**36.843409**	1.93	5.2	ug/L
|	Mn	55	99157.647	0.337	**28.960138**	0.77	2.7	ug/L
|	Fe	54	29391.439	0.049	**73.739548**	3.22	4.4	ug/L
⌞	Fe	57	13889.419	0.039	**145.476116**	7.31	5.0	ug/L
⌜	As	75	977.428	0.002	**2.773651**	0.74	26.6	ug/L
|	Se	77	3201.693	0.004	**49.737177**	7.22	14.5	ug/L
|	Se	82	32.454	0.000	**-1.382066**	0.32	23.2	ug/L
|	Sr	88	1279527.789	3.550	**385.572083**	11.93	3.1	ug/L
| >	Y	89	360421.211	360421.211				ug/L
|	Mo	95	1873.456	0.005	**4.053125**	0.19	4.6	ug/L
|	Mo	97	1206.051	0.003	**4.427025**	0.09	2.1	ug/L
⌞	Mo	98	3047.960	0.008	**4.438149**	0.15	3.4	ug/L
⌜	Ag	107	8.000	0.000	**-0.071380**	0.01	8.6	ug/L
|	Ag	109	6.000	0.000	**-0.222482**	0.00	1.4	ug/L
|	Cd	111	4.500	0.000	**-0.004907**	0.00	69.3	ug/L
|	Cd	114	10.118	0.000	**0.369420**	0.02	5.9	ug/L

|>	In	115	168789.595	168789.595				ug/L
|	Sn	120	1744.629	0.000	**0.390340**	0.02	6.3	ug/L
|	Sb	121	89.334	0.000	**0.602421**	0.02	3.0	ug/L
|	Sb	123	103.240	0.000	**0.423648**	0.00	0.5	ug/L
⌈	Ba	135	48757.071	0.321	**211.369017**	4.92	2.3	ug/L
|	Ba	137	83195.561	0.547	**212.314650**	3.97	1.9	ug/L
|	Tb	159	153244.389	-0.010				ug/L
|>	Ho	165	152009.859	152009.859				ug/L
|	Tl	203	4.000	0.000	**0.325937**	0.01	2.2	ug/L
|	Tl	205	6.000	0.000	**0.412554**	0.00	1.1	ug/L
⌊	Pb	208	1037.349	0.007	**1.367243**	0.01	0.8	ug/L
	Kr	83	27.200	-8.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		77.247	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		79.263	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		70.194	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	75.852
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-09A
Sample Date/Time: Thursday, February 24, 2011 11:26:21
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-09A.029
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30226.888	0.010				ug/L
|	Li	7	32184.225	0.102	**45.620255**	2.28	5.0	ug/L
|	Be	9	7.333	0.000	**1.142925**	0.04	3.5	ug/L
|	B	11	23144.069	0.074	**91.246746**	4.10	4.5	ug/L
|	Na	23	254787376.705	858.334	**343461.589082**	21414.02	6.2	ug/L
|	Mg	24	9268820.270	31.217	**20665.830505**	971.49	4.7	ug/L
|	Al	27	30250.376	0.097	**25.451044**	1.78	7.0	ug/L
|	K	39	1895674.427	6.231	**1971.039127**	145.55	7.4	ug/L
|	Ca	43	117302.657	0.395	**28187.202810**	1702.50	6.0	ug/L
| >	Sc	45	297140.415	297140.415				ug/L
|	Ti	49	703.351	0.001	**3.067884**	0.17	5.5	ug/L
|	Co	59	438.673	0.001	**0.028604**	0.01	18.6	ug/L
|	Ni	60	672.683	0.002	**1.003709**	0.10	10.4	ug/L
|	Ni	62	86.667	0.000	**0.138720**	0.14	98.7	ug/L
|	Cu	63	3363.063	0.008	**1.691935**	0.12	7.2	ug/L
|	Cu	65	269.336	0.000	**-0.250133**	0.05	18.7	ug/L
|	Zn	66	1282.724	0.004	**2.389929**	0.08	3.4	ug/L
|	Zn	67	4631.418	0.007	**26.790817**	4.19	15.7	ug/L
|	Zn	68	1853.454	0.005	**5.579181**	0.37	6.7	ug/L
|	V	51	15966.355	0.074	**10.907059**	0.33	3.0	ug/L
|	Cr	52	4924.182	0.005	**1.199384**	0.08	6.8	ug/L
|	Cr	53	27409.623	0.031	**33.504150**	6.64	19.8	ug/L
|	Mn	55	8188.349	0.024	**2.595532**	0.17	6.4	ug/L
|	Fe	54	24269.179	0.030	**37.315428**	5.91	15.8	ug/L
⌊	Fe	57	8114.307	0.018	**60.329202**	7.47	12.4	ug/L
⌜	As	75	711.504	0.002	**1.865982**	0.48	25.7	ug/L
|	Se	77	2846.950	0.003	**36.843710**	1.44	3.9	ug/L
|	Se	82	26.252	0.000	**-1.613486**	0.05	3.2	ug/L
|	Sr	88	762637.405	2.152	**233.489704**	2.74	1.2	ug/L
| >	Y	89	354297.670	354297.670				ug/L
|	Mo	95	2032.145	0.006	**4.488056**	0.26	5.9	ug/L
|	Mo	97	1294.725	0.004	**4.819195**	0.22	4.5	ug/L
⌊	Mo	98	3171.612	0.009	**4.681492**	0.14	3.0	ug/L
⌜	Ag	107	6.000	0.000	**-0.073101**	0.00	4.2	ug/L
|	Ag	109	6.667	0.000	**-0.221811**	0.00	1.0	ug/L
|	Cd	111	10.333	0.000	**0.016389**	0.01	52.4	ug/L
|	Cd	114	12.469	0.000	**0.373068**	0.01	2.8	ug/L

|>	In	115	167757.969	167757.969				ug/L
|	Sn	120	1666.628	0.000	**0.330143**	0.04	12.1	ug/L
|	Sb	121	83.334	0.000	**0.596279**	0.02	2.6	ug/L
\L	Sb	123	105.324	0.000	**0.427610**	0.01	1.9	ug/L
⌜	Ba	135	50533.323	0.336	**221.597109**	10.26	4.6	ug/L
|	Ba	137	84693.137	0.564	**218.633220**	7.58	3.5	ug/L
|	Tb	159	152660.016	-0.002				ug/L
|>	Ho	165	150256.745	150256.745				ug/L
|	Tl	203	6.667	0.000	**0.331702**	0.00	0.7	ug/L
|	Tl	205	5.333	0.000	**0.412004**	0.00	0.9	ug/L
\L	Pb	208	186.000	0.001	**0.840720**	0.01	1.1	ug/L
	Kr	83	27.400	-8.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		78.884	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		77.917	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		69.765	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	74.977
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-10A
Sample Date/Time: Thursday, February 24, 2011 11:29:02
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-10A.030
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31161.740	0.013				ug/L
|	Li	7	31190.038	0.098	**43.979381**	2.16	4.9	ug/L
|	Be	9	7.333	0.000	**1.143208**	0.01	0.6	ug/L
|	B	11	22443.623	0.071	**87.878721**	2.29	2.6	ug/L
|	Na	23	245204126.440	822.366	**329069.068854**	13519.71	4.1	ug/L
|	Mg	24	8915878.795	29.900	**19793.546018**	706.48	3.6	ug/L
|	Al	27	20568.130	0.064	**17.615851**	0.33	1.9	ug/L
|	K	39	1781883.624	5.820	**1840.649585**	70.25	3.8	ug/L
|	Ca	43	113505.194	0.380	**27144.989019**	483.85	1.8	ug/L
| >	Sc	45	298261.485	298261.485				ug/L
|	Ti	49	656.682	0.001	**2.699134**	0.22	8.2	ug/L
|	Co	59	420.006	0.001	**0.020806**	0.02	90.0	ug/L
|	Ni	60	616.013	0.002	**0.902145**	0.05	5.3	ug/L
|	Ni	62	85.334	0.000	**0.122274**	0.17	141.1	ug/L
|	Cu	63	3343.725	0.008	**1.667289**	0.08	4.8	ug/L
|	Cu	65	316.004	0.000	**-0.179600**	0.03	17.1	ug/L
|	Zn	66	1090.708	0.003	**1.892247**	0.20	10.8	ug/L
|	Zn	67	4072.580	0.005	**17.494373**	1.10	6.3	ug/L
|	Zn	68	1681.433	0.005	**4.913354**	0.41	8.2	ug/L
|	V	51	15984.537	0.074	**10.890583**	0.24	2.2	ug/L
|	Cr	52	4453.361	0.004	**0.943497**	0.08	8.9	ug/L
|	Cr	53	25662.364	0.025	**25.701123**	2.04	7.9	ug/L
|	Mn	55	11574.021	0.035	**3.540118**	0.09	2.6	ug/L
|	Fe	54	22290.542	0.023	**24.112106**	0.25	1.0	ug/L
⌊	Fe	57	7435.936	0.016	**50.325966**	3.90	7.7	ug/L
⌈	As	75	658.431	0.001	**1.652671**	0.48	29.0	ug/L
|	Se	77	2642.244	0.002	**27.127129**	0.60	2.2	ug/L
|	Se	82	19.870	0.000	**-1.877820**	0.35	18.4	ug/L
|	Sr	88	711002.409	1.991	**215.944725**	7.90	3.7	ug/L
| >	Y	89	357249.371	357249.371				ug/L
|	Mo	95	1919.462	0.005	**4.195884**	0.19	4.4	ug/L
|	Mo	97	1126.044	0.003	**4.181089**	0.14	3.3	ug/L
⌊	Mo	98	2939.271	0.008	**4.328312**	0.29	6.8	ug/L
⌈	Ag	107	8.667	0.000	**-0.070982**	0.00	2.6	ug/L
|	Ag	109	3.333	0.000	**-0.224957**	0.00	1.6	ug/L
|	Cd	111	10.000	0.000	**0.014655**	0.01	49.4	ug/L
|	Cd	114	10.160	0.000	**0.369009**	0.00	0.7	ug/L

|>	In	115	170967.683	170967.683				ug/L
|	Sn	120	1647.386	-0.000	**0.285152**	0.03	11.1	ug/L
|	Sb	121	83.334	0.000	**0.594816**	0.01	1.4	ug/L
|	Sb	123	89.581	0.000	**0.402702**	0.01	3.7	ug/L
⌈	Ba	135	47440.712	0.311	**205.157628**	8.97	4.4	ug/L
|	Ba	137	80853.523	0.530	**205.824862**	4.64	2.3	ug/L
|	Tb	159	154697.981	-0.003				ug/L
|>	Ho	165	152400.634	152400.634				ug/L
|	Tl	203	4.000	0.000	**0.325953**	0.01	2.6	ug/L
|	Tl	205	8.000	0.000	**0.414241**	0.00	0.8	ug/L
⌊	Pb	208	149.334	0.001	**0.816449**	0.01	1.3	ug/L
	Kr	83	25.133	-10.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		79.181	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		78.566	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		71.100	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	76.047
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, February 24, 2011 11:40:10
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 4.032
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	31305.567	-0.008				ug/L
|	Li	7	82474.897	0.213	**93.894093**	4.23	4.5	ug/L
|	Be	9	20615.542	0.055	**89.962511**	3.65	4.1	ug/L
|	B	11	27966.040	0.071	**86.946790**	4.47	5.1	ug/L
|	Na	23	4535941.230	12.044	**4824.757376**	299.83	6.2	ug/L
|	Mg	24	2718759.236	7.241	**4790.750458**	192.55	4.0	ug/L
|	Al	27	8012642.067	21.335	**5074.692567**	157.61	3.1	ug/L
|	K	39	5690010.996	15.003	**4752.246437**	173.26	3.6	ug/L
|	Ca	43	25846.053	0.068	**4866.572891**	222.37	4.6	ug/L
| >	Sc	45	375493.227	375493.227				ug/L
|	Ti	49	16471.497	0.042	**95.401271**	2.05	2.2	ug/L
|	Co	59	324605.777	0.864	**95.585154**	2.76	2.9	ug/L
|	Ni	60	70067.419	0.186	**94.270775**	1.67	1.8	ug/L
|	Ni	62	10418.468	0.028	**92.610697**	1.62	1.7	ug/L
|	Cu	63	165107.452	0.437	**94.391903**	0.87	0.9	ug/L
|	Cu	65	76858.258	0.204	**94.804145**	0.33	0.3	ug/L
|	Zn	66	47789.149	0.127	**95.110220**	1.67	1.8	ug/L
|	Zn	67	10905.497	0.021	**91.102325**	2.48	2.7	ug/L
|	Zn	68	32439.485	0.086	**93.979208**	3.12	3.3	ug/L
|	V	51	245339.129	0.673	**94.661832**	2.13	2.3	ug/L
|	Cr	52	234757.157	0.614	**95.895709**	1.25	1.3	ug/L
|	Cr	53	53004.156	0.080	**94.186465**	2.14	2.3	ug/L
|	Mn	55	421987.429	1.120	**94.856677**	1.82	1.9	ug/L
|	Fe	54	1023043.514	2.673	**5026.608597**	84.95	1.7	ug/L
⌊	Fe	57	450258.339	1.190	**4948.994994**	83.48	1.7	ug/L
⌜	As	75	33307.588	0.073	**94.661738**	4.04	4.3	ug/L
|	Se	77	16617.661	0.032	**473.484606**	6.60	1.4	ug/L
|	Se	82	15090.664	0.033	**483.465309**	2.51	0.5	ug/L
|	Sr	88	399650.730	0.884	**95.591666**	1.93	2.0	ug/L
| >	Y	89	451739.337	451739.337				ug/L
|	Mo	95	52753.230	0.117	**94.636075**	0.83	0.9	ug/L
|	Mo	97	33237.963	0.074	**93.802781**	1.19	1.3	ug/L
⌊	Mo	98	85413.676	0.189	**93.442346**	1.71	1.8	ug/L
⌜	Ag	107	146998.635	0.641	**92.932821**	2.29	2.5	ug/L
|	Ag	109	141783.908	0.618	**94.442371**	2.83	3.0	ug/L
|	Cd	111	36177.266	0.158	**96.566238**	0.61	0.6	ug/L
|	Cd	114	82106.091	0.358	**96.413591**	2.01	2.1	ug/L

|>	In	115	229442.656	229442.656				ug/L
|	Sn	120	147338.329	0.632	**95.276979**	2.00	2.1	ug/L
|	Sb	121	117995.518	0.514	**94.578419**	1.95	2.1	ug/L
|	Sb	123	89545.728	0.390	**94.145198**	1.69	1.8	ug/L
⌈	Ba	135	26242.094	0.147	**97.447077**	3.36	3.4	ug/L
|	Ba	137	44258.510	0.249	**96.793706**	3.45	3.6	ug/L
|	Tb	159	180639.198	-0.002				ug/L
|>	Ho	165	177917.250	177917.250				ug/L
|	Tl	203	54277.591	0.305	**97.431771**	0.67	0.7	ug/L
|	Tl	205	128848.481	0.724	**95.172644**	1.33	1.4	ug/L
⌊	Pb	208	173736.294	0.976	**92.754400**	1.39	1.5	ug/L
	Kr	83	35.067	-0.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	93.894		
Be	9	89.963		
B	11	86.947		
Na	23	96.495		
Mg	24	95.815		
Al	27	99.504		
K	39	95.045		
Ca	43	97.331		
Sc	45		99.685	
Ti	49	95.401		
Co	59	95.585		
Ni	60	94.271		
Ni	62	92.611		
Cu	63	94.392		
Cu	65	94.804		
Zn	66	95.110		
Zn	67	91.102		
Zn	68	93.979		
V	51	94.662		
Cr	52	95.896		
Cr	53	94.186		
Mn	55	94.857		
Fe	54	100.532		
Fe	57	98.980		
As	75	94.662		
Se	77	94.697		
Se	82	96.693		
Sr	88	95.592		
Y	89		99.346	
Mo	95	94.636		
Mo	97	93.803		
Mo	98	93.442		
Ag	107	92.933		
Ag	109	94.442		
Cd	111	96.566		
Cd	114	96.414		
In	115		95.418	
Sn	120	95.277		
Sb	121	94.578		

Sb	123	94.145	
Ba	135	97.447	
Ba	137	96.794	
Tb	159		
Ho	165		88.779
Tl	203	97.432	
Tl	205	95.173	
Pb	208	92.754	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, February 24, 2011 11:43:29
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 6.033
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	34143.290	0.001				ug/L
|	Li	7	2758.267	0.001	**1.852489**	0.06	3.2	ug/L
|	Be	9	10.000	0.000	**1.147051**	0.01	0.7	ug/L
|	B	11	1092.709	-0.001	**-2.618175**	0.38	14.6	ug/L
|	Na	23	21282.535	0.012	**10.550676**	0.77	7.3	ug/L
|	Mg	24	966.703	0.001	**-2.894952**	0.64	22.2	ug/L
|	Al	27	1506.747	-0.000	**2.185989**	0.14	6.4	ug/L
|	K	39	59256.072	0.004	**-3.233398**	2.26	69.9	ug/L
|	Ca	43	230.669	0.000	**-9.040006**	5.86	64.9	ug/L
| >	Sc	45	369555.390	369555.390				ug/L
|	Ti	49	444.007	-0.000	**0.473458**	0.43	90.9	ug/L
|	Co	59	270.669	0.000	**-0.053795**	0.00	8.1	ug/L
|	Ni	60	75.334	-0.000	**-0.039870**	0.01	33.8	ug/L
|	Ni	62	74.667	-0.000	**-0.162757**	0.13	82.4	ug/L
|	Cu	63	480.675	-0.002	**-0.477529**	0.01	1.8	ug/L
|	Cu	65	97.334	-0.000	**-0.550522**	0.03	4.8	ug/L
|	Zn	66	130.667	-0.000	**-0.599418**	0.08	12.8	ug/L
|	Zn	67	3663.139	0.002	**-0.380482**	4.93	1294.9	ug/L
|	Zn	68	274.669	-0.000	**-0.486274**	0.18	37.4	ug/L
|	V	51	-8173.816	-0.002	**0.304831**	0.52	169.1	ug/L
|	Cr	52	4552.726	0.001	**0.536811**	0.06	11.2	ug/L
|	Cr	53	25031.928	0.006	**2.999556**	4.28	142.7	ug/L
|	Mn	55	2649.579	0.003	**0.877173**	0.02	2.8	ug/L
|	Fe	54	18765.314	-0.001	**-21.093111**	1.42	6.7	ug/L
⌊	Fe	57	3151.014	-0.001	**-18.135518**	0.47	2.6	ug/L
⌜	As	75	113.949	-0.000	**-0.410578**	0.31	76.0	ug/L
|	Se	77	2280.849	0.000	**-8.355565**	4.49	53.7	ug/L
|	Se	82	-5.180	0.000	**-2.859163**	0.15	5.1	ug/L
|	Sr	88	174.668	-0.000	**-0.570067**	0.01	1.4	ug/L
| >	Y	89	451150.864	451150.864				ug/L
|	Mo	95	70.000	0.000	**-0.042279**	0.02	40.1	ug/L
|	Mo	97	49.333	0.000	**0.308214**	0.03	9.0	ug/L
⌊	Mo	98	100.375	0.000	**0.379999**	0.01	3.9	ug/L
⌜	Ag	107	13.333	0.000	**-0.069877**	0.00	6.5	ug/L
|	Ag	109	6.000	0.000	**-0.223918**	0.00	0.0	ug/L
|	Cd	111	4.167	0.000	**-0.010275**	0.01	50.3	ug/L
|	Cd	114	17.167	0.000	**0.373140**	0.01	3.2	ug/L

|>	In	115	230933.740	230933.740				ug/L
|	Sn	120	2446.159	0.001	**0.428569**	0.07	16.3	ug/L
|	Sb	121	400.672	0.002	**0.823601**	0.06	6.8	ug/L
\L	Sb	123	281.499	0.001	**0.570491**	0.06	9.8	ug/L
|	Ba	135	10.667	-0.000	**0.496648**	0.00	0.9	ug/L
|	Ba	137	16.667	-0.000	**0.581263**	0.01	0.9	ug/L
|	Tb	159	179962.692	0.017				ug/L
|>	Ho	165	173852.217	173852.217				ug/L
|	Tl	203	29.333	0.000	**0.371176**	0.02	4.3	ug/L
|	Tl	205	66.667	0.000	**0.457401**	0.02	4.0	ug/L
\L	Pb	208	21.333	-0.000	**0.735627**	0.00	0.7	ug/L
	Kr	83	31.467	-4.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.108	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		99.216	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		96.038	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	86.751
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-12A
Sample Date/Time: Thursday, February 24, 2011 11:46:33
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-12A.034
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32491.860	-0.003				ug/L
|	Li	7	25138.771	0.062	**28.508417**	0.94	3.3	ug/L
|	Be	9	2.667	-0.000	**1.115302**	0.01	1.2	ug/L
|	B	11	24601.841	0.064	**78.113354**	2.21	2.8	ug/L
|	Na	23	90522981.611	248.140	**99296.796617**	1311.31	1.3	ug/L
|	Mg	24	7720613.263	21.170	**14013.477691**	485.80	3.5	ug/L
|	Al	27	25447.654	0.065	**17.807911**	0.52	2.9	ug/L
|	K	39	2029129.125	5.410	**1710.687793**	119.04	7.0	ug/L
|	Ca	43	110054.373	0.301	**21510.689483**	449.32	2.1	ug/L
| >	Sc	45	364752.328	364752.328				ug/L
|	Ti	49	819.357	0.001	**2.798784**	0.39	13.9	ug/L
|	Co	59	580.012	0.001	**0.041175**	0.01	32.9	ug/L
|	Ni	60	593.346	0.001	**0.679807**	0.04	5.7	ug/L
|	Ni	62	89.334	0.000	**-0.016083**	0.10	616.8	ug/L
|	Cu	63	2093.487	0.003	**0.483070**	0.05	9.4	ug/L
|	Cu	65	318.670	0.000	**-0.265835**	0.03	12.0	ug/L
|	Zn	66	2392.200	0.006	**4.078001**	0.16	4.0	ug/L
|	Zn	67	5131.589	0.006	**19.492713**	2.89	14.8	ug/L
|	Zn	68	2910.964	0.007	**7.497982**	0.44	5.9	ug/L
|	V	51	-5996.014	0.004	**1.097388**	0.89	80.7	ug/L
|	Cr	52	5357.005	0.004	**0.905619**	0.11	12.2	ug/L
|	Cr	53	30097.709	0.021	**21.354161**	5.54	25.9	ug/L
|	Mn	55	113317.735	0.307	**26.421365**	0.48	1.8	ug/L
|	Fe	54	29160.838	0.028	**33.980072**	3.71	10.9	ug/L
⌊	Fe	57	8104.300	0.013	**38.992450**	3.71	9.5	ug/L
⌈	As	75	603.065	0.001	**1.049532**	0.38	35.9	ug/L
|	Se	77	3153.682	0.002	**24.138814**	3.67	15.2	ug/L
|	Se	82	10.433	0.000	**-2.344053**	0.16	6.6	ug/L
|	Sr	88	737322.618	1.682	**182.380562**	8.56	4.7	ug/L
| >	Y	89	438191.456	438191.456				ug/L
|	Mo	95	2454.878	0.006	**4.379221**	0.06	1.4	ug/L
|	Mo	97	1436.739	0.003	**4.341335**	0.17	3.9	ug/L
⌊	Mo	98	3863.783	0.009	**4.615029**	0.07	1.4	ug/L
⌈	Ag	107	10.000	0.000	**-0.071709**	0.00	4.7	ug/L
|	Ag	109	8.667	0.000	**-0.221842**	0.00	0.9	ug/L
|	Cd	111	11.667	0.000	**0.011326**	0.01	97.7	ug/L
|	Cd	114	33.215	0.000	**0.394026**	0.01	2.8	ug/L

|>	In	115	218345.945	218345.945				ug/L
|	Sn	120	2196.033	0.000	**0.347809**	0.04	12.1	ug/L
|	Sb	121	121.334	0.000	**0.607336**	0.04	6.5	ug/L
|	Sb	123	113.324	0.000	**0.401459**	0.01	2.0	ug/L
⌈	Ba	135	59688.436	0.330	**217.576841**	2.79	1.3	ug/L
|	Ba	137	100219.695	0.554	**215.076460**	4.65	2.2	ug/L
|	Tb	159	182850.785	-0.006				ug/L
|>	Ho	165	180762.606	180762.606				ug/L
|	Tl	203	1.333	-0.000	**0.319950**	0.00	0.6	ug/L
|	Tl	205	9.333	0.000	**0.414141**	0.00	0.7	ug/L
⌊	Pb	208	214.001	0.001	**0.835664**	0.01	0.7	ug/L
	Kr	83	29.867	-5.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		96.833	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		96.366	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.803	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	90.199
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-13A
Sample Date/Time: Thursday, February 24, 2011 11:49:14
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-13A.035
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30709.147	-0.003				ug/L
|	Li	7	38835.393	0.105	**47.017627**	0.86	1.8	ug/L
|	Be	9	4.667	0.000	**1.125050**	0.01	1.0	ug/L
|	B	11	19798.382	0.053	**64.911031**	1.58	2.4	ug/L
|	Na	23	169217046.683	486.353	**194616.203061**	3144.89	1.6	ug/L
|	Mg	24	22133648.020	63.622	**42121.517041**	1023.94	2.4	ug/L
|	Al	27	51419.058	0.143	**36.354388**	0.53	1.5	ug/L
|	K	39	3130845.146	8.843	**2799.241430**	27.92	1.0	ug/L
|	Ca	43	356019.023	1.023	**73076.121926**	271.26	0.4	ug/L
| >	Sc	45	347906.425	347906.425				ug/L
|	Ti	49	842.025	0.001	**3.183705**	0.28	8.8	ug/L
|	Co	59	1633.427	0.004	**0.384769**	0.02	4.8	ug/L
|	Ni	60	1601.423	0.004	**2.185547**	0.08	3.4	ug/L
|	Ni	62	200.001	0.000	**1.095714**	0.35	32.0	ug/L
|	Cu	63	3188.356	0.006	**1.223939**	0.03	2.7	ug/L
|	Cu	65	422.673	0.000	**-0.106718**	0.05	45.1	ug/L
|	Zn	66	1485.411	0.004	**2.352836**	0.12	5.1	ug/L
|	Zn	67	5102.245	0.006	**22.322701**	1.28	5.7	ug/L
|	Zn	68	3227.031	0.008	**8.922945**	0.28	3.1	ug/L
|	V	51	-8612.534	-0.004	**-0.058125**	0.29	490.9	ug/L
|	Cr	52	5784.504	0.005	**1.206670**	0.05	4.0	ug/L
|	Cr	53	29233.216	0.023	**23.187100**	1.57	6.8	ug/L
|	Mn	55	2104598.459	6.045	**509.338124**	21.96	4.3	ug/L
|	Fe	54	46697.470	0.082	**136.403805**	3.29	2.4	ug/L
⌞	Fe	57	25071.315	0.063	**246.911144**	1.46	0.6	ug/L
⌜	As	75	558.320	0.001	**0.967496**	0.65	67.5	ug/L
|	Se	77	3316.385	0.003	**33.106062**	2.31	7.0	ug/L
|	Se	82	32.286	0.000	**-1.587181**	0.15	9.4	ug/L
|	Sr	88	2259161.575	5.305	**576.435796**	11.85	2.1	ug/L
| >	Y	89	425831.495	425831.495				ug/L
|	Mo	95	894.695	0.002	**1.537519**	0.06	3.6	ug/L
|	Mo	97	558.011	0.001	**1.836766**	0.07	3.8	ug/L
⌞	Mo	98	1427.112	0.003	**1.921937**	0.07	3.5	ug/L
⌜	Ag	107	16.667	0.000	**-0.066712**	0.00	6.5	ug/L
|	Ag	109	6.000	0.000	**-0.223482**	0.00	1.3	ug/L
|	Cd	111	6.500	0.000	**-0.002153**	0.00	170.8	ug/L
|	Cd	114	4.166	-0.000	**0.358633**	0.02	5.6	ug/L

|>	In	115	207924.156	207924.156				ug/L
|	Sn	120	2327.981	0.001	**0.518541**	0.27	51.3	ug/L
|	Sb	121	92.000	0.000	**0.586543**	0.01	1.7	ug/L
|	Sb	123	111.902	0.000	**0.406160**	0.03	7.4	ug/L
⌈	Ba	135	121990.771	0.721	**474.543606**	10.42	2.2	ug/L
|	Ba	137	204681.397	1.210	**468.555909**	10.73	2.3	ug/L
|	Tb	159	171709.943	-0.003				ug/L
|>	Ho	165	169235.144	169235.144				ug/L
|	Tl	203	7.333	0.000	**0.331397**	0.00	0.7	ug/L
|	Tl	205	13.333	0.000	**0.417639**	0.00	0.5	ug/L
⌊	Pb	208	3010.127	0.018	**2.400341**	0.01	0.3	ug/L
	Kr	83	31.600	-4.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		92.361	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		93.648	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		86.469	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	84.447
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-14A
Sample Date/Time: Thursday, February 24, 2011 11:51:54
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-14A.036
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	31871.943	0.000				ug/L
|	Li	7	23481.954	0.061	**27.947411**	0.74	2.6	ug/L
|	Be	9	1214.052	0.003	**6.762607**	0.21	3.1	ug/L
|	B	11	9360.399	0.023	**27.427415**	0.19	0.7	ug/L
|	Na	23	36452908.364	104.945	**41998.653895**	1471.49	3.5	ug/L
|	Mg	24	8599489.330	24.767	**16394.935273**	959.34	5.9	ug/L
|	Al	27	34030819.686	97.998	**23300.782486**	803.31	3.4	ug/L
|	K	39	1038237.415	2.835	**894.230131**	41.39	4.6	ug/L
|	Ca	43	173288.840	0.499	**35614.817205**	360.17	1.0	ug/L
| >	Sc	45	347190.983	347190.983				ug/L
|	Ti	49	1360.065	0.002	**6.514765**	0.06	0.9	ug/L
|	Co	59	283413.277	0.816	**90.221705**	0.56	0.6	ug/L
|	Ni	60	24384.795	0.070	**35.390223**	0.70	2.0	ug/L
|	Ni	62	3848.519	0.011	**36.509820**	1.30	3.6	ug/L
|	Cu	63	28477.691	0.079	**16.991225**	0.35	2.1	ug/L
|	Cu	65	13306.198	0.038	**17.201725**	0.43	2.5	ug/L
|	Zn	66	59412.692	0.170	**128.152737**	2.92	2.3	ug/L
|	Zn	67	13850.720	0.032	**143.059601**	9.20	6.4	ug/L
|	Zn	68	41290.284	0.118	**129.845288**	3.18	2.4	ug/L
|	V	51	-8438.433	-0.004	**0.007276**	0.48	6644.3	ug/L
|	Cr	52	8589.249	0.014	**2.469057**	0.07	2.8	ug/L
|	Cr	53	31291.581	0.029	**30.774864**	3.16	10.3	ug/L
|	Mn	55	12943034.298	37.278	**3137.872210**	24.92	0.8	ug/L
|	Fe	54	49744.893	0.091	**153.485461**	4.23	2.8	ug/L
⌊	Fe	57	19334.409	0.047	**178.641821**	5.28	3.0	ug/L
⌜	As	75	454.921	0.000	**0.036952**	0.04	115.1	ug/L
|	Se	77	3046.992	-0.001	**-24.601977**	2.22	9.0	ug/L
|	Se	82	21.825	0.000	**-2.275570**	0.21	9.2	ug/L
|	Sr	88	809864.084	1.060	**114.685458**	3.03	2.6	ug/L
| >	Y	89	763832.372	763832.372				ug/L
|	Mo	95	78.667	0.000	**-0.084580**	0.01	13.5	ug/L
|	Mo	97	40.000	0.000	**0.235433**	0.00	1.5	ug/L
⌊	Mo	98	97.041	0.000	**0.332982**	0.01	3.1	ug/L
⌜	Ag	107	12.667	0.000	**-0.069210**	0.00	4.3	ug/L
|	Ag	109	3.333	0.000	**-0.225369**	0.00	0.4	ug/L
|	Cd	111	22222.619	0.110	**67.501289**	2.41	3.6	ug/L
|	Cd	114	50235.690	0.249	**67.228214**	2.20	3.3	ug/L

|>	In	115	201599.918	201599.918				ug/L
|	Sn	120	1981.327	-0.000	**0.313817**	0.03	10.8	ug/L
|	Sb	121	99.334	0.000	**0.595712**	0.01	1.5	ug/L
\L	Sb	123	91.907	0.000	**0.386189**	0.01	3.6	ug/L
|	Ba	135	4049.908	0.023	**15.926878**	0.96	6.0	ug/L
|	Ba	137	7044.407	0.041	**16.382838**	1.09	6.7	ug/L
|	Tb	159	172687.463	-0.014				ug/L
|>	Ho	165	172188.513	172188.513				ug/L
|	Tl	203	55.333	0.000	**0.419972**	0.01	2.9	ug/L
|	Tl	205	152.001	0.001	**0.522729**	0.02	3.2	ug/L
\L	Pb	208	1866.715	0.011	**1.746283**	0.05	2.6	ug/L
	Kr	83	47.933	12.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		92.171	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		167.981	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		83.839	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	85.921
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-15A
Sample Date/Time: Thursday, February 24, 2011 11:54:35
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-15A.037
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	32517.024	0.003				ug/L
|	Li	7	4058.577	0.005	**3.752267**	0.12	3.3	ug/L
|	Be	9	11.333	0.000	**1.156993**	0.02	1.7	ug/L
|	B	11	26642.822	0.074	**90.997150**	1.39	1.5	ug/L
|	Na	23	50344704.389	146.932	**58799.200569**	4981.58	8.5	ug/L
|	Mg	24	48750.223	0.141	**89.622717**	9.97	11.1	ug/L
|	Al	27	700567.829	2.040	**487.334781**	26.99	5.5	ug/L
|	K	39	640628.063	1.714	**538.737325**	27.54	5.1	ug/L
|	Ca	43	19979.296	0.058	**4112.717277**	77.66	1.9	ug/L
| >	Sc	45	342725.659	342725.659				ug/L
|	Ti	49	2974.977	0.007	**17.115230**	0.84	4.9	ug/L
|	Co	59	1116.044	0.003	**0.225589**	0.01	6.4	ug/L
|	Ni	60	2356.194	0.007	**3.335304**	0.11	3.2	ug/L
|	Ni	62	428.006	0.001	**3.367123**	0.41	12.2	ug/L
|	Cu	63	24410.175	0.068	**14.652047**	0.23	1.5	ug/L
|	Cu	65	10742.705	0.031	**13.947394**	0.19	1.4	ug/L
|	Zn	66	3529.769	0.010	**6.900306**	0.18	2.7	ug/L
|	Zn	67	5485.054	0.008	**28.741622**	3.06	10.6	ug/L
|	Zn	68	2688.253	0.007	**7.346579**	0.41	5.5	ug/L
|	V	51	3754.853	0.031	**4.927938**	0.55	11.1	ug/L
|	Cr	52	8597.920	0.014	**2.523670**	0.09	3.4	ug/L
|	Cr	53	31933.670	0.032	**34.577299**	4.26	12.3	ug/L
|	Mn	55	17405.951	0.047	**4.547473**	0.22	4.8	ug/L
|	Fe	54	60245.264	0.124	**214.967732**	17.69	8.2	ug/L
⌞	Fe	57	19999.999	0.049	**189.779794**	9.38	4.9	ug/L
⌜	As	75	2047.892	0.004	**5.545079**	0.61	11.0	ug/L
|	Se	77	2799.608	0.002	**15.571104**	2.60	16.7	ug/L
|	Se	82	-5.174	0.000	**-2.871016**	0.10	3.6	ug/L
|	Sr	88	69972.293	0.165	**17.429200**	0.44	2.5	ug/L
| >	Y	89	421888.432	421888.432				ug/L
|	Mo	95	1314.727	0.003	**2.361772**	0.02	0.9	ug/L
|	Mo	97	788.022	0.002	**2.545476**	0.13	5.3	ug/L
⌞	Mo	98	2053.408	0.005	**2.668963**	0.09	3.3	ug/L
⌜	Ag	107	63.333	0.000	**-0.031714**	0.01	46.7	ug/L
|	Ag	109	50.000	0.000	**-0.189008**	0.01	3.8	ug/L
|	Cd	111	42.000	0.000	**0.109320**	0.02	22.6	ug/L
|	Cd	114	92.397	0.000	**0.478996**	0.01	1.1	ug/L

|>	In	115	196965.442	196965.442				ug/L
|	Sn	120	2137.392	0.001	**0.467327**	0.05	10.5	ug/L
|	Sb	121	580.679	0.003	**1.044651**	0.03	3.1	ug/L
L	Sb	123	471.001	0.002	**0.851696**	0.05	5.3	ug/L
⌈	Ba	135	2654.914	0.017	**11.582846**	0.54	4.7	ug/L
|	Ba	137	4574.732	0.029	**11.824000**	0.36	3.0	ug/L
|	Tb	159	158423.821	-0.008				ug/L
|>	Ho	165	156969.201	156969.201				ug/L
|	Tl	203	1.333	-0.000	**0.320272**	0.00	0.7	ug/L
|	Tl	205	10.000	0.000	**0.415685**	0.00	0.4	ug/L
L	Pb	208	8300.283	0.053	**5.708783**	0.23	4.1	ug/L
	Kr	83	30.667	-4.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		90.986	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		92.781	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		81.912	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	78.326
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-16A
Sample Date/Time: Thursday, February 24, 2011 11:57:15
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-16A.038
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	33416.739	0.008				ug/L
	Li	7	8883.428	0.020	**10.045795**	0.27	2.7	ug/L
	Be	9	3.333	-0.000	**1.119327**	0.01	1.0	ug/L
	B	11	17640.887	0.048	**59.194568**	1.13	1.9	ug/L
	Na	23	55567184.097	164.832	**65961.999958**	2966.39	4.5	ug/L
	Mg	24	114760.386	0.339	**220.849257**	15.35	7.0	ug/L
	Al	27	29418.605	0.083	**21.970010**	0.61	2.8	ug/L
	K	39	297264.305	0.726	**225.625600**	14.48	6.4	ug/L
	Ca	43	3661.803	0.010	**722.831716**	14.53	2.0	ug/L
>	Sc	45	337079.453	337079.453				ug/L
	Ti	49	902.695	0.001	**3.758647**	0.31	8.2	ug/L
	Co	59	266.669	0.000	**-0.047266**	0.01	15.2	ug/L
	Ni	60	1454.741	0.004	**2.040368**	0.04	1.9	ug/L
	Ni	62	277.336	0.001	**1.935808**	0.73	37.8	ug/L
	Cu	63	2530.224	0.005	**0.865535**	0.05	5.4	ug/L
	Cu	65	757.353	0.002	**0.374104**	0.05	14.1	ug/L
	Zn	66	1728.105	0.004	**3.002037**	0.45	14.9	ug/L
	Zn	67	5350.336	0.008	**28.084275**	2.09	7.4	ug/L
	Zn	68	1445.407	0.004	**3.426305**	0.42	12.2	ug/L
	V	51	-10540.409	-0.011	**-0.964407**	0.52	53.7	ug/L
	Cr	52	6986.375	0.010	**1.844892**	0.08	4.2	ug/L
	Cr	53	32984.042	0.037	**40.357203**	1.15	2.9	ug/L
	Mn	55	18277.018	0.050	**4.837383**	0.08	1.6	ug/L
	Fe	54	26885.116	0.028	**33.613749**	2.23	6.6	ug/L
	Fe	57	3529.103	0.001	**-10.034946**	0.29	2.8	ug/L
	As	75	487.311	0.001	**0.788155**	0.42	52.7	ug/L
	Se	77	2937.635	0.002	**22.635205**	0.45	2.0	ug/L
	Se	82	-5.027	0.000	**-2.868782**	0.06	2.0	ug/L
	Sr	88	67840.790	0.163	**17.223869**	0.68	4.0	ug/L
>	Y	89	413756.703	413756.703				ug/L
	Mo	95	686.683	0.002	**1.179447**	0.07	6.3	ug/L
	Mo	97	461.341	0.001	**1.587712**	0.08	5.1	ug/L
	Mo	98	1159.901	0.003	**1.652148**	0.07	4.3	ug/L
	Ag	107	10.000	0.000	**-0.071026**	0.00	5.2	ug/L
	Ag	109	1.333	-0.000	**-0.226855**	0.00	0.4	ug/L
	Cd	111	3.833	0.000	**-0.009368**	0.00	28.2	ug/L
	Cd	114	12.964	0.000	**0.370647**	0.01	1.4	ug/L

|>	In	115	197996.389	197996.389				ug/L
|	Sn	120	1963.290	0.000	**0.326713**	0.03	8.9	ug/L
|	Sb	121	40.000	-0.000	**0.542487**	0.00	0.2	ug/L
|	Sb	123	47.571	-0.000	**0.334508**	0.01	3.4	ug/L
⌈	Ba	135	3559.110	0.022	**14.935027**	0.63	4.2	ug/L
|	Ba	137	6147.990	0.038	**15.260938**	0.60	4.0	ug/L
|	Tb	159	162415.514	-0.013				ug/L
|>	Ho	165	161706.306	161706.306				ug/L
|	Tl	203	0.667	-0.000	**0.318925**	0.00	0.7	ug/L
|	Tl	205	3.333	-0.000	**0.410067**	0.00	0.6	ug/L
⌊	Pb	208	217.334	0.001	**0.850869**	0.01	1.5	ug/L
	Kr	83	28.933	-6.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.487	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		90.993	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		82.340	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	80.690
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-17A
Sample Date/Time: Thursday, February 24, 2011 11:59:56
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-17A.039
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	31699.201	0.006				ug/L
|	Li	7	24187.794	0.068	**31.040485**	0.26	0.8	ug/L
|	Be	9	9.333	0.000	**1.150032**	0.02	1.8	ug/L
|	B	11	11467.938	0.032	**38.057510**	1.42	3.7	ug/L
|	Na	23	164220874.429	507.648	**203137.242316**	12030.23	5.9	ug/L
|	Mg	24	41766960.962	129.125	**85492.849723**	1801.47	2.1	ug/L
|	Al	27	39452.827	0.117	**30.214983**	1.42	4.7	ug/L
|	K	39	1474764.008	4.403	**1391.458657**	18.27	1.3	ug/L
|	Ca	43	483696.736	1.495	**106807.866317**	2903.29	2.7	ug/L
| >	Sc	45	323460.638	323460.638				ug/L
|	Ti	49	916.029	0.001	**4.099304**	0.17	4.2	ug/L
|	Co	59	3333.723	0.010	**1.005828**	0.06	6.5	ug/L
|	Ni	60	2404.202	0.007	**3.616903**	0.06	1.7	ug/L
|	Ni	62	258.669	0.001	**1.852460**	0.36	19.2	ug/L
|	Cu	63	2890.959	0.006	**1.174818**	0.07	5.7	ug/L
|	Cu	65	414.673	0.001	**-0.075489**	0.05	65.0	ug/L
|	Zn	66	2114.824	0.006	**4.064174**	0.37	9.0	ug/L
|	Zn	67	5815.850	0.010	**38.184005**	1.47	3.8	ug/L
|	Zn	68	4041.905	0.012	**12.474717**	0.10	0.8	ug/L
|	V	51	-11246.281	-0.014	**-1.457618**	0.33	22.9	ug/L
|	Cr	52	6374.756	0.009	**1.686188**	0.06	3.5	ug/L
|	Cr	53	31784.658	0.037	**40.876723**	2.08	5.1	ug/L
|	Mn	55	437914.298	1.350	**114.212725**	1.77	1.6	ug/L
|	Fe	54	32761.342	0.049	**74.229026**	3.19	4.3	ug/L
⌞	Fe	57	24390.148	0.066	**260.856635**	9.58	3.7	ug/L
⌜	As	75	1367.142	0.003	**3.743567**	0.35	9.3	ug/L
|	Se	77	3766.497	0.004	**59.449038**	5.70	9.6	ug/L
|	Se	82	185.182	0.000	**4.132482**	0.66	16.0	ug/L
|	Sr	88	3730996.400	9.438	**1025.829855**	56.55	5.5	ug/L
| >	Y	89	395963.267	395963.267				ug/L
|	Mo	95	647.348	0.002	**1.161842**	0.09	7.9	ug/L
|	Mo	97	424.006	0.001	**1.531434**	0.01	0.5	ug/L
⌞	Mo	98	1020.484	0.002	**1.541599**	0.06	3.7	ug/L
⌜	Ag	107	9.333	0.000	**-0.071234**	0.00	2.9	ug/L
|	Ag	109	3.333	0.000	**-0.225183**	0.00	0.5	ug/L
|	Cd	111	243.169	0.001	**0.763672**	0.04	5.6	ug/L
|	Cd	114	587.346	0.003	**1.185951**	0.12	10.5	ug/L

|>	In	115	190041.531	190041.531				ug/L
|	Sn	120	1755.777	-0.001	**0.225108**	0.01	3.9	ug/L
|	Sb	121	1134.712	0.006	**1.599652**	0.11	6.8	ug/L
|	Sb	123	911.423	0.004	**1.430960**	0.06	4.5	ug/L
|	Ba	135	148731.160	0.967	**636.494639**	17.47	2.7	ug/L
|	Ba	137	251659.094	1.636	**633.658654**	7.16	1.1	ug/L
|	Tb	159	157623.942	0.007				ug/L
|>	Ho	165	153812.275	153812.275				ug/L
|	Tl	203	16.000	0.000	**0.351033**	0.02	4.9	ug/L
|	Tl	205	36.667	0.000	**0.438612**	0.01	1.7	ug/L
|	Pb	208	38400.124	0.250	**24.258197**	0.68	2.8	ug/L
	Kr	83	36.533	0.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.871	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		87.080	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		79.032	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	76.751
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-18A
Sample Date/Time: Thursday, February 24, 2011 12:02:36
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-18A.040
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	33173.610	0.010				ug/L
|	Li	7	9475.145	0.022	**11.142110**	0.10	0.9	ug/L
|	Be	9	3.333	-0.000	**1.119779**	0.01	1.0	ug/L
|	B	11	17078.217	0.048	**58.969328**	4.97	8.4	ug/L
|	Na	23	57247081.736	174.561	**69854.963377**	984.82	1.4	ug/L
|	Mg	24	93840.537	0.285	**184.996245**	6.90	3.7	ug/L
|	Al	27	60293.666	0.179	**44.955382**	1.48	3.3	ug/L
|	K	39	285151.596	0.714	**221.894190**	13.66	6.2	ug/L
|	Ca	43	2764.268	0.008	**549.602446**	38.62	7.0	ug/L
| >	Sc	45	327954.144	327954.144				ug/L
|	Ti	49	938.031	0.001	**4.174475**	0.53	12.7	ug/L
|	Co	59	249.336	0.000	**-0.050674**	0.01	10.0	ug/L
|	Ni	60	1050.039	0.003	**1.477136**	0.07	5.0	ug/L
|	Ni	62	210.668	0.000	**1.319521**	0.14	10.3	ug/L
|	Cu	63	1476.743	0.002	**0.217603**	0.10	46.8	ug/L
|	Cu	65	285.336	0.000	**-0.267077**	0.05	17.9	ug/L
|	Zn	66	1576.087	0.004	**2.765505**	0.38	13.9	ug/L
|	Zn	67	5268.972	0.008	**29.090398**	3.93	13.5	ug/L
|	Zn	68	1325.395	0.003	**3.161388**	0.51	16.1	ug/L
|	V	51	-11594.231	-0.015	**-1.553585**	0.82	52.5	ug/L
|	Cr	52	7143.786	0.011	**2.010973**	0.10	4.8	ug/L
|	Cr	53	33598.800	0.041	**46.192117**	5.41	11.7	ug/L
|	Mn	55	14708.235	0.041	**4.051790**	0.17	4.3	ug/L
|	Fe	54	27016.945	0.030	**38.612010**	4.74	12.3	ug/L
⌞	Fe	57	4353.997	0.004	**1.726016**	2.34	135.6	ug/L
⌜	As	75	454.460	0.001	**0.739266**	0.48	64.6	ug/L
|	Se	77	3003.649	0.002	**28.952521**	0.71	2.5	ug/L
|	Se	82	-3.970	0.000	**-2.837133**	0.17	6.0	ug/L
|	Sr	88	49977.268	0.124	**12.988773**	0.12	1.0	ug/L
| >	Y	89	399644.671	399644.671				ug/L
|	Mo	95	575.345	0.001	**1.001320**	0.14	13.9	ug/L
|	Mo	97	386.005	0.001	**1.397931**	0.04	2.8	ug/L
⌞	Mo	98	941.364	0.002	**1.431579**	0.08	5.7	ug/L
⌜	Ag	107	8.667	0.000	**-0.071791**	0.00	5.3	ug/L
|	Ag	109	0.667	-0.000	**-0.227380**	0.00	0.4	ug/L
|	Cd	111	3.500	0.000	**-0.010179**	0.00	39.8	ug/L
|	Cd	114	3.539	-0.000	**0.358109**	0.01	2.8	ug/L

|>	In	115	192547.031	192547.031				ug/L
|	Sn	120	1902.700	0.000	**0.321575**	0.03	8.4	ug/L
|	Sb	121	28.000	-0.000	**0.532097**	0.01	2.0	ug/L
|	Sb	123	53.744	-0.000	**0.343527**	0.02	6.3	ug/L
|	Ba	135	3076.331	0.019	**13.298345**	0.31	2.4	ug/L
|	Ba	137	5246.297	0.033	**13.441070**	0.69	5.1	ug/L
|	Tb	159	158780.521	-0.010				ug/L
|>	Ho	165	157613.282	157613.282				ug/L
|	Tl	203	2.667	-0.000	**0.322931**	0.01	1.8	ug/L
|	Tl	205	5.333	0.000	**0.411723**	0.00	0.6	ug/L
|	Pb	208	1046.681	0.006	**1.349764**	0.02	1.8	ug/L
	Kr	83	30.267	-5.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.064	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		87.889	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.074	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	78.648
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-19A
Sample Date/Time: Thursday, February 24, 2011 12:05:17
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-19A.041
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	31472.922	0.007				ug/L
|	Li	7	32938.611	0.096	**43.232451**	0.94	2.2	ug/L
|	Be	9	3.333	-0.000	**1.120162**	0.02	1.9	ug/L
|	B	11	8522.543	0.023	**27.005555**	0.77	2.9	ug/L
|	Na	23	83986177.843	262.330	**104975.098595**	2215.47	2.1	ug/L
|	Mg	24	22796615.654	71.219	**47152.216273**	2014.76	4.3	ug/L
|	Al	27	27095.674	0.080	**21.342525**	0.25	1.2	ug/L
|	K	39	1092733.760	3.258	**1028.331822**	29.54	2.9	ug/L
|	Ca	43	370459.889	1.157	**82649.740580**	853.34	1.0	ug/L
| >	Sc	45	320102.604	320102.604				ug/L
|	Ti	49	853.359	0.001	**3.730607**	0.20	5.5	ug/L
|	Co	59	741.353	0.002	**0.121441**	0.02	13.7	ug/L
|	Ni	60	1672.765	0.005	**2.500536**	0.09	3.4	ug/L
|	Ni	62	268.003	0.001	**1.979071**	0.27	13.5	ug/L
|	Cu	63	2133.493	0.004	**0.683114**	0.01	0.9	ug/L
|	Cu	65	490.675	0.001	**0.041635**	0.06	133.3	ug/L
|	Zn	66	2328.190	0.007	**4.618243**	0.32	6.9	ug/L
|	Zn	67	6305.393	0.011	**46.401949**	3.73	8.0	ug/L
|	Zn	68	6029.272	0.018	**19.466376**	0.18	0.9	ug/L
|	V	51	-3053.314	0.011	**2.065514**	1.17	56.8	ug/L
|	Cr	52	6632.206	0.010	**1.843663**	0.09	4.9	ug/L
|	Cr	53	31014.310	0.036	**39.172069**	3.39	8.7	ug/L
|	Mn	55	27782.991	0.083	**7.578083**	0.05	0.7	ug/L
|	Fe	54	28486.214	0.037	**51.021241**	0.93	1.8	ug/L
⌞	Fe	57	18714.257	0.049	**190.174301**	6.74	3.5	ug/L
⌜	As	75	330.716	0.000	**0.365123**	0.18	48.2	ug/L
|	Se	77	3353.727	0.004	**45.379054**	6.87	15.1	ug/L
|	Se	82	25.921	0.000	**-1.724476**	0.07	3.9	ug/L
|	Sr	88	2242709.935	5.748	**624.576416**	28.67	4.6	ug/L
| >	Y	89	390393.593	390393.593				ug/L
|	Mo	95	454.674	0.001	**0.777529**	0.02	2.0	ug/L
|	Mo	97	282.669	0.001	**1.089240**	0.10	8.8	ug/L
⌞	Mo	98	733.800	0.002	**1.196926**	0.03	2.5	ug/L
⌜	Ag	107	8.000	0.000	**-0.071953**	0.00	4.5	ug/L
|	Ag	109	4.667	0.000	**-0.224074**	0.00	1.8	ug/L
|	Cd	111	20.500	0.000	**0.047782**	0.01	12.0	ug/L
|	Cd	114	53.428	0.000	**0.432366**	0.03	6.0	ug/L

|>	In	115	182288.155	182288.155				ug/L
|	Sn	120	1745.954	-0.000	**0.276469**	0.04	15.3	ug/L
|	Sb	121	50.000	0.000	**0.555835**	0.00	0.7	ug/L
L	Sb	123	79.156	0.000	**0.381261**	0.01	2.5	ug/L
⌈	Ba	135	262535.848	1.746	**1148.395936**	31.69	2.8	ug/L
|	Ba	137	443888.994	2.952	**1142.722972**	32.95	2.9	ug/L
|	Tb	159	150779.896	-0.015				ug/L
|>	Ho	165	150457.473	150457.473				ug/L
|	Tl	203	2.667	-0.000	**0.323239**	0.01	2.0	ug/L
|	Tl	205	9.333	0.000	**0.415654**	0.01	1.8	ug/L
L	Pb	208	300.668	0.002	**0.912179**	0.01	1.1	ug/L
	Kr	83	35.667	0.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		84.980	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		85.855	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		75.808	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	75.077
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-20A
Sample Date/Time: Thursday, February 24, 2011 12:07:57
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-20A.042
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32935.047	0.010				ug/L
|	Li	7	7846.155	0.017	**9.079816**	0.50	5.6	ug/L
|	Be	9	3.333	-0.000	**1.120128**	0.01	1.1	ug/L
|	B	11	27598.650	0.081	**99.942129**	6.11	6.1	ug/L
|	Na	23	46366915.677	142.533	**57039.033123**	3089.33	5.4	ug/L
|	Mg	24	1453096.926	4.468	**2954.671983**	166.20	5.6	ug/L
|	Al	27	41022.149	0.122	**31.203379**	1.01	3.2	ug/L
|	K	39	1046302.806	3.061	**965.990318**	42.66	4.4	ug/L
|	Ca	43	20861.902	0.064	**4530.959688**	249.41	5.5	ug/L
| >	Sc	45	325468.225	325468.225				ug/L
|	Ti	49	835.358	0.001	**3.514767**	0.32	9.0	ug/L
|	Co	59	305.337	0.000	**-0.030703**	0.02	65.7	ug/L
|	Ni	60	987.368	0.003	**1.394970**	0.18	12.6	ug/L
|	Ni	62	208.002	0.000	**1.316728**	0.52	39.3	ug/L
|	Cu	63	1585.422	0.002	**0.296937**	0.10	35.1	ug/L
|	Cu	65	400.006	0.000	**-0.098993**	0.07	67.7	ug/L
|	Zn	66	1616.092	0.004	**2.877397**	0.09	3.1	ug/L
|	Zn	67	5082.238	0.007	**26.920324**	3.33	12.4	ug/L
|	Zn	68	1536.083	0.004	**3.898592**	0.12	3.0	ug/L
|	V	51	-11414.469	-0.015	**-1.503360**	0.24	15.7	ug/L
|	Cr	52	6552.169	0.009	**1.754416**	0.12	7.0	ug/L
|	Cr	53	32412.733	0.038	**42.592505**	4.15	9.7	ug/L
|	Mn	55	26006.320	0.076	**7.003891**	0.29	4.1	ug/L
|	Fe	54	31836.908	0.046	**67.787219**	5.15	7.6	ug/L
⌊	Fe	57	7217.157	0.013	**38.880739**	4.52	11.6	ug/L
⌈	As	75	2335.574	0.006	**7.057288**	0.54	7.6	ug/L
|	Se	77	2856.286	0.002	**26.588466**	0.87	3.3	ug/L
|	Se	82	-11.048	-0.000	**-3.106723**	0.10	3.2	ug/L
|	Sr	88	126005.994	0.324	**34.703500**	0.75	2.2	ug/L
| >	Y	89	388085.110	388085.110				ug/L
|	Mo	95	1595.423	0.004	**3.170953**	0.26	8.3	ug/L
|	Mo	97	976.700	0.002	**3.371673**	0.09	2.7	ug/L
⌊	Mo	98	2452.065	0.006	**3.383937**	0.20	6.1	ug/L
⌈	Ag	107	6.000	0.000	**-0.073586**	0.00	4.3	ug/L
|	Ag	109	2.667	0.000	**-0.225679**	0.00	0.4	ug/L
|	Cd	111	5.500	0.000	**-0.003026**	0.00	107.2	ug/L
|	Cd	114	17.896	0.000	**0.379011**	0.01	3.0	ug/L

|>	In	115	184554.554	184554.554				ug/L
|	Sn	120	1717.968	-0.001	**0.235683**	0.05	19.1	ug/L
|	Sb	121	34.667	-0.000	**0.539970**	0.01	1.4	ug/L
\L	Sb	123	53.991	-0.000	**0.346923**	0.01	3.9	ug/L
⌜	Ba	135	6205.348	0.041	**27.290154**	0.81	3.0	ug/L
|	Ba	137	10854.799	0.071	**28.160333**	1.63	5.8	ug/L
|	Tb	159	154340.959	-0.003				ug/L
|>	Ho	165	152063.759	152063.759				ug/L
|	Tl	203	2.667	-0.000	**0.323190**	0.00	1.5	ug/L
|	Tl	205	3.333	-0.000	**0.410239**	0.00	0.2	ug/L
\L	Pb	208	790.008	0.005	**1.213701**	0.01	0.6	ug/L
	Kr	83	31.600	-4.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		86.404	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		85.347	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		76.750	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	75.879
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-02A
Sample Date/Time: Thursday, February 24, 2011 13:18:04
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-02A.043
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	32361.640	0.006				ug/L
|	Li	7	32279.764	0.091	**205.006355**	2.58	1.3	ug/L
|	Be	9	846.025	0.003	**26.256704**	2.08	7.9	ug/L
|	B	11	12694.304	0.035	**209.037680**	6.07	2.9	ug/L
|	Na	23	46436548.740	140.509	**281146.376283**	8264.33	2.9	ug/L
|	Mg	24	6462010.645	19.562	**64744.303676**	624.84	1.0	ug/L
|	Al	27	35067191.802	106.149	**126193.861364**	3479.64	2.8	ug/L
|	K	39	1119252.113	3.232	**5100.086241**	156.20	3.1	ug/L
|	Ca	43	50893.229	0.154	**54790.889070**	1472.43	2.7	ug/L
| >	Sc	45	330268.937	330268.937				ug/L
|	Ti	49	931.364	0.001	**20.396028**	2.88	14.1	ug/L
|	Co	59	90026.809	0.272	**150.220549**	3.36	2.2	ug/L
|	Ni	60	21892.096	0.066	**166.964557**	2.37	1.4	ug/L
|	Ni	62	3263.039	0.010	**162.266304**	5.50	3.4	ug/L
|	Cu	63	3512.432	0.008	**7.707610**	0.25	3.3	ug/L
|	Cu	65	980.034	0.002	**3.557732**	0.40	11.1	ug/L
|	Zn	66	53289.888	0.161	**604.169667**	17.36	2.9	ug/L
|	Zn	67	9620.577	0.021	**458.174230**	47.19	10.3	ug/L
|	Zn	68	36016.029	0.108	**595.024594**	22.80	3.8	ug/L
|	V	51	30212.303	0.112	**80.925186**	3.38	4.2	ug/L
|	Cr	52	24467.606	0.063	**50.743746**	0.83	1.6	ug/L
|	Cr	53	20914.653	0.002	**-12.382961**	24.00	193.8	ug/L
|	Mn	55	2426726.091	7.346	**3094.142942**	71.93	2.3	ug/L
|	Fe	54	4233560.501	12.770	**120433.891236**	2662.38	2.2	ug/L
⌊	Fe	57	1767494.751	5.344	**111392.284448**	2782.04	2.5	ug/L
⌜	As	75	1082.964	0.001	**7.914396**	1.73	21.8	ug/L
|	Se	77	2118.157	-0.002	**-159.754635**	2.52	1.6	ug/L
|	Se	82	-54.768	-0.000	**-20.050982**	0.11	0.5	ug/L
|	Sr	88	487800.164	0.806	**435.730176**	9.20	2.1	ug/L
| >	Y	89	604377.249	604377.249				ug/L
|	Mo	95	143.334	0.000	**0.122681**	0.08	67.7	ug/L
|	Mo	97	73.334	0.000	**1.615191**	0.12	7.2	ug/L
⌊	Mo	98	209.856	0.000	**2.205742**	0.28	12.6	ug/L
⌜	Ag	107	16.000	0.000	**-0.332470**	0.03	8.3	ug/L
|	Ag	109	7.333	0.000	**-1.110861**	0.01	0.5	ug/L
|	Cd	111	35.000	0.000	**0.436430**	0.08	17.8	ug/L
|	Cd	114	81.748	0.000	**2.320629**	0.15	6.3	ug/L

|>	In	115	197218.593	197218.593				ug/L
|	Sn	120	2180.056	0.001	**2.501261**	0.39	15.8	ug/L
|	Sb	121	107.334	0.000	**3.027213**	0.06	2.0	ug/L
\L	Sb	123	116.910	0.000	**2.100603**	0.20	9.4	ug/L
|	Ba	135	16962.742	0.104	**345.598470**	4.08	1.2	ug/L
|	Ba	137	28388.209	0.175	**340.831667**	4.72	1.4	ug/L
|	Tb	159	164461.008	-0.005				ug/L
|>	Ho	165	162386.253	162386.253				ug/L
|	Tl	203	2.000	-0.000	**1.607754**	0.02	1.3	ug/L
|	Tl	205	8.000	0.000	**2.068659**	0.02	1.0	ug/L
\L	Pb	208	220.001	0.001	**4.259824**	0.05	1.2	ug/L
	Kr	83	98.000	62.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.679	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		132.914	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		82.017	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	81.029
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, February 24, 2011 13:27:02
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 4.045
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	29894.641	-0.005				ug/L
|	Li	7	77427.933	0.218	**95.906504**	2.36	2.5	ug/L
|	Be	9	19566.728	0.057	**92.872861**	3.93	4.2	ug/L
|	B	11	25518.124	0.070	**86.280690**	5.12	5.9	ug/L
|	Na	23	4287465.438	12.379	**4958.841441**	105.49	2.1	ug/L
|	Mg	24	2500779.030	7.242	**4791.060301**	66.42	1.4	ug/L
|	Al	27	7286245.029	21.108	**5020.541674**	91.70	1.8	ug/L
|	K	39	5343333.297	15.326	**4854.656219**	127.46	2.6	ug/L
|	Ca	43	23236.228	0.067	**4760.473540**	254.45	5.3	ug/L
| >	Sc	45	345217.455	345217.455				ug/L
|	Ti	49	14758.286	0.041	**92.974321**	2.88	3.1	ug/L
|	Co	59	297915.416	0.863	**95.467546**	4.68	4.9	ug/L
|	Ni	60	65214.581	0.189	**95.502552**	4.99	5.2	ug/L
|	Ni	62	9540.523	0.027	**92.362791**	6.52	7.1	ug/L
|	Cu	63	154045.819	0.444	**95.875197**	4.94	5.2	ug/L
|	Cu	65	70600.720	0.204	**94.789491**	3.93	4.1	ug/L
|	Zn	66	44018.383	0.127	**95.330041**	3.18	3.3	ug/L
|	Zn	67	9591.219	0.020	**85.160951**	4.58	5.4	ug/L
|	Zn	68	30687.594	0.088	**96.759292**	1.90	2.0	ug/L
|	V	51	226009.003	0.675	**94.919640**	3.34	3.5	ug/L
|	Cr	52	215909.434	0.615	**96.004311**	3.37	3.5	ug/L
|	Cr	53	47001.207	0.075	**88.062269**	7.34	8.3	ug/L
|	Mn	55	395653.349	1.143	**96.797850**	4.37	4.5	ug/L
|	Fe	54	942328.640	2.680	**5039.659353**	232.71	4.6	ug/L
⌞	Fe	57	428267.979	1.232	**5125.922705**	278.57	5.4	ug/L
⌜	As	75	31335.537	0.071	**92.200001**	1.03	1.1	ug/L
|	Se	77	15418.320	0.030	**451.741898**	24.19	5.4	ug/L
|	Se	82	14058.617	0.032	**466.394750**	13.32	2.9	ug/L
|	Sr	88	382289.136	0.876	**94.695593**	3.84	4.1	ug/L
| >	Y	89	436320.476	436320.476				ug/L
|	Mo	95	50780.168	0.116	**94.319048**	3.42	3.6	ug/L
|	Mo	97	31920.975	0.073	**93.274879**	2.54	2.7	ug/L
⌞	Mo	98	81784.834	0.187	**92.630089**	2.36	2.5	ug/L
⌜	Ag	107	142668.234	0.635	**92.075114**	3.64	3.9	ug/L
|	Ag	109	134758.153	0.600	**91.634995**	2.07	2.3	ug/L
|	Cd	111	34492.969	0.154	**94.018972**	4.13	4.4	ug/L
|	Cd	114	78457.154	0.349	**94.069819**	3.33	3.5	ug/L

|>	In	115	224701.694	224701.694				ug/L
|	Sn	120	141064.774	0.618	**93.131071**	3.60	3.9	ug/L
|	Sb	121	113686.812	0.506	**93.052201**	2.96	3.2	ug/L
L	Sb	123	86613.765	0.385	**92.988333**	4.27	4.6	ug/L
⌈	Ba	135	25329.777	0.143	**94.649460**	2.92	3.1	ug/L
|	Ba	137	43285.536	0.245	**95.273641**	4.30	4.5	ug/L
|	Tb	159	182344.406	0.014				ug/L
|>	Ho	165	176831.086	176831.086				ug/L
|	Tl	203	53089.848	0.300	**95.892239**	2.93	3.1	ug/L
|	Tl	205	130000.815	0.735	**96.618219**	4.66	4.8	ug/L
L	Pb	208	178883.752	1.011	**96.064133**	2.56	2.7	ug/L
	Kr	83	72.734	37.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	95.907		
Be	9	92.873		
B	11	86.281		
Na	23	99.177		
Mg	24	95.821		
Al	27	98.442		
K	39	97.093		
Ca	43	95.209		
Sc	45		91.647	
Ti	49	92.974		
Co	59	95.468		
Ni	60	95.503		
Ni	62	92.363		
Cu	63	95.875		
Cu	65	94.789		
Zn	66	95.330		
Zn	67	85.161		
Zn	68	96.759		
V	51	94.920		
Cr	52	96.004		
Cr	53	88.062		
Mn	55	96.798		
Fe	54	100.793		
Fe	57	102.518		
As	75	92.200		
Se	77	90.348		
Se	82	93.279		
Sr	88	94.696		
Y	89		95.955	
Mo	95	94.319		
Mo	97	93.275		
Mo	98	92.630		
Ag	107	92.075		
Ag	109	91.635		
Cd	111	94.019		
Cd	114	94.070		
In	115		93.446	
Sn	120	93.131		
Sb	121	93.052		

Sb	123	92.988	
Ba	135	94.649	
Ba	137	95.274	
Tb	159		
Ho	165		88.237
Tl	203	95.892	
Tl	205	96.618	
Pb	208	96.064	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, February 24, 2011 13:30:46
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 6.046
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	31198.459	0.001				ug/L
|	Li	7	2533.559	0.001	**1.865648**	0.20	10.7	ug/L
|	Be	9	5.333	0.000	**1.128937**	0.02	1.8	ug/L
|	B	11	1065.373	-0.001	**-2.375749**	0.25	10.5	ug/L
|	Na	23	14874.482	-0.001	**5.113870**	2.12	41.4	ug/L
|	Mg	24	633.348	0.001	**-3.380022**	0.29	8.7	ug/L
|	Al	27	1421.738	-0.000	**2.217489**	0.09	4.3	ug/L
|	K	39	54035.357	0.004	**-3.427832**	1.00	29.3	ug/L
|	Ca	43	212.002	0.000	**-8.809416**	6.90	78.3	ug/L
| >	Sc	45	338168.079	338168.079				ug/L
|	Ti	49	460.674	-0.000	**0.829116**	0.15	18.5	ug/L
|	Co	59	253.336	0.000	**-0.051995**	0.01	22.8	ug/L
|	Ni	60	63.333	-0.000	**-0.048292**	0.01	19.7	ug/L
|	Ni	62	52.000	-0.000	**-0.323720**	0.11	32.5	ug/L
|	Cu	63	1221.386	0.001	**0.022348**	0.07	303.0	ug/L
|	Cu	65	100.000	-0.000	**-0.535473**	0.04	7.9	ug/L
|	Zn	66	133.334	-0.000	**-0.569045**	0.03	5.7	ug/L
|	Zn	67	3060.329	0.001	**-4.549784**	2.34	51.4	ug/L
|	Zn	68	282.669	0.000	**-0.384211**	0.08	21.1	ug/L
|	V	51	-7820.806	-0.003	**0.169469**	0.57	333.9	ug/L
|	Cr	52	3854.520	0.000	**0.392926**	0.03	8.0	ug/L
|	Cr	53	21717.847	0.003	**-1.423232**	3.00	210.7	ug/L
|	Mn	55	2398.203	0.003	**0.870557**	0.07	8.1	ug/L
|	Fe	54	17636.221	0.000	**-18.509393**	2.80	15.1	ug/L
⌞	Fe	57	3181.688	0.000	**-14.458156**	0.94	6.5	ug/L
⌜	As	75	120.391	-0.000	**-0.371409**	0.48	128.5	ug/L
|	Se	77	2036.145	-0.000	**-12.908940**	2.83	21.9	ug/L
|	Se	82	-46.053	-0.000	**-4.258059**	0.19	4.4	ug/L
|	Sr	88	182.001	-0.000	**-0.565871**	0.00	0.2	ug/L
| >	Y	89	427815.839	427815.839				ug/L
|	Mo	95	55.333	0.000	**-0.063215**	0.03	49.1	ug/L
|	Mo	97	48.667	0.000	**0.313552**	0.04	11.5	ug/L
⌞	Mo	98	127.928	0.000	**0.417823**	0.03	6.2	ug/L
⌜	Ag	107	13.333	0.000	**-0.069455**	0.00	4.0	ug/L
|	Ag	109	9.333	0.000	**-0.221367**	0.00	1.6	ug/L
|	Cd	111	4.500	0.000	**-0.008632**	0.00	17.4	ug/L
|	Cd	114	8.170	-0.000	**0.363027**	0.02	5.0	ug/L

|>	In	115	218248.640	218248.640				ug/L
|	Sn	120	2537.500	0.002	**0.583514**	0.09	14.9	ug/L
|	Sb	121	512.010	0.002	**0.934676**	0.10	11.1	ug/L
|	Sb	123	451.420	0.002	**0.773933**	0.09	11.7	ug/L
⌈	Ba	135	9.333	-0.000	**0.491810**	0.00	0.9	ug/L
|	Ba	137	14.000	-0.000	**0.575484**	0.01	1.3	ug/L
|	Tb	159	176127.844	0.002				ug/L
|>	Ho	165	172792.107	172792.107				ug/L
|	Tl	203	19.333	0.000	**0.353250**	0.01	3.1	ug/L
|	Tl	205	76.000	0.000	**0.465015**	0.02	4.6	ug/L
⌊	Pb	208	20.667	-0.000	**0.735376**	0.00	0.6	ug/L
	Kr	83	74.800	39.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.776	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		94.085	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.763	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	86.222
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-02A
Sample Date/Time: Thursday, February 24, 2011 13:34:39
Sample Type: Sample
Sample Description: 25
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-02A.047
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 0.4000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	31014.982	0.002				ug/L
|	Li	7	7825.477	0.017	**222.261368**	10.54	4.7	ug/L
|	Be	9	151.334	0.000	**46.117873**	1.12	2.4	ug/L
|	B	11	2800.942	0.005	**107.494027**	18.19	16.9	ug/L
|	Na	23	8473473.327	25.596	**256187.121950**	3992.45	1.6	ug/L
|	Mg	24	1157542.341	3.501	**57859.633204**	1372.53	2.4	ug/L
|	Al	27	6213989.911	18.809	**111853.540176**	4403.82	3.9	ug/L
|	K	39	249291.611	0.598	**4627.863635**	210.32	4.5	ug/L
|	Ca	43	10028.852	0.030	**52891.750530**	867.21	1.6	ug/L
| >	Sc	45	330452.560	330452.560				ug/L
|	Ti	49	539.344	0.000	**35.732669**	2.32	6.5	ug/L
|	Co	59	17557.460	0.052	**143.762746**	8.47	5.9	ug/L
|	Ni	60	4311.317	0.013	**161.477265**	4.66	2.9	ug/L
|	Ni	62	642.681	0.002	**143.009674**	19.44	13.6	ug/L
|	Cu	63	2359.528	0.004	**19.665613**	1.80	9.2	ug/L
|	Cu	65	289.336	0.000	**-6.621980**	0.49	7.4	ug/L
|	Zn	66	11137.676	0.033	**613.916068**	27.07	4.4	ug/L
|	Zn	67	4658.096	0.006	**490.430179**	133.33	27.2	ug/L
|	Zn	68	7702.076	0.023	**610.080973**	11.08	1.8	ug/L
|	V	51	112.496	0.021	**86.020717**	16.56	19.2	ug/L
|	Cr	52	7915.526	0.013	**58.704147**	2.68	4.6	ug/L
|	Cr	53	21866.076	0.005	**25.926366**	108.35	417.9	ug/L
|	Mn	55	463024.218	1.398	**2956.474873**	125.01	4.2	ug/L
|	Fe	54	806490.635	2.390	**112318.294301**	5317.76	4.7	ug/L
⌞	Fe	57	360385.927	1.082	**112442.049607**	3803.39	3.4	ug/L
⌜	As	75	322.845	0.000	**4.620606**	11.08	239.8	ug/L
|	Se	77	1922.796	-0.001	**-523.158826**	52.66	10.1	ug/L
|	Se	82	-69.293	-0.000	**-122.776434**	2.57	2.1	ug/L
|	Sr	88	93329.208	0.205	**543.018343**	8.65	1.6	ug/L
| >	Y	89	454530.931	454530.931				ug/L
|	Mo	95	41.333	0.000	**-2.354909**	0.28	11.9	ug/L
|	Mo	97	24.000	0.000	**5.903386**	0.75	12.8	ug/L
⌞	Mo	98	61.041	0.000	**8.416069**	0.18	2.1	ug/L
⌜	Ag	107	14.000	0.000	**-1.718116**	0.09	5.3	ug/L
|	Ag	109	7.333	0.000	**-5.563031**	0.14	2.5	ug/L
|	Cd	111	10.667	0.000	**0.238912**	0.05	20.1	ug/L
|	Cd	114	27.186	0.000	**9.691495**	0.26	2.7	ug/L

|>	In	115	211909.585	211909.585				ug/L
|	Sn	120	2263.377	0.001	**11.052054**	2.11	19.1	ug/L
|	Sb	121	112.667	0.000	**15.075014**	0.39	2.6	ug/L
|	Sb	123	106.658	0.000	**9.950563**	0.79	8.0	ug/L
⌈	Ba	135	3551.108	0.021	**359.413113**	11.94	3.3	ug/L
|	Ba	137	6051.950	0.036	**362.386955**	9.91	2.7	ug/L
|	Tb	159	171775.308	0.006				ug/L
|>	Ho	165	167787.927	167787.927				ug/L
|	Tl	203	5.333	0.000	**8.190260**	0.19	2.4	ug/L
|	Tl	205	10.667	0.000	**10.391114**	0.12	1.2	ug/L
⌊	Pb	208	66.000	0.000	**19.030361**	0.11	0.6	ug/L
	Kr	83	96.934	61.334				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.727	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		99.960	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		88.126	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	83.725
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-14A
Sample Date/Time: Thursday, February 24, 2011 13:37:19
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-14A.048
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30638.688	0.001				ug/L
|	Li	7	6549.501	0.013	**36.085152**	0.54	1.5	ug/L
|	Be	9	286.003	0.001	**12.523773**	0.91	7.3	ug/L
|	B	11	2368.197	0.003	**13.285951**	2.52	19.0	ug/L
|	Na	23	7284407.179	22.016	**44075.010900**	521.06	1.2	ug/L
|	Mg	24	1754282.240	5.311	**17565.416380**	65.37	0.4	ug/L
|	Al	27	6687697.389	20.250	**24082.688299**	330.35	1.4	ug/L
|	K	39	250884.238	0.604	**933.987756**	14.48	1.6	ug/L
|	Ca	43	36490.551	0.110	**39220.224856**	681.47	1.7	ug/L
| >	Sc	45	330204.348	330204.348				ug/L
|	Ti	49	578.012	0.000	**8.461317**	1.79	21.2	ug/L
|	Co	59	62843.359	0.190	**104.663887**	3.89	3.7	ug/L
|	Ni	60	5415.693	0.016	**40.769029**	1.06	2.6	ug/L
|	Ni	62	826.691	0.002	**37.974558**	4.46	11.8	ug/L
|	Cu	63	8707.987	0.023	**24.735059**	0.32	1.3	ug/L
|	Cu	65	2973.643	0.008	**17.637475**	0.69	3.9	ug/L
|	Zn	66	14606.138	0.044	**162.425147**	6.65	4.1	ug/L
|	Zn	67	5459.710	0.008	**156.350983**	9.39	6.0	ug/L
|	Zn	68	10012.843	0.030	**160.694452**	5.65	3.5	ug/L
|	V	51	-7262.934	-0.002	**1.641623**	1.51	92.1	ug/L
|	Cr	52	4718.779	0.003	**4.215289**	0.06	1.4	ug/L
|	Cr	53	23339.054	0.009	**33.059850**	10.39	31.4	ug/L
|	Mn	55	2755364.320	8.341	**3512.989213**	98.55	2.8	ug/L
|	Fe	54	22865.978	0.017	**68.826372**	16.51	24.0	ug/L
⌊	Fe	57	6064.621	0.009	**114.528672**	3.86	3.4	ug/L
⌈	As	75	139.823	-0.000	**-1.794486**	3.02	168.6	ug/L
|	Se	77	2060.149	-0.001	**-100.661120**	13.01	12.9	ug/L
|	Se	82	-63.013	-0.000	**-22.992695**	0.95	4.1	ug/L
|	Sr	88	180588.196	0.375	**201.104847**	7.62	3.8	ug/L
| >	Y	89	481080.795	481080.795				ug/L
|	Mo	95	27.333	-0.000	**-0.609836**	0.06	9.7	ug/L
|	Mo	97	14.000	-0.000	**1.029098**	0.05	5.1	ug/L
⌊	Mo	98	31.260	-0.000	**1.512288**	0.01	0.9	ug/L
⌈	Ag	107	8.000	0.000	**-0.363041**	0.01	2.0	ug/L
|	Ag	109	4.000	0.000	**-1.124373**	0.01	0.7	ug/L
|	Cd	111	5330.161	0.026	**80.089093**	3.37	4.2	ug/L
|	Cd	114	11839.178	0.058	**79.803261**	2.81	3.5	ug/L

|>	In	115	203647.265	203647.265				ug/L
|	Sn	120	2177.364	0.001	**2.218100**	0.28	12.8	ug/L
|	Sb	121	62.000	0.000	**2.806321**	0.04	1.5	ug/L
L	Sb	123	69.991	-0.000	**1.796456**	0.08	4.6	ug/L
⌈	Ba	135	948.031	0.006	**20.793100**	0.44	2.1	ug/L
|	Ba	137	1590.089	0.009	**20.989462**	0.34	1.6	ug/L
|	Tb	159	169783.934	-0.009				ug/L
|>	Ho	165	168370.511	168370.511				ug/L
|	Tl	203	19.333	0.000	**1.770595**	0.01	0.5	ug/L
|	Tl	205	37.333	0.000	**2.181782**	0.02	0.8	ug/L
L	Pb	208	462.670	0.003	**4.914940**	0.03	0.7	ug/L
	Kr	83	95.200	59.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.661	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		105.799	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		84.690	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	84.016
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, February 24, 2011 13:41:02
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 4.049
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28560.425	-0.005				ug/L
|	Li	7	77439.347	0.229	**100.815383**	1.82	1.8	ug/L
|	Be	9	19130.802	0.058	**95.312974**	1.38	1.4	ug/L
|	B	11	26214.031	0.076	**93.551087**	1.40	1.5	ug/L
|	Na	23	4020901.369	12.193	**4884.366389**	63.15	1.3	ug/L
|	Mg	24	2442325.410	7.432	**4917.305609**	73.38	1.5	ug/L
|	Al	27	6795055.685	20.676	**4917.932808**	55.79	1.1	ug/L
|	K	39	5112710.793	15.405	**4879.607585**	70.66	1.4	ug/L
|	Ca	43	21846.028	0.066	**4698.094429**	101.66	2.2	ug/L
| >	Sc	45	328568.949	328568.949				ug/L
|	Ti	49	14259.784	0.042	**94.369447**	2.53	2.7	ug/L
|	Co	59	287082.766	0.873	**96.582373**	2.97	3.1	ug/L
|	Ni	60	61443.926	0.187	**94.455223**	2.78	2.9	ug/L
|	Ni	62	9272.344	0.028	**94.236191**	3.57	3.8	ug/L
|	Cu	63	147203.613	0.445	**96.182157**	2.90	3.0	ug/L
|	Cu	65	67871.567	0.206	**95.679044**	1.95	2.0	ug/L
|	Zn	66	42338.666	0.128	**96.288993**	1.69	1.8	ug/L
|	Zn	67	9593.888	0.021	**91.863390**	3.92	4.3	ug/L
|	Zn	68	29171.100	0.088	**96.601288**	2.24	2.3	ug/L
|	V	51	219984.572	0.690	**96.936178**	2.77	2.9	ug/L
|	Cr	52	208426.951	0.623	**97.331783**	0.87	0.9	ug/L
|	Cr	53	46973.781	0.082	**96.413725**	3.56	3.7	ug/L
|	Mn	55	380467.496	1.154	**97.730588**	1.96	2.0	ug/L
|	Fe	54	917528.573	2.740	**5154.524931**	52.82	1.0	ug/L
⌊	Fe	57	403006.845	1.217	**5063.352762**	138.39	2.7	ug/L
⌈	As	75	30145.725	0.074	**95.208919**	3.24	3.4	ug/L
|	Se	77	14064.921	0.030	**440.129751**	3.73	0.8	ug/L
|	Se	82	13399.272	0.033	**476.901441**	6.44	1.3	ug/L
|	Sr	88	360628.330	0.886	**95.846162**	3.38	3.5	ug/L
| >	Y	89	406609.444	406609.444				ug/L
|	Mo	95	46916.263	0.115	**93.498193**	1.33	1.4	ug/L
|	Mo	97	29436.303	0.072	**92.291101**	0.99	1.1	ug/L
⌊	Mo	98	75709.804	0.186	**92.020035**	0.82	0.9	ug/L
⌈	Ag	107	131951.274	0.643	**93.284797**	0.90	1.0	ug/L
|	Ag	109	125603.092	0.612	**93.564100**	0.63	0.7	ug/L
|	Cd	111	32074.470	0.156	**95.758619**	1.10	1.1	ug/L
|	Cd	114	72256.253	0.352	**94.886966**	1.37	1.4	ug/L

|>	In	115	205127.255	205127.255				ug/L
|	Sn	120	129566.158	0.622	**93.695655**	0.28	0.3	ug/L
|	Sb	121	103204.812	0.503	**92.527249**	0.75	0.8	ug/L
L	Sb	123	79315.326	0.386	**93.267670**	0.10	0.1	ug/L
⌈	Ba	135	23134.717	0.140	**92.588440**	1.25	1.3	ug/L
|	Ba	137	39143.554	0.237	**92.276817**	1.26	1.4	ug/L
|	Tb	159	169837.690	0.011				ug/L
|>	Ho	165	165108.082	165108.082				ug/L
|	Tl	203	52068.096	0.315	**100.697113**	2.30	2.3	ug/L
|	Tl	205	123986.053	0.751	**98.653782**	2.55	2.6	ug/L
L	Pb	208	171754.968	1.040	**98.764600**	1.64	1.7	ug/L
	Kr	83	78.867	43.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	100.815		
Be	9	95.313		
B	11	93.551		
Na	23	97.687		
Mg	24	98.346		
Al	27	96.430		
K	39	97.592		
Ca	43	93.962		
Sc	45		87.227	
Ti	49	94.369		
Co	59	96.582		
Ni	60	94.455		
Ni	62	94.236		
Cu	63	96.182		
Cu	65	95.679		
Zn	66	96.289		
Zn	67	91.863		
Zn	68	96.601		
V	51	96.936		
Cr	52	97.332		
Cr	53	96.414		
Mn	55	97.731		
Fe	54	103.090		
Fe	57	101.267		
As	75	95.209		
Se	77	88.026		
Se	82	95.380		
Sr	88	95.846		
Y	89		89.421	
Mo	95	93.498		
Mo	97	92.291		
Mo	98	92.020		
Ag	107	93.285		
Ag	109	93.564		
Cd	111	95.759		
Cd	114	94.887		
In	115		85.306	
Sn	120	93.696		
Sb	121	92.527		

Sb	123	93.268	
Ba	135	92.588	
Ba	137	92.277	
Tb	159		
Ho	165		82.388
Tl	203	100.697	
Tl	205	98.654	
Pb	208	98.765	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, February 24, 2011 13:44:46
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 6.050
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31359.344	0.003				ug/L
|	Li	7	2535.559	0.001	**1.935463**	0.12	6.1	ug/L
|	Be	9	6.000	0.000	**1.132800**	0.03	3.0	ug/L
|	B	11	934.031	-0.001	**-2.790279**	0.04	1.3	ug/L
|	Na	23	14440.633	-0.002	**4.958329**	0.62	12.5	ug/L
|	Mg	24	566.679	0.000	**-3.487639**	0.41	11.8	ug/L
|	Al	27	1570.087	0.000	**2.345036**	0.16	6.6	ug/L
|	K	39	54637.816	0.009	**-1.786343**	3.09	173.1	ug/L
|	Ca	43	206.668	0.000	**-9.030393**	1.65	18.3	ug/L
| >	Sc	45	331274.731	331274.731				ug/L
|	Ti	49	417.339	-0.000	**0.602600**	0.35	57.6	ug/L
|	Co	59	177.334	-0.000	**-0.075608**	0.01	14.7	ug/L
|	Ni	60	54.000	-0.000	**-0.060578**	0.01	22.2	ug/L
|	Ni	62	58.667	-0.000	**-0.245359**	0.06	23.9	ug/L
|	Cu	63	1887.458	0.003	**0.473748**	0.05	10.1	ug/L
|	Cu	65	98.667	-0.000	**-0.534492**	0.03	6.2	ug/L
|	Zn	66	120.001	-0.000	**-0.593214**	0.03	5.7	ug/L
|	Zn	67	3097.671	0.001	**-3.094963**	4.23	136.6	ug/L
|	Zn	68	212.002	-0.000	**-0.600454**	0.11	18.8	ug/L
|	V	51	-7658.564	-0.003	**0.169493**	0.35	208.6	ug/L
|	Cr	52	3954.548	0.001	**0.477081**	0.09	18.3	ug/L
|	Cr	53	22310.087	0.006	**2.475804**	3.26	131.7	ug/L
|	Mn	55	1478.077	0.001	**0.649073**	0.02	2.5	ug/L
|	Fe	54	16387.235	-0.003	**-23.581947**	1.32	5.6	ug/L
⌊	Fe	57	2499.552	-0.002	**-22.230233**	0.91	4.1	ug/L
⌈	As	75	150.457	-0.000	**-0.251122**	0.55	218.7	ug/L
|	Se	77	1810.115	-0.001	**-17.719642**	2.33	13.2	ug/L
|	Se	82	-42.406	-0.000	**-4.206067**	0.10	2.4	ug/L
|	Sr	88	177.334	-0.000	**-0.564873**	0.01	1.1	ug/L
| >	Y	89	407604.525	407604.525				ug/L
|	Mo	95	59.333	0.000	**-0.049677**	0.03	56.9	ug/L
|	Mo	97	34.000	0.000	**0.274939**	0.01	2.2	ug/L
⌊	Mo	98	83.187	0.000	**0.371081**	0.02	4.7	ug/L
⌈	Ag	107	15.333	0.000	**-0.067604**	0.00	5.2	ug/L
|	Ag	109	11.333	0.000	**-0.219549**	0.01	2.5	ug/L
|	Cd	111	4.000	0.000	**-0.009476**	0.00	26.7	ug/L
|	Cd	114	7.793	-0.000	**0.363152**	0.01	2.1	ug/L

|>	In	115	207675.178	207675.178				ug/L
|	Sn	120	2268.745	0.001	**0.478455**	0.02	4.6	ug/L
|	Sb	121	385.339	0.002	**0.845019**	0.05	6.1	ug/L
_	Sb	123	308.330	0.001	**0.633738**	0.06	10.2	ug/L
⌈	Ba	135	14.000	-0.000	**0.512619**	0.01	1.4	ug/L
|	Ba	137	8.667	-0.000	**0.564816**	0.01	1.4	ug/L
|	Tb	159	166740.943	0.004				ug/L
|>	Ho	165	163182.271	163182.271				ug/L
|	Tl	203	20.000	0.000	**0.356570**	0.02	6.8	ug/L
|	Tl	205	65.334	0.000	**0.459601**	0.04	9.1	ug/L
_	Pb	208	32.667	-0.000	**0.742941**	0.00	0.4	ug/L
	Kr	83	68.800	33.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.946	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		89.640	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		86.365	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	81.427
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Thursday, February 24, 2011 13:47:45
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\ICSA.051
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	28739.816	-0.001				ug/L
|	Li	7	2434.874	0.001	**1.963579**	0.09	4.3	ug/L
|	Be	9	6.667	0.000	**1.137562**	0.01	0.5	ug/L
|	B	11	1027.370	-0.001	**-2.243098**	0.14	6.0	ug/L
|	Na	23	71582788.536	226.855	**90779.915839**	2360.73	2.6	ug/L
|	Mg	24	43036070.433	136.411	**90317.326310**	2790.12	3.1	ug/L
|	Al	27	122954664.967	389.752	**92663.926224**	813.31	0.9	ug/L
|	K	39	93817565.232	297.234	**94237.103570**	652.58	0.7	ug/L
|	Ca	43	394391.318	1.250	**89289.865641**	1929.62	2.2	ug/L
| >	Sc	45	315469.541	315469.541				ug/L
|	Ti	49	266568.797	0.843	**1878.049188**	9.05	0.5	ug/L
|	Co	59	5143.593	0.016	**1.669855**	0.02	1.3	ug/L
|	Ni	60	1802.781	0.005	**2.747536**	0.10	3.6	ug/L
|	Ni	62	1128.045	0.003	**11.204664**	1.00	9.0	ug/L
|	Cu	63	4920.852	0.013	**2.616553**	0.31	11.9	ug/L
|	Cu	65	1829.451	0.005	**2.031737**	0.14	7.1	ug/L
|	Zn	66	1448.073	0.004	**2.594711**	0.15	5.7	ug/L
|	Zn	67	3356.396	0.002	**3.057570**	3.57	116.7	ug/L
|	Zn	68	550.677	0.001	**0.619192**	0.07	12.0	ug/L
|	V	51	-7266.148	-0.003	**0.182618**	0.55	302.8	ug/L
|	Cr	52	7046.405	0.011	**2.095164**	0.08	3.9	ug/L
|	Cr	53	21290.526	0.006	**2.639878**	1.96	74.4	ug/L
|	Mn	55	32116.731	0.098	**8.841649**	0.12	1.3	ug/L
|	Fe	54	17013229.480	53.878	**101685.600034**	1740.38	1.7	ug/L
⌊	Fe	57	7999558.298	25.349	**105732.080688**	2180.62	2.1	ug/L
⌜	As	75	308.319	0.000	**0.247396**	0.39	156.3	ug/L
|	Se	77	2334.191	0.001	**2.058867**	3.61	175.3	ug/L
|	Se	82	-40.207	-0.000	**-4.132158**	0.35	8.5	ug/L
|	Sr	88	26645.500	0.065	**6.519515**	0.21	3.2	ug/L
| >	Y	89	406397.799	406397.799				ug/L
|	Mo	95	972030.813	2.392	**1941.621506**	54.01	2.8	ug/L
|	Mo	97	615282.166	1.514	**1926.968699**	53.55	2.8	ug/L
⌊	Mo	98	1553763.277	3.824	**1884.222771**	29.91	1.6	ug/L
⌜	Ag	107	222.668	0.001	**0.080284**	0.01	8.5	ug/L
|	Ag	109	198.001	0.001	**-0.078976**	0.01	16.8	ug/L
|	Cd	111	807.023	0.004	**2.404719**	0.04	1.8	ug/L
|	Cd	114	1409.555	0.007	**2.209664**	0.02	0.8	ug/L

|>	In	115	203756.153	203756.153				ug/L
|	Sn	120	2861.417	0.004	**0.946455**	0.07	7.7	ug/L
|	Sb	121	270.003	0.001	**0.748030**	0.03	4.5	ug/L
\L	Sb	123	244.655	0.001	**0.565329**	0.01	1.4	ug/L
|	Ba	135	1317.394	0.007	**5.132340**	0.13	2.4	ug/L
|	Ba	137	2179.500	0.012	**5.098217**	0.14	2.8	ug/L
|	Tb	159	187224.316	-0.007				ug/L
|>	Ho	165	185186.677	185186.677				ug/L
|	Tl	203	142.001	0.001	**0.561769**	0.02	3.4	ug/L
|	Tl	205	350.671	0.002	**0.655099**	0.02	2.8	ug/L
\L	Pb	208	15708.735	0.085	**8.717265**	0.12	1.4	ug/L
	Kr	83	77.467	41.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		83.750	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		89.374	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		84.736	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	92.407
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Thursday, February 24, 2011 13:50:25
Sample Type: Spike - 2 of 106
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\ICSAB.052
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29047.571	0.001				ug/L
|	Li	7	2470.880	0.001	**2.022280**	0.08	3.9	ug/L
|	Be	9	4.000	0.000	**1.124136**	0.02	1.9	ug/L
|	B	11	1257.389	0.000	**-1.315217**	0.16	12.0	ug/L
|	Na	23	69711399.974	221.565	**88663.122085**	1519.38	1.7	ug/L
|	Mg	24	42335218.934	134.599	**89117.103308**	2919.61	3.3	ug/L
|	Al	27	122700223.292	390.149	**92758.347487**	3205.64	3.5	ug/L
|	K	39	95383483.767	303.080	**96090.643127**	2776.49	2.9	ug/L
|	Ca	43	399459.617	1.270	**90722.269546**	3488.30	3.8	ug/L
|>	Sc	45	314642.933	314642.933				ug/L
|	Ti	49	272558.417	0.865	**1926.183106**	60.75	3.2	ug/L
|	Co	59	238748.120	0.758	**83.886788**	2.56	3.1	ug/L
|	Ni	60	49450.138	0.157	**79.395379**	3.14	4.0	ug/L
|	Ni	62	8177.007	0.026	**86.738910**	2.75	3.2	ug/L
|	Cu	63	115272.580	0.364	**78.548324**	2.60	3.3	ug/L
|	Cu	65	52531.081	0.166	**77.239119**	2.53	3.3	ug/L
|	Zn	66	16146.454	0.051	**37.845906**	1.38	3.6	ug/L
|	Zn	67	6093.300	0.011	**44.811446**	0.33	0.7	ug/L
|	Zn	68	11460.599	0.036	**38.892608**	2.19	5.6	ug/L
|	V	51	172238.969	0.568	**79.906828**	1.83	2.3	ug/L
|	Cr	52	164954.891	0.513	**80.224695**	1.57	2.0	ug/L
|	Cr	53	41218.727	0.070	**81.547311**	1.12	1.4	ug/L
|	Mn	55	329642.090	1.044	**88.474928**	3.40	3.8	ug/L
|	Fe	54	17531545.491	55.671	**105069.072035**	2942.45	2.8	ug/L
⌊	Fe	57	8188410.617	26.023	**108545.225515**	3115.24	2.9	ug/L
⌈	As	75	12762.247	0.031	**40.349862**	0.94	2.3	ug/L
|	Se	77	3414.408	0.003	**43.818057**	3.12	7.1	ug/L
|	Se	82	1018.910	0.003	**34.195838**	0.35	1.0	ug/L
|	Sr	88	26539.967	0.065	**6.568250**	0.11	1.7	ug/L
|>	Y	89	401981.314	401981.314				ug/L
|	Mo	95	967286.958	2.406	**1953.226724**	30.25	1.5	ug/L
|	Mo	97	615140.714	1.530	**1947.608762**	35.75	1.8	ug/L
⌊	Mo	98	1570321.147	3.907	**1925.140833**	22.34	1.2	ug/L
⌈	Ag	107	24947.097	0.122	**17.611948**	0.26	1.5	ug/L
|	Ag	109	24029.528	0.117	**17.757538**	0.49	2.8	ug/L
|	Cd	111	13331.385	0.065	**39.876693**	0.85	2.1	ug/L
|	Cd	114	30009.547	0.147	**39.697927**	0.22	0.5	ug/L

|>	In	115	204701.958	204701.958				ug/L
|	Sn	120	2447.416	0.002	**0.633630**	0.03	4.5	ug/L
|	Sb	121	282.003	0.001	**0.757603**	0.01	1.1	ug/L
|	Sb	123	228.743	0.001	**0.544993**	0.03	6.2	ug/L
⌈	Ba	135	1328.729	0.007	**5.144264**	0.22	4.2	ug/L
|	Ba	137	2244.176	0.012	**5.204441**	0.07	1.4	ug/L
|	Tb	159	187707.293	-0.010				ug/L
|>	Ho	165	186309.724	186309.724				ug/L
|	Tl	203	152.001	0.001	**0.577444**	0.04	7.4	ug/L
|	Tl	205	357.338	0.002	**0.658312**	0.02	3.3	ug/L
⌊	Pb	208	15662.005	0.084	**8.646249**	0.12	1.4	ug/L
	Kr	83	67.800	32.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		83.530	
Ti	49			
Co	59			102.771
Ni	60			95.810
Ni	62			94.418
Cu	63			94.915
Cu	65			94.009
Zn	66			88.128
Zn	67			104.385
Zn	68			95.684
V	51			99.655
Cr	52			97.662
Cr	53			98.634
Mn	55			99.542
Fe	54			
Fe	57			
As	75			100.256
Se	77			104.398
Se	82			95.820
Sr	88			
Y	89		88.403	
Mo	95			
Mo	97			
Mo	98			
Ag	107			87.658
Ag	109			89.183
Cd	111			93.680
Cd	114			93.721
In	115		85.129	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	92.967
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: MBLK-98097
Sample Date/Time: Thursday, February 24, 2011 13:55:50
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\MBLK-98097.053
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30353.177	0.004				ug/L
|	Li	7	2576.899	0.001	**2.133406**	0.09	4.4	ug/L
|	Be	9	4.000	0.000	**1.123686**	0.01	0.9	ug/L
|	B	11	2878.957	0.005	**5.025151**	0.60	11.9	ug/L
|	Na	23	24721.383	0.033	**18.654577**	1.41	7.6	ug/L
|	Mg	24	3233.749	0.009	**2.126905**	3.06	143.9	ug/L
|	Al	27	46372.191	0.141	**35.869785**	9.33	26.0	ug/L
|	K	39	53433.531	0.012	**-0.726633**	5.29	728.5	ug/L
|	Ca	43	464.008	0.001	**50.703207**	3.77	7.4	ug/L
| >	Sc	45	317831.068	317831.068				ug/L
|	Ti	49	991.368	0.001	**4.736985**	0.54	11.4	ug/L
|	Co	59	146.667	-0.000	**-0.083719**	0.01	12.5	ug/L
|	Ni	60	277.336	0.001	**0.298312**	0.03	10.5	ug/L
|	Ni	62	86.667	0.000	**0.077120**	0.21	273.3	ug/L
|	Cu	63	754.687	-0.001	**-0.244684**	0.05	19.0	ug/L
|	Cu	65	129.334	-0.000	**-0.483655**	0.01	2.9	ug/L
|	Zn	66	1065.373	0.003	**1.662440**	0.18	10.9	ug/L
|	Zn	67	4231.297	0.005	**15.821154**	5.66	35.8	ug/L
|	Zn	68	816.023	0.002	**1.525603**	0.22	14.7	ug/L
|	V	51	-9253.222	-0.009	**-0.666014**	0.19	29.0	ug/L
|	Cr	52	5244.964	0.005	**1.186833**	0.07	5.6	ug/L
|	Cr	53	27711.531	0.026	**27.114297**	2.18	8.0	ug/L
|	Mn	55	1814.782	0.002	**0.754339**	0.02	3.2	ug/L
|	Fe	54	25222.465	0.027	**32.860489**	1.89	5.8	ug/L
⌊	Fe	57	3221.031	0.001	**-11.428128**	2.55	22.3	ug/L
⌈	As	75	140.079	-0.000	**-0.270146**	0.45	164.8	ug/L
|	Se	77	2502.219	0.001	**12.155636**	3.45	28.4	ug/L
|	Se	82	-17.243	-0.000	**-3.332915**	0.18	5.4	ug/L
|	Sr	88	976.700	0.002	**-0.340223**	0.01	4.1	ug/L
| >	Y	89	390533.568	390533.568				ug/L
|	Mo	95	398.006	0.001	**0.661268**	0.14	20.5	ug/L
|	Mo	97	252.002	0.001	**0.993770**	0.20	19.6	ug/L
⌊	Mo	98	665.724	0.002	**1.113038**	0.17	15.6	ug/L
⌈	Ag	107	6.667	0.000	**-0.073367**	0.00	1.1	ug/L
|	Ag	109	2.667	0.000	**-0.225775**	0.00	1.1	ug/L
|	Cd	111	3.667	0.000	**-0.009764**	0.00	33.1	ug/L
|	Cd	114	-3.340	-0.000	**0.348323**	0.01	3.8	ug/L

|>	In	115	195195.506	195195.506				ug/L
|	Sn	120	1929.294	0.000	**0.322014**	0.03	10.2	ug/L
|	Sb	121	36.000	-0.000	**0.539433**	0.01	2.6	ug/L
|	Sb	123	62.988	-0.000	**0.354483**	0.02	6.8	ug/L
⌈	Ba	135	58.667	0.000	**0.699818**	0.05	7.7	ug/L
|	Ba	137	72.000	0.000	**0.720172**	0.03	3.8	ug/L
|	Tb	159	161203.897	0.001				ug/L
|>	Ho	165	158253.078	158253.078				ug/L
|	Tl	203	0.667	-0.000	**0.318928**	0.00	0.7	ug/L
|	Tl	205	5.333	0.000	**0.411759**	0.00	0.8	ug/L
⌊	Pb	208	50.667	0.000	**0.754248**	0.01	0.8	ug/L
	Kr	83	39.467	3.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		84.377	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		85.886	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		81.176	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	78.967
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: LCS-98097
Sample Date/Time: Thursday, February 24, 2011 13:58:31
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\LCS-98097.054
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	27371.580	-0.002				ug/L
|	Li	7	80997.825	0.257	**113.070147**	5.44	4.8	ug/L
|	Be	9	19693.565	0.064	**104.913039**	1.63	1.6	ug/L
|	B	11	29165.081	0.091	**112.631463**	3.47	3.1	ug/L
|	Na	23	4001725.077	12.993	**5204.586605**	134.84	2.6	ug/L
|	Mg	24	2413024.608	7.860	**5200.570591**	65.05	1.3	ug/L
|	Al	27	6793460.710	22.129	**5263.393900**	103.30	2.0	ug/L
|	K	39	5078489.389	16.390	**5191.924381**	89.30	1.7	ug/L
|	Ca	43	21830.003	0.071	**5029.341245**	136.35	2.7	ug/L
| >	Sc	45	306979.231	306979.231				ug/L
|	Ti	49	15034.580	0.047	**106.813623**	4.91	4.6	ug/L
|	Co	59	306629.401	0.998	**110.465768**	4.42	4.0	ug/L
|	Ni	60	65129.507	0.212	**107.211491**	3.70	3.5	ug/L
|	Ni	62	9672.611	0.031	**105.359388**	5.80	5.5	ug/L
|	Cu	63	152406.090	0.494	**106.688605**	2.83	2.7	ug/L
|	Cu	65	69447.211	0.226	**104.872329**	4.47	4.3	ug/L
|	Zn	66	41654.011	0.135	**101.474414**	4.20	4.1	ug/L
|	Zn	67	11251.099	0.028	**127.480949**	3.49	2.7	ug/L
|	Zn	68	28531.156	0.092	**101.225842**	4.85	4.8	ug/L
|	V	51	220908.785	0.740	**103.977501**	5.06	4.9	ug/L
|	Cr	52	213187.902	0.684	**106.735511**	5.58	5.2	ug/L
|	Cr	53	55430.018	0.119	**143.172027**	6.88	4.8	ug/L
|	Mn	55	396536.135	1.289	**109.038362**	6.67	6.1	ug/L
|	Fe	54	925667.997	2.964	**5577.358861**	271.52	4.9	ug/L
⌞	Fe	57	419005.298	1.356	**5642.761958**	292.52	5.2	ug/L
⌜	As	75	28394.732	0.074	**95.634912**	2.89	3.0	ug/L
|	Se	77	13666.538	0.031	**459.126613**	19.71	4.3	ug/L
|	Se	82	12140.048	0.032	**460.683346**	10.87	2.4	ug/L
|	Sr	88	360175.662	0.944	**102.114770**	2.82	2.8	ug/L
| >	Y	89	381329.930	381329.930				ug/L
|	Mo	95	46833.993	0.123	**99.534069**	1.94	1.9	ug/L
|	Mo	97	29099.620	0.076	**97.271000**	2.04	2.1	ug/L
⌞	Mo	98	75175.225	0.197	**97.402585**	0.70	0.7	ug/L
⌜	Ag	107	127244.890	0.668	**96.903985**	1.88	1.9	ug/L
|	Ag	109	121610.796	0.639	**97.596673**	2.14	2.2	ug/L
|	Cd	111	29968.234	0.157	**96.393282**	2.67	2.8	ug/L
|	Cd	114	68020.187	0.357	**96.229485**	2.62	2.7	ug/L

|>	In	115	190475.987	190475.987				ug/L
|	Sn	120	125483.344	0.649	**97.838225**	4.18	4.3	ug/L
|	Sb	121	98401.891	0.517	**95.066186**	4.61	4.8	ug/L
|	Sb	123	74187.902	0.389	**93.998185**	3.30	3.5	ug/L
|	Ba	135	22857.606	0.146	**96.733459**	1.22	1.3	ug/L
|	Ba	137	38657.578	0.248	**96.361902**	2.02	2.1	ug/L
|	Tb	159	159077.644	0.001				ug/L
|>	Ho	165	156096.202	156096.202				ug/L
|	Tl	203	54990.972	0.352	**112.455836**	0.40	0.4	ug/L
|	Tl	205	131645.911	0.843	**110.748625**	1.64	1.5	ug/L
|	Pb	208	183095.492	1.173	**111.268398**	2.59	2.3	ug/L
	Kr	83	44.267	8.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		81.496	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		83.861	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		79.213	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	77.891
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-33A
Sample Date/Time: Thursday, February 24, 2011 14:01:55
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-33A.055
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29382.573	0.002				ug/L
|	Li	7	12396.045	0.033	**15.682719**	0.45	2.9	ug/L
|	Be	9	214.002	0.001	**2.203084**	0.16	7.2	ug/L
|	B	11	18326.417	0.054	**66.511014**	0.92	1.4	ug/L
|	Na	23	28271023.488	89.729	**35909.812655**	1929.56	5.4	ug/L
|	Mg	24	3119203.526	9.904	**6553.606270**	306.67	4.7	ug/L
|	Al	27	9283169.038	29.471	**7008.823382**	197.09	2.8	ug/L
|	K	39	2981395.151	9.311	**2947.559923**	219.15	7.4	ug/L
|	Ca	43	65172.334	0.206	**14733.290062**	88.63	0.6	ug/L
|>	Sc	45	314963.263	314963.263				ug/L
|	Ti	49	1395.402	0.003	**7.657226**	0.38	5.0	ug/L
|	Co	59	40175.081	0.127	**13.984235**	0.13	0.9	ug/L
|	Ni	60	15053.261	0.048	**24.032748**	0.22	0.9	ug/L
|	Ni	62	2265.513	0.007	**23.390861**	0.66	2.8	ug/L
|	Cu	63	37879.520	0.117	**25.261750**	0.71	2.8	ug/L
|	Cu	65	17246.405	0.054	**24.868904**	0.39	1.5	ug/L
|	Zn	66	48514.264	0.153	**115.269442**	2.11	1.8	ug/L
|	Zn	67	11776.856	0.029	**131.071334**	6.86	5.2	ug/L
|	Zn	68	32817.669	0.103	**113.595570**	2.43	2.1	ug/L
|	V	51	-7604.235	-0.004	**0.028169**	0.16	581.5	ug/L
|	Cr	52	10325.732	0.022	**3.721399**	0.15	3.9	ug/L
|	Cr	53	29549.200	0.033	**35.355156**	2.22	6.3	ug/L
|	Mn	55	2522165.461	8.004	**674.212420**	5.88	0.9	ug/L
|	Fe	54	60325.554	0.139	**244.580531**	1.95	0.8	ug/L
⌊	Fe	57	21355.287	0.059	**229.135399**	4.56	2.0	ug/L
⌈	As	75	418.007	0.000	**0.484421**	0.40	82.6	ug/L
|	Se	77	2608.905	0.001	**4.201426**	4.96	118.0	ug/L
|	Se	82	0.784	0.000	**-2.667479**	0.19	7.1	ug/L
|	Sr	88	289544.460	0.652	**70.404574**	0.35	0.5	ug/L
|>	Y	89	443425.407	443425.407				ug/L
|	Mo	95	76.667	0.000	**-0.027896**	0.01	50.8	ug/L
|	Mo	97	56.000	0.000	**0.329244**	0.02	6.7	ug/L
⌊	Mo	98	132.969	0.000	**0.418009**	0.01	3.3	ug/L
⌈	Ag	107	20.667	0.000	**-0.062223**	0.00	3.9	ug/L
|	Ag	109	10.667	0.000	**-0.219151**	0.00	1.1	ug/L
|	Cd	111	15740.834	0.084	**51.706493**	0.31	0.6	ug/L
|	Cd	114	35459.895	0.190	**51.409682**	0.89	1.7	ug/L

|>	In	115	186404.931	186404.931				ug/L
|	Sn	120	1954.656	0.001	**0.412761**	0.02	3.8	ug/L
|	Sb	121	894.695	0.005	**1.384077**	0.09	6.6	ug/L
|	Sb	123	730.592	0.004	**1.219492**	0.05	3.7	ug/L
⌈	Ba	135	6163.997	0.039	**25.899108**	1.35	5.2	ug/L
|	Ba	137	10345.745	0.065	**25.660935**	0.16	0.6	ug/L
|	Tb	159	160123.925	-0.013				ug/L
|>	Ho	165	159370.179	159370.179				ug/L
|	Tl	203	99.334	0.001	**0.515926**	0.08	16.2	ug/L
|	Tl	205	234.002	0.001	**0.599378**	0.05	7.7	ug/L
⌊	Pb	208	53072.467	0.333	**32.118725**	1.27	3.9	ug/L
	Kr	83	44.600	9.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		83.615	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		97.517	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		77.520	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	79.524
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-33ASD
Sample Date/Time: Thursday, February 24, 2011 14:08:51
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-33ASD.057
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30056.300	0.006				ug/L
|	Li	7	4375.337	0.007	**23.811635**	0.43	1.8	ug/L
|	Be	9	42.000	0.000	**6.618413**	0.15	2.3	ug/L
|	B	11	4027.901	0.009	**50.075639**	2.90	5.8	ug/L
|	Na	23	5339849.500	17.252	**34544.416313**	227.21	0.7	ug/L
|	Mg	24	570717.991	1.847	**6096.680760**	148.48	2.4	ug/L
|	Al	27	1686461.086	5.459	**6500.514642**	102.99	1.6	ug/L
|	K	39	592052.729	1.762	**2770.194053**	30.21	1.1	ug/L
|	Ca	43	12178.527	0.039	**13830.123345**	560.43	4.1	ug/L
| >	Sc	45	308698.873	308698.873				ug/L
|	Ti	49	544.010	0.000	**8.611436**	2.37	27.5	ug/L
|	Co	59	7433.937	0.023	**12.656466**	0.71	5.6	ug/L
|	Ni	60	2961.640	0.009	**23.551001**	0.11	0.5	ug/L
|	Ni	62	465.341	0.001	**21.186864**	1.33	6.3	ug/L
|	Cu	63	7968.890	0.023	**24.137572**	1.03	4.3	ug/L
|	Cu	65	3420.410	0.010	**22.481841**	1.77	7.9	ug/L
|	Zn	66	9946.131	0.032	**117.140233**	4.63	4.0	ug/L
|	Zn	67	4899.508	0.008	**140.605506**	22.39	15.9	ug/L
|	Zn	68	7029.731	0.022	**119.050126**	5.29	4.4	ug/L
|	V	51	-7848.702	-0.005	**-0.761708**	1.53	200.2	ug/L
|	Cr	52	5134.923	0.006	**6.040024**	0.24	3.9	ug/L
|	Cr	53	23944.062	0.016	**75.909456**	19.36	25.5	ug/L
|	Mn	55	464023.867	1.499	**633.925901**	6.05	1.0	ug/L
|	Fe	54	23587.429	0.024	**136.492321**	20.39	14.9	ug/L
⌞	Fe	57	5902.553	0.010	**130.285307**	5.31	4.1	ug/L
⌜	As	75	235.297	0.000	**0.180511**	2.50	1387.2	ug/L
|	Se	77	1998.140	0.000	**-42.587069**	13.15	30.9	ug/L
|	Se	82	-20.220	-0.000	**-17.165891**	0.62	3.6	ug/L
|	Sr	88	53328.063	0.134	**70.163975**	0.71	1.0	ug/L
| >	Y	89	395989.356	395989.356				ug/L
|	Mo	95	18.667	-0.000	**-0.648678**	0.04	5.5	ug/L
|	Mo	97	12.667	-0.000	**1.048107**	0.05	5.1	ug/L
⌞	Mo	98	29.708	-0.000	**1.536303**	0.06	3.6	ug/L
⌜	Ag	107	8.000	0.000	**-0.360999**	0.01	2.2	ug/L
|	Ag	109	5.333	0.000	**-1.118045**	0.00	0.4	ug/L
|	Cd	111	3055.660	0.016	**49.144805**	1.43	2.9	ug/L
|	Cd	114	6868.902	0.036	**50.267313**	1.96	3.9	ug/L

|>	In	115	190075.465	190075.465				ug/L
|	Sn	120	2025.401	0.001	**2.195185**	0.32	14.8	ug/L
|	Sb	121	192.668	0.001	**3.454537**	0.03	0.7	ug/L
\L	Sb	123	141.912	0.000	**2.280756**	0.01	0.7	ug/L
\[	Ba	135	1102.709	0.007	**26.025792**	1.18	4.5	ug/L
|	Ba	137	1824.783	0.012	**25.839804**	1.28	5.0	ug/L
|	Tb	159	152339.335	-0.020				ug/L
|>	Ho	165	152720.075	152720.075				ug/L
|	Tl	203	12.000	0.000	**1.712358**	0.07	4.2	ug/L
|	Tl	205	40.667	0.000	**2.210832**	0.02	1.0	ug/L
\L	Pb	208	9470.575	0.062	**32.844395**	0.99	3.0	ug/L
	Kr	83	45.067	9.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		81.952	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		87.085	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		79.046	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	76.206
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-33AMS
Sample Date/Time: Thursday, February 24, 2011 14:13:04
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-33AMS.058
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	26801.636	-0.005				ug/L
|	Li	7	88239.081	0.278	**121.924117**	6.19	5.1	ug/L
|	Be	9	18051.405	0.058	**95.270390**	6.14	6.4	ug/L
|	B	11	44357.554	0.139	**172.763827**	15.26	8.8	ug/L
|	Na	23	38385225.856	123.626	**49473.511019**	2042.58	4.1	ug/L
|	Mg	24	5926901.054	19.091	**12636.814147**	363.78	2.9	ug/L
|	Al	27	17329187.718	55.843	**13278.669998**	611.63	4.6	ug/L
|	K	39	7836866.792	25.078	**7946.587345**	146.01	1.8	ug/L
|	Ca	43	91969.948	0.296	**21133.877139**	1312.14	6.2	ug/L
| >	Sc	45	310624.021	310624.021				ug/L
|	Ti	49	13727.267	0.043	**96.301068**	7.51	7.8	ug/L
|	Co	59	315478.947	1.016	**112.397888**	4.94	4.4	ug/L
|	Ni	60	74026.748	0.238	**120.581527**	7.54	6.2	ug/L
|	Ni	62	10813.430	0.035	**116.636373**	8.86	7.6	ug/L
|	Cu	63	172970.849	0.555	**119.902781**	7.72	6.4	ug/L
|	Cu	65	80306.613	0.258	**120.112654**	8.41	7.0	ug/L
|	Zn	66	92891.822	0.299	**224.926883**	13.34	5.9	ug/L
|	Zn	67	18265.015	0.051	**233.964665**	21.06	9.0	ug/L
|	Zn	68	62633.022	0.201	**221.317977**	10.98	5.0	ug/L
|	V	51	196520.206	0.654	**91.937733**	6.37	6.9	ug/L
|	Cr	52	193373.509	0.612	**95.642378**	6.41	6.7	ug/L
|	Cr	53	50684.464	0.102	**121.777902**	12.11	9.9	ug/L
|	Mn	55	3354630.724	10.808	**910.154183**	42.69	4.7	ug/L
|	Fe	54	850106.304	2.689	**5056.581652**	321.31	6.4	ug/L
⌞	Fe	57	384072.350	1.229	**5111.258886**	300.80	5.9	ug/L
⌜	As	75	25915.834	0.057	**73.748174**	3.24	4.4	ug/L
|	Se	77	12666.280	0.023	**341.900655**	7.83	2.3	ug/L
|	Se	82	11202.422	0.025	**359.353512**	9.68	2.7	ug/L
|	Sr	88	652265.166	1.448	**156.899936**	3.23	2.1	ug/L
| >	Y	89	450497.450	450497.450				ug/L
|	Mo	95	43030.063	0.095	**77.408550**	3.02	3.9	ug/L
|	Mo	97	26741.011	0.059	**75.724556**	1.96	2.6	ug/L
⌞	Mo	98	68601.457	0.152	**75.337616**	2.50	3.3	ug/L
⌜	Ag	107	115966.180	0.639	**92.645651**	1.68	1.8	ug/L
|	Ag	109	110093.984	0.607	**92.696018**	2.92	3.2	ug/L
|	Cd	111	44864.007	0.247	**151.420293**	4.99	3.3	ug/L
|	Cd	114	100254.141	0.552	**148.616896**	4.50	3.0	ug/L

|>	In	115	181557.770	181557.770				ug/L
|	Sn	120	112715.472	0.611	**92.111989**	2.74	3.0	ug/L
|	Sb	121	90541.367	0.499	**91.754118**	2.51	2.7	ug/L
|	Sb	123	68622.259	0.378	**91.220614**	2.87	3.2	ug/L
⌈	Ba	135	26255.439	0.171	**113.105352**	0.24	0.2	ug/L
|	Ba	137	44644.331	0.291	**113.272606**	2.71	2.4	ug/L
|	Tb	159	154816.066	-0.007				ug/L
|>	Ho	165	153236.165	153236.165				ug/L
|	Tl	203	50187.385	0.328	**104.589977**	3.83	3.7	ug/L
|	Tl	205	120741.587	0.788	**103.514967**	2.99	2.9	ug/L
⌊	Pb	208	228126.169	1.489	**141.030580**	3.18	2.3	ug/L
	Kr	83	52.400	16.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		82.463	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		99.073	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		75.504	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	76.464
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-33AMSD
Sample Date/Time: Thursday, February 24, 2011 14:15:44
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-33AMSD.059
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27963.762	-0.000				ug/L
|	Li	7	83728.012	0.268	**117.518522**	1.56	1.3	ug/L
|	Be	9	18501.312	0.061	**99.142446**	2.62	2.6	ug/L
|	B	11	48291.495	0.154	**191.666845**	3.37	1.8	ug/L
|	Na	23	58961795.907	193.054	**77254.850751**	1278.48	1.7	ug/L
|	Mg	24	2733705.605	8.949	**5921.769235**	343.29	5.8	ug/L
|	Al	27	8818104.279	28.878	**6867.812111**	89.18	1.3	ug/L
|	K	39	5836650.538	18.955	**6005.388731**	259.09	4.3	ug/L
|	Ca	43	29004.083	0.094	**6735.339849**	125.66	1.9	ug/L
| >	Sc	45	305334.692	305334.692				ug/L
|	Ti	49	15828.100	0.050	**113.138279**	1.79	1.6	ug/L
|	Co	59	280042.232	0.916	**101.389681**	0.92	0.9	ug/L
|	Ni	60	59795.564	0.196	**98.929270**	1.89	1.9	ug/L
|	Ni	62	8808.048	0.029	**96.341528**	0.68	0.7	ug/L
|	Cu	63	139163.312	0.453	**97.860355**	1.41	1.4	ug/L
|	Cu	65	62041.182	0.202	**94.101905**	2.62	2.8	ug/L
|	Zn	66	40270.028	0.131	**98.571693**	1.18	1.2	ug/L
|	Zn	67	10996.231	0.028	**124.449583**	1.85	1.5	ug/L
|	Zn	68	27744.249	0.090	**98.903323**	0.10	0.1	ug/L
|	V	51	211129.559	0.712	**100.005280**	2.04	2.0	ug/L
|	Cr	52	198476.191	0.639	**99.781198**	2.15	2.2	ug/L
|	Cr	53	53840.631	0.115	**137.874653**	5.57	4.0	ug/L
|	Mn	55	583153.376	1.906	**161.030768**	3.84	2.4	ug/L
|	Fe	54	1038264.119	3.349	**6302.697138**	143.07	2.3	ug/L
⌊	Fe	57	478813.958	1.559	**6488.534712**	70.08	1.1	ug/L
⌈	As	75	26403.860	0.069	**89.711517**	1.51	1.7	ug/L
|	Se	77	12915.170	0.029	**434.063256**	16.25	3.7	ug/L
|	Se	82	11161.992	0.030	**427.348389**	9.89	2.3	ug/L
|	Sr	88	393901.132	1.042	**112.802792**	3.52	3.1	ug/L
| >	Y	89	377814.763	377814.763				ug/L
|	Mo	95	44305.934	0.117	**95.034627**	1.01	1.1	ug/L
|	Mo	97	27447.680	0.073	**92.633377**	2.33	2.5	ug/L
⌊	Mo	98	72039.716	0.191	**94.230418**	1.59	1.7	ug/L
⌈	Ag	107	118227.289	0.651	**94.354132**	2.10	2.2	ug/L
|	Ag	109	112549.674	0.619	**94.647355**	1.87	2.0	ug/L
|	Cd	111	28321.884	0.156	**95.449210**	1.70	1.8	ug/L
|	Cd	114	63676.389	0.350	**94.398389**	1.37	1.5	ug/L

|>	In	115	181724.814	181724.814				ug/L
|	Sn	120	107343.715	0.581	**87.558845**	2.21	2.5	ug/L
|	Sb	121	89294.879	0.491	**90.384262**	1.13	1.2	ug/L
|	Sb	123	68268.650	0.375	**90.628038**	0.89	1.0	ug/L
|	Ba	135	28019.453	0.179	**117.936937**	4.85	4.1	ug/L
|	Ba	137	47597.834	0.303	**117.954790**	3.62	3.1	ug/L
|	Tb	159	156465.513	-0.021				ug/L
|>	Ho	165	156940.604	156940.604				ug/L
|	Tl	203	51425.162	0.328	**104.649949**	4.01	3.8	ug/L
|	Tl	205	124064.725	0.791	**103.876179**	3.32	3.2	ug/L
|	Pb	208	182194.826	1.162	**110.206749**	4.15	3.8	ug/L
	Kr	83	52.133	16.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		81.059	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		83.088	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		75.574	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	78.312
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-33APDS
Sample Date/Time: Thursday, February 24, 2011 14:18:24
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-33APDS.060
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27750.293	-0.001				ug/L
|	Li	7	81810.295	0.261	**573.920688**	21.23	3.7	ug/L
|	Be	9	19070.074	0.062	**510.928576**	34.68	6.8	ug/L
|	B	11	30120.435	0.095	**585.967053**	40.45	6.9	ug/L
|	Na	23	9792285.455	32.030	**64111.451313**	4336.52	6.8	ug/L
|	Mg	24	3003480.158	9.833	**32532.975058**	1181.63	3.6	ug/L
|	Al	27	8723191.500	28.564	**33966.175356**	1652.51	4.9	ug/L
|	K	39	5721752.588	18.583	**29436.307508**	1787.86	6.1	ug/L
|	Ca	43	34152.809	0.111	**39704.430690**	2147.18	5.4	ug/L
| >	Sc	45	305504.231	305504.231				ug/L
|	Ti	49	13886.080	0.044	**494.928465**	18.14	3.7	ug/L
|	Co	59	289223.556	0.947	**523.646485**	28.77	5.5	ug/L
|	Ni	60	62538.027	0.205	**517.398774**	27.93	5.4	ug/L
|	Ni	62	9539.188	0.031	**522.129830**	32.49	6.2	ug/L
|	Cu	63	148369.348	0.483	**521.885074**	20.29	3.9	ug/L
|	Cu	65	68104.763	0.222	**516.934638**	28.94	5.6	ug/L
|	Zn	66	50118.464	0.164	**614.500620**	27.23	4.4	ug/L
|	Zn	67	11507.304	0.029	**662.524617**	52.86	8.0	ug/L
|	Zn	68	34228.961	0.111	**611.477790**	16.06	2.6	ug/L
|	V	51	207093.039	0.698	**490.635632**	12.22	2.5	ug/L
|	Cr	52	198259.644	0.638	**498.204819**	12.95	2.6	ug/L
|	Cr	53	49205.937	0.100	**594.563949**	10.66	1.8	ug/L
|	Mn	55	855600.822	2.798	**1180.474049**	46.97	4.0	ug/L
|	Fe	54	890512.224	2.864	**26938.037375**	865.31	3.2	ug/L
⌊	Fe	57	399629.464	1.300	**27033.324222**	1361.58	5.0	ug/L
⌈	As	75	27599.392	0.070	**453.770845**	11.15	2.5	ug/L
|	Se	77	13493.705	0.030	**2197.888040**	22.34	1.0	ug/L
|	Se	82	12161.350	0.031	**2253.193721**	23.73	1.1	ug/L
|	Sr	88	394024.308	1.009	**545.794337**	16.51	3.0	ug/L
| >	Y	89	390455.399	390455.399				ug/L
|	Mo	95	43493.442	0.111	**451.324640**	5.18	1.1	ug/L
|	Mo	97	27403.592	0.070	**447.462227**	7.71	1.7	ug/L
⌊	Mo	98	70434.332	0.180	**445.799704**	5.42	1.2	ug/L
⌈	Ag	107	120385.794	0.639	**462.999861**	6.26	1.4	ug/L
|	Ag	109	114623.345	0.608	**464.494595**	4.57	1.0	ug/L
|	Cd	111	32268.571	0.171	**524.115075**	7.71	1.5	ug/L
|	Cd	114	73229.504	0.388	**523.018397**	13.72	2.6	ug/L

|>	In	115	188540.289	188540.289				ug/L
|	Sn	120	118799.905	0.620	**467.368189**	10.09	2.2	ug/L
|	Sb	121	95097.498	0.504	**463.807771**	5.38	1.2	ug/L
_	Sb	123	72633.187	0.385	**464.648899**	6.10	1.3	ug/L
⌜	Ba	135	22332.777	0.148	**488.844518**	12.12	2.5	ug/L
|	Ba	137	37791.925	0.250	**487.245059**	12.18	2.5	ug/L
|	Tb	159	154206.552	0.004				ug/L
|>	Ho	165	150922.509	150922.509				ug/L
|	Tl	203	49423.394	0.327	**522.846255**	15.84	3.0	ug/L
|	Tl	205	120466.510	0.798	**524.307757**	11.11	2.1	ug/L
_	Pb	208	175856.446	1.165	**552.851362**	19.45	3.5	ug/L
	Kr	83	51.333	15.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		81.104	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		85.868	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		78.408	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	75.309
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-33APDSD
Sample Date/Time: Thursday, February 24, 2011 14:21:05
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-33APDSD.061
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	27846.636	0.000				ug/L
|	Li	7	78450.875	0.252	**554.099098**	13.16	2.4	ug/L
|	Be	9	18359.124	0.061	**495.417484**	8.57	1.7	ug/L
|	B	11	28692.786	0.091	**560.719337**	1.86	0.3	ug/L
|	Na	23	9550201.760	31.457	**62963.585817**	1221.77	1.9	ug/L
|	Mg	24	2952721.698	9.739	**32222.617869**	1012.89	3.1	ug/L
|	Al	27	8375141.312	27.622	**32846.072032**	952.36	2.9	ug/L
|	K	39	5553290.702	18.161	**28768.501178**	600.65	2.1	ug/L
|	Ca	43	33521.959	0.110	**39240.204079**	762.46	1.9	ug/L
|>	Sc	45	303183.825	303183.825				ug/L
|	Ti	49	13814.678	0.044	**495.987884**	12.13	2.4	ug/L
|	Co	59	283478.791	0.934	**516.828222**	17.40	3.4	ug/L
|	Ni	60	61590.006	0.203	**513.071452**	23.29	4.5	ug/L
|	Ni	62	9357.735	0.031	**515.688969**	23.13	4.5	ug/L
|	Cu	63	144011.788	0.472	**510.113885**	11.98	2.3	ug/L
|	Cu	65	66307.024	0.218	**506.739166**	21.41	4.2	ug/L
|	Zn	66	49030.672	0.161	**605.341192**	5.05	0.8	ug/L
|	Zn	67	11006.908	0.028	**629.243301**	26.22	4.2	ug/L
|	Zn	68	33489.905	0.110	**602.571907**	20.44	3.4	ug/L
|	V	51	204086.927	0.693	**487.249414**	8.09	1.7	ug/L
|	Cr	52	195288.535	0.633	**494.290628**	6.70	1.4	ug/L
|	Cr	53	48531.640	0.099	**588.333300**	18.06	3.1	ug/L
|	Mn	55	845325.905	2.784	**1174.623448**	11.38	1.0	ug/L
|	Fe	54	871301.444	2.822	**26540.521605**	312.74	1.2	ug/L
⌞	Fe	57	387028.221	1.267	**26359.216576**	644.15	2.4	ug/L
⌜	As	75	27760.967	0.072	**466.100555**	19.21	4.1	ug/L
|	Se	77	13180.746	0.029	**2191.907977**	125.63	5.7	ug/L
|	Se	82	12050.674	0.032	**2280.233456**	108.12	4.7	ug/L
|	Sr	88	391938.491	1.025	**554.504515**	31.96	5.8	ug/L
|>	Y	89	382618.427	382618.427				ug/L
|	Mo	95	43133.078	0.113	**457.221406**	29.19	6.4	ug/L
|	Mo	97	27230.603	0.071	**454.046476**	22.07	4.9	ug/L
⌞	Mo	98	70447.969	0.184	**455.458725**	29.48	6.5	ug/L
⌜	Ag	107	120375.317	0.646	**468.230027**	20.35	4.3	ug/L
|	Ag	109	115370.435	0.619	**472.873351**	23.71	5.0	ug/L
|	Cd	111	31904.272	0.171	**524.115177**	23.31	4.4	ug/L
|	Cd	114	72548.896	0.389	**523.945422**	16.70	3.2	ug/L

|>	In	115	186490.745	186490.745				ug/L
|	Sn	120	117294.160	0.619	**466.554653**	7.67	1.6	ug/L
|	Sb	121	93869.397	0.503	**462.925919**	6.93	1.5	ug/L
\L	Sb	123	71174.115	0.381	**460.451496**	11.41	2.5	ug/L
|	Ba	135	21615.680	0.144	**475.214215**	22.31	4.7	ug/L
|	Ba	137	36862.846	0.245	**477.032442**	7.35	1.5	ug/L
|	Tb	159	151835.490	-0.008				ug/L
|>	Ho	165	150360.789	150360.789				ug/L
|	Tl	203	48508.234	0.323	**515.134894**	8.42	1.6	ug/L
|	Tl	205	118679.880	0.789	**518.429743**	12.17	2.3	ug/L
\L	Pb	208	169208.460	1.125	**533.978206**	16.74	3.1	ug/L
	Kr	83	48.867	13.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		80.488	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		84.145	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		77.556	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	75.029
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, February 24, 2011 14:36:39
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 4.064
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27947.840	-0.005				ug/L
	Li	7	77712.141	0.234	**102.898147**	2.84	2.8	ug/L
	Be	9	19313.716	0.060	**97.822462**	3.48	3.6	ug/L
	B	11	26991.525	0.080	**98.270751**	6.93	7.0	ug/L
	Na	23	3810914.164	11.749	**4706.707461**	156.89	3.3	ug/L
	Mg	24	2296857.288	7.107	**4701.804003**	162.16	3.4	ug/L
	Al	27	6645858.768	20.560	**4890.444729**	107.10	2.2	ug/L
	K	39	5136186.345	15.737	**4985.019178**	156.91	3.1	ug/L
	Ca	43	21988.919	0.067	**4809.684100**	190.95	4.0	ug/L
>	Sc	45	323234.071	323234.071				ug/L
	Ti	49	14297.818	0.043	**96.252216**	2.16	2.2	ug/L
	Co	59	290074.484	0.897	**99.209220**	1.30	1.3	ug/L
	Ni	60	61818.809	0.191	**96.630502**	2.49	2.6	ug/L
	Ni	62	9182.951	0.028	**94.910756**	3.59	3.8	ug/L
	Cu	63	147829.020	0.455	**98.235997**	3.06	3.1	ug/L
	Cu	65	67152.175	0.207	**96.269660**	3.41	3.5	ug/L
	Zn	66	42441.619	0.131	**98.162705**	2.07	2.1	ug/L
	Zn	67	9783.352	0.022	**97.063578**	7.80	8.0	ug/L
	Zn	68	28972.017	0.089	**97.558134**	1.51	1.5	ug/L
	V	51	217903.579	0.695	**97.621078**	3.34	3.4	ug/L
	Cr	52	205253.474	0.624	**97.461064**	2.37	2.4	ug/L
	Cr	53	46260.787	0.082	**96.637722**	4.03	4.2	ug/L
	Mn	55	374024.412	1.154	**97.678618**	1.73	1.8	ug/L
	Fe	54	896913.756	2.723	**5121.675305**	103.13	2.0	ug/L
	Fe	57	404053.099	1.241	**5162.044911**	84.62	1.6	ug/L
	As	75	29387.365	0.071	**92.396407**	3.17	3.4	ug/L
	Se	77	13912.105	0.029	**432.235515**	13.14	3.0	ug/L
	Se	82	13110.673	0.032	**464.557103**	8.14	1.8	ug/L
	Sr	88	350849.286	0.858	**92.812118**	1.25	1.4	ug/L
>	Y	89	408419.675	408419.675				ug/L
	Mo	95	45516.404	0.111	**90.302479**	0.36	0.4	ug/L
	Mo	97	28891.185	0.071	**90.202325**	1.57	1.7	ug/L
	Mo	98	74709.437	0.183	**90.415215**	1.40	1.6	ug/L
	Ag	107	131659.985	0.630	**91.322018**	2.30	2.5	ug/L
	Ag	109	126616.740	0.606	**92.532647**	2.15	2.3	ug/L
	Cd	111	32154.655	0.154	**94.189377**	2.70	2.9	ug/L
	Cd	114	73459.342	0.351	**94.652973**	2.40	2.5	ug/L

|>	In	115	209113.259	209113.259				ug/L
|	Sn	120	131743.478	0.620	**93.462794**	2.37	2.5	ug/L
|	Sb	121	105160.999	0.503	**92.495653**	1.39	1.5	ug/L
|	Sb	123	80513.589	0.385	**92.892810**	1.98	2.1	ug/L
⌈	Ba	135	23530.035	0.141	**93.224161**	2.36	2.5	ug/L
|	Ba	137	39457.086	0.236	**92.087051**	1.80	2.0	ug/L
|	Tb	159	168037.485	-0.010				ug/L
|>	Ho	165	166779.997	166779.997				ug/L
|	Tl	203	51977.055	0.312	**99.532924**	1.75	1.8	ug/L
|	Tl	205	124485.368	0.746	**98.073394**	1.15	1.2	ug/L
⌊	Pb	208	172136.941	1.032	**97.988672**	0.77	0.8	ug/L
	Kr	83	78.267	42.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	102.898		
Be	9	97.822		
B	11	98.271		
Na	23	94.134		
Mg	24	94.036		
Al	27	95.891		
K	39	99.700		
Ca	43	96.194		
Sc	45		85.811	
Ti	49	96.252		
Co	59	99.209		
Ni	60	96.631		
Ni	62	94.911		
Cu	63	98.236		
Cu	65	96.270		
Zn	66	98.163		
Zn	67	97.064		
Zn	68	97.558		
V	51	97.621		
Cr	52	97.461		
Cr	53	96.638		
Mn	55	97.679		
Fe	54	102.434		
Fe	57	103.241		
As	75	92.396		
Se	77	86.447		
Se	82	92.911		
Sr	88	92.812		
Y	89		89.819	
Mo	95	90.302		
Mo	97	90.202		
Mo	98	90.415		
Ag	107	91.322		
Ag	109	92.533		
Cd	111	94.189		
Cd	114	94.653		
In	115		86.964	
Sn	120	93.463		
Sb	121	92.496		

Sb	123	92.893	
Ba	135	93.224	
Ba	137	92.087	
Tb	159		
Ho	165		83.222
Tl	203	99.533	
Tl	205	98.073	
Pb	208	97.989	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, February 24, 2011 14:45:30
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 6.066
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30695.218	-0.005				ug/L
|	Li	7	2644.245	0.001	**1.844196**	0.14	7.4	ug/L
|	Be	9	6.000	0.000	**1.130628**	0.02	1.6	ug/L
|	B	11	1056.706	-0.001	**-2.598181**	0.11	4.1	ug/L
|	Na	23	15441.674	-0.002	**4.902618**	0.12	2.5	ug/L
|	Mg	24	133.334	-0.001	**-4.370274**	0.11	2.5	ug/L
|	Al	27	756.687	-0.002	**1.724041**	0.03	1.6	ug/L
|	K	39	45338.984	-0.029	**-13.651471**	3.86	28.2	ug/L
|	Ca	43	273.336	0.000	**1.393561**	15.32	1099.1	ug/L
| >	Sc	45	355363.908	355363.908				ug/L
|	Ti	49	456.674	-0.000	**0.656749**	0.18	28.1	ug/L
|	Co	59	170.668	-0.000	**-0.081711**	0.01	7.2	ug/L
|	Ni	60	63.333	-0.000	**-0.053082**	0.04	68.0	ug/L
|	Ni	62	64.000	-0.000	**-0.235220**	0.07	31.2	ug/L
|	Cu	63	5177.606	0.012	**2.392777**	0.12	5.1	ug/L
|	Cu	65	125.334	-0.000	**-0.508857**	0.03	6.6	ug/L
|	Zn	66	130.667	-0.000	**-0.588918**	0.07	12.5	ug/L
|	Zn	67	3475.091	0.002	**-1.032632**	4.04	391.1	ug/L
|	Zn	68	313.337	0.000	**-0.332779**	0.17	52.2	ug/L
|	V	51	-8942.708	-0.005	**-0.113588**	0.68	594.9	ug/L
|	Cr	52	4421.351	0.001	**0.555493**	0.04	7.2	ug/L
|	Cr	53	24240.567	0.007	**3.560253**	3.65	102.6	ug/L
|	Mn	55	2352.862	0.003	**0.830418**	0.05	5.8	ug/L
|	Fe	54	17038.179	-0.004	**-26.454853**	2.65	10.0	ug/L
⌊	Fe	57	2047.480	-0.003	**-29.675096**	0.71	2.4	ug/L
⌈	As	75	155.285	-0.000	**-0.287130**	0.22	77.7	ug/L
|	Se	77	1800.114	-0.001	**-23.968386**	2.59	10.8	ug/L
|	Se	82	-88.229	-0.000	**-5.564750**	0.12	2.2	ug/L
|	Sr	88	68.667	-0.000	**-0.595488**	0.00	0.8	ug/L
| >	Y	89	446721.521	446721.521				ug/L
|	Mo	95	17.333	-0.000	**-0.136454**	0.01	8.2	ug/L
|	Mo	97	16.000	-0.000	**0.214582**	0.02	10.0	ug/L
⌊	Mo	98	26.667	-0.000	**0.299719**	0.01	2.7	ug/L
⌈	Ag	107	8.667	0.000	**-0.073007**	0.00	4.8	ug/L
|	Ag	109	2.667	0.000	**-0.226176**	0.00	0.3	ug/L
|	Cd	111	5.000	0.000	**-0.008356**	0.01	84.1	ug/L
|	Cd	114	11.201	0.000	**0.365784**	0.00	0.9	ug/L

|>	In	115	235894.025	235894.025				ug/L
|	Sn	120	2564.813	0.001	**0.469789**	0.09	19.5	ug/L
|	Sb	121	152.001	0.000	**0.623806**	0.04	6.0	ug/L
\L	Sb	123	122.495	0.000	**0.401467**	0.02	3.8	ug/L
|	Ba	135	6.667	-0.000	**0.479689**	0.01	2.3	ug/L
|	Ba	137	8.667	-0.000	**0.562199**	0.01	1.6	ug/L
|	Tb	159	194290.434	0.018				ug/L
|>	Ho	165	187532.044	187532.044				ug/L
|	Tl	203	4.667	0.000	**0.325502**	0.01	2.7	ug/L
|	Tl	205	10.000	0.000	**0.414348**	0.00	0.4	ug/L
\L	Pb	208	12.667	-0.000	**0.730433**	0.00	0.4	ug/L
	Kr	83	114.267	78.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.341	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		98.242	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		98.101	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	93.577
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020687-01D
Sample Date/Time: Thursday, February 24, 2011 15:23:08
Sample Type: Sample
Sample Description: 10
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020687-01D.067
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 1.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31492.156	0.004				ug/L
|	Li	7	6111.975	0.012	**66.492964**	0.73	1.1	ug/L
|	Be	9	4.000	0.000	**11.232978**	0.17	1.5	ug/L
|	B	11	1640.761	0.001	**-0.892155**	2.45	274.5	ug/L
|	Na	23	61172645.651	185.379	**741837.580722**	12921.50	1.7	ug/L
|	Mg	24	5816209.136	17.624	**116653.133146**	2455.14	2.1	ug/L
|	Al	27	5604.437	0.012	**52.535849**	1.85	3.5	ug/L
|	K	39	349836.873	0.904	**2821.153007**	87.29	3.1	ug/L
|	Ca	43	255712.722	0.775	**553603.586210**	9983.43	1.8	ug/L
| >	Sc	45	329875.655	329875.655				ug/L
|	Ti	49	432.007	-0.000	**7.219729**	5.21	72.1	ug/L
|	Co	59	441.340	0.001	**0.132383**	0.21	157.3	ug/L
|	Ni	60	825.357	0.002	**11.226801**	0.07	0.6	ug/L
|	Ni	62	106.667	0.000	**2.491639**	1.38	55.6	ug/L
|	Cu	63	3006.985	0.006	**12.108535**	1.36	11.3	ug/L
|	Cu	65	154.668	-0.000	**-4.553356**	0.44	9.6	ug/L
|	Zn	66	1380.067	0.004	**22.832266**	2.75	12.1	ug/L
|	Zn	67	2910.964	0.001	**-55.781394**	31.56	56.6	ug/L
|	Zn	68	3013.652	0.008	**87.696446**	4.32	4.9	ug/L
|	V	51	-5309.723	0.004	**11.460231**	4.71	41.1	ug/L
|	Cr	52	3801.173	0.000	**4.141965**	0.94	22.8	ug/L
|	Cr	53	18040.754	-0.007	**-131.303021**	66.99	51.0	ug/L
|	Mn	55	267726.526	0.808	**685.954350**	9.21	1.3	ug/L
|	Fe	54	29926.249	0.039	**543.745305**	49.93	9.2	ug/L
⌊	Fe	57	16480.840	0.041	**1547.151596**	15.38	1.0	ug/L
⌈	As	75	294.547	0.000	**1.862910**	1.71	91.7	ug/L
|	Se	77	2000.140	-0.000	**-118.016950**	36.89	31.3	ug/L
|	Se	82	-35.028	-0.000	**-39.181871**	2.50	6.4	ug/L
|	Sr	88	830687.721	2.006	**2175.996071**	84.96	3.9	ug/L
| >	Y	89	414260.760	414260.760				ug/L
|	Mo	95	82.000	0.000	**-0.073492**	0.24	323.3	ug/L
|	Mo	97	65.333	0.000	**3.697742**	0.14	3.8	ug/L
⌊	Mo	98	131.781	0.000	**4.281385**	0.41	9.6	ug/L
⌈	Ag	107	6.000	0.000	**-0.741920**	0.03	3.6	ug/L
|	Ag	109	4.667	0.000	**-2.244419**	0.03	1.4	ug/L
|	Cd	111	5.333	0.000	**-0.055631**	0.10	175.0	ug/L
|	Cd	114	10.920	0.000	**3.673520**	0.11	3.1	ug/L

|>	In	115	208446.072	208446.072				ug/L
|	Sn	120	2287.355	0.001	**4.860326**	0.28	5.8	ug/L
|	Sb	121	160.668	0.001	**6.472737**	0.49	7.5	ug/L
|	Sb	123	129.073	0.000	**4.262722**	0.39	9.2	ug/L
⌈	Ba	135	116585.929	0.690	**4538.282848**	71.08	1.6	ug/L
|	Ba	137	197059.122	1.165	**4514.058313**	45.93	1.0	ug/L
|	Tb	159	173939.025	0.011				ug/L
|>	Ho	165	169065.388	169065.388				ug/L
|	Tl	203	2.000	-0.000	**3.213901**	0.07	2.1	ug/L
|	Tl	205	3.333	-0.000	**4.099439**	0.01	0.2	ug/L
⌊	Pb	208	26.000	-0.000	**7.386609**	0.05	0.7	ug/L
	Kr	83	63.200	27.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.574	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		91.104	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		86.686	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	84.362
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020687-03D
Sample Date/Time: Thursday, February 24, 2011 15:25:55
Sample Type: Sample
Sample Description: 10
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020687-03D.068
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 1.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30407.550	0.003				ug/L
|	Li	7	3400.405	0.004	**32.212122**	1.11	3.5	ug/L
|	Be	9	2.667	-0.000	**11.168542**	0.06	0.5	ug/L
|	B	11	1782.111	0.002	**6.463178**	2.83	43.8	ug/L
|	Na	23	2095519.983	6.498	**26058.957203**	255.66	1.0	ug/L
|	Mg	24	596362.538	1.861	**12284.460941**	267.26	2.2	ug/L
|	Al	27	8037.261	0.021	**71.849414**	1.64	2.3	ug/L
|	K	39	179589.201	0.405	**1237.015383**	51.23	4.1	ug/L
|	Ca	43	20542.762	0.064	**45305.269239**	635.82	1.4	ug/L
| >	Sc	45	320244.721	320244.721				ug/L
|	Ti	49	432.673	-0.000	**8.040926**	1.60	19.9	ug/L
|	Co	59	129.334	-0.000	**-0.901799**	0.05	5.5	ug/L
|	Ni	60	329.337	0.001	**3.771403**	0.53	14.2	ug/L
|	Ni	62	92.000	0.000	**1.268479**	3.68	290.2	ug/L
|	Cu	63	1787.445	0.003	**4.487368**	0.60	13.4	ug/L
|	Cu	65	122.667	-0.000	**-4.948731**	0.29	5.9	ug/L
|	Zn	66	1852.120	0.005	**34.939765**	1.93	5.5	ug/L
|	Zn	67	3030.988	0.001	**-25.569839**	11.57	45.3	ug/L
|	Zn	68	1441.406	0.004	**36.580453**	1.63	4.5	ug/L
|	V	51	-6374.965	0.000	**6.197667**	0.99	16.0	ug/L
|	Cr	52	3933.208	0.001	**5.305746**	0.54	10.1	ug/L
|	Cr	53	20473.328	0.003	**-17.781853**	10.47	58.9	ug/L
|	Mn	55	47044.021	0.143	**126.369071**	2.75	2.2	ug/L
|	Fe	54	32432.015	0.049	**742.067313**	35.82	4.8	ug/L
⌊	Fe	57	10188.966	0.023	**790.198479**	20.75	2.6	ug/L
⌈	As	75	132.977	-0.000	**-2.985318**	2.95	98.7	ug/L
|	Se	77	1662.763	-0.001	**-206.645418**	12.59	6.1	ug/L
|	Se	82	-33.003	-0.000	**-39.201867**	1.46	3.7	ug/L
|	Sr	88	45308.443	0.115	**119.833684**	5.53	4.6	ug/L
| >	Y	89	391419.806	391419.806				ug/L
|	Mo	95	85.334	0.000	**0.088681**	0.18	202.1	ug/L
|	Mo	97	32.000	0.000	**2.725866**	0.15	5.5	ug/L
⌊	Mo	98	114.594	0.000	**4.146548**	0.04	0.9	ug/L
⌈	Ag	107	6.000	0.000	**-0.740176**	0.01	2.0	ug/L
|	Ag	109	1.333	-0.000	**-2.268834**	0.01	0.4	ug/L
|	Cd	111	2.167	-0.000	**-0.147200**	0.02	16.2	ug/L
|	Cd	114	1.713	-0.000	**3.552616**	0.08	2.1	ug/L

|>	In	115	203099.003	203099.003				ug/L
|	Sn	120	2175.389	0.001	**4.465205**	0.59	13.2	ug/L
|	Sb	121	55.333	0.000	**5.555600**	0.17	3.1	ug/L
\L	Sb	123	64.242	-0.000	**3.526113**	0.04	1.3	ug/L
|	Ba	135	3606.455	0.022	**152.570028**	5.81	3.8	ug/L
|	Ba	137	6121.978	0.038	**153.275251**	3.36	2.2	ug/L
|	Tb	159	162185.483	-0.006				ug/L
|>	Ho	165	160246.525	160246.525				ug/L
|	Tl	203	0.667	-0.000	**3.188976**	0.02	0.7	ug/L
|	Tl	205	3.333	-0.000	**4.100775**	0.02	0.5	ug/L
\L	Pb	208	38.000	0.000	**7.464611**	0.05	0.7	ug/L
	Kr	83	51.400	15.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.017	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		86.080	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		84.462	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	79.962
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020689-01C
Sample Date/Time: Thursday, February 24, 2011 15:28:39
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020689-01C.069
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30208.004	0.005				ug/L
|	Li	7	3447.749	0.004	**3.384369**	0.04	1.2	ug/L
|	Be	9	10.000	0.000	**1.155128**	0.02	1.8	ug/L
|	B	11	2651.580	0.005	**4.261819**	0.31	7.2	ug/L
|	Na	23	593387.410	1.848	**745.062590**	41.58	5.6	ug/L
|	Mg	24	214837.085	0.684	**449.115852**	12.66	2.8	ug/L
|	Al	27	881045.643	2.806	**669.388473**	17.20	2.6	ug/L
|	K	39	722250.009	2.148	**676.531956**	32.37	4.8	ug/L
|	Ca	43	26338.930	0.083	**5949.245159**	77.51	1.3	ug/L
| >	Sc	45	313576.098	313576.098				ug/L
|	Ti	49	2427.541	0.006	**15.031630**	1.52	10.1	ug/L
|	Co	59	1377.400	0.004	**0.351581**	0.05	14.4	ug/L
|	Ni	60	3888.530	0.012	**6.129043**	0.18	3.0	ug/L
|	Ni	62	648.015	0.002	**6.123223**	0.65	10.6	ug/L
|	Cu	63	9114.908	0.026	**5.529728**	0.08	1.5	ug/L
|	Cu	65	3477.757	0.010	**4.501093**	0.12	2.7	ug/L
|	Zn	66	44116.050	0.140	**105.198232**	1.33	1.3	ug/L
|	Zn	67	10733.365	0.026	**115.924782**	3.20	2.8	ug/L
|	Zn	68	30328.161	0.096	**105.379726**	2.35	2.2	ug/L
|	V	51	-7545.199	-0.004	**0.037804**	0.95	2512.3	ug/L
|	Cr	52	34443.474	0.099	**15.715377**	0.33	2.1	ug/L
|	Cr	53	30133.108	0.035	**38.194692**	4.66	12.2	ug/L
|	Mn	55	125270.263	0.396	**33.902023**	0.87	2.6	ug/L
|	Fe	54	160238.329	0.459	**847.853645**	20.11	2.4	ug/L
⌊	Fe	57	64566.310	0.197	**805.211598**	14.13	1.8	ug/L
⌜	As	75	303.758	0.000	**0.265777**	0.17	62.6	ug/L
|	Se	77	2121.491	0.000	**-3.101072**	3.12	100.6	ug/L
|	Se	82	-32.924	-0.000	**-3.913587**	0.17	4.4	ug/L
|	Sr	88	171415.034	0.436	**46.879311**	0.53	1.1	ug/L
| >	Y	89	392575.447	392575.447				ug/L
|	Mo	95	385.339	0.001	**0.628412**	0.05	8.1	ug/L
|	Mo	97	236.669	0.001	**0.936289**	0.03	3.3	ug/L
⌊	Mo	98	617.867	0.001	**1.046354**	0.06	5.4	ug/L
⌜	Ag	107	31.333	0.000	**-0.055352**	0.00	7.3	ug/L
|	Ag	109	30.667	0.000	**-0.204085**	0.01	2.6	ug/L
|	Cd	111	307.503	0.002	**0.931986**	0.06	6.8	ug/L
|	Cd	114	698.557	0.003	**1.302523**	0.08	6.0	ug/L

|>	In	115	197621.399	197621.399				ug/L
|	Sn	120	2275.379	0.002	**0.566418**	0.06	10.3	ug/L
|	Sb	121	234.002	0.001	**0.722375**	0.03	3.8	ug/L
|	Sb	123	204.659	0.001	**0.525853**	0.03	6.1	ug/L
⌈	Ba	135	4092.587	0.026	**17.330224**	0.82	4.7	ug/L
|	Ba	137	6808.289	0.043	**17.060662**	0.30	1.8	ug/L
|	Tb	159	162182.218	-0.001				ug/L
|>	Ho	165	159498.176	159498.176				ug/L
|	Tl	203	6.000	0.000	**0.329506**	0.01	2.4	ug/L
|	Tl	205	18.000	0.000	**0.422159**	0.01	1.4	ug/L
⌊	Pb	208	13389.120	0.084	**8.636716**	0.36	4.2	ug/L
	Kr	83	49.867	14.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		83.247	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		86.335	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		82.184	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	79.588
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020689-03C
Sample Date/Time: Thursday, February 24, 2011 15:31:23
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020689-03C.070
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30139.232	0.005				ug/L
|	Li	7	3188.356	0.004	**3.066933**	0.05	1.7	ug/L
|	Be	9	8.000	0.000	**1.145170**	0.02	1.6	ug/L
|	B	11	4586.069	0.011	**12.159610**	0.32	2.6	ug/L
|	Na	23	474279.817	1.482	**598.405044**	14.14	2.4	ug/L
|	Mg	24	285834.211	0.919	**604.755998**	30.92	5.1	ug/L
|	Al	27	1067180.536	3.432	**818.347456**	53.44	6.5	ug/L
|	K	39	671744.567	2.007	**631.777162**	36.00	5.7	ug/L
|	Ca	43	43955.532	0.141	**10059.366374**	298.34	3.0	ug/L
| >	Sc	45	310697.867	310697.867				ug/L
|	Ti	49	2794.273	0.007	**17.813800**	0.50	2.8	ug/L
|	Co	59	1922.796	0.005	**0.550287**	0.02	4.0	ug/L
|	Ni	60	2820.278	0.009	**4.449533**	0.14	3.0	ug/L
|	Ni	62	438.674	0.001	**3.912906**	0.72	18.4	ug/L
|	Cu	63	12681.626	0.038	**8.073859**	0.11	1.4	ug/L
|	Cu	65	5411.692	0.017	**7.452873**	0.20	2.6	ug/L
|	Zn	66	46744.389	0.150	**112.602178**	4.04	3.6	ug/L
|	Zn	67	11329.826	0.028	**126.643264**	3.99	3.2	ug/L
|	Zn	68	31659.042	0.101	**111.083047**	1.47	1.3	ug/L
|	V	51	-6525.960	-0.001	**0.461288**	0.59	128.1	ug/L
|	Cr	52	119627.839	0.374	**58.559121**	2.73	4.7	ug/L
|	Cr	53	41230.782	0.071	**83.728468**	7.33	8.8	ug/L
|	Mn	55	245925.326	0.788	**66.917723**	3.34	5.0	ug/L
|	Fe	54	414651.389	1.283	**2403.500185**	136.54	5.7	ug/L
⌞	Fe	57	181387.943	0.575	**2382.542422**	83.22	3.5	ug/L
⌜	As	75	237.300	0.000	**0.069226**	0.38	545.1	ug/L
|	Se	77	2241.509	0.001	**3.726435**	2.54	68.2	ug/L
|	Se	82	-26.568	-0.000	**-3.700182**	0.35	9.4	ug/L
|	Sr	88	218814.488	0.571	**61.535448**	1.27	2.1	ug/L
| >	Y	89	382875.724	382875.724				ug/L
|	Mo	95	307.337	0.001	**0.483384**	0.04	9.1	ug/L
|	Mo	97	202.668	0.000	**0.842210**	0.05	6.3	ug/L
⌞	Mo	98	563.865	0.001	**0.995955**	0.02	2.3	ug/L
⌜	Ag	107	28.000	0.000	**-0.057280**	0.01	9.5	ug/L
|	Ag	109	20.667	0.000	**-0.211503**	0.00	1.9	ug/L
|	Cd	111	1096.209	0.006	**3.454196**	0.07	1.9	ug/L
|	Cd	114	2477.705	0.013	**3.794657**	0.10	2.5	ug/L

|>	In	115	193214.579	193214.579				ug/L
|	Sn	120	2108.096	0.001	**0.476633**	0.07	14.0	ug/L
|	Sb	121	476.675	0.002	**0.956867**	0.02	2.6	ug/L
L	Sb	123	378.751	0.002	**0.748093**	0.03	3.4	ug/L
⌈	Ba	135	6495.477	0.042	**27.834765**	0.77	2.8	ug/L
|	Ba	137	11260.436	0.072	**28.471439**	0.48	1.7	ug/L
|	Tb	159	158396.990	-0.003				ug/L
|>	Ho	165	156025.590	156025.590				ug/L
|	Tl	203	5.333	0.000	**0.328513**	0.00	1.5	ug/L
|	Tl	205	14.667	0.000	**0.419647**	0.00	0.4	ug/L
L	Pb	208	26305.567	0.168	**16.617594**	0.69	4.2	ug/L
	Kr	83	47.000	11.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		82.483	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		84.201	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.352	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	77.856
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020689-05C
Sample Date/Time: Thursday, February 24, 2011 15:34:05
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020689-05C.071
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30168.510	0.006				ug/L
|	Li	7	2596.903	0.002	**2.257221**	0.15	6.6	ug/L
|	Be	9	6.000	0.000	**1.134771**	0.01	0.9	ug/L
|	B	11	3549.774	0.008	**8.043846**	0.44	5.5	ug/L
|	Na	23	275805.256	0.847	**344.308517**	15.34	4.5	ug/L
|	Mg	24	77375.677	0.249	**160.951138**	0.72	0.4	ug/L
|	Al	27	157620.301	0.505	**122.364879**	5.06	4.1	ug/L
|	K	39	210235.827	0.523	**161.375901**	5.19	3.2	ug/L
|	Ca	43	7161.796	0.023	**1600.833310**	61.67	3.9	ug/L
| >	Sc	45	309422.749	309422.749				ug/L
|	Ti	49	1086.708	0.002	**5.614148**	0.39	7.0	ug/L
|	Co	59	609.346	0.001	**0.083099**	0.02	23.2	ug/L
|	Ni	60	1978.804	0.006	**3.092536**	0.10	3.1	ug/L
|	Ni	62	349.338	0.001	**2.962958**	0.21	7.1	ug/L
|	Cu	63	2818.945	0.006	**1.212691**	0.06	4.8	ug/L
|	Cu	65	640.014	0.001	**0.291658**	0.06	20.3	ug/L
|	Zn	66	45830.739	0.147	**110.826700**	2.01	1.8	ug/L
|	Zn	67	11308.475	0.028	**127.052481**	5.10	4.0	ug/L
|	Zn	68	31430.546	0.101	**110.735521**	2.99	2.7	ug/L
|	V	51	-8490.106	-0.007	**-0.434628**	0.37	86.0	ug/L
|	Cr	52	7604.691	0.013	**2.444727**	0.12	4.7	ug/L
|	Cr	53	28092.931	0.029	**31.609640**	2.53	8.0	ug/L
|	Mn	55	52877.024	0.167	**14.658519**	0.37	2.5	ug/L
|	Fe	54	58762.843	0.138	**241.558681**	4.17	1.7	ug/L
⌊	Fe	57	18939.886	0.052	**201.712133**	9.44	4.7	ug/L
⌜	As	75	200.579	0.000	**-0.066815**	0.23	338.8	ug/L
|	Se	77	2129.492	0.000	**-1.748204**	7.20	411.6	ug/L
|	Se	82	-26.167	-0.000	**-3.672455**	0.02	0.6	ug/L
|	Sr	88	27666.103	0.071	**7.143228**	0.27	3.7	ug/L
| >	Y	89	388152.778	388152.778				ug/L
|	Mo	95	93.334	0.000	**0.027713**	0.05	164.0	ug/L
|	Mo	97	64.000	0.000	**0.378830**	0.02	4.1	ug/L
⌊	Mo	98	131.928	0.000	**0.437691**	0.01	2.6	ug/L
⌜	Ag	107	22.667	0.000	**-0.061363**	0.01	12.3	ug/L
|	Ag	109	18.000	0.000	**-0.213697**	0.00	1.0	ug/L
|	Cd	111	100.667	0.001	**0.296106**	0.04	12.2	ug/L
|	Cd	114	235.155	0.001	**0.678170**	0.05	7.1	ug/L

|>	In	115	194754.771	194754.771				ug/L
|	Sn	120	2040.651	0.001	**0.413919**	0.12	28.3	ug/L
|	Sb	121	104.000	0.000	**0.603408**	0.01	2.0	ug/L
\L	Sb	123	93.739	0.000	**0.392850**	0.02	5.9	ug/L
|	Ba	135	1449.407	0.009	**6.547384**	0.13	2.1	ug/L
|	Ba	137	2495.551	0.016	**6.717948**	0.28	4.2	ug/L
|	Tb	159	159244.891	0.000				ug/L
|>	Ho	165	156450.824	156450.824				ug/L
|	Tl	203	2.000	-0.000	**0.321619**	0.00	1.3	ug/L
|	Tl	205	7.333	0.000	**0.413478**	0.00	0.8	ug/L
\L	Pb	208	2695.431	0.017	**2.347832**	0.08	3.3	ug/L
	Kr	83	46.867	11.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		82.144	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		85.362	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.992	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	78.068
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-21A
Sample Date/Time: Thursday, February 24, 2011 15:36:47
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-21A.072
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29619.951	0.003				ug/L
|	Li	7	7424.596	0.017	**8.954744**	0.23	2.6	ug/L
|	Be	9	4.667	0.000	**1.127455**	0.03	2.3	ug/L
|	B	11	26576.699	0.081	**100.503374**	1.70	1.7	ug/L
|	Na	23	38715982.905	124.253	**49724.364762**	963.96	1.9	ug/L
|	Mg	24	1258538.258	4.040	**2671.065245**	44.65	1.7	ug/L
|	Al	27	36720.475	0.113	**29.250999**	0.62	2.1	ug/L
|	K	39	915030.570	2.782	**877.438361**	8.24	0.9	ug/L
|	Ca	43	21230.438	0.068	**4818.814554**	177.04	3.7	ug/L
| >	Sc	45	311453.369	311453.369				ug/L
|	Ti	49	748.686	0.001	**3.148776**	0.37	11.8	ug/L
|	Co	59	258.669	0.000	**-0.042973**	0.01	31.1	ug/L
|	Ni	60	708.684	0.002	**1.007891**	0.02	1.7	ug/L
|	Ni	62	110.667	0.000	**0.356215**	0.16	45.3	ug/L
|	Cu	63	2684.253	0.006	**1.105215**	0.11	10.0	ug/L
|	Cu	65	325.337	0.000	**-0.185906**	0.06	31.2	ug/L
|	Zn	66	1392.068	0.004	**2.504169**	0.18	7.3	ug/L
|	Zn	67	4851.491	0.007	**26.706153**	3.42	12.8	ug/L
|	Zn	68	1272.057	0.003	**3.197608**	0.19	5.9	ug/L
|	V	51	-8964.550	-0.009	**-0.621700**	0.18	29.1	ug/L
|	Cr	52	5575.089	0.007	**1.405747**	0.16	11.6	ug/L
|	Cr	53	28468.355	0.030	**32.380022**	4.54	14.0	ug/L
|	Mn	55	22608.559	0.069	**6.384505**	0.28	4.4	ug/L
|	Fe	54	28260.216	0.039	**54.351281**	5.25	9.7	ug/L
⌊	Fe	57	5569.753	0.009	**20.898393**	2.16	10.3	ug/L
⌈	As	75	2111.148	0.005	**6.440660**	0.56	8.7	ug/L
|	Se	77	2405.536	0.001	**10.705043**	3.22	30.1	ug/L
|	Se	82	-25.443	-0.000	**-3.663773**	0.12	3.2	ug/L
|	Sr	88	128609.908	0.337	**36.098389**	1.26	3.5	ug/L
| >	Y	89	381098.595	381098.595				ug/L
|	Mo	95	1706.102	0.004	**3.468215**	0.21	5.9	ug/L
|	Mo	97	1034.705	0.003	**3.620198**	0.42	11.5	ug/L
⌊	Mo	98	2624.470	0.007	**3.662910**	0.06	1.6	ug/L
⌈	Ag	107	34.000	0.000	**-0.052535**	0.00	8.4	ug/L
|	Ag	109	29.333	0.000	**-0.204440**	0.00	1.4	ug/L
|	Cd	111	6.167	0.000	**-0.001618**	0.00	202.7	ug/L
|	Cd	114	22.304	0.000	**0.384340**	0.01	3.2	ug/L

|>	In	115	191804.486	191804.486				ug/L
|	Sn	120	1929.969	0.000	**0.349670**	0.07	20.9	ug/L
|	Sb	121	44.000	0.000	**0.547373**	0.01	2.0	ug/L
L	Sb	123	55.072	-0.000	**0.345603**	0.01	2.1	ug/L
⌈	Ba	135	7096.429	0.045	**29.970790**	0.59	2.0	ug/L
|	Ba	137	12333.990	0.078	**30.729712**	0.65	2.1	ug/L
|	Tb	159	158436.461	-0.016				ug/L
|>	Ho	165	158100.100	158100.100				ug/L
|	Tl	203	1.333	-0.000	**0.320282**	0.00	1.5	ug/L
|	Tl	205	8.000	0.000	**0.413988**	0.01	1.2	ug/L
L	Pb	208	488.670	0.003	**1.015446**	0.02	2.2	ug/L
	Kr	83	48.000	12.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		82.684	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		83.811	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		79.765	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	78.891
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-22A
Sample Date/Time: Thursday, February 24, 2011 15:39:28
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-22A.073
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	27056.428	-0.002				ug/L
|	Li	7	61508.219	0.197	**86.734401**	3.75	4.3	ug/L
|	Be	9	1012.703	0.003	**6.516387**	0.26	4.0	ug/L
|	B	11	18809.043	0.058	**71.456252**	1.68	2.4	ug/L
|	Na	23	169878560.780	561.232	**224578.146750**	8737.03	3.9	ug/L
|	Mg	24	40166367.673	132.709	**87865.752822**	3916.68	4.5	ug/L
|	Al	27	644797.441	2.126	**507.646163**	13.94	2.7	ug/L
|	K	39	3326419.642	10.835	**3430.772634**	189.25	5.5	ug/L
|	Ca	43	522233.121	1.724	**123214.440694**	1164.39	0.9	ug/L
| >	Sc	45	302754.440	302754.440				ug/L
|	Ti	49	1528.749	0.003	**9.037899**	0.67	7.4	ug/L
|	Co	59	119107.961	0.393	**43.420769**	1.35	3.1	ug/L
|	Ni	60	29952.058	0.099	**49.913375**	2.11	4.2	ug/L
|	Ni	62	4458.030	0.015	**48.768723**	2.29	4.7	ug/L
|	Cu	63	4097.921	0.011	**2.170013**	0.08	3.5	ug/L
|	Cu	65	906.695	0.002	**0.723520**	0.04	5.6	ug/L
|	Zn	66	22533.760	0.074	**55.255910**	0.67	1.2	ug/L
|	Zn	67	7867.500	0.018	**76.498662**	2.67	3.5	ug/L
|	Zn	68	15161.375	0.049	**53.923363**	0.37	0.7	ug/L
|	V	51	-7541.411	-0.005	**-0.081227**	0.23	278.8	ug/L
|	Cr	52	6009.933	0.009	**1.709008**	0.17	9.7	ug/L
|	Cr	53	27225.258	0.029	**30.529561**	2.93	9.6	ug/L
|	Mn	55	4919628.430	16.252	**1368.340264**	65.84	4.8	ug/L
|	Fe	54	2812863.707	9.242	**17427.287413**	821.99	4.7	ug/L
⌊	Fe	57	1233781.359	4.067	**16951.901003**	757.08	4.5	ug/L
⌜	As	75	368.994	0.000	**-0.056360**	0.05	92.6	ug/L
|	Se	77	3451.750	-0.000	**-10.847595**	1.48	13.6	ug/L
|	Se	82	6.773	0.000	**-2.550955**	0.16	6.5	ug/L
|	Sr	88	4155897.918	5.893	**640.318336**	7.30	1.1	ug/L
| >	Y	89	705193.026	705193.026				ug/L
|	Mo	95	719.351	0.001	**0.660213**	0.05	7.6	ug/L
|	Mo	97	442.674	0.001	**0.967579**	0.02	1.9	ug/L
⌊	Mo	98	1131.753	0.001	**1.061013**	0.05	4.7	ug/L
⌜	Ag	107	22.667	0.000	**-0.060704**	0.00	5.8	ug/L
|	Ag	109	8.000	0.000	**-0.221348**	0.01	2.7	ug/L
|	Cd	111	28.833	0.000	**0.073316**	0.00	3.1	ug/L
|	Cd	114	70.811	0.000	**0.454894**	0.02	4.2	ug/L

|>	In	115	186717.394	186717.394				ug/L
|	Sn	120	1897.821	0.000	**0.364199**	0.09	25.6	ug/L
|	Sb	121	42.667	0.000	**0.547335**	0.01	1.8	ug/L
L	Sb	123	96.979	0.000	**0.401471**	0.03	8.5	ug/L
⌈	Ba	135	11920.305	0.071	**46.946525**	0.72	1.5	ug/L
|	Ba	137	20544.095	0.122	**47.693881**	0.29	0.6	ug/L
|	Tb	159	172066.041	0.003				ug/L
|>	Ho	165	168573.428	168573.428				ug/L
|	Tl	203	10.000	0.000	**0.336463**	0.00	1.1	ug/L
|	Tl	205	17.333	0.000	**0.420819**	0.00	0.2	ug/L
L	Pb	208	522.670	0.003	**1.016273**	0.02	2.3	ug/L
	Kr	83	71.600	36.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		80.374	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		155.085	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		77.650	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	84.117
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-23A
Sample Date/Time: Thursday, February 24, 2011 15:42:08
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-23A.074
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27264.014	-0.000				ug/L
|	Li	7	35078.372	0.111	**49.488194**	0.86	1.7	ug/L
|	Be	9	906.695	0.003	**6.009271**	0.20	3.3	ug/L
|	B	11	15033.911	0.046	**56.621196**	0.89	1.6	ug/L
|	Na	23	33737218.916	112.803	**45143.000285**	353.35	0.8	ug/L
|	Mg	24	7690720.526	25.722	**17027.692445**	203.48	1.2	ug/L
|	Al	27	33222741.087	111.113	**26418.971973**	441.34	1.7	ug/L
|	K	39	4315203.295	14.276	**4521.898785**	68.10	1.5	ug/L
|	Ca	43	112904.443	0.377	**26936.696658**	177.48	0.7	ug/L
| >	Sc	45	298953.445	298953.445				ug/L
|	Ti	49	1508.747	0.003	**9.020278**	0.84	9.3	ug/L
|	Co	59	98835.464	0.330	**36.458280**	0.25	0.7	ug/L
|	Ni	60	28573.885	0.095	**48.209685**	0.68	1.4	ug/L
|	Ni	62	4459.363	0.015	**49.415681**	0.56	1.1	ug/L
|	Cu	63	170890.736	0.569	**122.945710**	1.98	1.6	ug/L
|	Cu	65	77980.299	0.260	**121.025776**	3.36	2.8	ug/L
|	Zn	66	35608.358	0.118	**88.949915**	3.10	3.5	ug/L
|	Zn	67	9898.095	0.025	**110.570452**	1.84	1.7	ug/L
|	Zn	68	24269.933	0.080	**88.233827**	1.03	1.2	ug/L
|	V	51	25628.846	0.106	**15.372592**	0.83	5.4	ug/L
|	Cr	52	21346.604	0.060	**9.732253**	0.15	1.5	ug/L
|	Cr	53	29203.823	0.036	**40.187691**	3.32	8.3	ug/L
|	Mn	55	3887152.699	13.000	**1094.692110**	13.22	1.2	ug/L
|	Fe	54	4782337.786	15.949	**30087.019033**	883.46	2.9	ug/L
⌊	Fe	57	2217307.138	7.408	**30888.199021**	176.82	0.6	ug/L
⌈	As	75	3208.405	0.005	**5.743480**	0.51	8.9	ug/L
|	Se	77	2412.204	-0.001	**-28.024508**	0.16	0.6	ug/L
|	Se	82	-0.033	0.000	**-2.692414**	0.11	4.2	ug/L
|	Sr	88	593447.687	0.925	**100.082149**	1.15	1.2	ug/L
| >	Y	89	640916.602	640916.602				ug/L
|	Mo	95	125.334	0.000	**-0.009295**	0.02	189.4	ug/L
|	Mo	97	78.000	0.000	**0.323638**	0.01	2.3	ug/L
⌊	Mo	98	209.116	0.000	**0.431249**	0.03	6.3	ug/L
⌈	Ag	107	28.667	0.000	**-0.055071**	0.00	6.8	ug/L
|	Ag	109	16.667	0.000	**-0.213630**	0.00	1.7	ug/L
|	Cd	111	67323.142	0.376	**230.380593**	4.83	2.1	ug/L
|	Cd	114	152117.479	0.850	**228.445663**	4.93	2.2	ug/L

|>	In	115	178983.583	178983.583				ug/L
|	Sn	120	1860.644	0.001	**0.399000**	0.04	10.1	ug/L
|	Sb	121	42483.781	0.237	**43.921163**	1.38	3.1	ug/L
L	Sb	123	32464.118	0.181	**43.899665**	1.58	3.6	ug/L
⌈	Ba	135	10449.158	0.065	**43.570328**	1.87	4.3	ug/L
|	Ba	137	17507.395	0.110	**43.052250**	1.34	3.1	ug/L
|	Tb	159	159421.944	-0.017				ug/L
|>	Ho	165	159341.040	159341.040				ug/L
|	Tl	203	162.001	0.001	**0.641219**	0.04	6.2	ug/L
|	Tl	205	356.671	0.002	**0.700230**	0.02	2.8	ug/L
L	Pb	208	686202.795	4.306	**406.546024**	12.04	3.0	ug/L
	Kr	83	55.333	19.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		79.365	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		140.949	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		74.434	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	79.510
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-24A
Sample Date/Time: Thursday, February 24, 2011 15:44:49
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-24A.075
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	26016.731	-0.002				ug/L
|	Li	7	55638.239	0.184	**81.467096**	3.62	4.4	ug/L
|	Be	9	1708.769	0.006	**10.596239**	0.12	1.1	ug/L
|	B	11	8811.391	0.026	**31.564901**	2.72	8.6	ug/L
|	Na	23	66299379.898	227.644	**91095.749984**	3798.54	4.2	ug/L
|	Mg	24	11658759.398	40.039	**26507.244497**	1106.15	4.2	ug/L
|	Al	27	7549297.995	25.922	**6165.077501**	246.87	4.0	ug/L
|	K	39	1729538.924	5.784	**1829.247915**	85.75	4.7	ug/L
|	Ca	43	218330.965	0.749	**53526.985976**	1533.56	2.9	ug/L
|>	Sc	45	291234.784	291234.784				ug/L
|	Ti	49	1254.722	0.003	**7.386037**	0.53	7.2	ug/L
|	Co	59	92106.764	0.316	**34.877294**	1.12	3.2	ug/L
|	Ni	60	23572.777	0.081	**40.808712**	1.51	3.7	ug/L
|	Ni	62	3615.125	0.012	**40.979580**	2.33	5.7	ug/L
|	Cu	63	3337.057	0.009	**1.720914**	0.12	7.2	ug/L
|	Cu	65	1162.714	0.003	**1.188515**	0.09	7.6	ug/L
|	Zn	66	35906.402	0.123	**92.098711**	0.75	0.8	ug/L
|	Zn	67	10002.167	0.026	**116.475899**	1.31	1.1	ug/L
|	Zn	68	24376.782	0.083	**91.009714**	1.52	1.7	ug/L
|	V	51	86165.618	0.316	**44.748505**	2.19	4.9	ug/L
|	Cr	52	57348.978	0.186	**29.269590**	1.33	4.5	ug/L
|	Cr	53	33270.700	0.053	**60.728671**	2.26	3.7	ug/L
|	Mn	55	5419805.000	18.609	**1566.685381**	43.84	2.8	ug/L
|	Fe	54	4702924.477	16.099	**30370.716678**	980.07	3.2	ug/L
⌞	Fe	57	2069077.876	7.097	**29592.370269**	2224.53	7.5	ug/L
⌜	As	75	1221.006	0.002	**2.446968**	0.59	24.0	ug/L
|	Se	77	2544.227	0.000	**-7.261440**	2.55	35.1	ug/L
|	Se	82	-18.117	-0.000	**-3.222263**	0.06	1.9	ug/L
|	Sr	88	1178563.986	2.376	**257.803108**	7.70	3.0	ug/L
|>	Y	89	496100.503	496100.503				ug/L
|	Mo	95	50.000	0.000	**-0.086108**	0.02	20.9	ug/L
|	Mo	97	32.667	0.000	**0.252403**	0.02	9.6	ug/L
⌞	Mo	98	67.114	0.000	**0.337050**	0.01	2.0	ug/L
⌜	Ag	107	21.333	0.000	**-0.060422**	0.00	8.2	ug/L
|	Ag	109	6.667	0.000	**-0.222000**	0.00	0.5	ug/L
|	Cd	111	246.169	0.001	**0.848712**	0.06	6.6	ug/L
|	Cd	114	547.190	0.003	**1.200523**	0.03	2.6	ug/L

|>	In	115	173265.846	173265.846				ug/L
|	Sn	120	1708.650	0.000	**0.318732**	0.09	28.5	ug/L
|	Sb	121	158.001	0.001	**0.672650**	0.03	5.0	ug/L
\L	Sb	123	146.159	0.000	**0.479759**	0.05	10.2	ug/L
\Γ	Ba	135	2917.632	0.020	**13.455149**	0.90	6.7	ug/L
|	Ba	137	4956.861	0.033	**13.529039**	0.60	4.4	ug/L
|	Tb	159	149145.295	-0.008				ug/L
|>	Ho	165	147784.345	147784.345				ug/L
|	Tl	203	13.333	0.000	**0.346311**	0.00	0.7	ug/L
|	Tl	205	34.667	0.000	**0.438206**	0.01	2.3	ug/L
\L	Pb	208	2004.055	0.013	**2.003390**	0.10	5.1	ug/L
	Kr	83	57.533	21.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		77.316	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		109.102	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		72.056	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	73.743
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-25A
Sample Date/Time: Thursday, February 24, 2011 15:47:30
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-25A.076
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	15045.074	-0.050				ug/L
|	Li	7	370241.329	1.006	**437.495962**	5.32	1.2	ug/L
|	Be	9	8028.923	0.022	**36.616090**	0.54	1.5	ug/L
|	B	11	267660.282	0.728	**909.718727**	17.88	2.0	ug/L
|	Na	23	342725230.861	936.861	**374883.587966**	4319.14	1.2	ug/L
|	Mg	24	78590077.565	214.843	**142248.471982**	686.19	0.5	ug/L
|	Al	27	S	S	**S**	S	S	ug/L
|	K	39	4122769.894	11.114	**3519.131897**	30.83	0.9	ug/L
|	Ca	43	692668.731	1.893	**135283.788586**	2411.14	1.8	ug/L
| >	Sc	45	365813.000	365813.000				ug/L
|	Ti	49	9297.692	0.024	**54.361603**	1.22	2.3	ug/L
|	Co	59	1508606.726	4.125	**456.483369**	15.98	3.5	ug/L
|	Ni	60	415590.358	1.136	**574.721859**	20.46	3.6	ug/L
|	Ni	62	64024.488	0.175	**588.889677**	11.97	2.0	ug/L
|	Cu	63	13230.128	0.033	**7.069612**	0.36	5.0	ug/L
|	Cu	65	9204.299	0.024	**11.066574**	0.41	3.7	ug/L
|	Zn	66	682886.036	1.866	**1406.870954**	20.77	1.5	ug/L
|	Zn	67	109249.508	0.290	**1381.253929**	32.20	2.3	ug/L
|	Zn	68	457561.768	1.250	**1378.370819**	28.08	2.0	ug/L
|	V	51	491117.100	1.363	**191.006938**	5.22	2.7	ug/L
|	Cr	52	332647.901	0.898	**140.154510**	3.14	2.2	ug/L
|	Cr	53	66820.587	0.121	**145.747231**	3.99	2.7	ug/L
|	Mn	55	55911636.040	152.877	**12866.673511**	369.10	2.9	ug/L
|	Fe	54	46980309.483	128.411	**242378.331636**	7549.91	3.1	ug/L
⌊	Fe	57	22109436.786	60.452	**252167.695022**	10193.64	4.0	ug/L
⌜	As	75	8669.226	0.002	**3.007490**	0.04	1.3	ug/L
|	Se	77	3935.876	-0.004	**-65.240930**	0.49	0.8	ug/L
|	Se	82	53.690	0.000	**-2.430495**	0.09	3.8	ug/L
|	Sr	88	4069844.752	1.357	**147.017229**	2.17	1.5	ug/L
| >	Y	89	2998561.815	2998561.815				ug/L
|	Mo	95	123.334	-0.000	**-0.134684**	0.01	6.2	ug/L
|	Mo	97	50.667	-0.000	**0.190288**	0.00	0.1	ug/L
⌊	Mo	98	118.083	-0.000	**0.289856**	0.00	1.0	ug/L
⌜	Ag	107	346.004	0.002	**0.185259**	0.02	8.3	ug/L
|	Ag	109	176.668	0.001	**-0.085904**	0.01	7.2	ug/L
|	Cd	111	5838.026	0.031	**18.739303**	0.58	3.1	ug/L
|	Cd	114	13459.796	0.071	**19.303702**	0.63	3.3	ug/L

|>	In	115	190700.848	190700.848				ug/L
|	Sn	120	2405.129	0.003	**0.732178**	0.13	17.4	ug/L
|	Sb	121	1807.448	0.009	**2.241195**	0.14	6.0	ug/L
|	Sb	123	1383.373	0.007	**2.022364**	0.12	5.7	ug/L
|	Ba	135	2842.283	0.010	**7.013254**	0.17	2.4	ug/L
|	Ba	137	4614.745	0.016	**6.809186**	0.02	0.3	ug/L
|	Tb	159	291990.582	0.007				ug/L
|>	Ho	165	284975.670	284975.670				ug/L
|	Tl	203	34.667	0.000	**0.356315**	0.01	2.0	ug/L
|	Tl	205	67.333	0.000	**0.438289**	0.01	1.2	ug/L
|	Pb	208	12595.499	0.044	**4.889067**	0.07	1.4	ug/L
	Kr	83	286.603	251.003				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		97.115	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		659.439	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		79.306	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	142.201
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, February 24, 2011 15:57:03
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 4.077
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	26830.410	-0.010				ug/L
|	Li	7	79467.863	0.234	**103.044607**	2.38	2.3	ug/L
|	Be	9	18936.547	0.057	**93.953872**	1.16	1.2	ug/L
|	B	11	27232.600	0.079	**97.005137**	1.68	1.7	ug/L
|	Na	23	3884355.285	11.728	**4698.321654**	181.97	3.9	ug/L
|	Mg	24	2369961.309	7.181	**4750.949603**	139.62	2.9	ug/L
|	Al	27	6825690.199	20.681	**4919.033278**	138.67	2.8	ug/L
|	K	39	5264309.958	15.801	**5005.285468**	134.44	2.7	ug/L
|	Ca	43	22847.616	0.069	**4893.551882**	170.22	3.5	ug/L
| >	Sc	45	329950.613	329950.613				ug/L
|	Ti	49	14462.651	0.042	**95.336026**	0.75	0.8	ug/L
|	Co	59	289430.598	0.877	**96.973893**	1.57	1.6	ug/L
|	Ni	60	62348.440	0.189	**95.450741**	1.31	1.4	ug/L
|	Ni	62	9384.418	0.028	**94.965951**	2.85	3.0	ug/L
|	Cu	63	147472.699	0.444	**95.953089**	0.88	0.9	ug/L
|	Cu	65	66827.999	0.202	**93.794323**	0.93	1.0	ug/L
|	Zn	66	41759.667	0.126	**94.545057**	2.30	2.4	ug/L
|	Zn	67	9347.058	0.020	**87.687440**	1.88	2.1	ug/L
|	Zn	68	28894.528	0.087	**95.272739**	0.18	0.2	ug/L
|	V	51	221836.864	0.693	**97.318641**	1.95	2.0	ug/L
|	Cr	52	207442.395	0.618	**96.445168**	2.46	2.5	ug/L
|	Cr	53	46733.671	0.080	**94.790427**	5.18	5.5	ug/L
|	Mn	55	380149.558	1.148	**97.237857**	2.89	3.0	ug/L
|	Fe	54	909936.733	2.706	**5088.841690**	170.98	3.4	ug/L
⌊	Fe	57	404736.660	1.217	**5063.395431**	92.39	1.8	ug/L
⌜	As	75	29122.474	0.071	**91.966430**	1.49	1.6	ug/L
|	Se	77	13437.652	0.028	**416.933117**	9.73	2.3	ug/L
|	Se	82	12743.674	0.031	**453.604825**	6.36	1.4	ug/L
|	Sr	88	358297.781	0.881	**95.241527**	4.16	4.4	ug/L
| >	Y	89	406445.693	406445.693				ug/L
|	Mo	95	47425.995	0.117	**94.559874**	3.24	3.4	ug/L
|	Mo	97	29358.180	0.072	**92.093637**	4.23	4.6	ug/L
⌊	Mo	98	76174.338	0.187	**92.623381**	3.70	4.0	ug/L
⌜	Ag	107	134818.142	0.640	**92.883487**	0.66	0.7	ug/L
|	Ag	109	130464.874	0.620	**94.702127**	1.51	1.6	ug/L
|	Cd	111	32945.968	0.157	**95.853442**	0.88	0.9	ug/L
|	Cd	114	74327.801	0.353	**95.122875**	0.97	1.0	ug/L

|>	In	115	210466.107	210466.107				ug/L
|	Sn	120	135429.835	0.634	**95.471862**	1.63	1.7	ug/L
|	Sb	121	107881.415	0.512	**94.258414**	2.34	2.5	ug/L
|	Sb	123	82100.804	0.390	**94.083492**	1.48	1.6	ug/L
|	Ba	135	24363.437	0.148	**97.732627**	0.97	1.0	ug/L
|	Ba	137	40689.907	0.247	**96.144095**	1.18	1.2	ug/L
|	Tb	159	169487.245	0.012				ug/L
|>	Ho	165	164645.674	164645.674				ug/L
|	Tl	203	51045.041	0.310	**99.019871**	1.11	1.1	ug/L
|	Tl	205	122187.009	0.742	**97.544771**	2.81	2.9	ug/L
|	Pb	208	168321.862	1.022	**97.094130**	2.17	2.2	ug/L
	Kr	83	59.067	23.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	103.045		
Be	9	93.954		
B	11	97.005		
Na	23	93.966		
Mg	24	95.019		
Al	27	96.452		
K	39	100.106		
Ca	43	97.871		
Sc	45		87.594	
Ti	49	95.336		
Co	59	96.974		
Ni	60	95.451		
Ni	62	94.966		
Cu	63	95.953		
Cu	65	93.794		
Zn	66	94.545		
Zn	67	87.687		
Zn	68	95.273		
V	51	97.319		
Cr	52	96.445		
Cr	53	94.790		
Mn	55	97.238		
Fe	54	101.777		
Fe	57	101.268		
As	75	91.966		
Se	77	83.387		
Se	82	90.721		
Sr	88	95.242		
Y	89		89.385	
Mo	95	94.560		
Mo	97	92.094		
Mo	98	92.623		
Ag	107	92.883		
Ag	109	94.702		
Cd	111	95.853		
Cd	114	95.123		
In	115		87.526	
Sn	120	95.472		
Sb	121	94.258		

Sb	123	94.083	
Ba	135	97.733	
Ba	137	96.144	
Tb	159		
Ho	165		82.157
Tl	203	99.020	
Tl	205	97.545	
Pb	208	97.094	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, February 24, 2011 16:04:42
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 6.079
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	29197.063	-0.003				ug/L
|	Li	7	2439.542	0.001	**1.816602**	0.10	5.3	ug/L
|	Be	9	7.333	0.000	**1.139561**	0.02	1.9	ug/L
|	B	11	1215.385	-0.000	**-1.715542**	0.14	8.1	ug/L
|	Na	23	15608.524	0.002	**6.416994**	0.34	5.3	ug/L
|	Mg	24	466.675	0.000	**-3.681335**	0.25	6.8	ug/L
|	Al	27	1101.710	-0.001	**2.011974**	0.12	6.1	ug/L
|	K	39	42931.196	-0.026	**-12.863035**	2.92	22.7	ug/L
|	Ca	43	304.003	0.000	**12.159793**	3.56	29.3	ug/L
| >	Sc	45	330471.296	330471.296				ug/L
|	Ti	49	358.005	-0.001	**0.209212**	0.24	116.6	ug/L
|	Co	59	118.667	-0.000	**-0.095152**	0.00	0.8	ug/L
|	Ni	60	50.667	-0.000	**-0.065498**	0.01	11.6	ug/L
|	Ni	62	50.667	-0.000	**-0.322746**	0.23	71.4	ug/L
|	Cu	63	2636.264	0.005	**0.973128**	0.65	66.4	ug/L
|	Cu	65	86.667	-0.000	**-0.550792**	0.04	7.0	ug/L
|	Zn	66	100.000	-0.000	**-0.638299**	0.02	3.6	ug/L
|	Zn	67	3712.484	0.003	**5.925594**	3.49	59.0	ug/L
|	Zn	68	273.336	0.000	**-0.392751**	0.09	23.6	ug/L
|	V	51	-8057.646	-0.004	**-0.007307**	0.55	7574.9	ug/L
|	Cr	52	4426.686	0.002	**0.704184**	0.03	4.9	ug/L
|	Cr	53	24893.013	0.014	**12.386345**	2.21	17.8	ug/L
|	Mn	55	2151.497	0.003	**0.821926**	0.07	8.1	ug/L
|	Fe	54	15861.995	-0.004	**-26.309052**	3.54	13.4	ug/L
⌞	Fe	57	1510.080	-0.005	**-34.650458**	0.34	1.0	ug/L
⌜	As	75	171.553	-0.000	**-0.201864**	0.40	196.4	ug/L
|	Se	77	1661.430	-0.001	**-25.315414**	2.52	9.9	ug/L
|	Se	82	-36.852	-0.000	**-3.960493**	0.22	5.6	ug/L
|	Sr	88	72.667	-0.000	**-0.593352**	0.00	0.7	ug/L
| >	Y	89	421684.810	421684.810				ug/L
|	Mo	95	13.333	-0.000	**-0.142612**	0.02	12.1	ug/L
|	Mo	97	6.000	-0.000	**0.186923**	0.01	5.6	ug/L
⌞	Mo	98	15.781	-0.000	**0.288819**	0.00	1.4	ug/L
⌜	Ag	107	7.333	0.000	**-0.073594**	0.00	3.4	ug/L
|	Ag	109	5.333	0.000	**-0.224238**	0.00	0.3	ug/L
|	Cd	111	5.333	0.000	**-0.006717**	0.01	75.0	ug/L
|	Cd	114	-0.423	-0.000	**0.352329**	0.01	3.9	ug/L

|>	In	115	222872.080	222872.080				ug/L
|	Sn	120	2372.112	0.001	**0.439282**	0.14	31.1	ug/L
|	Sb	121	66.667	0.000	**0.560442**	0.01	1.6	ug/L
|	Sb	123	55.828	-0.000	**0.337020**	0.02	5.2	ug/L
⌈	Ba	135	7.333	-0.000	**0.482631**	0.00	0.7	ug/L
|	Ba	137	11.333	-0.000	**0.568158**	0.00	0.3	ug/L
|	Tb	159	188335.036	0.013				ug/L
|>	Ho	165	182767.192	182767.192				ug/L
|	Tl	203	2.667	-0.000	**0.322346**	0.01	1.7	ug/L
|	Tl	205	3.333	-0.000	**0.409805**	0.00	0.8	ug/L
⌊	Pb	208	14.000	-0.000	**0.731289**	0.00	0.2	ug/L
	Kr	83	57.733	22.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.732	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		92.736	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		92.685	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	91.199
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-26A
Sample Date/Time: Thursday, February 24, 2011 16:07:59
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-26A.080
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	14141.672	-0.055				ug/L
|	Li	7	378357.627	0.968	**421.316591**	5.20	1.2	ug/L
|	Be	9	8106.968	0.021	**34.897767**	0.80	2.3	ug/L
|	B	11	272867.414	0.699	**873.752429**	5.30	0.6	ug/L
|	Na	23	343064692.042	884.075	**353761.371660**	20378.96	5.8	ug/L
|	Mg	24	80313793.414	206.944	**137018.306968**	3063.47	2.2	ug/L
|	Al	27	S	S	**S**	S	S	ug/L
|	K	39	4381496.933	11.133	**3525.390672**	8.66	0.2	ug/L
|	Ca	43	765786.987	1.973	**140953.386989**	368.36	0.3	ug/L
|>	Sc	45	388106.028	388106.028				ug/L
|	Ti	49	9574.541	0.023	**52.691528**	0.73	1.4	ug/L
|	Co	59	1651889.451	4.256	**470.993265**	3.18	0.7	ug/L
|	Ni	60	462342.806	1.191	**602.466525**	3.53	0.6	ug/L
|	Ni	62	70076.827	0.180	**607.471885**	12.00	2.0	ug/L
|	Cu	63	12763.702	0.030	**6.357626**	0.22	3.4	ug/L
|	Cu	65	8473.179	0.021	**9.509770**	0.14	1.5	ug/L
|	Zn	66	749727.933	1.931	**1455.711518**	9.23	0.6	ug/L
|	Zn	67	118549.864	0.297	**1413.574579**	10.03	0.7	ug/L
|	Zn	68	502566.026	1.294	**1426.796448**	10.52	0.7	ug/L
|	V	51	541935.717	1.417	**198.492719**	1.41	0.7	ug/L
|	Cr	52	366519.232	0.933	**145.577717**	0.96	0.7	ug/L
|	Cr	53	73424.231	0.128	**153.814612**	2.29	1.5	ug/L
|	Mn	55	62124092.860	160.064	**13471.517258**	199.14	1.5	ug/L
|	Fe	54	52231231.361	134.525	**253920.160128**	1511.23	0.6	ug/L
⌞	Fe	57	24479699.306	63.066	**263073.185107**	3727.82	1.4	ug/L
⌜	As	75	9978.186	0.003	**3.218433**	0.11	3.6	ug/L
|	Se	77	4399.344	-0.004	**-64.729304**	0.13	0.2	ug/L
|	Se	82	78.749	0.000	**-2.340497**	0.07	3.1	ug/L
|	Sr	88	4446487.854	1.360	**147.396140**	0.34	0.2	ug/L
|>	Y	89	3267197.112	3267197.112				ug/L
|	Mo	95	126.001	-0.000	**-0.136795**	0.00	0.5	ug/L
|	Mo	97	68.667	-0.000	**0.195513**	0.00	2.2	ug/L
⌞	Mo	98	126.978	-0.000	**0.289588**	0.00	0.9	ug/L
⌜	Ag	107	408.673	0.002	**0.211556**	0.03	14.8	ug/L
|	Ag	109	208.002	0.001	**-0.072032**	0.02	27.0	ug/L
|	Cd	111	6442.953	0.031	**19.264576**	0.92	4.8	ug/L
|	Cd	114	15101.433	0.074	**20.161389**	1.14	5.7	ug/L

|>	In	115	204806.258	204806.258				ug/L
|	Sn	120	2766.502	0.004	**0.866259**	0.01	1.7	ug/L
|	Sb	121	2136.827	0.010	**2.413616**	0.06	2.4	ug/L
|	Sb	123	1664.484	0.008	**2.232850**	0.10	4.4	ug/L
|	Ba	135	3379.066	0.010	**6.809722**	0.08	1.2	ug/L
|	Ba	137	5937.901	0.017	**7.114802**	0.16	2.3	ug/L
|	Tb	159	357115.100	0.004				ug/L
|>	Ho	165	349649.567	349649.567				ug/L
|	Tl	203	30.667	0.000	**0.345501**	0.01	1.5	ug/L
|	Tl	205	68.000	0.000	**0.432825**	0.00	0.5	ug/L
|	Pb	208	13045.673	0.037	**4.240430**	0.06	1.4	ug/L
	Kr	83	313.203	277.603				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		103.033	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		718.517	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		85.172	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	174.472
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-27A
Sample Date/Time: Thursday, February 24, 2011 16:10:39
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-27A.081
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28817.498	-0.002				ug/L
|	Li	7	8678.636	0.020	**10.295721**	0.22	2.1	ug/L
|	Be	9	6.667	0.000	**1.136943**	0.02	1.4	ug/L
|	B	11	26743.682	0.079	**97.589727**	3.12	3.2	ug/L
|	Na	23	41292406.227	128.104	**51265.451260**	2320.17	4.5	ug/L
|	Mg	24	966131.974	2.997	**1980.543324**	75.24	3.8	ug/L
|	Al	27	138857.376	0.426	**103.456198**	34.17	33.0	ug/L
|	K	39	932798.897	2.739	**863.808454**	21.77	2.5	ug/L
|	Ca	43	17275.774	0.053	**3777.868242**	43.69	1.2	ug/L
| >	Sc	45	322239.118	322239.118				ug/L
|	Ti	49	642.681	0.000	**2.238822**	0.38	17.1	ug/L
|	Co	59	370.672	0.000	**-0.007637**	0.02	291.8	ug/L
|	Ni	60	770.687	0.002	**1.066892**	0.03	3.3	ug/L
|	Ni	62	128.001	0.000	**0.493729**	0.36	73.3	ug/L
|	Cu	63	5755.160	0.015	**3.105880**	0.12	4.0	ug/L
|	Cu	65	2309.520	0.006	**2.671271**	0.22	8.1	ug/L
|	Zn	66	2056.149	0.006	**3.946572**	0.40	10.1	ug/L
|	Zn	67	5561.082	0.009	**34.738615**	1.89	5.4	ug/L
|	Zn	68	1744.107	0.005	**4.665093**	0.30	6.3	ug/L
|	V	51	-9700.427	-0.010	**-0.806659**	0.26	32.0	ug/L
|	Cr	52	6274.045	0.008	**1.648830**	0.05	3.3	ug/L
|	Cr	53	32245.017	0.039	**43.122868**	1.68	3.9	ug/L
|	Mn	55	11534.021	0.032	**3.285926**	0.31	9.4	ug/L
|	Fe	54	36078.957	0.060	**94.350874**	10.70	11.3	ug/L
⌊	Fe	57	7966.254	0.016	**49.358761**	14.73	29.8	ug/L
⌈	As	75	821.070	0.002	**2.034235**	0.55	27.1	ug/L
|	Se	77	2482.216	0.001	**12.959504**	3.81	29.4	ug/L
|	Se	82	-16.120	-0.000	**-3.304057**	0.08	2.3	ug/L
|	Sr	88	104817.149	0.273	**29.102942**	1.04	3.6	ug/L
| >	Y	89	383927.550	383927.550				ug/L
|	Mo	95	1105.376	0.003	**2.171731**	0.12	5.6	ug/L
|	Mo	97	714.685	0.002	**2.540410**	0.12	4.8	ug/L
⌊	Mo	98	1868.122	0.005	**2.672556**	0.19	7.3	ug/L
⌈	Ag	107	8.000	0.000	**-0.072320**	0.00	5.6	ug/L
|	Ag	109	2.667	0.000	**-0.225808**	0.00	0.4	ug/L
|	Cd	111	7.333	0.000	**0.001321**	0.01	879.0	ug/L
|	Cd	114	20.776	0.000	**0.381191**	0.01	3.0	ug/L

|>	In	115	196583.064	196583.064				ug/L
|	Sn	120	2015.365	0.000	**0.378378**	0.05	12.9	ug/L
|	Sb	121	50.667	0.000	**0.552943**	0.02	2.8	ug/L
\L	Sb	123	60.909	-0.000	**0.351316**	0.01	3.3	ug/L
⌈	Ba	135	5637.112	0.036	**24.279960**	0.34	1.4	ug/L
|	Ba	137	9508.497	0.061	**24.195250**	0.49	2.0	ug/L
|	Tb	159	160295.961	0.013				ug/L
|>	Ho	165	155567.975	155567.975				ug/L
|	Tl	203	1.333	-0.000	**0.320340**	0.00	1.5	ug/L
|	Tl	205	1.333	-0.000	**0.408499**	0.00	0.5	ug/L
\L	Pb	208	611.338	0.004	**1.094599**	0.02	2.2	ug/L
	Kr	83	40.867	5.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.547	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		84.433	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		81.753	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	77.627
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-28A
Sample Date/Time: Thursday, February 24, 2011 16:13:20
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-28A.082
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24298.383	-0.011				ug/L
|	Li	7	61510.150	0.198	**87.500314**	1.21	1.4	ug/L
|	Be	9	325.337	0.001	**2.855687**	0.21	7.4	ug/L
|	B	11	18596.098	0.058	**71.247956**	0.40	0.6	ug/L
|	Na	23	S	S	**S**	S	S	ug/L
|	Mg	24	93270075.182	310.590	**205644.975216**	14945.99	7.3	ug/L
|	Al	27	146948.853	0.485	**117.676822**	4.24	3.6	ug/L
|	K	39	1175612.343	3.761	**1187.776256**	39.76	3.3	ug/L
|	Ca	43	1144791.544	3.814	**272572.701057**	1818.99	0.7	ug/L
|>	Sc	45	300088.185	300088.185				ug/L
|	Ti	49	2714.258	0.007	**17.928715**	0.47	2.6	ug/L
|	Co	59	387508.318	1.291	**142.831932**	3.40	2.4	ug/L
|	Ni	60	47868.064	0.159	**80.561414**	1.50	1.9	ug/L
|	Ni	62	6901.668	0.023	**76.661059**	3.35	4.4	ug/L
|	Cu	63	8261.723	0.025	**5.200169**	0.24	4.6	ug/L
|	Cu	65	2469.547	0.008	**3.168169**	0.32	9.9	ug/L
|	Zn	66	5642.447	0.018	**13.312840**	0.23	1.7	ug/L
|	Zn	67	5643.781	0.011	**42.154879**	1.75	4.2	ug/L
|	Zn	68	3180.354	0.010	**10.383412**	0.41	4.0	ug/L
|	V	51	-7705.829	-0.005	**-0.193293**	0.73	375.9	ug/L
|	Cr	52	5218.287	0.006	**1.325594**	0.07	5.6	ug/L
|	Cr	53	26187.322	0.026	**27.247850**	4.07	14.9	ug/L
|	Mn	55	65838637.702	219.447	**18469.202451**	467.65	2.5	ug/L
|	Fe	54	5202599.924	17.288	**32615.964026**	681.63	2.1	ug/L
⌊	Fe	57	2439348.293	8.122	**33865.995359**	970.45	2.9	ug/L
⌈	As	75	1230.005	0.002	**2.062002**	0.44	21.2	ug/L
|	Se	77	4521.383	0.003	**35.415818**	4.18	11.8	ug/L
|	Se	82	35.679	0.000	**-1.778878**	0.25	14.3	ug/L
|	Sr	88	7959177.999	13.982	**1520.041991**	11.22	0.7	ug/L
|>	Y	89	569237.674	569237.674				ug/L
|	Mo	95	601.346	0.001	**0.689513**	0.03	4.4	ug/L
|	Mo	97	314.003	0.001	**0.871018**	0.06	6.6	ug/L
⌊	Mo	98	785.656	0.001	**0.950437**	0.03	2.9	ug/L
⌈	Ag	107	31.333	0.000	**-0.054862**	0.00	1.9	ug/L
|	Ag	109	16.000	0.000	**-0.215324**	0.00	2.1	ug/L
|	Cd	111	21.333	0.000	**0.046162**	0.01	21.3	ug/L
|	Cd	114	10.055	0.000	**0.366851**	0.01	3.2	ug/L

|>	In	115	193963.620	193963.620				ug/L
|	Sn	120	1941.674	0.000	**0.340900**	0.03	9.7	ug/L
|	Sb	121	86.667	0.000	**0.587403**	0.02	2.6	ug/L
L	Sb	123	170.803	0.000	**0.488459**	0.01	1.8	ug/L
⌈	Ba	135	6462.796	0.035	**23.419771**	1.15	4.9	ug/L
|	Ba	137	11065.618	0.060	**23.678559**	0.92	3.9	ug/L
|	Tb	159	191723.570	0.018				ug/L
|>	Ho	165	185153.128	185153.128				ug/L
|	Tl	203	9.333	0.000	**0.333527**	0.01	2.3	ug/L
|	Tl	205	8.667	0.000	**0.413502**	0.00	0.2	ug/L
L	Pb	208	668.673	0.003	**1.064659**	0.02	2.1	ug/L
	Kr	83	75.067	39.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		79.666	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		125.186	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.663	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	92.390
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-29A
Sample Date/Time: Thursday, February 24, 2011 16:16:01
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-29A.083
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	26714.839	-0.001				ug/L
|	Li	7	29709.535	0.094	**42.095581**	1.29	3.1	ug/L
|	Be	9	5.333	0.000	**1.132454**	0.03	3.0	ug/L
|	B	11	18100.127	0.057	**70.152201**	2.03	2.9	ug/L
|	Na	23	56515934.577	190.780	**76344.883831**	4345.13	5.7	ug/L
|	Mg	24	9958277.012	33.623	**22258.935948**	1459.92	6.6	ug/L
|	Al	27	77555.018	0.257	**63.450933**	2.03	3.2	ug/L
|	K	39	2443110.654	8.088	**2559.939101**	67.47	2.6	ug/L
|	Ca	43	185822.389	0.627	**44767.868179**	1415.25	3.2	ug/L
| >	Sc	45	296374.927	296374.927				ug/L
|	Ti	49	853.359	0.001	**4.210052**	0.59	13.9	ug/L
|	Co	59	512.009	0.001	**0.056619**	0.02	38.3	ug/L
|	Ni	60	679.350	0.002	**1.016696**	0.06	6.1	ug/L
|	Ni	62	81.334	0.000	**0.082696**	0.01	11.4	ug/L
|	Cu	63	2036.145	0.004	**0.727827**	0.05	6.8	ug/L
|	Cu	65	497.342	0.001	**0.109224**	0.03	23.0	ug/L
|	Zn	66	1872.123	0.006	**3.895843**	0.05	1.3	ug/L
|	Zn	67	5626.443	0.011	**43.077280**	6.85	15.9	ug/L
|	Zn	68	3159.016	0.010	**10.455667**	0.58	5.6	ug/L
|	V	51	-3226.727	0.009	**1.884505**	0.36	19.2	ug/L
|	Cr	52	5644.449	0.008	**1.583083**	0.04	2.5	ug/L
|	Cr	53	30592.077	0.042	**47.035807**	3.59	7.6	ug/L
|	Mn	55	15605.886	0.049	**4.709945**	0.41	8.7	ug/L
|	Fe	54	33824.396	0.062	**98.525126**	5.65	5.7	ug/L
⌊	Fe	57	13060.635	0.035	**130.149204**	1.66	1.3	ug/L
⌜	As	75	602.916	0.001	**1.336799**	0.63	47.3	ug/L
|	Se	77	2782.271	0.002	**27.311580**	6.66	24.4	ug/L
|	Se	82	-18.000	-0.000	**-3.392845**	0.34	10.1	ug/L
|	Sr	88	1029565.408	2.739	**297.370593**	6.24	2.1	ug/L
| >	Y	89	375849.734	375849.734				ug/L
|	Mo	95	1234.720	0.003	**2.500167**	0.13	5.1	ug/L
|	Mo	97	791.355	0.002	**2.847841**	0.16	5.5	ug/L
⌊	Mo	98	2060.596	0.005	**2.972510**	0.11	3.7	ug/L
⌜	Ag	107	6.000	0.000	**-0.073731**	0.00	4.1	ug/L
|	Ag	109	2.667	0.000	**-0.225747**	0.00	0.4	ug/L
|	Cd	111	12.333	0.000	**0.018584**	0.01	33.7	ug/L
|	Cd	114	16.793	0.000	**0.376856**	0.01	1.7	ug/L

|>	In	115	189428.097	189428.097				ug/L
|	Sn	120	3413.760	0.008	**1.550648**	2.12	136.4	ug/L
|	Sb	121	128.667	0.000	**0.629854**	0.02	3.5	ug/L
|	Sb	123	113.907	0.000	**0.421096**	0.02	4.6	ug/L
⌈	Ba	135	111195.239	0.731	**481.000729**	24.13	5.0	ug/L
|	Ba	137	188612.534	1.240	**480.151292**	21.13	4.4	ug/L
|	Tb	159	156633.703	0.011				ug/L
|>	Ho	165	152273.698	152273.698				ug/L
|	Tl	203	4.000	0.000	**0.325949**	0.00	1.3	ug/L
|	Tl	205	6.667	0.000	**0.413134**	0.00	0.5	ug/L
⌊	Pb	208	617.339	0.004	**1.106055**	0.02	1.5	ug/L
	Kr	83	51.067	15.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		78.681	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		82.656	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		78.777	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	75.983
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-30A
Sample Date/Time: Thursday, February 24, 2011 16:18:41
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-30A.084
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	26810.816	0.001				ug/L
|	Li	7	17136.947	0.052	**24.212966**	1.24	5.1	ug/L
|	Be	9	239.335	0.001	**2.436816**	0.06	2.6	ug/L
|	B	11	33816.665	0.113	**139.476364**	5.73	4.1	ug/L
|	Na	23	78415532.821	269.970	**108031.942885**	3655.43	3.4	ug/L
|	Mg	24	8892201.379	30.619	**20269.991424**	436.92	2.2	ug/L
|	Al	27	3126142.508	10.762	**2560.914510**	94.04	3.7	ug/L
|	K	39	4683703.339	15.975	**5060.541329**	158.41	3.1	ug/L
|	Ca	43	144163.937	0.496	**35429.662075**	1142.08	3.2	ug/L
| >	Sc	45	290429.913	290429.913				ug/L
|	Ti	49	1202.717	0.003	**7.020236**	0.84	12.0	ug/L
|	Co	59	78175.986	0.268	**29.663724**	0.44	1.5	ug/L
|	Ni	60	11912.971	0.041	**20.617048**	1.15	5.6	ug/L
|	Ni	62	1789.446	0.006	**19.904403**	1.50	7.6	ug/L
|	Cu	63	36390.974	0.122	**26.361569**	0.96	3.7	ug/L
|	Cu	65	16289.282	0.055	**25.489943**	0.16	0.6	ug/L
|	Zn	66	22641.935	0.077	**57.927049**	1.77	3.1	ug/L
|	Zn	67	8650.620	0.022	**94.723522**	6.56	6.9	ug/L
|	Zn	68	16078.378	0.055	**59.753013**	1.16	1.9	ug/L
|	V	51	-1610.120	0.015	**2.624707**	0.18	7.0	ug/L
|	Cr	52	8546.556	0.018	**3.199423**	0.10	3.0	ug/L
|	Cr	53	30769.100	0.045	**50.429084**	1.86	3.7	ug/L
|	Mn	55	5438625.496	18.726	**1576.585617**	35.04	2.2	ug/L
|	Fe	54	1318959.495	4.490	**8456.919891**	128.06	1.5	ug/L
⌊	Fe	57	609900.063	2.091	**8709.088227**	249.28	2.9	ug/L
⌜	As	75	27281.651	0.063	**81.879909**	1.68	2.0	ug/L
|	Se	77	2635.577	0.001	**8.471189**	2.76	32.6	ug/L
|	Se	82	-26.227	-0.000	**-3.585986**	0.21	5.8	ug/L
|	Sr	88	810827.217	1.897	**205.723968**	0.73	0.4	ug/L
| >	Y	89	427361.051	427361.051				ug/L
|	Mo	95	400.006	0.001	**0.591923**	0.06	9.7	ug/L
|	Mo	97	264.669	0.001	**0.956939**	0.05	4.8	ug/L
⌊	Mo	98	735.581	0.002	**1.118509**	0.01	1.3	ug/L
⌜	Ag	107	14.000	0.000	**-0.067327**	0.01	12.3	ug/L
|	Ag	109	6.667	0.000	**-0.222328**	0.00	0.4	ug/L
|	Cd	111	4621.081	0.025	**15.429138**	0.68	4.4	ug/L
|	Cd	114	10634.495	0.058	**15.928285**	0.64	4.0	ug/L

|>	In	115	183300.743	183300.743				ug/L
|	Sn	120	2085.312	0.002	**0.551709**	0.41	73.9	ug/L
|	Sb	121	110.667	0.000	**0.615980**	0.00	0.1	ug/L
L	Sb	123	108.905	0.000	**0.419289**	0.02	5.0	ug/L
⌈	Ba	135	25613.608	0.171	**113.239616**	2.37	2.1	ug/L
|	Ba	137	43678.735	0.293	**113.776690**	6.47	5.7	ug/L
|	Tb	159	149684.963	-0.015				ug/L
|>	Ho	165	149354.913	149354.913				ug/L
|	Tl	203	269.336	0.002	**0.891623**	0.04	4.5	ug/L
|	Tl	205	657.349	0.004	**0.983167**	0.05	5.4	ug/L
L	Pb	208	5408.401	0.036	**4.139708**	0.23	5.6	ug/L
	Kr	83	63.067	27.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		77.102	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		93.985	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		76.229	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	74.527
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-31A
Sample Date/Time: Thursday, February 24, 2011 16:21:22
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-31A.085
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	20822.937	-0.028				ug/L
|	Li	7	179253.664	0.542	**236.719460**	10.84	4.6	ug/L
|	Be	9	4896.840	0.015	**25.374528**	1.08	4.3	ug/L
|	B	11	71787.465	0.216	**268.988778**	15.56	5.8	ug/L
|	Na	23	322505530.256	987.840	**395282.421914**	14799.85	3.7	ug/L
|	Mg	24	43547502.608	133.412	**88331.358837**	4601.46	5.2	ug/L
|	Al	27	207228161.225	634.770	**150915.776129**	5675.28	3.8	ug/L
|	K	39	9335499.766	28.436	**9011.474862**	341.13	3.8	ug/L
|	Ca	43	442763.770	1.356	**96891.776338**	5927.27	6.1	ug/L
| >	Sc	45	326570.324	326570.324				ug/L
|	Ti	49	8816.721	0.025	**57.895873**	2.40	4.2	ug/L
|	Co	59	600328.253	1.838	**203.415568**	7.83	3.8	ug/L
|	Ni	60	145823.010	0.447	**225.835641**	10.71	4.7	ug/L
|	Ni	62	22679.326	0.069	**233.192044**	7.90	3.4	ug/L
|	Cu	63	9428.446	0.026	**5.489929**	0.28	5.0	ug/L
|	Cu	65	4675.432	0.014	**6.005305**	0.20	3.3	ug/L
|	Zn	66	112263.428	0.343	**258.400454**	6.96	2.7	ug/L
|	Zn	67	21915.464	0.059	**273.284842**	6.71	2.5	ug/L
|	Zn	68	74109.092	0.226	**249.030206**	7.37	3.0	ug/L
|	V	51	257000.717	0.808	**113.389411**	4.05	3.6	ug/L
|	Cr	52	123893.638	0.368	**57.671404**	1.57	2.7	ug/L
|	Cr	53	42172.827	0.068	**79.254548**	3.23	4.1	ug/L
|	Mn	55	22063383.890	67.577	**5687.859140**	182.23	3.2	ug/L
|	Fe	54	46357908.155	141.945	**267926.608838**	8605.24	3.2	ug/L
⌞	Fe	57	21533531.624	65.951	**275110.919558**	9807.06	3.6	ug/L
⌜	As	75	9369.137	0.003	**3.927186**	0.11	2.7	ug/L
|	Se	77	3497.095	-0.004	**-64.766736**	0.86	1.3	ug/L
|	Se	82	42.258	0.000	**-2.455745**	0.05	2.2	ug/L
|	Sr	88	4208954.050	1.617	**175.327085**	1.77	1.0	ug/L
| >	Y	89	2601476.606	2601476.606				ug/L
|	Mo	95	567.345	0.000	**0.009006**	0.01	79.5	ug/L
|	Mo	97	362.005	0.000	**0.345885**	0.00	1.0	ug/L
⌞	Mo	98	968.855	0.000	**0.454061**	0.01	3.1	ug/L
⌜	Ag	107	178.668	0.001	**0.048813**	0.01	13.1	ug/L
|	Ag	109	62.000	0.000	**-0.181333**	0.01	4.3	ug/L
|	Cd	111	1589.088	0.008	**4.753876**	0.13	2.8	ug/L
|	Cd	114	3592.326	0.018	**5.082389**	0.12	2.4	ug/L

|>	In	115	203901.348	203901.348				ug/L
|	Sn	120	2147.138	0.001	**0.419221**	0.01	3.0	ug/L
|	Sb	121	350.004	0.002	**0.819608**	0.01	1.2	ug/L
|	Sb	123	339.813	0.001	**0.677105**	0.03	3.9	ug/L
⌈	Ba	135	4860.827	0.018	**12.345498**	0.11	0.9	ug/L
|	Ba	137	8419.814	0.031	**12.665351**	0.18	1.5	ug/L
|	Tb	159	280084.625	0.024				ug/L
|>	Ho	165	268793.079	268793.079				ug/L
|	Tl	203	53.333	0.000	**0.380700**	0.01	1.6	ug/L
|	Tl	205	147.334	0.001	**0.479072**	0.00	0.3	ug/L
⌊	Pb	208	7989.543	0.029	**3.524981**	0.05	1.5	ug/L
	Kr	83	179.934	144.334				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		86.697	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		572.113	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		84.796	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	134.126
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-32A
Sample Date/Time: Thursday, February 24, 2011 16:24:03
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-32A.086
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27420.340	-0.001				ug/L
|	Li	7	11020.919	0.030	**14.442180**	0.77	5.3	ug/L
|	Be	9	139.334	0.000	**1.849253**	0.02	1.1	ug/L
|	B	11	14995.870	0.046	**55.838963**	2.62	4.7	ug/L
|	Na	23	20437303.925	67.628	**27066.428172**	1214.36	4.5	ug/L
|	Mg	24	2833594.701	9.380	**6207.140078**	174.63	2.8	ug/L
|	Al	27	8759663.778	29.003	**6897.727613**	317.20	4.6	ug/L
|	K	39	2919895.817	9.509	**3010.468303**	59.29	2.0	ug/L
|	Ca	43	52010.509	0.172	**12251.229316**	265.31	2.2	ug/L
| >	Sc	45	302147.341	302147.341				ug/L
|	Ti	49	1213.385	0.002	**6.736543**	0.32	4.8	ug/L
|	Co	59	30734.361	0.101	**11.127828**	0.27	2.5	ug/L
|	Ni	60	10711.349	0.035	**17.799634**	0.75	4.2	ug/L
|	Ni	62	1700.101	0.005	**18.115351**	0.51	2.8	ug/L
|	Cu	63	47217.266	0.153	**33.072300**	1.41	4.3	ug/L
|	Cu	65	21689.803	0.071	**32.837725**	1.99	6.1	ug/L
|	Zn	66	32316.520	0.106	**79.822418**	3.18	4.0	ug/L
|	Zn	67	10134.263	0.025	**112.740899**	8.59	7.6	ug/L
|	Zn	68	22492.367	0.074	**80.836381**	3.54	4.4	ug/L
|	V	51	-8806.728	-0.009	**-0.675943**	0.36	53.3	ug/L
|	Cr	52	11740.826	0.028	**4.670522**	0.33	7.0	ug/L
|	Cr	53	33603.484	0.050	**57.034121**	5.38	9.4	ug/L
|	Mn	55	1819614.564	6.022	**507.411201**	22.77	4.5	ug/L
|	Fe	54	74432.810	0.195	**348.547035**	36.07	10.3	ug/L
⌊	Fe	57	26518.664	0.079	**312.864076**	32.32	10.3	ug/L
⌈	As	75	347.491	0.000	**0.352837**	0.62	176.3	ug/L
|	Se	77	2559.563	0.001	**8.559549**	5.58	65.2	ug/L
|	Se	82	-23.980	-0.000	**-3.532387**	0.14	4.0	ug/L
|	Sr	88	243223.617	0.586	**63.196337**	2.56	4.0	ug/L
| >	Y	89	414650.716	414650.716				ug/L
|	Mo	95	38.000	0.000	**-0.093622**	0.01	15.7	ug/L
|	Mo	97	22.000	0.000	**0.236192**	0.02	7.5	ug/L
⌊	Mo	98	49.187	0.000	**0.328854**	0.00	1.4	ug/L
⌈	Ag	107	20.667	0.000	**-0.062326**	0.01	8.6	ug/L
|	Ag	109	6.667	0.000	**-0.222444**	0.00	0.4	ug/L
|	Cd	111	13556.930	0.072	**44.338543**	1.14	2.6	ug/L
|	Cd	114	30739.118	0.164	**44.426164**	1.46	3.3	ug/L

|>	In	115	187264.758	187264.758				ug/L
|	Sn	120	1929.362	0.000	**0.384562**	0.05	13.3	ug/L
|	Sb	121	664.015	0.003	**1.154755**	0.06	5.2	ug/L
|	Sb	123	529.669	0.002	**0.957297**	0.04	4.6	ug/L
|	Ba	135	6592.855	0.044	**29.360329**	0.73	2.5	ug/L
|	Ba	137	11354.511	0.076	**29.834538**	0.31	1.0	ug/L
|	Tb	159	152154.903	-0.003				ug/L
|>	Ho	165	149984.647	149984.647				ug/L
|	Tl	203	48.667	0.000	**0.420752**	0.01	3.6	ug/L
|	Tl	205	96.667	0.001	**0.491852**	0.02	3.8	ug/L
|	Pb	208	36671.028	0.244	**23.773827**	1.16	4.9	ug/L
	Kr	83	57.000	21.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		80.213	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		91.189	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		77.877	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	74.841
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-34A
Sample Date/Time: Thursday, February 24, 2011 16:26:44
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-34A.087
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26087.907	-0.006				ug/L
|	Li	7	35174.586	0.109	**48.715556**	0.42	0.9	ug/L
|	Be	9	893.361	0.003	**5.851412**	0.17	3.0	ug/L
|	B	11	36802.688	0.117	**145.000721**	2.54	1.8	ug/L
|	Na	23	88695113.714	291.304	**116568.676155**	1592.22	1.4	ug/L
|	Mg	24	7924239.036	26.028	**17230.169201**	130.77	0.8	ug/L
|	Al	27	19476353.627	63.971	**15211.042886**	178.60	1.2	ug/L
|	K	39	3658714.433	11.862	**3756.406619**	79.72	2.1	ug/L
|	Ca	43	74275.324	0.243	**17382.035789**	410.72	2.4	ug/L
| >	Sc	45	304432.578	304432.578				ug/L
|	Ti	49	1174.048	0.002	**6.379245**	0.24	3.8	ug/L
|	Co	59	135117.354	0.443	**48.992299**	0.46	0.9	ug/L
|	Ni	60	36908.292	0.121	**61.183895**	0.96	1.6	ug/L
|	Ni	62	5550.411	0.018	**60.580013**	0.62	1.0	ug/L
|	Cu	63	26787.774	0.085	**18.279961**	0.55	3.0	ug/L
|	Cu	65	11910.297	0.038	**17.575415**	0.26	1.5	ug/L
|	Zn	66	109428.201	0.359	**270.163492**	2.88	1.1	ug/L
|	Zn	67	21761.897	0.063	**294.152744**	2.72	0.9	ug/L
|	Zn	68	75261.749	0.246	**271.336741**	3.38	1.2	ug/L
|	V	51	-6456.422	-0.001	**0.437451**	0.38	86.9	ug/L
|	Cr	52	14620.144	0.037	**6.092550**	0.03	0.5	ug/L
|	Cr	53	33765.196	0.050	**56.586053**	2.29	4.0	ug/L
|	Mn	55	4003462.468	13.147	**1107.018431**	28.75	2.6	ug/L
|	Fe	54	1567772.098	5.098	**9604.187824**	209.78	2.2	ug/L
⌊	Fe	57	716566.930	2.345	**9765.420519**	211.01	2.2	ug/L
⌈	As	75	515.722	0.001	**0.594671**	0.31	51.7	ug/L
|	Se	77	2760.933	0.000	**-1.702318**	1.28	74.9	ug/L
|	Se	82	-21.616	-0.000	**-3.317708**	0.23	6.8	ug/L
|	Sr	88	390678.782	0.777	**83.979628**	0.54	0.6	ug/L
| >	Y	89	502267.019	502267.019				ug/L
|	Mo	95	20.000	-0.000	**-0.135778**	0.00	2.3	ug/L
|	Mo	97	14.000	-0.000	**0.204245**	0.01	4.3	ug/L
⌊	Mo	98	25.260	-0.000	**0.295201**	0.01	2.7	ug/L
⌈	Ag	107	21.333	0.000	**-0.061392**	0.00	5.1	ug/L
|	Ag	109	10.667	0.000	**-0.218960**	0.00	0.4	ug/L
|	Cd	111	33463.152	0.183	**112.182258**	3.20	2.8	ug/L
|	Cd	114	76667.962	0.420	**112.971066**	1.84	1.6	ug/L

|>	In	115	182733.803	182733.803				ug/L
|	Sn	120	1826.724	0.000	**0.339626**	0.07	20.1	ug/L
|	Sb	121	86.667	0.000	**0.592341**	0.02	2.7	ug/L
|	Sb	123	96.746	0.000	**0.403806**	0.01	2.8	ug/L
⌈	Ba	135	2331.524	0.016	**10.705720**	0.53	5.0	ug/L
|	Ba	137	3881.861	0.026	**10.583430**	0.52	4.9	ug/L
|	Tb	159	153247.124	0.006				ug/L
|>	Ho	165	149681.710	149681.710				ug/L
|	Tl	203	227.335	0.001	**0.800699**	0.02	3.1	ug/L
|	Tl	205	568.011	0.004	**0.904129**	0.03	3.4	ug/L
⌊	Pb	208	5632.433	0.037	**4.271098**	0.06	1.4	ug/L
	Kr	83	78.600	43.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		80.820	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		110.458	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		75.993	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	74.690
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-35A
Sample Date/Time: Thursday, February 24, 2011 16:29:24
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-35A.088
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26172.255	-0.006				ug/L
|	Li	7	33711.080	0.103	**46.389829**	1.65	3.6	ug/L
|	Be	9	793.355	0.003	**5.298860**	0.27	5.1	ug/L
|	B	11	34351.251	0.108	**134.196928**	1.83	1.4	ug/L
|	Na	23	80391370.977	262.764	**105148.535178**	8160.81	7.8	ug/L
|	Mg	24	7113287.555	23.252	**15391.947589**	1112.04	7.2	ug/L
|	Al	27	18063850.339	59.038	**14038.302539**	693.13	4.9	ug/L
|	K	39	3311706.092	10.670	**3378.589495**	275.58	8.2	ug/L
|	Ca	43	67998.884	0.222	**15828.534730**	606.70	3.8	ug/L
| >	Sc	45	306028.625	306028.625				ug/L
|	Ti	49	1037.371	0.002	**5.342032**	0.21	3.9	ug/L
|	Co	59	130960.807	0.427	**47.240326**	2.07	4.4	ug/L
|	Ni	60	42012.382	0.137	**69.310973**	2.26	3.3	ug/L
|	Ni	62	6401.435	0.021	**69.642889**	2.88	4.1	ug/L
|	Cu	63	25159.475	0.079	**17.031999**	0.47	2.7	ug/L
|	Cu	65	10796.078	0.035	**15.783246**	0.29	1.8	ug/L
|	Zn	66	104529.122	0.341	**256.704377**	6.37	2.5	ug/L
|	Zn	67	20665.605	0.059	**275.258698**	6.06	2.2	ug/L
|	Zn	68	71081.740	0.231	**254.856902**	1.71	0.7	ug/L
|	V	51	-6565.567	-0.001	**0.402570**	0.34	84.6	ug/L
|	Cr	52	19114.114	0.051	**8.340055**	0.23	2.8	ug/L
|	Cr	53	32775.557	0.046	**51.859988**	2.23	4.3	ug/L
|	Mn	55	3815056.982	12.464	**1049.579796**	26.49	2.5	ug/L
|	Fe	54	1449541.855	4.685	**8825.523666**	231.88	2.6	ug/L
⌊	Fe	57	661262.431	2.152	**8961.658287**	266.69	3.0	ug/L
⌈	As	75	378.311	0.000	**0.272776**	0.10	36.5	ug/L
|	Se	77	2580.900	0.000	**-4.570736**	2.06	45.2	ug/L
|	Se	82	-27.392	-0.000	**-3.512667**	0.12	3.3	ug/L
|	Sr	88	371434.750	0.763	**82.463332**	2.69	3.3	ug/L
| >	Y	89	486351.728	486351.728				ug/L
|	Mo	95	243.335	0.000	**0.237929**	0.04	15.9	ug/L
|	Mo	97	157.334	0.000	**0.580327**	0.04	7.0	ug/L
⌊	Mo	98	421.120	0.001	**0.697039**	0.03	4.3	ug/L
⌈	Ag	107	18.667	0.000	**-0.063170**	0.00	6.3	ug/L
|	Ag	109	11.333	0.000	**-0.218180**	0.00	0.9	ug/L
|	Cd	111	31388.622	0.176	**107.586421**	2.83	2.6	ug/L
|	Cd	114	71491.202	0.400	**107.734429**	3.66	3.4	ug/L

|>	In	115	178693.275	178693.275				ug/L
|	Sn	120	1781.343	0.000	**0.334809**	0.06	19.2	ug/L
|	Sb	121	85.334	0.000	**0.592893**	0.01	1.9	ug/L
L	Sb	123	59.660	-0.000	**0.356824**	0.01	3.7	ug/L
⌈	Ba	135	2294.851	0.016	**10.839413**	0.28	2.5	ug/L
|	Ba	137	4019.232	0.028	**11.244943**	0.34	3.0	ug/L
|	Tb	159	148483.131	0.004				ug/L
|>	Ho	165	145300.567	145300.567				ug/L
|	Tl	203	232.002	0.002	**0.825628**	0.03	4.0	ug/L
|	Tl	205	588.679	0.004	**0.937438**	0.02	2.1	ug/L
L	Pb	208	4044.891	0.028	**3.347143**	0.12	3.5	ug/L
	Kr	83	75.600	40.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		81.243	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		106.958	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		74.313	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	72.504
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-22A
Sample Date/Time: Thursday, February 24, 2011 16:39:50
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\11020727-22A.089
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25895.457	0.002				ug/L
|	Li	7	15603.853	0.050	**115.573820**	5.97	5.2	ug/L
|	Be	9	196.668	0.001	**11.267322**	0.34	3.0	ug/L
|	B	11	4619.415	0.013	**73.184502**	9.22	12.6	ug/L
|	Na	23	35460637.220	128.332	**256782.406411**	9797.22	3.8	ug/L
|	Mg	24	8711957.054	31.521	**104335.792590**	2567.86	2.5	ug/L
|	Al	27	140006.495	0.502	**608.268120**	16.62	2.7	ug/L
|	K	39	728515.507	2.481	**3909.505781**	116.50	3.0	ug/L
|	Ca	43	111047.322	0.402	**143398.090426**	6426.54	4.5	ug/L
| >	Sc	45	276484.271	276484.271				ug/L
|	Ti	49	526.010	0.000	**10.155646**	0.42	4.1	ug/L
|	Co	59	25035.259	0.090	**49.491045**	2.36	4.8	ug/L
|	Ni	60	6470.799	0.023	**58.528498**	2.29	3.9	ug/L
|	Ni	62	990.701	0.003	**56.092485**	7.01	12.5	ug/L
|	Cu	63	1294.726	0.002	**1.284041**	0.58	44.8	ug/L
|	Cu	65	212.002	0.000	**-1.587880**	0.35	22.1	ug/L
|	Zn	66	5267.638	0.018	**67.528867**	2.05	3.0	ug/L
|	Zn	67	3669.807	0.005	**77.903432**	16.81	21.6	ug/L
|	Zn	68	3769.831	0.013	**68.807816**	6.16	8.9	ug/L
|	V	51	-7393.540	-0.006	**-1.602734**	3.75	234.0	ug/L
|	Cr	52	4279.975	0.004	**5.141836**	0.06	1.2	ug/L
|	Cr	53	23585.491	0.024	**123.673081**	11.37	9.2	ug/L
|	Mn	55	1036186.569	3.746	**1579.296359**	38.61	2.4	ug/L
|	Fe	54	606666.491	2.144	**20143.550058**	768.25	3.8	ug/L
⌊	Fe	57	271698.917	0.974	**20245.586408**	712.79	3.5	ug/L
⌈	As	75	251.022	0.000	**0.125909**	1.94	1543.6	ug/L
|	Se	77	2072.817	-0.000	**-58.595106**	14.55	24.8	ug/L
|	Se	82	-24.492	-0.000	**-17.603893**	2.33	13.2	ug/L
|	Sr	88	787804.733	1.838	**996.784601**	36.79	3.7	ug/L
| >	Y	89	428462.072	428462.072				ug/L
|	Mo	95	161.334	0.000	**0.687863**	0.08	11.4	ug/L
|	Mo	97	81.334	0.000	**2.053397**	0.26	12.9	ug/L
⌊	Mo	98	217.262	0.000	**2.601165**	0.12	4.8	ug/L
⌈	Ag	107	4.667	0.000	**-0.372978**	0.02	5.3	ug/L
|	Ag	109	6.000	0.000	**-1.113919**	0.01	1.3	ug/L
|	Cd	111	8.833	0.000	**0.043390**	0.06	129.9	ug/L
|	Cd	114	13.941	0.000	**1.869624**	0.08	4.5	ug/L

|>	In	115	180204.584	180204.584				ug/L
|	Sn	120	1908.093	0.001	**2.142020**	0.19	8.9	ug/L
|	Sb	121	29.333	-0.000	**2.676427**	0.04	1.5	ug/L
L	Sb	123	33.664	-0.000	**1.607999**	0.06	4.0	ug/L
Γ	Ba	135	2327.523	0.016	**56.684917**	3.04	5.4	ug/L
|	Ba	137	3991.892	0.028	**57.626876**	2.82	4.9	ug/L
|	Tb	159	144314.650	0.008				ug/L
|>	Ho	165	140667.851	140667.851				ug/L
|	Tl	203	3.333	0.000	**1.625671**	0.05	2.9	ug/L
|	Tl	205	3.333	-0.000	**2.052329**	0.01	0.3	ug/L
L	Pb	208	132.667	0.001	**4.065041**	0.04	1.1	ug/L
	Kr	83	54.333	18.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		73.400	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		94.227	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		74.941	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	70.192
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, February 24, 2011 17:13:26
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 4.090
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	26739.980	-0.010				ug/L
|	Li	7	77616.455	0.230	**101.039387**	4.42	4.4	ug/L
|	Be	9	18515.992	0.056	**92.268536**	1.66	1.8	ug/L
|	B	11	25441.303	0.074	**90.598473**	2.60	2.9	ug/L
|	Na	23	3753385.286	11.377	**4558.131406**	184.81	4.1	ug/L
|	Mg	24	2287978.258	6.962	**4605.762789**	253.67	5.5	ug/L
|	Al	27	6759384.823	20.562	**4890.912676**	191.55	3.9	ug/L
|	K	39	4921434.637	14.823	**4695.265128**	255.15	5.4	ug/L
|	Ca	43	22369.500	0.067	**4810.877201**	70.66	1.5	ug/L
| >	Sc	45	328672.424	328672.424				ug/L
|	Ti	49	14071.595	0.041	**93.085111**	2.63	2.8	ug/L
|	Co	59	293910.653	0.894	**98.877843**	3.22	3.3	ug/L
|	Ni	60	62312.279	0.189	**95.781974**	2.27	2.4	ug/L
|	Ni	62	9535.182	0.029	**96.908624**	2.03	2.1	ug/L
|	Cu	63	146176.740	0.442	**95.492048**	1.89	2.0	ug/L
|	Cu	65	66969.952	0.203	**94.390375**	2.13	2.3	ug/L
|	Zn	66	40808.873	0.124	**92.770711**	1.86	2.0	ug/L
|	Zn	67	9022.852	0.019	**83.571024**	7.59	9.1	ug/L
|	Zn	68	28394.862	0.086	**93.995908**	2.71	2.9	ug/L
|	V	51	220492.189	0.691	**97.141646**	1.90	2.0	ug/L
|	Cr	52	207581.972	0.621	**96.918419**	1.66	1.7	ug/L
|	Cr	53	46865.452	0.081	**96.008532**	7.37	7.7	ug/L
|	Mn	55	378110.294	1.147	**97.121593**	3.42	3.5	ug/L
|	Fe	54	911900.822	2.723	**5121.834524**	149.48	2.9	ug/L
⌊	Fe	57	410384.632	1.240	**5156.703126**	188.05	3.6	ug/L
⌜	As	75	29325.353	0.071	**91.459030**	2.57	2.8	ug/L
|	Se	77	13607.812	0.028	**417.002684**	21.32	5.1	ug/L
|	Se	82	12958.955	0.032	**455.579126**	16.30	3.6	ug/L
|	Sr	88	360117.856	0.874	**94.553870**	3.42	3.6	ug/L
| >	Y	89	411867.948	411867.948				ug/L
|	Mo	95	47663.401	0.116	**93.878138**	4.75	5.1	ug/L
|	Mo	97	29932.671	0.073	**92.757515**	4.98	5.4	ug/L
⌊	Mo	98	76867.972	0.187	**92.343210**	5.23	5.7	ug/L
⌜	Ag	107	137505.695	0.640	**92.792185**	2.45	2.6	ug/L
|	Ag	109	130686.407	0.608	**92.939551**	1.58	1.7	ug/L
|	Cd	111	33225.931	0.155	**94.701308**	1.56	1.6	ug/L
|	Cd	114	75842.293	0.353	**95.080701**	0.78	0.8	ug/L

|>	In	115	214882.253	214882.253				ug/L
|	Sn	120	139372.431	0.639	**96.244037**	0.23	0.2	ug/L
|	Sb	121	112357.540	0.523	**96.146314**	1.73	1.8	ug/L
\L	Sb	123	86372.543	0.402	**96.943585**	1.15	1.2	ug/L
|	Ba	135	26118.521	0.138	**90.951831**	0.74	0.8	ug/L
|	Ba	137	44429.660	0.234	**91.136839**	1.97	2.2	ug/L
|	Tb	159	194024.242	0.005				ug/L
|>	Ho	165	189758.683	189758.683				ug/L
|	Tl	203	52517.037	0.277	**88.416069**	1.62	1.8	ug/L
|	Tl	205	126032.870	0.664	**87.311095**	1.29	1.5	ug/L
\L	Pb	208	172717.350	0.910	**86.504870**	2.15	2.5	ug/L
	Kr	83	55.867	20.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	101.039		
Be	9	92.269		
B	11	90.598		
Na	23	91.163		
Mg	24	92.115		
Al	27	95.900		
K	39	93.905		
Ca	43	96.218		
Sc	45		87.255	
Ti	49	93.085		
Co	59	98.878		
Ni	60	95.782		
Ni	62	96.909		
Cu	63	95.492		
Cu	65	94.390		
Zn	66	92.771		
Zn	67	83.571		
Zn	68	93.996		
V	51	97.142		
Cr	52	96.918		
Cr	53	96.009		
Mn	55	97.122		
Fe	54	102.437		
Fe	57	103.134		
As	75	91.459		
Se	77	83.401		
Se	82	91.116		
Sr	88	94.554		
Y	89		90.577	
Mo	95	93.878		
Mo	97	92.758		
Mo	98	92.343		
Ag	107	92.792		
Ag	109	92.940		
Cd	111	94.701		
Cd	114	95.081		
In	115		89.363	
Sn	120	96.244		
Sb	121	96.146		

Sb	123	96.944	
Ba	135	90.952	
Ba	137	91.137	
Tb	159		
Ho	165		94.688
Tl	203	88.416	
Tl	205	87.311	
Pb	208	86.505	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, February 24, 2011 19:37:07
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\QC Std 6.091
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	29195.045	-0.001				ug/L
|	Li	7	2472.881	0.001	**1.958235**	0.10	4.9	ug/L
|	Be	9	4.000	0.000	**1.123459**	0.01	0.9	ug/L
|	B	11	1021.370	-0.001	**-2.336500**	0.25	10.7	ug/L
|	Na	23	13239.498	-0.004	**4.017973**	1.44	35.8	ug/L
|	Mg	24	266.670	-0.000	**-4.069387**	0.32	7.8	ug/L
|	Al	27	1165.048	-0.001	**2.080808**	0.11	5.2	ug/L
|	K	39	45940.485	-0.013	**-8.694308**	2.23	25.6	ug/L
|	Ca	43	254.669	0.000	**3.035479**	15.96	525.7	ug/L
| >	Sc	45	320979.939	320979.939				ug/L
|	Ti	49	431.340	-0.000	**0.787488**	0.28	35.0	ug/L
|	Co	59	109.334	-0.000	**-0.097114**	0.01	12.5	ug/L
|	Ni	60	41.333	-0.000	**-0.078112**	0.02	31.4	ug/L
|	Ni	62	72.000	0.000	**-0.085388**	0.08	95.3	ug/L
|	Cu	63	1661.430	0.002	**0.361111**	0.02	5.2	ug/L
|	Cu	65	89.334	-0.000	**-0.543872**	0.02	4.2	ug/L
|	Zn	66	118.667	-0.000	**-0.587291**	0.06	11.0	ug/L
|	Zn	67	2854.953	0.001	**-5.289332**	3.63	68.7	ug/L
|	Zn	68	185.335	-0.000	**-0.669711**	0.08	12.4	ug/L
|	V	51	-7137.781	-0.002	**0.289790**	0.53	184.0	ug/L
|	Cr	52	3858.522	0.001	**0.489422**	0.08	17.1	ug/L
|	Cr	53	22166.552	0.008	**4.589350**	4.58	99.8	ug/L
|	Mn	55	1237.387	0.000	**0.598015**	0.02	2.8	ug/L
|	Fe	54	14447.839	-0.007	**-31.990112**	2.37	7.4	ug/L
⌊	Fe	57	1490.078	-0.004	**-34.340255**	0.75	2.2	ug/L
⌜	As	75	100.007	-0.000	**-0.421137**	0.51	121.5	ug/L
|	Se	77	1564.752	-0.001	**-25.534177**	2.30	9.0	ug/L
|	Se	82	-17.300	-0.000	**-3.325322**	0.15	4.4	ug/L
|	Sr	88	112.667	-0.000	**-0.581353**	0.00	0.4	ug/L
| >	Y	89	398651.575	398651.575				ug/L
|	Mo	95	72.000	0.000	**-0.021076**	0.02	105.5	ug/L
|	Mo	97	49.333	0.000	**0.326202**	0.01	1.9	ug/L
⌊	Mo	98	116.521	0.000	**0.414695**	0.03	6.5	ug/L
⌜	Ag	107	17.333	0.000	**-0.066746**	0.00	5.6	ug/L
|	Ag	109	12.667	0.000	**-0.218925**	0.00	1.4	ug/L
|	Cd	111	5.333	0.000	**-0.006249**	0.00	42.4	ug/L
|	Cd	114	-0.419	-0.000	**0.352634**	0.01	1.5	ug/L

|>	In	115	217029.907	217029.907				ug/L
|	Sn	120	2450.767	0.001	**0.533844**	0.04	7.4	ug/L
|	Sb	121	692.685	0.003	**1.087098**	0.17	15.7	ug/L
L	Sb	123	535.587	0.002	**0.866998**	0.21	24.6	ug/L
⌈	Ba	135	8.667	-0.000	**0.485258**	0.01	1.6	ug/L
|	Ba	137	12.667	-0.000	**0.569015**	0.02	3.1	ug/L
|	Tb	159	202458.815	0.010				ug/L
|>	Ho	165	197013.276	197013.276				ug/L
|	Tl	203	34.667	0.000	**0.373525**	0.03	6.9	ug/L
|	Tl	205	78.000	0.000	**0.459030**	0.03	7.5	ug/L
L	Pb	208	23.333	-0.000	**0.735287**	0.00	0.6	ug/L
	Kr	83	46.800	11.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.213	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		87.671	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.256	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	98.308
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Thursday, February 24, 2011 19:40:54
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\ICSA.092
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	29094.922	-0.000				ug/L
|	Li	7	2496.885	0.001	**2.023194**	0.07	3.5	ug/L
|	Be	9	6.667	0.000	**1.137163**	0.02	1.3	ug/L
|	B	11	952.699	-0.001	**-2.570905**	0.21	8.1	ug/L
|	Na	23	70860345.510	222.886	**89191.768066**	1567.85	1.8	ug/L
|	Mg	24	43187605.892	135.895	**89975.191786**	3104.20	3.5	ug/L
|	Al	27	129599816.603	407.767	**96946.988379**	2983.83	3.1	ug/L
|	K	39	94981423.603	298.743	**94715.466906**	3286.96	3.5	ug/L
|	Ca	43	403118.617	1.268	**90585.812069**	4092.06	4.5	ug/L
| >	Sc	45	317917.828	317917.828				ug/L
|	Ti	49	268763.966	0.844	**1879.306179**	45.41	2.4	ug/L
|	Co	59	5027.551	0.015	**1.616195**	0.05	3.3	ug/L
|	Ni	60	1678.766	0.005	**2.528584**	0.22	8.8	ug/L
|	Ni	62	1032.037	0.003	**10.107245**	1.10	10.9	ug/L
|	Cu	63	5138.927	0.013	**2.737964**	0.22	8.2	ug/L
|	Cu	65	1626.759	0.004	**1.715004**	0.14	8.1	ug/L
|	Zn	66	1374.733	0.004	**2.394156**	0.14	5.8	ug/L
|	Zn	67	2948.305	0.001	**-3.443558**	2.87	83.3	ug/L
|	Zn	68	502.676	0.001	**0.439548**	0.12	28.4	ug/L
|	V	51	-6061.111	0.001	**0.736632**	0.12	16.2	ug/L
|	Cr	52	6672.891	0.010	**1.886160**	0.05	2.7	ug/L
|	Cr	53	20080.775	0.002	**-2.689856**	3.33	123.7	ug/L
|	Mn	55	31572.211	0.095	**8.633180**	0.32	3.7	ug/L
|	Fe	54	17314106.225	54.418	**102704.913628**	2231.73	2.2	ug/L
⌊	Fe	57	8057601.848	25.349	**105729.692244**	4575.44	4.3	ug/L
⌜	As	75	275.673	0.000	**0.121773**	0.13	105.6	ug/L
|	Se	77	2088.153	-0.000	**-9.096392**	2.83	31.1	ug/L
|	Se	82	-26.094	-0.000	**-3.602881**	0.23	6.3	ug/L
|	Sr	88	26389.698	0.063	**6.273024**	0.07	1.0	ug/L
| >	Y	89	416786.400	416786.400				ug/L
|	Mo	95	970550.120	2.329	**1890.209690**	7.61	0.4	ug/L
|	Mo	97	619813.624	1.487	**1892.790796**	20.24	1.1	ug/L
⌊	Mo	98	1578686.395	3.789	**1866.987961**	42.76	2.3	ug/L
⌜	Ag	107	210.668	0.001	**0.062606**	0.01	14.1	ug/L
|	Ag	109	208.668	0.001	**-0.080665**	0.02	24.2	ug/L
|	Cd	111	871.027	0.004	**2.438858**	0.08	3.1	ug/L
|	Cd	114	1523.307	0.007	**2.238263**	0.10	4.5	ug/L

|>	In	115	216882.981	216882.981				ug/L
|	Sn	120	2894.226	0.003	**0.841687**	0.08	10.1	ug/L
|	Sb	121	407.339	0.002	**0.849107**	0.04	4.6	ug/L
_	Sb	123	329.999	0.001	**0.642575**	0.06	9.3	ug/L
⌈	Ba	135	1520.081	0.006	**4.700267**	0.30	6.4	ug/L
|	Ba	137	2588.901	0.011	**4.798132**	0.09	1.8	ug/L
|	Tb	159	235463.994	-0.018				ug/L
|>	Ho	165	235459.278	235459.278				ug/L
|	Tl	203	116.667	0.000	**0.475294**	0.00	0.8	ug/L
|	Tl	205	399.339	0.002	**0.629299**	0.02	3.8	ug/L
_	Pb	208	16781.216	0.071	**7.440065**	0.05	0.7	ug/L
	Kr	83	63.067	27.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		84.400	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		91.659	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.195	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	117.492
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Thursday, February 24, 2011 19:43:34
Sample Type: Spike - 2 of 144
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102240907MS\ICSAB.093
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	28279.542	-0.000				ug/L
|	Li	7	2410.203	0.001	**1.989695**	0.06	3.1	ug/L
|	Be	9	1.333	-0.000	**1.110372**	0.01	0.5	ug/L
|	B	11	1011.369	-0.001	**-2.234950**	0.11	4.8	ug/L
|	Na	23	72374864.625	233.529	**93450.395439**	2809.09	3.0	ug/L
|	Mg	24	44560895.992	143.782	**95197.712000**	2202.04	2.3	ug/L
|	Al	27	134266759.648	433.277	**103011.764831**	2536.47	2.5	ug/L
|	K	39	96769533.282	312.080	**98944.232532**	4014.50	4.1	ug/L
|	Ca	43	398431.928	1.285	**91833.304403**	545.10	0.6	ug/L
| >	Sc	45	309882.110	309882.110				ug/L
|	Ti	49	269380.521	0.868	**1931.982998**	51.70	2.7	ug/L
|	Co	59	231071.993	0.745	**82.423646**	3.01	3.6	ug/L
|	Ni	60	47969.737	0.155	**78.166710**	0.61	0.8	ug/L
|	Ni	62	7776.783	0.025	**83.714367**	1.67	2.0	ug/L
|	Cu	63	109594.137	0.351	**75.765060**	0.17	0.2	ug/L
|	Cu	65	50394.075	0.162	**75.187451**	1.31	1.7	ug/L
|	Zn	66	16402.745	0.052	**39.048194**	0.50	1.3	ug/L
|	Zn	67	5606.434	0.010	**38.724571**	3.59	9.3	ug/L
|	Zn	68	10679.997	0.034	**36.693309**	1.56	4.2	ug/L
|	V	51	167258.037	0.560	**78.811471**	0.17	0.2	ug/L
|	Cr	52	160403.649	0.507	**79.172869**	1.25	1.6	ug/L
|	Cr	53	40270.035	0.069	**80.235016**	3.48	4.3	ug/L
|	Mn	55	323242.419	1.039	**88.074369**	1.90	2.2	ug/L
|	Fe	54	17474929.526	56.342	**106337.303491**	2006.05	1.9	ug/L
⌊	Fe	57	8081640.635	26.075	**108762.310647**	4434.53	4.1	ug/L
⌜	As	75	11926.437	0.029	**37.271019**	1.72	4.6	ug/L
|	Se	77	2908.963	0.002	**23.572989**	2.58	10.9	ug/L
|	Se	82	927.649	0.002	**30.547716**	0.99	3.2	ug/L
|	Sr	88	26177.319	0.064	**6.396002**	0.26	4.1	ug/L
| >	Y	89	406239.890	406239.890				ug/L
|	Mo	95	967424.513	2.382	**1933.203322**	36.25	1.9	ug/L
|	Mo	97	614358.697	1.512	**1924.752218**	30.55	1.6	ug/L
⌊	Mo	98	1562532.188	3.847	**1895.616500**	20.57	1.1	ug/L
⌜	Ag	107	25264.323	0.116	**16.796940**	0.22	1.3	ug/L
|	Ag	109	24322.022	0.112	**16.918264**	0.23	1.4	ug/L
|	Cd	111	13383.101	0.062	**37.709762**	0.94	2.5	ug/L
|	Cd	114	30404.842	0.140	**37.907418**	0.87	2.3	ug/L

|>	In	115	217287.511	217287.511				ug/L
|	Sn	120	2719.516	0.003	**0.717814**	0.09	11.8	ug/L
|	Sb	121	338.004	0.001	**0.790138**	0.03	3.2	ug/L
L	Sb	123	279.914	0.001	**0.586494**	0.03	5.3	ug/L
⌈	Ba	135	1439.406	0.006	**4.600924**	0.14	3.1	ug/L
|	Ba	137	2514.221	0.011	**4.803730**	0.04	0.9	ug/L
|	Tb	159	231424.123	-0.004				ug/L
|>	Ho	165	228380.612	228380.612				ug/L
|	Tl	203	158.001	0.001	**0.537650**	0.03	5.7	ug/L
|	Tl	205	386.005	0.002	**0.628408**	0.03	4.7	ug/L
L	Pb	208	16767.849	0.073	**7.644112**	0.23	3.0	ug/L
	Kr	83	66.267	30.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		82.266	
Ti	49			
Co	59			101.009
Ni	60			94.548
Ni	62			92.009
Cu	63			91.284
Cu	65			91.841
Zn	66			91.635
Zn	67			105.420
Zn	68			90.634
V	51			97.594
Cr	52			96.608
Cr	53			103.656
Mn	55			99.301
Fe	54			
Fe	57			
As	75			92.873
Se	77			81.673
Se	82			85.376
Sr	88			
Y	89		89.340	
Mo	95			
Mo	97			
Mo	98			
Ag	107			83.672
Ag	109			84.995
Cd	111			88.177
Cd	114			89.173
In	115		90.363	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	113.960
Tl	203	
Tl	205	
Pb	208	
Kr	83	

1102261509MS
2-26-11
RD

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
8	QC Std 3		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2

Run List

Sample File Name: 11.18.08.sam

	AS Loc.	Sample ID	Batch Index	Sample Type
x5	346	11020727-23A As 6020_W_ALL Batch # 98097	85	Sample
x5	347	11020727-25A Pb,TL	86	Sample
x25	348	11020727-25A As	87	Sample
x5	349	11020727-26A Pb,TL	88	Sample
x25	350	11020727-26A As (AD) 2-28-11	89	Sample
	337	11020727-27A Pb,TL ~~ICPMS_110228A~~	90	Sample
	338	11020727-28A Pb,TL ICPMS_110226E	91	Sample
x5	351	11020727-28A As	92	Sample
	7	QC Std 4 BP 2-28-11		QC Std
	8	QC Std 6		QC Std
	339	11020727-29A Pb,TL	93	Sample
	340	11020727-30A ↓	94	Sample
x5	352	11020727-31A Pb,TL	95	Sample
x25	353	11020727-31A As	96	Sample
	342	11020727-32A Pb,TL	97	Sample
	343	11020727-34A ↓	98	Sample
	344	11020727-35A ↓	99	Sample
	7	QC Std 4		QC Std
	8	QC Std 6		QC Std
	9	ICSA	100	Sample
	10	ICSAB	101	Spike - 2 of 100
	239	MBLK-98300 6020-S_ALL	102	Sample
	240	LCS-98300	103	Sample
	241	11020968-01A As,Ba,Cd,Cr,Pb,Se,Ag	104	Sample
	242	11020968-01ASD ↓	105	Sample
	243	11020968-01AMS	106	Sample
	244	11020968-01AMSD ICPMS_110226C	107	Sample
	245	11020968-01APDS	108	Sample
	246	11020968-01APDSD ↓ BP 2-28-11	109	Sample
	7	QC Std 4		QC Std
	8	QC Std 6		QC Std
	9	ICSA	110	Sample
	10	ICSAB	111	Spike - 2 of 110
	210	MBLK-98298 6020-TCLP-ALL	112	Sample
	211	LCS-98298	113	Sample
	212	11020849-01A As,Ba,Cd,Cr,Pb,Se,Ag	114	Sample
	213	11020849-01ASD ↓	115	Sample
	214	11020849-01AMS	116	Sample
	215	11020849-01APDS	117	Sample
	216	11020849-01ADUP ↓	118	Sample
	7	QC Std 4		QC Std
	8	QC Std 6		QC Std
	9	ICSA	119	Sample
	10	ICSAB	120	Spike - 2 of 119

229	MBLK-98292 6020-W-ALL	121	Sample
230	LCS-98292	122	Sample
231	11020947-02A Pb	123	Sample
232	11020947-02ASD	124	Sample
233	11020947-02AMS	125	Sample
234	11020947-02AMSD	126	Sample
235	11020947-02APDS	127	Sample
236	11020947-02APDSD	128	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
237	11020947-03B	129	Sample
238	11020947-04B	130	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	131	Sample
10	ICSAB	132	Spike - 2 of 131
201	MBLK-98245 200.8	133	Sample
202	LCS-98245	134	Sample
203	11020861-01E Zn	135	Sample
204	11020861-01ESD	136	Sample
205	11020861-01EMS ICPMS_110226D	137	Sample
206	11020861-01EMSD	138	Sample
207	11020861-01EPDS 2-28-11	139	Sample
208	11020861-01EPDSD	140	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
209	11010271-01C DNa	141	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	142	Sample
10	ICSAB	143	Spike - 2 of 142
217	MBLK-98291 200.8	144	Sample
218	LCS-98291	145	Sample
219	11020961-01A Pb	146	Sample
220	11020961-01ASD	147	Sample
221	11020961-01AMS	148	Sample
222	11020961-01AMSD	149	Sample
223	11020961-01APDS	150	Sample
224	11020961-01APDSD	151	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
225	11020932-01A Fe	152	Sample
226	11020932-02A Cr Zn	153	Sample
227	11020933-01E Pb	154	Sample
228	11020967-01D Cu	155	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	156	Sample
10	ICSAB	157	Spike - 2 of 156
401	MBLK-98290	158	Sample

N/R

402	LCS-98290	159	Sample
403	11020953-01A	160	Sample
404	11020953-01ASD	161	Sample
405	11020953-01AMS	162	Sample
406	11020953-01AMSD	163	Sample
407	11020953-01APDS	164	Sample
408	11020953-01APDSD	165	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
409	11020953-02A	166	Sample
410	11020953-03A	167	Sample
411	11020953-04A	168	Sample
412	11020953-05A	169	Sample
413	11020953-06A	170	Sample
414	11020953-07A	171	Sample
415	11020953-08A	172	Sample
416	11020953-09A	173	Sample
417	11020953-10A	174	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	175	Sample
10	ICSAB	176	Spike - 2 of 175

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
8	QC Std 3		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
346	11020727-23A	85	Sample
347	11020727-25A	86	Sample
348	11020727-25A	87	Sample
349	11020727-26A	88	Sample
350	11020727-26A	89	Sample
337	11020727-27A	90	Sample
338	11020727-28A	91	Sample
351	11020727-28A	92	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
339	11020727-29A	93	Sample
340	11020727-30A	94	Sample
352	11020727-31A	95	Sample
353	11020727-31A	96	Sample
342	11020727-32A	97	Sample
343	11020727-34A	98	Sample
344	11020727-35A	99	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	100	Sample
10	ICSAB	101	Spike - 2 of 100
239	MBLK-98300	102	Sample
240	LCS-98300	103	Sample
241	11020968-01A	104	Sample
242	11020968-01ASD	105	Sample
243	11020968-01AMS	106	Sample
244	11020968-01AMSD	107	Sample
245	11020968-01APDS	108	Sample
246	11020968-01APDSD	109	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	110	Sample
10	ICSAB	111	Spike - 2 of 110
210	MBLK-98298	112	Sample
211	LCS-98298	113	Sample
212	11020849-01A	114	Sample
213	11020849-01ASD	115	Sample
214	11020849-01AMS	116	Sample
215	11020849-01APDS	117	Sample
216	11020849-01ADUP	118	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	119	Sample
10	ICSAB	120	Spike - 2 of 119

229	MBLK-98292	121	Sample
230	LCS-98292	122	Sample
231	11020947-02A	123	Sample
232	11020947-02ASD	124	Sample
233	11020947-02AMS	125	Sample
234	11020947-02AMSD	126	Sample
235	11020947-02APDS	127	Sample
236	11020947-02APDSD	128	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
237	11020947-03B	129	Sample
238	11020947-04B	130	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	131	Sample
10	ICSAB	132	Spike - 2 of 131
201	MBLK-98245	133	Sample
202	LCS-98245	134	Sample
203	11020861-01E	135	Sample
204	11020861-01ESD	136	Sample
205	11020861-01EMS	137	Sample
206	11020861-01EMSD	138	Sample
207	11020861-01EPDS	139	Sample
208	11020861-01EPDSD	140	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
209	11010271-01C	141	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	142	Sample
10	ICSAB	143	Spike - 2 of 142
217	MBLK-98291	144	Sample
218	LCS-98291	145	Sample
219	11020961-01A	146	Sample
220	11020961-01ASD	147	Sample
221	11020961-01AMS	148	Sample
222	11020961-01AMSD	149	Sample
223	11020961-01APDS	150	Sample
224	11020961-01APDSD	151	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
225	11020932-01A	152	Sample
226	11020932-02A	153	Sample
227	11020933-01E	154	Sample
228	11020967-01D	155	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	156	Sample
10	ICSAB	157	Spike - 2 of 156
401	MBLK-98290	158	Sample

402	LCS-98290	159	Sample
403	11020953-01A	160	Sample
404	11020953-01ASD	161	Sample
405	11020953-01AMS	162	Sample
406	11020953-01AMSD	163	Sample
407	11020953-01APDS	164	Sample
408	11020953-01APDSD	165	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
409	11020953-02A	166	Sample
410	11020953-03A	167	Sample
411	11020953-04A	168	Sample
412	11020953-05A	169	Sample
413	11020953-06A	170	Sample
414	11020953-07A	171	Sample
415	11020953-08A	172	Sample
416	11020953-09A	173	Sample
417	11020953-10A	174	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	175	Sample
10	ICSAB	176	Spike - 2 of 175

Quantitative Analysis - Summary Report

Sample ID: Cal Blank
Sample Date/Time: Saturday, February 26, 2011 15:14:48
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\Cal Blank.001
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27547.121					ug/L
	Li	7	2297.518					ug/L
	Be	9	6.000					ug/L
	B	11	642.014					ug/L
	Na	23	15908.924					ug/L
	Mg	24	833.362					ug/L
	Al	27	4612.413					ug/L
	K	39	55106.699					ug/L
	Ca	43	245.335					ug/L
>	Sc	45	329004.150					ug/L
	Ti	49	392.005					ug/L
	Co	59	84.000					ug/L
	Ni	60	62.667					ug/L
	Ni	62	65.333					ug/L
	Cu	63	563.344					ug/L
	Cu	65	210.668					ug/L
	Zn	66	674.683					ug/L
	Zn	67	1661.432					ug/L
	Zn	68	549.344					ug/L
	V	51	-5439.369					ug/L
	Cr	52	3068.330					ug/L
	Cr	53	15256.816					ug/L
	Mn	55	483.342					ug/L
	Fe	54	14540.879					ug/L
	Fe	57	1772.777					ug/L
	As	75	-24.670					ug/L
	Se	77	1383.400					ug/L
	Se	82	-2.312					ug/L
	Sr	88	176.001					ug/L
>	Y	89	437445.930					ug/L
	Mo	95	41.333					ug/L
	Mo	97	28.667					ug/L
	Mo	98	67.114					ug/L
	Ag	107	12.000					ug/L
	Ag	109	2.000					ug/L
	Cd	111	2.333					ug/L
	Cd	114	-1.529					ug/L

|>	In	115	247287.967	ug/L
|	Sn	120	3739.071	ug/L
|	Sb	121	59.333	ug/L
_	Sb	123	49.828	ug/L
⌈	Ba	135	34.000	ug/L
|	Ba	137	60.000	ug/L
|	Tb	159	313535.782	ug/L
|>	Ho	165	316554.730	ug/L
|	Tl	203	2.667	ug/L
|	Tl	205	2.667	ug/L
_	Pb	208	44.000	ug/L
	Kr	83	22.800	ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 1
Sample Date/Time: Saturday, February 26, 2011 15:17:28
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\Std 1.002
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	27082.220	0.001				ug/L
|	Li	7	3023.653	0.002				ug/L
|	Be	9	232.669	0.001				ug/L
|	B	11	946.698	0.001				ug/L
|	Na	23	23552.820	0.025				ug/L
|	Mg	24	4834.157	0.013				ug/L
|	Al	27	17652.568	0.041				ug/L
|	K	39	62335.898	0.028				ug/L
|	Ca	43	238.669	0.000				ug/L
| >	Sc	45	319159.947	319159.947				ug/L
|	Ti	49	524.010	0.000				ug/L
|	Co	59	3483.092	0.011				ug/L
|	Ni	60	858.026	0.002				ug/L
|	Ni	62	178.668	0.000				ug/L
|	Cu	63	2301.519	0.006				ug/L
|	Cu	65	936.031	0.002				ug/L
|	Zn	66	830.691	0.001				ug/L
|	Zn	67	2218.840	0.002				ug/L
|	Zn	68	597.346	0.000				ug/L
|	V	51	-3420.674	0.006				ug/L
|	Cr	52	5622.440	0.008				ug/L
|	Cr	53	17532.757	0.009				ug/L
|	Mn	55	4932.185	0.014				ug/L
|	Fe	54	16247.390	0.007				ug/L
⌞	Fe	57	2358.861	0.002				ug/L
⌜	As	75	426.398	0.001				ug/L
|	Se	77	1597.423	0.001				ug/L
|	Se	82	142.769	0.000				ug/L
|	Sr	88	4558.728	0.010				ug/L
| >	Y	89	432135.331	432135.331				ug/L
|	Mo	95	531.343	0.001				ug/L
|	Mo	97	339.337	0.001				ug/L
⌞	Mo	98	917.363	0.002				ug/L
⌜	Ag	107	1753.441	0.007				ug/L
|	Ag	109	1605.424	0.007				ug/L
|	Cd	111	430.506	0.002				ug/L
|	Cd	114	995.069	0.004				ug/L

|>	In	115	245953.288	245953.288		ug/L
|	Sn	120	4614.053	0.004		ug/L
|	Sb	121	1454.074	0.006		ug/L
\L	Sb	123	1209.800	0.005		ug/L
\Γ	Ba	135	508.009	0.002		ug/L
|	Ba	137	847.358	0.003		ug/L
|	Tb	159	309725.842	0.003		ug/L
|>	Ho	165	311770.036	311770.036		ug/L
|	Tl	203	974.033	0.003		ug/L
|	Tl	205	2329.523	0.007		ug/L
\L	Pb	208	3205.475	0.010		ug/L
	Kr	83	21.067	-1.733		ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 2
Sample Date/Time: Saturday, February 26, 2011 15:20:09
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\Std 2.003
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	27172.874	0.001				ug/L
|	Li	7	5681.129	0.011	**5.000000**	0.13	2.5	ug/L
|	Be	9	980.034	0.003	**5.000000**	0.10	2.0	ug/L
|	B	11	1910.128	0.004	**5.000000**	0.42	8.4	ug/L
|	Na	23	55106.261	0.124	**50.000000**	4.53	9.1	ug/L
|	Mg	24	23953.407	0.072	**50.000000**	0.53	1.1	ug/L
|	Al	27	76395.469	0.225	**55.000000**	2.28	4.1	ug/L
|	K	39	95955.222	0.132	**50.000000**	5.10	10.2	ug/L
|	Ca	43	398.672	0.001	**50.000000**	13.17	26.3	ug/L
| >	Sc	45	320269.807	320269.807				ug/L
|	Ti	49	1044.038	0.002	**5.000000**	0.11	2.1	ug/L
|	Co	59	15173.389	0.047	**5.000000**	0.19	3.7	ug/L
|	Ni	60	3277.710	0.010	**5.000000**	0.21	4.2	ug/L
|	Ni	62	510.676	0.001	**5.000000**	0.75	14.9	ug/L
|	Cu	63	8225.034	0.024	**5.000000**	0.13	2.7	ug/L
|	Cu	65	3840.517	0.011	**5.000000**	0.28	5.6	ug/L
|	Zn	66	2526.890	0.006	**5.000000**	0.27	5.4	ug/L
|	Zn	67	2594.904	0.003	**5.000000**	3.04	60.8	ug/L
|	Zn	68	1756.108	0.004	**5.000000**	0.04	0.8	ug/L
|	V	51	4682.040	0.031	**5.000000**	0.60	12.0	ug/L
|	Cr	52	13568.444	0.033	**5.000000**	0.27	5.4	ug/L
|	Cr	53	19100.098	0.013	**5.000000**	1.64	32.8	ug/L
|	Mn	55	20010.010	0.061	**5.000000**	0.22	4.4	ug/L
|	Fe	54	22893.966	0.027	**50.000000**	3.03	6.1	ug/L
⌞	Fe	57	5459.043	0.012	**50.000000**	0.90	1.8	ug/L
⌜	As	75	1551.012	0.004	**5.000000**	0.73	14.6	ug/L
|	Se	77	2100.154	0.002	**25.000000**	1.74	7.0	ug/L
|	Se	82	713.660	0.002	**25.000000**	0.93	3.7	ug/L
|	Sr	88	19137.484	0.044	**5.000000**	0.20	3.9	ug/L
| >	Y	89	428540.300	428540.300				ug/L
|	Mo	95	2446.876	0.006	**5.000000**	0.27	5.4	ug/L
|	Mo	97	1517.414	0.003	**5.000000**	0.16	3.2	ug/L
⌞	Mo	98	4071.840	0.009	**5.000000**	0.07	1.3	ug/L
⌜	Ag	107	7397.248	0.030	**5.000000**	0.06	1.3	ug/L
|	Ag	109	7207.818	0.029	**5.000000**	0.14	2.8	ug/L
|	Cd	111	1867.289	0.008	**5.000000**	0.07	1.4	ug/L
|	Cd	114	4327.198	0.018	**5.000000**	0.15	3.1	ug/L

|>	In	115	246450.626	246450.626				ug/L
|	Sn	120	10786.012	0.029	**5.000000**	0.23	4.6	ug/L
|	Sb	121	6589.521	0.027	**5.000000**	0.24	4.8	ug/L
L	Sb	123	5142.338	0.021	**5.000000**	0.13	2.7	ug/L
⌈	Ba	135	1663.430	0.005	**5.000000**	0.35	7.0	ug/L
|	Ba	137	3010.984	0.009	**5.000000**	0.21	4.2	ug/L
|	Tb	159	311149.835	0.002				ug/L
|>	Ho	165	313631.163	313631.163				ug/L
|	Tl	203	4289.978	0.014	**5.000000**	0.30	6.0	ug/L
|	Tl	205	10283.037	0.033	**5.000000**	0.18	3.7	ug/L
L	Pb	208	14252.827	0.045	**5.000000**	0.07	1.4	ug/L
	Kr	83	20.333	-2.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 3
Sample Date/Time: Saturday, February 26, 2011 15:22:50
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\Std 3.004
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26279.609	-0.001				ug/L
|	Li	7	35133.155	0.103	**49.999538**	0.65	1.3	ug/L
|	Be	9	9399.759	0.030	**50.001672**	1.20	2.4	ug/L
|	B	11	13031.942	0.039	**50.005892**	0.21	0.4	ug/L
|	Na	23	96222.979	0.254	**100.386468**	0.85	0.8	ug/L
|	Mg	24	48381.807	0.150	**100.239969**	2.05	2.0	ug/L
|	Al	27	203458.625	0.626	**150.080696**	1.13	0.8	ug/L
|	K	39	148265.602	0.299	**101.587550**	2.73	2.7	ug/L
|	Ca	43	656.015	0.001	**101.706149**	6.59	6.5	ug/L
| >	Sc	45	318038.589	318038.589				ug/L
|	Ti	49	7160.461	0.021	**50.008745**	0.34	0.7	ug/L
|	Co	59	147918.003	0.465	**50.002862**	0.94	1.9	ug/L
|	Ni	60	30930.117	0.097	**50.003883**	0.60	1.2	ug/L
|	Ni	62	4862.161	0.015	**50.024246**	0.81	1.6	ug/L
|	Cu	63	73524.770	0.229	**49.998174**	1.16	2.3	ug/L
|	Cu	65	34647.305	0.108	**49.991682**	1.00	2.0	ug/L
|	Zn	66	22194.565	0.068	**50.006218**	1.00	2.0	ug/L
|	Zn	67	5779.836	0.013	**49.952673**	1.13	2.3	ug/L
|	Zn	68	15013.219	0.046	**50.004328**	0.52	1.0	ug/L
|	V	51	102340.772	0.338	**50.011485**	1.98	4.0	ug/L
|	Cr	52	102644.780	0.313	**50.001017**	0.29	0.6	ug/L
|	Cr	53	30712.992	0.050	**49.930408**	2.29	4.6	ug/L
|	Mn	55	187966.749	0.590	**49.999776**	0.98	2.0	ug/L
|	Fe	54	32365.551	0.058	**101.054972**	1.85	1.8	ug/L
⌊	Fe	57	9733.983	0.025	**100.755823**	2.29	2.3	ug/L
⌈	As	75	15105.925	0.035	**50.007715**	0.51	1.0	ug/L
|	Se	77	8110.304	0.015	**250.011810**	16.24	6.5	ug/L
|	Se	82	6829.581	0.016	**249.943216**	6.80	2.7	ug/L
|	Sr	88	188239.417	0.432	**50.001763**	0.87	1.7	ug/L
| >	Y	89	435210.688	435210.688				ug/L
|	Mo	95	23642.882	0.054	**49.994062**	0.54	1.1	ug/L
|	Mo	97	15099.977	0.035	**50.000794**	1.33	2.7	ug/L
⌊	Mo	98	39034.981	0.090	**49.994398**	1.73	3.5	ug/L
⌈	Ag	107	71132.701	0.290	**50.001383**	1.86	3.7	ug/L
|	Ag	109	69884.533	0.285	**49.999775**	1.46	2.9	ug/L
|	Cd	111	18005.674	0.073	**50.000470**	1.25	2.5	ug/L
|	Cd	114	42183.794	0.172	**50.002260**	1.63	3.3	ug/L

|>	In	115	245639.971	245639.971				ug/L
|	Sn	120	82369.407	0.320	**50.005650**	1.12	2.2	ug/L
|	Sb	121	64476.518	0.262	**50.000994**	1.26	2.5	ug/L
L	Sb	123	49905.866	0.203	**50.002574**	1.65	3.3	ug/L
⌈	Ba	135	16510.204	0.053	**50.022110**	1.34	2.7	ug/L
|	Ba	137	28865.139	0.093	**50.011538**	1.81	3.6	ug/L
|	Tb	159	310861.333	0.010				ug/L
|>	Ho	165	310617.914	310617.914				ug/L
|	Tl	203	42045.794	0.135	**50.003907**	1.64	3.3	ug/L
|	Tl	205	100219.674	0.323	**50.002896**	1.42	2.8	ug/L
L	Pb	208	137396.369	0.442	**50.000572**	1.20	2.4	ug/L
	Kr	83	25.067	2.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 4
Sample Date/Time: Saturday, February 26, 2011 15:25:31
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\Std 4.005
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	25213.391	-0.004				ug/L
|	Li	7	68118.710	0.209	**100.168677**	2.40	2.4	ug/L
|	Be	9	19210.910	0.061	**100.515405**	2.80	2.8	ug/L
|	B	11	26864.576	0.083	**101.086963**	2.98	2.9	ug/L
|	Na	23	823082.639	2.556	**1000.023913**	25.94	2.6	ug/L
|	Mg	24	506565.058	1.600	**1000.225452**	41.16	4.1	ug/L
|	Al	27	1502211.860	4.739	**1100.255679**	28.37	2.6	ug/L
|	K	39	1044155.472	3.137	**1000.175959**	29.71	3.0	ug/L
|	Ca	43	4566.063	0.014	**999.734804**	5.54	0.6	ug/L
| >	Sc	45	316088.549	316088.549				ug/L
|	Ti	49	14111.633	0.043	**100.317600**	1.37	1.4	ug/L
|	Co	59	297401.598	0.941	**100.227670**	4.15	4.1	ug/L
|	Ni	60	63410.482	0.200	**100.592404**	3.90	3.9	ug/L
|	Ni	62	9399.096	0.030	**99.627146**	5.99	6.0	ug/L
|	Cu	63	149032.289	0.470	**100.438511**	2.96	2.9	ug/L
|	Cu	65	68733.031	0.217	**100.047206**	4.24	4.2	ug/L
|	Zn	66	44487.832	0.139	**100.290600**	2.16	2.2	ug/L
|	Zn	67	9432.447	0.025	**100.241017**	1.87	1.9	ug/L
|	Zn	68	30000.822	0.093	**100.266182**	4.43	4.4	ug/L
|	V	51	215247.587	0.698	**100.474035**	0.99	1.0	ug/L
|	Cr	52	204624.029	0.638	**100.363357**	3.16	3.1	ug/L
|	Cr	53	44396.232	0.094	**100.404515**	5.84	5.8	ug/L
|	Mn	55	378592.016	1.197	**100.287592**	4.68	4.7	ug/L
|	Fe	54	198512.896	0.584	**1000.131609**	23.24	2.3	ug/L
⌞	Fe	57	84481.984	0.262	**1000.074480**	50.71	5.1	ug/L
⌜	As	75	29856.094	0.070	**100.298911**	1.44	1.4	ug/L
|	Se	77	14654.179	0.031	**501.789583**	12.24	2.4	ug/L
|	Se	82	13712.098	0.032	**502.629145**	4.82	1.0	ug/L
|	Sr	88	377458.276	0.890	**100.519688**	3.48	3.5	ug/L
| >	Y	89	424251.165	424251.165				ug/L
|	Mo	95	48612.575	0.115	**100.931663**	2.23	2.2	ug/L
|	Mo	97	30099.019	0.071	**100.401482**	3.36	3.3	ug/L
⌞	Mo	98	77729.627	0.183	**100.407353**	4.90	4.9	ug/L
⌜	Ag	107	142054.026	0.583	**100.133184**	5.65	5.6	ug/L
|	Ag	109	140267.064	0.575	**100.207759**	5.28	5.3	ug/L
|	Cd	111	36551.545	0.150	**100.405831**	3.99	4.0	ug/L
|	Cd	114	84239.438	0.345	**100.121884**	3.89	3.9	ug/L

|>	In	115	244011.801	244011.801				ug/L
|	Sn	120	159540.603	0.639	**99.873959**	3.69	3.7	ug/L
|	Sb	121	127366.693	0.522	**99.926014**	3.79	3.8	ug/L
|	Sb	123	98619.005	0.404	**99.944088**	4.37	4.4	ug/L
|	Ba	135	32455.513	0.103	**99.440574**	2.74	2.8	ug/L
|	Ba	137	56913.166	0.180	**99.496064**	1.80	1.8	ug/L
|	Tb	159	310561.645	-0.008				ug/L
|>	Ho	165	316184.233	316184.233				ug/L
|	Tl	203	82517.047	0.261	**99.370227**	1.46	1.5	ug/L
|	Tl	205	198895.469	0.629	**99.571394**	1.41	1.4	ug/L
|	Pb	208	273099.520	0.864	**99.605831**	0.76	0.8	ug/L
	Kr	83	31.067	8.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 5
Sample Date/Time: Saturday, February 26, 2011 15:28:11
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\Std 5.006
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	22330.201	-0.011				ug/L
|	Li	7	134743.280	0.430	**201.182963**	3.65	1.8	ug/L
|	Be	9	37751.838	0.122	**200.391808**	4.30	2.1	ug/L
|	B	11	52052.696	0.167	**200.441455**	4.52	2.3	ug/L
|	Na	23	7525733.989	24.334	**9996.357447**	303.27	3.0	ug/L
|	Mg	24	4597858.125	14.894	**9994.391943**	163.43	1.6	ug/L
|	Al	27	13157551.095	42.614	**10197.199295**	319.98	3.1	ug/L
|	K	39	9230355.742	29.740	**9995.799782**	3.55	0.0	ug/L
|	Ca	43	39826.105	0.128	**9994.489222**	96.67	1.0	ug/L
| >	Sc	45	308634.001	308634.001				ug/L
|	Ti	49	27095.674	0.087	**199.932228**	2.45	1.2	ug/L
|	Co	59	569331.896	1.844	**199.311209**	3.76	1.9	ug/L
|	Ni	60	121361.363	0.393	**199.428438**	1.53	0.8	ug/L
|	Ni	62	18252.991	0.059	**199.795815**	5.30	2.7	ug/L
|	Cu	63	283551.436	0.917	**199.215730**	2.79	1.4	ug/L
|	Cu	65	132038.194	0.427	**199.451473**	3.05	1.5	ug/L
|	Zn	66	85713.712	0.276	**199.704278**	2.19	1.1	ug/L
|	Zn	67	15535.111	0.045	**197.888901**	4.62	2.3	ug/L
|	Zn	68	57506.201	0.185	**199.519402**	2.74	1.4	ug/L
|	V	51	430614.388	1.412	**200.510459**	3.31	1.6	ug/L
|	Cr	52	393669.688	1.266	**199.841636**	1.83	0.9	ug/L
|	Cr	53	67643.118	0.173	**198.473503**	2.87	1.4	ug/L
|	Mn	55	747726.407	2.421	**200.538978**	1.10	0.5	ug/L
|	Fe	54	1675734.089	5.385	**9993.936123**	103.21	1.0	ug/L
⌞	Fe	57	766717.808	2.479	**9995.680501**	79.72	0.8	ug/L
⌜	As	75	59272.921	0.142	**200.390728**	9.26	4.6	ug/L
|	Se	77	26623.463	0.060	**993.914828**	31.44	3.2	ug/L
|	Se	82	27192.848	0.065	**1001.850989**	30.33	3.0	ug/L
|	Sr	88	765204.348	1.829	**201.185255**	7.12	3.5	ug/L
| >	Y	89	418550.873	418550.873				ug/L
|	Mo	95	98054.146	0.234	**201.091404**	5.81	2.9	ug/L
|	Mo	97	61164.664	0.146	**201.232349**	6.37	3.2	ug/L
⌞	Mo	98	156167.367	0.373	**200.822756**	5.42	2.7	ug/L
⌜	Ag	107	282806.112	1.196	**201.047846**	3.01	1.5	ug/L
|	Ag	109	275255.640	1.164	**200.522534**	3.17	1.6	ug/L
|	Cd	111	71998.490	0.304	**200.725720**	2.84	1.4	ug/L
|	Cd	114	168193.900	0.711	**201.154161**	1.75	0.9	ug/L

|>	In	115	236456.245	236456.245				ug/L
|	Sn	120	317371.025	1.327	**201.276082**	1.97	1.0	ug/L
|	Sb	121	255307.968	1.079	**201.244276**	0.86	0.4	ug/L
|	Sb	123	199382.787	0.843	**201.573905**	2.77	1.4	ug/L
⌈	Ba	135	65264.745	0.210	**200.781781**	1.42	0.7	ug/L
|	Ba	137	115365.341	0.371	**201.099930**	2.64	1.3	ug/L
|	Tb	159	306893.498	-0.003				ug/L
|>	Ho	165	310722.860	310722.860				ug/L
|	Tl	203	164449.829	0.529	**200.395060**	2.19	1.1	ug/L
|	Tl	205	394673.491	1.270	**200.283883**	2.69	1.3	ug/L
⌊	Pb	208	549901.213	1.770	**200.844161**	5.34	2.7	ug/L
	Kr	83	35.867	13.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

File Name: 02-26.1.cal
File Path: C:\Elandata\System\02-26.1.cal
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Li	6.015	Simple Linear	0.000000000	0.000000000	0.000000
Li	7.016	Simple Linear	0.002143489	-0.001638366	0.999861
Be	9.012	Simple Linear	0.000611661	-0.000278227	0.999957
B	11.009	Simple Linear	0.000835162	-0.000700224	0.999858
Na	22.990	Simple Linear	0.002430966	0.032750595	0.999988
Mg	23.985	Simple Linear	0.001487749	0.025193863	0.999971
Al	26.982	Simple Linear	0.004175943	0.030949738	0.999994
K	38.964	Simple Linear	0.002971829	0.033850535	0.999984
Ca	42.959	Simple Linear	0.000012822	0.000143534	0.999972
Sc	44.956	Simple Linear	0.000000000	0.000000000	0.000000
Ti	48.948	Simple Linear	0.000433622	-0.000093811	0.999988
Co	58.933	Simple Linear	0.009233104	0.004220404	0.999948
Ni	59.933	Simple Linear	0.001968358	0.000477238	0.999930
Ni	61.928	Simple Linear	0.000294547	0.000096930	0.999978
Cu	62.930	Simple Linear	0.004592035	0.002215106	0.999919
Cu	64.928	Simple Linear	0.002136094	0.001113219	0.999970
Zn	65.926	Simple Linear	0.001384939	-0.000901054	0.999982
Zn	66.927	Simple Linear	0.000218283	0.002091613	0.999549
Zn	67.925	Simple Linear	0.000928563	-0.000616993	0.999970
V	50.944	Simple Linear	0.007074414	-0.006774638	0.999951
Cr	51.941	Simple Linear	0.006330270	0.001116272	0.999983
Cr	52.941	Simple Linear	0.000825016	0.009050877	0.999730
Mn	54.938	Simple Linear	0.012097479	-0.004826176	0.999963
Fe	53.940	Simple Linear	0.000537632	0.012151931	0.999966
Fe	56.935	Simple Linear	0.000247673	0.003124927	0.999983
As	74.922	Simple Linear	0.000707713	-0.000048307	0.999976
Se	76.920	Simple Linear	0.000060429	0.000410056	0.999842
Se	81.917	Simple Linear	0.000065031	-0.000141224	0.999957
Sr	87.906	Simple Linear	0.009140138	-0.009672018	0.999837
Y	88.905	Simple Linear	0.000000000	0.000000000	0.000000
Mo	94.906	Simple Linear	0.001172671	-0.001536534	0.999797
Mo	96.906	Simple Linear	0.000730461	-0.000828090	0.999837
Mo	97.906	Simple Linear	0.001864805	-0.001328328	0.999917
Ag	106.905	Simple Linear	0.005967350	-0.003844232	0.999892
Ag	108.905	Simple Linear	0.005816106	-0.002168950	0.999969
Cd	110.904	Simple Linear	0.001521694	-0.000947814	0.999932
Cd	113.904	Simple Linear	0.003549698	-0.002716175	0.999869
In	114.904	Simple Linear	0.000000000	0.000000000	0.000000
Sn	119.902	Simple Linear	0.006636970	-0.008816828	0.999840
Sb	120.904	Simple Linear	0.005384969	-0.004211422	0.999849
Sb	122.904	Simple Linear	0.004202566	-0.004088031	0.999759
Ba	134.906	Simple Linear	0.001045559	0.000006946	0.999906
Ba	136.905	Simple Linear	0.001847298	-0.000403044	0.999856
Tb	158.925	Simple Linear	0.000000000	0.000000000	0.000000
Ho	164.930	Simple Linear	0.000000000	0.000000000	0.000000
Tl	202.972	Simple Linear	0.002637643	0.000678275	0.999943
Tl	204.975	Simple Linear	0.006334999	0.001378290	0.999973
Pb	207.977	Simple Linear	0.008820034	-0.001776482	0.999915

Kr	82.914	Simple Linear	0.000000000	0.000000000	0.000000

Quantitative Analysis - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Saturday, February 26, 2011 15:30:52
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\QC Std 1.007
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	24481.974	-0.004				ug/L
|	Li	7	68308.953	0.215	**101.102889**	2.28	2.3	ug/L
|	Be	9	18997.292	0.062	**101.388691**	2.07	2.0	ug/L
|	B	11	26721.663	0.085	**102.504010**	4.21	4.1	ug/L
|	Na	23	3842360.832	12.442	**5104.508858**	51.60	1.0	ug/L
|	Mg	24	2383575.823	7.746	**5189.428898**	76.02	1.5	ug/L
|	Al	27	6792957.861	22.073	**5278.236513**	174.15	3.3	ug/L
|	K	39	4846709.639	15.589	**5234.064707**	105.04	2.0	ug/L
|	Ca	43	21015.446	0.068	**5258.736152**	96.48	1.8	ug/L
\>	Sc	45	307669.437	307669.437				ug/L
|	Ti	49	13470.349	0.043	**98.434046**	0.21	0.2	ug/L
|	Co	59	284526.697	0.925	**99.714456**	4.82	4.8	ug/L
|	Ni	60	59742.674	0.194	**98.338797**	2.67	2.7	ug/L
|	Ni	62	8956.140	0.029	**97.835227**	1.61	1.6	ug/L
|	Cu	63	140301.884	0.454	**98.463447**	2.71	2.8	ug/L
|	Cu	65	65298.264	0.212	**98.559298**	2.79	2.8	ug/L
|	Zn	66	41756.966	0.134	**97.183754**	2.94	3.0	ug/L
|	Zn	67	9106.903	0.025	**102.918038**	3.95	3.8	ug/L
|	Zn	68	28707.486	0.092	**99.370452**	2.23	2.2	ug/L
|	V	51	206905.836	0.689	**98.358925**	1.04	1.1	ug/L
|	Cr	52	198428.588	0.636	**100.252740**	1.81	1.8	ug/L
|	Cr	53	43421.226	0.095	**103.934658**	4.49	4.3	ug/L
|	Mn	55	366621.957	1.191	**98.816043**	3.49	3.5	ug/L
|	Fe	54	885562.832	2.835	**5250.928150**	184.10	3.5	ug/L
⌊	Fe	57	390893.972	1.266	**5097.598701**	255.29	5.0	ug/L
⌜	As	75	28799.094	0.070	**98.920652**	1.87	1.9	ug/L
|	Se	77	13940.799	0.031	**500.936322**	14.09	2.8	ug/L
|	Se	82	13303.303	0.032	**498.851154**	9.54	1.9	ug/L
|	Sr	88	374361.851	0.908	**100.431646**	0.89	0.9	ug/L
\>	Y	89	412016.616	412016.616				ug/L
|	Mo	95	47614.555	0.115	**99.800100**	2.22	2.2	ug/L
|	Mo	97	29994.793	0.073	**100.730268**	2.54	2.5	ug/L
⌊	Mo	98	77165.868	0.187	**101.090087**	2.67	2.6	ug/L
⌜	Ag	107	141143.302	0.595	**100.271007**	1.87	1.9	ug/L
|	Ag	109	135720.999	0.572	**98.677605**	1.64	1.7	ug/L
|	Cd	111	35782.101	0.151	**99.667004**	1.69	1.7	ug/L
|	Cd	114	82841.241	0.349	**99.075696**	1.09	1.1	ug/L

|>	In	115	237415.358	237415.358				ug/L
|	Sn	120	156405.465	0.644	**98.327131**	1.62	1.6	ug/L
|	Sb	121	126919.468	0.535	**100.047225**	3.54	3.5	ug/L
|	Sb	123	99151.569	0.418	**100.319841**	1.96	2.0	ug/L
⌈	Ba	135	32903.852	0.108	**102.821292**	2.31	2.3	ug/L
|	Ba	137	57363.624	0.187	**101.684819**	2.76	2.7	ug/L
|	Tb	159	300665.912	-0.007				ug/L
|>	Ho	165	305794.494	305794.494				ug/L
|	Tl	203	82938.773	0.271	**102.570722**	1.52	1.5	ug/L
|	Tl	205	199509.648	0.653	**102.785484**	2.34	2.3	ug/L
⌊	Pb	208	273654.182	0.895	**101.645204**	1.17	1.2	ug/L
	Kr	83	32.133	9.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	101.103		
Be	9	101.389		
B	11	102.504		
Na	23	102.090		
Mg	24	103.789		
Al	27	103.495		
K	39	104.681		
Ca	43	105.175		
Sc	45		93.515	
Ti	49	98.434		
Co	59	99.714		
Ni	60	98.339		
Ni	62	97.835		
Cu	63	98.463		
Cu	65	98.559		
Zn	66	97.184		
Zn	67	102.918		
Zn	68	99.370		
V	51	98.359		
Cr	52	100.253		
Cr	53	103.935		
Mn	55	98.816		
Fe	54	105.019		
Fe	57	101.952		
As	75	98.921		
Se	77	100.187		
Se	82	99.770		
Sr	88	100.432		
Y	89		94.187	
Mo	95	99.800		
Mo	97	100.730		
Mo	98	101.090		
Ag	107	100.271		
Ag	109	98.678		
Cd	111	99.667		
Cd	114	99.076		
In	115		96.008	
Sn	120	98.327		
Sb	121	100.047		

Sb	123	100.320	
Ba	135	102.821	
Ba	137	101.685	
Tb	159		
Ho	165		96.601
Tl	203	102.571	
Tl	205	102.785	
Pb	208	101.645	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Saturday, February 26, 2011 15:33:49
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\QC Std 3.008
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	27139.746	0.003				ug/L
|	Li	7	2279.516	0.000	**0.916590**	0.23	24.7	ug/L
|	Be	9	6.667	0.000	**0.460086**	0.01	1.5	ug/L
|	B	11	994.702	0.001	**2.322333**	0.45	19.2	ug/L
|	Na	23	15274.854	0.001	**-13.234432**	1.00	7.5	ug/L
|	Mg	24	366.672	-0.001	**-17.848145**	0.44	2.5	ug/L
|	Al	27	2155.166	-0.007	**-9.117525**	0.24	2.7	ug/L
|	K	39	51191.620	-0.003	**-12.540076**	1.05	8.4	ug/L
|	Ca	43	193.335	-0.000	**-21.031050**	2.70	12.8	ug/L
| >	Sc	45	311964.700	311964.700				ug/L
|	Ti	49	438.007	0.000	**0.710174**	0.33	46.9	ug/L
|	Co	59	214.668	0.000	**-0.410063**	0.01	3.2	ug/L
|	Ni	60	54.667	-0.000	**-0.250375**	0.02	8.4	ug/L
|	Ni	62	40.000	-0.000	**-0.566284**	0.16	28.9	ug/L
|	Cu	63	391.339	-0.000	**-0.582094**	0.04	7.7	ug/L
|	Cu	65	108.000	-0.000	**-0.658725**	0.01	1.9	ug/L
|	Zn	66	174.668	-0.001	**-0.426752**	0.08	19.1	ug/L
|	Zn	67	2809.611	0.004	**8.542003**	2.86	33.5	ug/L
|	Zn	68	245.335	-0.001	**-0.286129**	0.05	17.3	ug/L
|	V	51	-7731.518	-0.008	**-0.207976**	0.35	169.1	ug/L
|	Cr	52	3675.806	0.002	**0.212299**	0.04	19.6	ug/L
|	Cr	53	20443.284	0.019	**12.268087**	1.40	11.4	ug/L
|	Mn	55	463.341	0.000	**0.400428**	0.01	3.1	ug/L
|	Fe	54	14854.077	0.003	**-16.235553**	2.03	12.5	ug/L
⌞	Fe	57	1574.087	-0.000	**-13.996189**	0.99	7.0	ug/L
⌜	As	75	168.098	0.000	**0.707076**	0.56	79.1	ug/L
|	Se	77	1630.760	0.001	**5.042646**	2.82	56.0	ug/L
|	Se	82	1.347	0.000	**2.300548**	0.16	6.9	ug/L
|	Sr	88	142.001	-0.000	**1.051038**	0.00	0.4	ug/L
| >	Y	89	420817.332	420817.332				ug/L
|	Mo	95	85.334	0.000	**1.402862**	0.02	1.5	ug/L
|	Mo	97	49.333	0.000	**1.203925**	0.05	3.9	ug/L
⌞	Mo	98	133.261	0.000	**0.799494**	0.06	7.6	ug/L
⌜	Ag	107	10.000	-0.000	**0.643123**	0.01	1.0	ug/L
|	Ag	109	15.333	0.000	**0.382562**	0.01	1.8	ug/L
|	Cd	111	5.500	0.000	**0.631784**	0.01	1.0	ug/L
|	Cd	114	8.835	0.000	**0.777269**	0.00	0.2	ug/L

|>	In	115	241011.058	241011.058				ug/L
|	Sn	120	2848.875	-0.003	**0.833145**	0.11	13.6	ug/L
|	Sb	121	520.676	0.002	**1.137729**	0.06	4.9	ug/L
|	Sb	123	431.251	0.002	**1.349976**	0.07	5.0	ug/L
⌈	Ba	135	22.667	-0.000	**-0.038270**	0.02	58.9	ug/L
|	Ba	137	44.667	-0.000	**0.194803**	0.02	8.7	ug/L
|	Tb	159	299259.421	-0.010				ug/L
|>	Ho	165	305369.364	305369.364				ug/L
|	Tl	203	54.667	0.000	**-0.192364**	0.03	14.1	ug/L
|	Tl	205	120.667	0.000	**-0.156387**	0.03	18.0	ug/L
⌊	Pb	208	58.667	0.000	**0.207444**	0.00	1.1	ug/L
	Kr	83	23.800	1.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.821	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		96.199	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		97.462	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	96.467
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Saturday, February 26, 2011 15:38:41
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\ICSA.009
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	26036.054	0.004				ug/L
|	Li	7	2141.494	0.000	**0.877694**	0.10	11.8	ug/L
|	Be	9	6.667	0.000	**0.462138**	0.02	3.9	ug/L
|	B	11	736.686	0.001	**1.481346**	0.17	11.1	ug/L
|	Na	23	67579418.383	228.337	**93915.208206**	6098.19	6.5	ug/L
|	Mg	24	41994264.151	141.886	**95352.925658**	4803.19	5.0	ug/L
|	Al	27	123568140.941	417.541	**99979.778678**	5906.11	5.9	ug/L
|	K	39	89215034.401	301.287	**101369.586590**	5443.20	5.4	ug/L
|	Ca	43	360607.110	1.217	**94930.066860**	3472.40	3.7	ug/L
| >	Sc	45	296204.447	296204.447				ug/L
|	Ti	49	249971.555	0.843	**1944.709663**	66.17	3.4	ug/L
|	Co	59	4870.164	0.016	**1.295634**	0.03	2.6	ug/L
|	Ni	60	1642.761	0.005	**2.478850**	0.06	2.4	ug/L
|	Ni	62	1082.708	0.003	**11.401988**	0.66	5.8	ug/L
|	Cu	63	3341.724	0.010	**1.603000**	0.09	5.6	ug/L
|	Cu	65	1668.097	0.005	**1.817932**	0.15	8.4	ug/L
|	Zn	66	1477.410	0.003	**2.771991**	0.30	10.9	ug/L
|	Zn	67	2486.884	0.003	**5.778567**	2.70	46.7	ug/L
|	Zn	68	573.345	0.000	**0.949351**	0.14	14.5	ug/L
|	V	51	-7361.882	-0.008	**-0.221687**	0.20	88.3	ug/L
|	Cr	52	6460.795	0.012	**1.796804**	0.14	7.6	ug/L
|	Cr	53	18008.023	0.014	**6.590129**	4.89	74.1	ug/L
|	Mn	55	31838.111	0.106	**9.166021**	0.25	2.7	ug/L
|	Fe	54	16369740.047	55.257	**102755.135815**	4205.91	4.1	ug/L
⌞	Fe	57	7650143.041	25.835	**104300.164239**	3441.76	3.3	ug/L
⌜	As	75	185.959	0.000	**0.770237**	0.69	89.9	ug/L
|	Se	77	1984.805	0.002	**19.676313**	0.43	2.2	ug/L
|	Se	82	-6.753	-0.000	**2.002953**	0.07	3.6	ug/L
|	Sr	88	27421.643	0.065	**8.210120**	0.11	1.3	ug/L
| >	Y	89	416859.779	416859.779				ug/L
|	Mo	95	951459.406	2.282	**1947.669098**	47.38	2.4	ug/L
|	Mo	97	604153.751	1.449	**1985.302862**	26.82	1.4	ug/L
⌞	Mo	98	1513561.531	3.631	**1947.784899**	21.89	1.1	ug/L
⌜	Ag	107	210.668	0.001	**0.790256**	0.02	3.1	ug/L
|	Ag	109	192.001	0.001	**0.515275**	0.02	3.0	ug/L
|	Cd	111	909.196	0.004	**3.222702**	0.14	4.3	ug/L
|	Cd	114	1642.355	0.007	**2.785172**	0.14	5.1	ug/L

|>	In	115	229382.315	229382.315				ug/L
|	Sn	120	2607.486	-0.004	**0.763003**	0.01	0.9	ug/L
|	Sb	121	436.007	0.002	**1.090369**	0.05	4.4	ug/L
|	Sb	123	338.498	0.001	**1.275888**	0.01	0.7	ug/L
|	Ba	135	1661.430	0.005	**4.733157**	0.10	2.2	ug/L
|	Ba	137	2838.282	0.008	**4.798880**	0.11	2.4	ug/L
|	Tb	159	320092.511	-0.015				ug/L
|>	Ho	165	328093.737	328093.737				ug/L
|	Tl	203	243.335	0.001	**0.020896**	0.01	69.1	ug/L
|	Tl	205	590.012	0.002	**0.065082**	0.02	30.9	ug/L
|	Pb	208	24929.183	0.076	**8.805034**	0.41	4.6	ug/L
	Kr	83	36.600	13.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		90.031	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		95.294	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		92.759	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	103.645
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Saturday, February 26, 2011 15:41:22
Sample Type: Spike - 2 of 25
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\ICSAB.010
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	25977.691	0.004				ug/L
|	Li	7	2186.167	0.000	**0.939674**	0.13	13.7	ug/L
|	Be	9	4.667	-0.000	**0.450905**	0.01	2.9	ug/L
|	B	11	711.351	0.000	**1.368559**	0.08	5.6	ug/L
|	Na	23	69825102.302	234.994	**96653.266035**	3897.97	4.0	ug/L
|	Mg	24	42420457.630	142.774	**95949.626297**	3506.19	3.7	ug/L
|	Al	27	124619598.532	419.431	**100432.408710**	2903.96	2.9	ug/L
|	K	39	89056326.441	299.683	**100829.785346**	5692.09	5.6	ug/L
|	Ca	43	363288.449	1.222	**95312.225981**	4298.48	4.5	ug/L
| >	Sc	45	297223.642	297223.642				ug/L
|	Ti	49	249527.334	0.839	**1934.444806**	66.20	3.4	ug/L
|	Co	59	220540.198	0.742	**79.914566**	2.71	3.4	ug/L
|	Ni	60	45166.665	0.152	**76.900072**	3.39	4.4	ug/L
|	Ni	62	7383.242	0.025	**83.379120**	3.87	4.6	ug/L
|	Cu	63	104153.119	0.349	**75.482751**	2.74	3.6	ug/L
|	Cu	65	48891.536	0.164	**76.221706**	2.70	3.5	ug/L
|	Zn	66	13800.000	0.044	**32.712945**	1.55	4.7	ug/L
|	Zn	67	5078.238	0.012	**45.536821**	4.46	9.8	ug/L
|	Zn	68	10366.427	0.033	**36.442248**	1.11	3.1	ug/L
|	V	51	158234.777	0.549	**78.596872**	3.63	4.6	ug/L
|	Cr	52	149306.409	0.493	**77.743908**	3.06	3.9	ug/L
|	Cr	53	36887.564	0.078	**83.284905**	2.56	3.1	ug/L
|	Mn	55	305868.920	1.028	**85.390406**	3.56	4.2	ug/L
|	Fe	54	16272985.276	54.719	**101755.502384**	2330.00	2.3	ug/L
⌞	Fe	57	7642710.327	25.724	**103849.148865**	4781.38	4.6	ug/L
⌜	As	75	11713.425	0.028	**39.122154**	0.78	2.0	ug/L
|	Se	77	2889.626	0.004	**53.543820**	6.65	12.4	ug/L
|	Se	82	994.047	0.002	**38.247244**	0.61	1.6	ug/L
|	Sr	88	27044.254	0.063	**7.979546**	0.06	0.7	ug/L
| >	Y	89	424754.933	424754.933				ug/L
|	Mo	95	919654.669	2.165	**1847.799710**	30.45	1.6	ug/L
|	Mo	97	584409.220	1.376	**1885.075584**	38.86	2.1	ug/L
⌞	Mo	98	1482810.500	3.491	**1873.006443**	27.80	1.5	ug/L
⌜	Ag	107	24750.767	0.110	**19.004310**	1.01	5.3	ug/L
|	Ag	109	24119.012	0.107	**18.729586**	0.65	3.5	ug/L
|	Cd	111	13685.552	0.061	**40.424182**	1.03	2.6	ug/L
|	Cd	114	31298.261	0.139	**39.802019**	1.65	4.2	ug/L

|>	In	115	226027.098	226027.098				ug/L
|	Sn	120	2626.857	-0.003	**0.802538**	0.09	10.8	ug/L
|	Sb	121	350.671	0.001	**1.025637**	0.04	4.1	ug/L
L	Sb	123	285.499	0.001	**1.225331**	0.00	0.1	ug/L
⌈	Ba	135	1619.425	0.005	**4.647731**	0.14	2.9	ug/L
|	Ba	137	2838.949	0.009	**4.837368**	0.17	3.5	ug/L
|	Tb	159	317134.433	-0.016				ug/L
|>	Ho	165	325545.896	325545.896				ug/L
|	Tl	203	232.669	0.001	**0.010504**	0.02	150.0	ug/L
|	Tl	205	564.011	0.002	**0.054691**	0.02	37.2	ug/L
L	Pb	208	25141.275	0.077	**8.943413**	0.21	2.4	ug/L
	Kr	83	41.400	18.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		90.340	
Ti	49			
Co	59			98.274
Ni	60			93.027
Ni	62			89.971
Cu	63			92.350
Cu	65			93.005
Zn	66			74.852
Zn	67			99.396
Zn	68			88.732
V	51			98.523
Cr	52			94.934
Cr	53			95.868
Mn	55			95.280
Fe	54			
Fe	57			
As	75			95.880
Se	77			84.669
Se	82			90.611
Sr	88			
Y	89		97.099	
Mo	95			
Mo	97			
Mo	98			
Ag	107			91.070
Ag	109			91.072
Cd	111			93.004
Cd	114			92.542
In	115		91.402	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	102.840
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-23A
Sample Date/Time: Saturday, February 26, 2011 15:54:33
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-23A.011
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27514.057	0.006				ug/L
|	Li	7	8521.875	0.021	**52.035967**	0.62	1.2	ug/L
|	Be	9	198.001	0.001	**7.374897**	0.78	10.5	ug/L
|	B	11	4215.956	0.012	**74.401394**	2.92	3.9	ug/L
|	Na	23	7545590.448	24.446	**50212.095421**	1565.90	3.1	ug/L
|	Mg	24	1669916.572	5.418	**18122.851125**	381.28	2.1	ug/L
|	Al	27	7464442.200	24.207	**28947.088039**	367.17	1.3	ug/L
|	K	39	981749.133	3.019	**5022.858231**	139.67	2.8	ug/L
|	Ca	43	24883.000	0.080	**31141.438609**	933.61	3.0	ug/L
| >	Sc	45	308154.983	308154.983				ug/L
|	Ti	49	972.700	0.002	**23.787215**	6.31	26.5	ug/L
|	Co	59	21988.915	0.071	**36.218901**	0.61	1.7	ug/L
|	Ni	60	6498.145	0.021	**51.870247**	1.31	2.5	ug/L
|	Ni	62	1077.374	0.003	**54.374976**	5.44	10.0	ug/L
|	Cu	63	39966.530	0.128	**136.960311**	4.66	3.4	ug/L
|	Cu	65	18156.887	0.058	**133.811115**	7.12	5.3	ug/L
|	Zn	66	9321.709	0.028	**105.090202**	4.11	3.9	ug/L
|	Zn	67	3580.452	0.007	**102.905351**	32.77	31.8	ug/L
|	Zn	68	6345.410	0.019	**105.185974**	2.35	2.2	ug/L
|	V	51	503.525	0.018	**17.603152**	3.00	17.1	ug/L
|	Cr	52	7231.163	0.014	**10.291081**	0.52	5.0	ug/L
|	Cr	53	20066.769	0.019	**58.996693**	23.28	39.5	ug/L
|	Mn	55	865581.425	2.808	**1162.363687**	18.18	1.6	ug/L
|	Fe	54	1041064.714	3.334	**30894.499623**	340.62	1.1	ug/L
⌊	Fe	57	468894.726	1.516	**30548.387718**	546.05	1.8	ug/L
⌈	As	75	928.867	0.002	**13.688730**	1.38	10.1	ug/L
|	Se	77	1755.441	0.000	**-8.104153**	19.91	245.7	ug/L
|	Se	82	8.351	0.000	**12.539088**	0.63	5.0	ug/L
|	Sr	88	147292.454	0.291	**164.391551**	0.70	0.4	ug/L
| >	Y	89	505765.380	505765.380				ug/L
|	Mo	95	508.009	0.001	**10.434622**	0.62	5.9	ug/L
|	Mo	97	292.003	0.001	**9.179333**	0.69	7.5	ug/L
⌊	Mo	98	805.877	0.001	**7.427424**	0.83	11.2	ug/L
⌈	Ag	107	7.333	-0.000	**3.206050**	0.03	0.8	ug/L
|	Ag	109	5.333	0.000	**1.876897**	0.01	0.6	ug/L
|	Cd	111	18293.205	0.076	**251.938613**	8.18	3.2	ug/L
|	Cd	114	42404.868	0.176	**251.233476**	12.99	5.2	ug/L

|>	In	115	241726.580	241726.580				ug/L
|	Sn	120	2836.855	-0.003	**4.100123**	0.38	9.3	ug/L
|	Sb	121	12061.090	0.050	**50.046341**	1.31	2.6	ug/L
|	Sb	123	9420.850	0.039	**51.016187**	1.04	2.0	ug/L
|	Ba	135	3398.404	0.011	**51.948764**	2.59	5.0	ug/L
|	Ba	137	5787.840	0.018	**51.132677**	0.20	0.4	ug/L
|	Tb	159	306323.095	-0.002				ug/L
|>	Ho	165	309893.982	309893.982				ug/L
|	Tl	203	63.333	0.000	**-0.913095**	0.06	6.6	ug/L
|	Tl	205	112.000	0.000	**-0.808952**	0.02	2.3	ug/L
|	Pb	208	235152.043	0.759	**431.314416**	11.81	2.7	ug/L
	Kr	83	23.333	0.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.663	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		115.618	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		97.751	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	97.896
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-25A
Sample Date/Time: Saturday, February 26, 2011 15:57:14
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-25A.012
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	22993.413	-0.009				ug/L
|	Li	7	83341.838	0.264	**619.018484**	25.27	4.1	ug/L
|	Be	9	2234.175	0.007	**61.454430**	2.98	4.8	ug/L
|	B	11	78759.889	0.254	**1523.723334**	31.05	2.0	ug/L
|	Na	23	75630804.525	245.591	**505062.209717**	13552.01	2.7	ug/L
|	Mg	24	19576487.145	63.584	**213608.412032**	8634.89	4.0	ug/L
|	Al	27	170507098.538	553.769	**663009.045464**	18396.56	2.8	ug/L
|	K	39	992802.597	3.058	**5087.454645**	275.92	5.4	ug/L
|	Ca	43	163247.663	0.529	**206399.509116**	6184.91	3.0	ug/L
| >	Sc	45	307975.099	307975.099				ug/L
|	Ti	49	2828.280	0.008	**93.245638**	1.70	1.8	ug/L
|	Co	59	366252.308	1.189	**641.726269**	29.51	4.6	ug/L
|	Ni	60	98983.799	0.321	**814.842443**	17.98	2.2	ug/L
|	Ni	62	14906.452	0.048	**816.588550**	38.31	4.7	ug/L
|	Cu	63	3074.332	0.008	**6.587793**	0.62	9.4	ug/L
|	Cu	65	2518.889	0.008	**15.042082**	0.64	4.3	ug/L
|	Zn	66	163027.716	0.527	**1907.331150**	44.03	2.3	ug/L
|	Zn	67	29640.076	0.091	**2041.199148**	83.51	4.1	ug/L
|	Zn	68	121667.960	0.393	**2121.903497**	41.37	1.9	ug/L
|	V	51	108329.620	0.368	**265.080044**	6.89	2.6	ug/L
|	Cr	52	80079.340	0.251	**197.197097**	9.34	4.7	ug/L
|	Cr	53	29870.552	0.051	**252.088183**	24.86	9.9	ug/L
|	Mn	55	12945410.998	42.040	**17377.706919**	454.98	2.6	ug/L
|	Fe	54	10857751.700	35.218	**327417.041208**	8466.57	2.6	ug/L
⌊	Fe	57	5051517.868	16.398	**330968.194246**	7338.03	2.2	ug/L
⌜	As	75	2126.334	0.002	**15.883700**	0.97	6.1	ug/L
|	Se	77	2112.823	-0.001	**-119.399257**	5.05	4.2	ug/L
|	Se	82	35.351	0.000	**14.008077**	1.06	7.6	ug/L
|	Sr	88	944221.058	0.951	**525.687016**	18.57	3.5	ug/L
| >	Y	89	992387.859	992387.859				ug/L
|	Mo	95	96.000	0.000	**6.561182**	0.03	0.5	ug/L
|	Mo	97	64.667	-0.000	**5.666526**	0.12	2.2	ug/L
⌊	Mo	98	133.188	-0.000	**3.510766**	0.10	2.9	ug/L
⌜	Ag	107	76.000	0.000	**3.464567**	0.01	0.3	ug/L
|	Ag	109	37.333	0.000	**2.000832**	0.04	2.1	ug/L
|	Cd	111	1593.756	0.007	**26.460489**	0.45	1.7	ug/L
|	Cd	114	3631.625	0.016	**26.675444**	0.87	3.3	ug/L

|>	In	115	224040.160	224040.160				ug/L
|	Sn	120	2819.493	-0.003	**4.734744**	0.19	4.1	ug/L
|	Sb	121	545.344	0.002	**5.946298**	0.11	1.8	ug/L
|	Sb	123	436.832	0.002	**6.943401**	0.13	1.8	ug/L
⌈	Ba	135	818.024	0.002	**11.070382**	0.87	7.9	ug/L
|	Ba	137	1303.393	0.004	**11.061521**	0.33	3.0	ug/L
|	Tb	159	333403.597	0.000				ug/L
|>	Ho	165	336572.373	336572.373				ug/L
|	Tl	203	10.667	0.000	**-1.241588**	0.03	2.8	ug/L
|	Tl	205	30.667	0.000	**-1.022416**	0.03	2.7	ug/L
⌊	Pb	208	4583.621	0.013	**8.649396**	0.11	1.3	ug/L
	Kr	83	57.400	34.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.608	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		226.860	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.599	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	106.324
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-25A
Sample Date/Time: Saturday, February 26, 2011 15:59:54
Sample Type: Sample
Sample Description: 25
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-25A.013
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 0.4000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25838.169	0.002				ug/L
|	Li	7	18799.696	0.055	**664.445682**	7.56	1.1	ug/L
|	Be	9	438.007	0.001	**69.969057**	1.11	1.6	ug/L
|	B	11	17722.994	0.057	**1721.300830**	66.61	3.9	ug/L
|	Na	23	15040859.733	49.802	**511823.383618**	9550.28	1.9	ug/L
|	Mg	24	3859714.696	12.790	**214502.316167**	2033.18	0.9	ug/L
|	Al	27	33916672.927	112.411	**672785.162067**	11304.94	1.7	ug/L
|	K	39	235152.983	0.612	**4863.063694**	20.83	0.4	ug/L
|	Ca	43	33377.620	0.110	**213957.963794**	2192.63	1.0	ug/L
| >	Sc	45	301698.582	301698.582				ug/L
|	Ti	49	833.358	0.002	**95.973794**	2.58	2.7	ug/L
|	Co	59	75308.658	0.249	**663.801123**	11.21	1.7	ug/L
|	Ni	60	21182.360	0.070	**883.281255**	9.83	1.1	ug/L
|	Ni	62	3155.015	0.010	**862.444049**	18.01	2.1	ug/L
|	Cu	63	800.689	0.001	**-6.933751**	0.24	3.5	ug/L
|	Cu	65	574.678	0.001	**1.770887**	0.46	25.8	ug/L
|	Zn	66	39268.585	0.128	**2328.920158**	63.45	2.7	ug/L
|	Zn	67	8921.452	0.025	**2569.011823**	45.30	1.8	ug/L
|	Zn	68	26922.689	0.088	**2374.150890**	54.49	2.3	ug/L
|	V	51	15715.571	0.069	**266.393007**	11.30	4.2	ug/L
|	Cr	52	19340.418	0.055	**211.923546**	2.98	1.4	ug/L
|	Cr	53	23292.307	0.031	**660.047142**	17.30	2.6	ug/L
|	Mn	55	2633164.790	8.727	**18044.030987**	153.04	0.8	ug/L
|	Fe	54	2270072.583	7.481	**347298.745584**	7984.48	2.3	ug/L
⌊	Fe	57	976103.815	3.230	**325745.850409**	8223.41	2.5	ug/L
⌈	As	75	575.109	0.001	**42.517948**	5.24	12.3	ug/L
|	Se	77	1808.115	0.000	**-49.923106**	37.23	74.6	ug/L
|	Se	82	5.718	0.000	**60.495956**	3.55	5.9	ug/L
|	Sr	88	194751.407	0.372	**1042.736298**	43.02	4.1	ug/L
| >	Y	89	523741.507	523741.507				ug/L
|	Mo	95	34.667	-0.000	**32.156088**	0.27	0.8	ug/L
|	Mo	97	20.667	-0.000	**27.448717**	0.49	1.8	ug/L
⌊	Mo	98	59.562	-0.000	**17.278235**	0.38	2.2	ug/L
⌈	Ag	107	8.000	-0.000	**16.046709**	0.07	0.4	ug/L
|	Ag	109	11.333	0.000	**9.497294**	0.18	1.9	ug/L
|	Cd	111	335.337	0.001	**39.097231**	0.10	0.3	ug/L
|	Cd	114	772.144	0.003	**42.584185**	3.06	7.2	ug/L

|>	In	115	232651.262	232651.262				ug/L
|	Sn	120	2684.185	-0.004	**19.696852**	2.01	10.2	ug/L
|	Sb	121	152.001	0.000	**21.468803**	0.43	2.0	ug/L
L	Sb	123	116.662	0.000	**26.101852**	0.18	0.7	ug/L
⌈	Ba	135	152.667	0.000	**9.450777**	0.92	9.8	ug/L
|	Ba	137	247.335	0.001	**14.063881**	0.35	2.5	ug/L
|	Tb	159	295928.566	-0.003				ug/L
|>	Ho	165	299533.689	299533.689				ug/L
|	Tl	203	1.333	-0.000	**-6.466273**	0.07	1.1	ug/L
|	Tl	205	12.000	0.000	**-5.314117**	0.07	1.3	ug/L
L	Pb	208	972.679	0.003	**13.845351**	0.21	1.5	ug/L
	Kr	83	27.533	4.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		91.701	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		119.727	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		94.081	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	94.623
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-26A
Sample Date/Time: Saturday, February 26, 2011 16:02:35
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-26A.014
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23463.305	-0.008				ug/L
|	Li	7	83689.778	0.262	**615.238374**	8.06	1.3	ug/L
|	Be	9	2068.817	0.007	**56.499422**	1.77	3.1	ug/L
|	B	11	78637.180	0.251	**1506.300596**	15.80	1.0	ug/L
|	Na	23	72714897.111	233.794	**480798.639450**	34975.23	7.3	ug/L
|	Mg	24	18439971.200	59.297	**199200.626905**	12787.51	6.4	ug/L
|	Al	27	165063253.543	530.736	**635431.546609**	7134.51	1.1	ug/L
|	K	39	991615.534	3.021	**5026.192864**	290.64	5.8	ug/L
|	Ca	43	158520.034	0.509	**198410.311980**	2511.81	1.3	ug/L
| >	Sc	45	311007.981	311007.981				ug/L
|	Ti	49	2686.253	0.007	**86.937322**	1.96	2.2	ug/L
|	Co	59	355830.939	1.144	**617.152037**	15.86	2.6	ug/L
|	Ni	60	97768.774	0.314	**796.831389**	6.90	0.9	ug/L
|	Ni	62	14779.645	0.047	**801.638195**	18.09	2.3	ug/L
|	Cu	63	2641.578	0.007	**4.971887**	0.26	5.3	ug/L
|	Cu	65	2389.534	0.007	**13.876789**	1.28	9.2	ug/L
|	Zn	66	163822.029	0.525	**1897.585274**	24.36	1.3	ug/L
|	Zn	67	29662.766	0.090	**2021.090187**	18.65	0.9	ug/L
|	Zn	68	118958.578	0.381	**2053.973021**	17.84	0.9	ug/L
|	V	51	103415.732	0.349	**251.499815**	7.08	2.8	ug/L
|	Cr	52	77213.449	0.239	**187.853605**	2.38	1.3	ug/L
|	Cr	53	31164.640	0.054	**271.376128**	15.19	5.6	ug/L
|	Mn	55	12743153.805	40.972	**16936.170944**	104.49	0.6	ug/L
|	Fe	54	10658381.964	34.227	**318195.651425**	1725.68	0.5	ug/L
⌊	Fe	57	4985105.229	16.023	**323416.142551**	1722.43	0.5	ug/L
⌈	As	75	2193.367	0.002	**16.724424**	1.89	11.3	ug/L
|	Se	77	2204.837	-0.001	**-107.677077**	2.63	2.4	ug/L
|	Se	82	32.160	0.000	**13.813656**	0.20	1.4	ug/L
|	Sr	88	910284.192	0.937	**518.081348**	11.52	2.2	ug/L
| >	Y	89	970877.360	970877.360				ug/L
|	Mo	95	58.667	-0.000	**6.406384**	0.10	1.6	ug/L
|	Mo	97	28.000	-0.000	**5.416933**	0.06	1.2	ug/L
⌊	Mo	98	71.041	-0.000	**3.346207**	0.06	1.7	ug/L
⌈	Ag	107	70.000	0.000	**3.442702**	0.02	0.6	ug/L
|	Ag	109	43.333	0.000	**2.023719**	0.03	1.2	ug/L
|	Cd	111	1511.413	0.007	**25.282648**	1.02	4.0	ug/L
|	Cd	114	3573.176	0.016	**26.335927**	1.16	4.4	ug/L

|>	In	115	223841.193	223841.193				ug/L
|	Sn	120	2732.835	-0.003	**4.456708**	0.55	12.4	ug/L
|	Sb	121	471.341	0.002	**5.643816**	0.08	1.5	ug/L
|	Sb	123	391.749	0.002	**6.707732**	0.16	2.5	ug/L
|	Ba	135	734.686	0.002	**9.829042**	0.94	9.6	ug/L
|	Ba	137	1260.056	0.004	**10.640734**	0.19	1.8	ug/L
|	Tb	159	330792.760	-0.014				ug/L
|>	Ho	165	339002.150	339002.150				ug/L
|	Tl	203	13.333	0.000	**-1.226239**	0.07	6.0	ug/L
|	Tl	205	28.000	0.000	**-1.029007**	0.02	2.1	ug/L
|	Pb	208	4190.905	0.012	**7.937040**	0.06	0.8	ug/L
	Kr	83	56.200	33.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.530	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		221.942	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.518	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	107.091
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-26A
Sample Date/Time: Saturday, February 26, 2011 16:05:16
Sample Type: Sample
Sample Description: 25
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-26A.015
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 0.4000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26165.813	0.003				ug/L
|	Li	7	18311.061	0.054	**647.546398**	4.22	0.7	ug/L
|	Be	9	419.339	0.001	**67.600275**	1.04	1.5	ug/L
|	B	11	17856.488	0.057	**1739.357689**	37.24	2.1	ug/L
|	Na	23	15093084.940	50.121	**515105.332171**	4206.74	0.8	ug/L
|	Mg	24	3862082.438	12.834	**215243.545898**	1143.87	0.5	ug/L
|	Al	27	33935278.346	112.790	**675054.195323**	10225.51	1.5	ug/L
|	K	39	240949.003	0.633	**5044.029224**	177.97	3.5	ug/L
|	Ca	43	33182.503	0.110	**213327.797625**	5228.07	2.5	ug/L
| >	Sc	45	300851.990	300851.990				ug/L
|	Ti	49	804.689	0.001	**90.902470**	7.64	8.4	ug/L
|	Co	59	73985.762	0.246	**653.781339**	7.87	1.2	ug/L
|	Ni	60	20769.087	0.069	**868.332031**	3.57	0.4	ug/L
|	Ni	62	3217.696	0.010	**882.827558**	43.88	5.0	ug/L
|	Cu	63	765.354	0.001	**-7.530165**	0.36	4.8	ug/L
|	Cu	65	564.011	0.001	**1.414902**	1.47	104.2	ug/L
|	Zn	66	39248.510	0.128	**2334.259966**	22.26	1.0	ug/L
|	Zn	67	8958.808	0.025	**2592.537342**	10.39	0.4	ug/L
|	Zn	68	26568.700	0.087	**2349.582806**	86.47	3.7	ug/L
|	V	51	14447.627	0.065	**252.136554**	21.50	8.5	ug/L
|	Cr	52	19148.828	0.054	**210.126571**	4.11	2.0	ug/L
|	Cr	53	24110.335	0.034	**748.873263**	40.43	5.4	ug/L
|	Mn	55	2580591.438	8.577	**17733.825400**	292.18	1.6	ug/L
|	Fe	54	2267350.183	7.493	**347839.696643**	6810.43	2.0	ug/L
⌊	Fe	57	978040.754	3.246	**327307.701014**	6162.29	1.9	ug/L
⌈	As	75	513.917	0.001	**38.606291**	3.87	10.0	ug/L
|	Se	77	1755.441	0.000	**-80.182722**	59.25	73.9	ug/L
|	Se	82	5.264	0.000	**60.223435**	2.18	3.6	ug/L
|	Sr	88	184202.830	0.354	**995.473710**	45.13	4.5	ug/L
| >	Y	89	519558.914	519558.914				ug/L
|	Mo	95	17.333	-0.000	**31.452274**	0.20	0.6	ug/L
|	Mo	97	16.000	-0.000	**27.150295**	0.25	0.9	ug/L
⌊	Mo	98	29.041	-0.000	**16.501789**	0.16	1.0	ug/L
⌈	Ag	107	18.667	0.000	**16.242185**	0.08	0.5	ug/L
|	Ag	109	10.667	0.000	**9.488924**	0.15	1.6	ug/L
|	Cd	111	316.504	0.001	**38.056840**	1.76	4.6	ug/L
|	Cd	114	741.277	0.003	**41.895235**	0.31	0.7	ug/L

|>	In	115	229744.034	229744.034				ug/L
|	Sn	120	2924.248	-0.002	**24.204089**	0.53	2.2	ug/L
|	Sb	121	122.667	0.000	**20.916448**	0.07	0.3	ug/L
|	Sb	123	118.164	0.000	**26.181648**	0.46	1.8	ug/L
⌈	Ba	135	369.338	0.001	**26.594696**	1.62	6.1	ug/L
|	Ba	137	628.681	0.002	**31.140226**	1.04	3.3	ug/L
|	Tb	159	295334.979	-0.010				ug/L
|>	Ho	165	301117.205	301117.205				ug/L
|	Tl	203	1.333	-0.000	**-6.466499**	0.04	0.6	ug/L
|	Tl	205	10.667	0.000	**-5.332473**	0.07	1.2	ug/L
⌊	Pb	208	904.012	0.003	**13.151155**	0.06	0.5	ug/L
	Kr	83	25.867	3.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		91.443	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		118.771	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		92.905	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.123
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-27A
Sample Date/Time: Saturday, February 26, 2011 16:07:57
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-27A.016
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	25803.598	0.004				ug/L
|	Li	7	7918.863	0.020	**10.042113**	0.44	4.4	ug/L
|	Be	9	4.000	-0.000	**0.447250**	0.01	2.5	ug/L
|	B	11	26693.603	0.089	**106.959662**	3.92	3.7	ug/L
|	Na	23	42110925.572	142.842	**58745.996734**	1467.63	2.5	ug/L
|	Mg	24	976260.817	3.310	**2208.031197**	37.29	1.7	ug/L
|	Al	27	46681.179	0.144	**27.163304**	1.00	3.7	ug/L
|	K	39	920961.655	2.958	**983.797747**	12.03	1.2	ug/L
|	Ca	43	16536.237	0.055	**4306.783603**	132.80	3.1	ug/L
| >	Sc	45	294703.729	294703.729				ug/L
|	Ti	49	684.683	0.001	**2.826253**	0.24	8.6	ug/L
|	Co	59	222.668	0.001	**-0.402915**	0.01	2.3	ug/L
|	Ni	60	718.685	0.002	**0.899656**	0.07	8.3	ug/L
|	Ni	62	166.668	0.000	**0.916870**	0.14	15.6	ug/L
|	Cu	63	5265.637	0.016	**3.035644**	0.10	3.4	ug/L
|	Cu	65	2137.494	0.007	**2.574405**	0.19	7.2	ug/L
|	Zn	66	1994.806	0.005	**4.057600**	0.29	7.2	ug/L
|	Zn	67	4144.602	0.009	**31.708886**	3.48	11.0	ug/L
|	Zn	68	1509.413	0.003	**4.382083**	0.04	1.0	ug/L
|	V	51	-8719.346	-0.013	**-0.887951**	0.45	51.0	ug/L
|	Cr	52	5427.698	0.009	**1.259862**	0.05	4.0	ug/L
|	Cr	53	26963.423	0.045	**43.719915**	0.76	1.7	ug/L
|	Mn	55	5315.656	0.017	**1.768529**	0.04	2.3	ug/L
|	Fe	54	29142.143	0.055	**79.121511**	3.12	3.9	ug/L
⌞	Fe	57	5533.071	0.013	**41.432855**	0.24	0.6	ug/L
⌜	As	75	786.134	0.002	**2.834443**	0.35	12.4	ug/L
|	Se	77	2307.520	0.002	**33.392482**	0.84	2.5	ug/L
|	Se	82	-1.831	0.000	**2.184583**	0.15	6.9	ug/L
|	Sr	88	110523.234	0.268	**30.324939**	0.86	2.8	ug/L
| >	Y	89	412752.369	412752.369				ug/L
|	Mo	95	1120.044	0.003	**3.545497**	0.15	4.3	ug/L
|	Mo	97	696.017	0.002	**3.353064**	0.09	2.6	ug/L
⌞	Mo	98	1819.376	0.004	**2.994743**	0.06	2.1	ug/L
⌜	Ag	107	3.333	-0.000	**0.638578**	0.00	0.1	ug/L
|	Ag	109	2.000	0.000	**0.373048**	0.00	0.4	ug/L
|	Cd	111	9.000	0.000	**0.643085**	0.00	0.3	ug/L
|	Cd	114	23.885	0.000	**0.796885**	0.01	0.7	ug/L

|>	In	115	224078.413	224078.413				ug/L
|	Sn	120	2404.168	-0.004	**0.667179**	0.03	4.9	ug/L
|	Sb	121	85.334	0.000	**0.808275**	0.01	0.9	ug/L
L	Sb	123	62.331	0.000	**0.991146**	0.01	1.3	ug/L
⌈	Ba	135	7517.980	0.026	**25.085509**	0.90	3.6	ug/L
|	Ba	137	13385.607	0.047	**25.511221**	1.06	4.2	ug/L
|	Tb	159	280737.270	-0.007				ug/L
|>	Ho	165	285380.583	285380.583				ug/L
|	Tl	203	1.333	-0.000	**-0.258587**	0.00	0.6	ug/L
|	Tl	205	4.667	0.000	**-0.216313**	0.00	1.3	ug/L
L	Pb	208	1045.348	0.004	**0.601046**	0.02	2.8	ug/L
	Kr	83	21.000	-1.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.574	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		94.355	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.614	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	90.152
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-28A
Sample Date/Time: Saturday, February 26, 2011 16:10:38
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-28A.017
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22347.692	-0.000				ug/L
|	Li	7	55901.868	0.202	**94.947305**	2.54	2.7	ug/L
|	Be	9	347.338	0.001	**2.547416**	0.22	8.6	ug/L
|	B	11	19006.654	0.069	**83.542404**	4.47	5.3	ug/L
|	Na	23	S	S	**S**	S	S	ug/L
|	Mg	24	90201482.132	336.918	**226444.874618**	9940.26	4.4	ug/L
|	Al	27	134767.833	0.490	**109.815726**	3.01	2.7	ug/L
|	K	39	1063187.487	3.805	**1268.800331**	24.84	2.0	ug/L
|	Ca	43	1025020.456	3.829	**298599.444384**	5249.02	1.8	ug/L
| >	Sc	45	267666.417	267666.417				ug/L
|	Ti	49	3128.343	0.010	**24.423934**	1.32	5.4	ug/L
|	Co	59	359734.143	1.344	**145.096189**	5.12	3.5	ug/L
|	Ni	60	44209.685	0.165	**83.587236**	3.35	4.0	ug/L
|	Ni	62	6386.761	0.024	**80.009575**	1.08	1.4	ug/L
|	Cu	63	6719.582	0.023	**4.612297**	0.26	5.6	ug/L
|	Cu	65	3115.008	0.011	**4.626344**	0.48	10.4	ug/L
|	Zn	66	5467.714	0.018	**13.922278**	0.64	4.6	ug/L
|	Zn	67	4312.651	0.011	**41.096522**	1.53	3.7	ug/L
|	Zn	68	2984.312	0.009	**10.873112**	0.06	0.6	ug/L
|	V	51	-7583.327	-0.012	**-0.709483**	0.26	36.0	ug/L
|	Cr	52	4395.343	0.007	**0.944533**	0.07	7.0	ug/L
|	Cr	53	22554.458	0.038	**34.958606**	0.61	1.8	ug/L
|	Mn	55	60555470.686	226.251	**18702.762356**	294.31	1.6	ug/L
|	Fe	54	4718824.082	17.587	**32690.276676**	837.93	2.6	ug/L
⌊	Fe	57	2275171.962	8.495	**34286.709697**	545.14	1.6	ug/L
⌈	As	75	886.519	0.002	**2.414297**	0.19	7.7	ug/L
|	Se	77	4430.021	0.005	**73.542598**	6.91	9.4	ug/L
|	Se	82	52.386	0.000	**3.710743**	0.12	3.2	ug/L
|	Sr	88	7732483.952	13.986	**1531.274536**	29.08	1.9	ug/L
| >	Y	89	552983.045	552983.045				ug/L
|	Mo	95	556.678	0.001	**2.087459**	0.05	2.5	ug/L
|	Mo	97	284.003	0.000	**1.747557**	0.06	3.6	ug/L
⌊	Mo	98	746.321	0.001	**1.353744**	0.00	0.3	ug/L
⌈	Ag	107	28.000	0.000	**0.658599**	0.01	1.3	ug/L
|	Ag	109	14.000	0.000	**0.383084**	0.00	1.1	ug/L
|	Cd	111	16.833	0.000	**0.669822**	0.01	1.0	ug/L
|	Cd	114	8.191	0.000	**0.777974**	0.02	2.5	ug/L

|>	In	115	208127.591	208127.591				ug/L
|	Sn	120	2193.855	-0.005	**0.638400**	0.07	10.2	ug/L
|	Sb	121	102.667	0.000	**0.829087**	0.01	1.4	ug/L
|	Sb	123	157.562	0.001	**1.104963**	0.01	0.7	ug/L
|	Ba	135	7425.930	0.024	**22.862993**	0.09	0.4	ug/L
|	Ba	137	13057.966	0.042	**22.979965**	0.31	1.3	ug/L
|	Tb	159	302364.393	-0.012				ug/L
|>	Ho	165	309171.979	309171.979				ug/L
|	Tl	203	4.000	0.000	**-0.255435**	0.00	1.0	ug/L
|	Tl	205	17.333	0.000	**-0.210048**	0.00	0.7	ug/L
|	Pb	208	1080.016	0.003	**0.581791**	0.01	2.4	ug/L
	Kr	83	52.933	30.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		81.357	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		126.412	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		84.164	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	97.668
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-28A
Sample Date/Time: Saturday, February 26, 2011 16:13:19
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-28A.018
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25673.821	0.006				ug/L
|	Li	7	14508.701	0.044	**105.876778**	4.10	3.9	ug/L
|	Be	9	92.667	0.000	**4.774172**	0.21	4.4	ug/L
|	B	11	5916.559	0.019	**116.373116**	4.94	4.2	ug/L
|	Na	23	116114044.466	405.915	**834817.869241**	12438.14	1.5	ug/L
|	Mg	24	22209415.750	77.660	**260912.437424**	9361.64	3.6	ug/L
|	Al	27	74638.367	0.247	**258.787320**	231.71	89.5	ug/L
|	K	39	304411.995	0.897	**1451.997970**	68.88	4.7	ug/L
|	Ca	43	247928.719	0.866	**337701.926754**	11298.55	3.3	ug/L
| >	Sc	45	286018.940	286018.940				ug/L
|	Ti	49	1046.705	0.002	**29.540816**	1.00	3.4	ug/L
|	Co	59	85953.830	0.300	**160.320502**	2.19	1.4	ug/L
|	Ni	60	10698.672	0.037	**93.329476**	2.04	2.2	ug/L
|	Ni	62	1649.429	0.006	**92.906217**	6.64	7.2	ug/L
|	Cu	63	1652.762	0.004	**2.015128**	0.13	6.4	ug/L
|	Cu	65	812.023	0.002	**2.543048**	0.63	24.8	ug/L
|	Zn	66	2341.526	0.006	**25.399389**	1.42	5.6	ug/L
|	Zn	67	3505.763	0.007	**117.177409**	2.50	2.1	ug/L
|	Zn	68	1369.399	0.003	**20.111765**	0.88	4.4	ug/L
|	V	51	-7275.022	-0.009	**-1.508304**	1.28	84.9	ug/L
|	Cr	52	3792.504	0.004	**2.226534**	0.36	16.3	ug/L
|	Cr	53	22090.401	0.031	**132.218487**	8.40	6.4	ug/L
|	Mn	55	14132572.780	49.413	**20424.724934**	270.58	1.3	ug/L
|	Fe	54	1082930.110	3.742	**34691.478780**	827.84	2.4	ug/L
⌊	Fe	57	504332.187	1.758	**35428.149784**	701.47	2.0	ug/L
⌈	As	75	419.119	0.001	**7.459035**	0.68	9.2	ug/L
|	Se	77	2417.538	0.002	**157.745470**	7.74	4.9	ug/L
|	Se	82	14.657	0.000	**13.805420**	1.31	9.5	ug/L
|	Sr	88	1638115.560	3.713	**2036.469158**	28.89	1.4	ug/L
| >	Y	89	441158.592	441158.592				ug/L
|	Mo	95	133.334	0.000	**7.438564**	0.13	1.8	ug/L
|	Mo	97	74.667	0.000	**6.379739**	0.16	2.5	ug/L
⌊	Mo	98	182.376	0.000	**4.258571**	0.07	1.7	ug/L
⌈	Ag	107	10.000	-0.000	**3.217611**	0.01	0.4	ug/L
|	Ag	109	6.667	0.000	**1.883178**	0.01	0.5	ug/L
|	Cd	111	5.833	0.000	**3.169402**	0.02	0.8	ug/L
|	Cd	114	15.677	0.000	**3.932767**	0.04	1.0	ug/L

|>	In	115	223721.830	223721.830				ug/L
|	Sn	120	2540.056	-0.004	**3.806001**	0.11	2.8	ug/L
|	Sb	121	54.000	0.000	**3.911245**	0.07	1.8	ug/L
L	Sb	123	62.322	0.000	**4.955619**	0.06	1.3	ug/L
⌈	Ba	135	1644.761	0.005	**25.611712**	1.07	4.2	ug/L
|	Ba	137	2844.283	0.009	**26.184760**	1.12	4.3	ug/L
|	Tb	159	296291.455	-0.005				ug/L
|>	Ho	165	300784.115	300784.115				ug/L
|	Tl	203	10.000	0.000	**-1.238481**	0.04	3.1	ug/L
|	Tl	205	21.333	0.000	**-1.038541**	0.07	7.2	ug/L
L	Pb	208	311.335	0.001	**1.516070**	0.12	7.7	ug/L
	Kr	83	26.733	3.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		86.935	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		100.849	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.470	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.018
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Saturday, February 26, 2011 16:21:04
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\QC Std 4.019
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25956.081	0.000				ug/L
|	Li	7	67938.023	0.213	**100.160915**	6.98	7.0	ug/L
|	Be	9	19016.665	0.062	**101.121991**	6.92	6.8	ug/L
|	B	11	25546.838	0.081	**97.559642**	5.83	6.0	ug/L
|	Na	23	3734918.348	12.047	**4942.239445**	307.83	6.2	ug/L
|	Mg	24	2350575.425	7.611	**5098.760319**	357.66	7.0	ug/L
|	Al	27	6611413.601	21.387	**5114.076759**	197.97	3.9	ug/L
|	K	39	4752311.468	15.221	**5110.259492**	352.85	6.9	ug/L
|	Ca	43	20131.542	0.064	**5017.024530**	429.37	8.6	ug/L
| >	Sc	45	309121.511	309121.511				ug/L
|	Ti	49	13142.711	0.041	**95.590616**	4.15	4.3	ug/L
|	Co	59	281863.887	0.913	**98.377126**	6.10	6.2	ug/L
|	Ni	60	58672.371	0.190	**96.202167**	6.46	6.7	ug/L
|	Ni	62	9070.880	0.029	**98.701529**	4.56	4.6	ug/L
|	Cu	63	140816.963	0.454	**98.439415**	5.27	5.4	ug/L
|	Cu	65	64865.614	0.209	**97.465245**	3.19	3.3	ug/L
|	Zn	66	42035.094	0.134	**97.397829**	2.74	2.8	ug/L
|	Zn	67	8840.070	0.024	**98.397861**	6.90	7.0	ug/L
|	Zn	68	28369.484	0.090	**97.778477**	4.59	4.7	ug/L
|	V	51	202053.269	0.671	**95.765377**	4.32	4.5	ug/L
|	Cr	52	191548.572	0.611	**96.314223**	4.33	4.5	ug/L
|	Cr	53	41315.036	0.087	**94.969754**	9.26	9.8	ug/L
|	Mn	55	367855.610	1.190	**98.743738**	5.62	5.7	ug/L
|	Fe	54	864509.619	2.755	**5101.243183**	241.89	4.7	ug/L
⌊	Fe	57	393993.352	1.271	**5117.152406**	309.24	6.0	ug/L
⌈	As	75	28816.612	0.070	**99.078480**	1.60	1.6	ug/L
|	Se	77	14036.896	0.031	**505.341888**	20.41	4.0	ug/L
|	Se	82	13131.452	0.032	**492.760754**	5.51	1.1	ug/L
|	Sr	88	369542.515	0.897	**99.223095**	1.62	1.6	ug/L
| >	Y	89	411693.055	411693.055				ug/L
|	Mo	95	46997.225	0.114	**98.597685**	2.87	2.9	ug/L
|	Mo	97	29542.527	0.072	**99.298910**	2.15	2.2	ug/L
⌊	Mo	98	76602.765	0.186	**100.456366**	2.89	2.9	ug/L
⌈	Ag	107	138736.459	0.586	**98.818505**	0.97	1.0	ug/L
|	Ag	109	135835.527	0.574	**99.017587**	2.78	2.8	ug/L
|	Cd	111	35480.859	0.150	**99.100392**	3.36	3.4	ug/L
|	Cd	114	81702.046	0.345	**98.000650**	4.42	4.5	ug/L

|>	In	115	236817.799	236817.799				ug/L
|	Sn	120	152982.958	0.631	**96.394022**	2.26	2.3	ug/L
|	Sb	121	124241.267	0.525	**98.186130**	2.22	2.3	ug/L
_	Sb	123	95786.862	0.404	**97.177220**	1.49	1.5	ug/L
⌜	Ba	135	31324.312	0.099	**95.082805**	3.70	3.9	ug/L
|	Ba	137	55449.425	0.176	**95.490295**	3.74	3.9	ug/L
|	Tb	159	309422.936	-0.008				ug/L
|>	Ho	165	314917.246	314917.246				ug/L
|	Tl	203	80771.753	0.257	**97.050845**	4.29	4.4	ug/L
|	Tl	205	194892.529	0.619	**97.531488**	3.63	3.7	ug/L
_	Pb	208	273279.603	0.868	**98.645464**	4.53	4.6	ug/L
	Kr	83	26.400	3.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	100.161		
Be	9	101.122		
B	11	97.560		
Na	23	98.845		
Mg	24	101.975		
Al	27	100.276		
K	39	102.205		
Ca	43	100.340		
Sc	45		93.957	
Ti	49	95.591		
Co	59	98.377		
Ni	60	96.202		
Ni	62	98.702		
Cu	63	98.439		
Cu	65	97.465		
Zn	66	97.398		
Zn	67	98.398		
Zn	68	97.778		
V	51	95.765		
Cr	52	96.314		
Cr	53	94.970		
Mn	55	98.744		
Fe	54	102.025		
Fe	57	102.343		
As	75	99.078		
Se	77	101.068		
Se	82	98.552		
Sr	88	99.223		
Y	89		94.113	
Mo	95	98.598		
Mo	97	99.299		
Mo	98	100.456		
Ag	107	98.819		
Ag	109	99.018		
Cd	111	99.100		
Cd	114	98.001		
In	115		95.766	
Sn	120	96.394		
Sb	121	98.186		

Sb	123	97.177	
Ba	135	95.083	
Ba	137	95.490	
Tb	159		
Ho	165		99.483
Tl	203	97.051	
Tl	205	97.531	
Pb	208	98.645	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Saturday, February 26, 2011 16:26:51
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\QC Std 6.020
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	27408.769	0.007				ug/L
|	Li	7	2264.846	0.001	**1.001404**	0.11	10.7	ug/L
|	Be	9	4.000	-0.000	**0.446829**	0.01	2.5	ug/L
|	B	11	852.026	0.001	**1.874905**	0.22	12.0	ug/L
|	Na	23	17010.388	0.008	**-10.263663**	4.20	41.0	ug/L
|	Mg	24	633.351	-0.000	**-17.236665**	0.91	5.3	ug/L
|	Al	27	1868.457	-0.008	**-9.285290**	0.22	2.4	ug/L
|	K	39	53332.721	0.009	**-8.342897**	2.28	27.3	ug/L
|	Ca	43	201.335	-0.000	**-17.374129**	2.65	15.3	ug/L
| >	Sc	45	302237.911	302237.911				ug/L
|	Ti	49	503.342	0.000	**1.312870**	0.59	44.7	ug/L
|	Co	59	124.001	0.000	**-0.440300**	0.00	0.4	ug/L
|	Ni	60	69.334	0.000	**-0.222712**	0.01	3.9	ug/L
|	Ni	62	54.667	-0.000	**-0.390989**	0.15	37.8	ug/L
|	Cu	63	385.339	-0.000	**-0.577271**	0.03	4.5	ug/L
|	Cu	65	129.334	-0.000	**-0.620918**	0.03	5.0	ug/L
|	Zn	66	168.001	-0.001	**-0.429090**	0.09	20.6	ug/L
|	Zn	67	2453.545	0.003	**4.528065**	4.00	88.3	ug/L
|	Zn	68	190.668	-0.001	**-0.453373**	0.15	33.2	ug/L
|	V	51	-7057.133	-0.007	**-0.015024**	0.66	4422.6	ug/L
|	Cr	52	3558.443	0.002	**0.211465**	0.09	42.8	ug/L
|	Cr	53	20036.061	0.020	**13.246281**	5.40	40.8	ug/L
|	Mn	55	1988.805	0.005	**0.821368**	0.01	0.7	ug/L
|	Fe	54	15133.680	0.006	**-11.633691**	3.40	29.2	ug/L
⌞	Fe	57	1728.771	0.000	**-11.275692**	0.19	1.7	ug/L
⌜	As	75	29.928	0.000	**0.248134**	0.29	117.2	ug/L
|	Se	77	1704.102	0.001	**9.163287**	0.38	4.1	ug/L
|	Se	82	6.719	0.000	**2.502954**	0.12	4.7	ug/L
|	Sr	88	128.001	-0.000	**1.048080**	0.00	0.0	ug/L
| >	Y	89	413001.444	413001.444				ug/L
|	Mo	95	77.334	0.000	**1.389226**	0.04	2.6	ug/L
|	Mo	97	52.667	0.000	**1.218651**	0.02	1.4	ug/L
⌞	Mo	98	113.562	0.000	**0.777412**	0.01	1.6	ug/L
⌜	Ag	107	20.000	0.000	**0.650213**	0.01	0.8	ug/L
|	Ag	109	8.667	0.000	**0.377767**	0.00	0.4	ug/L
|	Cd	111	4.333	0.000	**0.628565**	0.00	0.7	ug/L
|	Cd	114	4.965	0.000	**0.773020**	0.02	2.3	ug/L

|>	In	115	238212.615	238212.615				ug/L
|	Sn	120	2656.196	-0.004	**0.730521**	0.05	7.1	ug/L
|	Sb	121	646.016	0.002	**1.241825**	0.22	17.3	ug/L
|	Sb	123	513.506	0.002	**1.438304**	0.17	11.9	ug/L
|	Ba	135	16.667	-0.000	**-0.057698**	0.01	15.1	ug/L
|	Ba	137	29.333	-0.000	**0.166892**	0.03	15.7	ug/L
|	Tb	159	301146.796	-0.013				ug/L
|>	Ho	165	307993.206	307993.206				ug/L
|	Tl	203	34.000	0.000	**-0.218612**	0.01	6.6	ug/L
|	Tl	205	74.667	0.000	**-0.180788**	0.02	12.9	ug/L
|	Pb	208	43.333	0.000	**0.201646**	0.00	1.9	ug/L
	Kr	83	18.867	-3.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		91.864	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		94.412	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		96.330	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	97.295
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-29A
Sample Date/Time: Saturday, February 26, 2011 16:34:11
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-29A.021
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	24861.895	0.004				ug/L
|	Li	7	27646.733	0.091	**43.086641**	1.44	3.3	ug/L
|	Be	9	5.333	0.000	**0.455944**	0.01	3.0	ug/L
|	B	11	19152.840	0.066	**79.515061**	2.00	2.5	ug/L
|	Na	23	60694395.207	214.452	**88203.503911**	3701.95	4.2	ug/L
|	Mg	24	10715954.309	37.875	**25441.235004**	1193.47	4.7	ug/L
|	Al	27	85280.743	0.287	**61.239872**	8.83	14.4	ug/L
|	K	39	2450880.732	8.495	**2847.241199**	146.63	5.2	ug/L
|	Ca	43	176425.588	0.623	**48543.445181**	755.13	1.6	ug/L
| >	Sc	45	283083.613	283083.613				ug/L
|	Ti	49	884.027	0.002	**4.673188**	0.18	3.9	ug/L
|	Co	59	461.341	0.001	**-0.308245**	0.01	3.8	ug/L
|	Ni	60	724.018	0.002	**0.960991**	0.06	6.4	ug/L
|	Ni	62	100.000	0.000	**0.198477**	0.15	77.4	ug/L
|	Cu	63	1716.770	0.004	**0.466030**	0.09	18.7	ug/L
|	Cu	65	480.008	0.001	**-0.027535**	0.03	98.5	ug/L
|	Zn	66	1925.463	0.005	**4.079266**	0.13	3.1	ug/L
|	Zn	67	3679.142	0.008	**26.906957**	5.43	20.2	ug/L
|	Zn	68	3235.033	0.010	**11.173123**	0.22	2.0	ug/L
|	V	51	-2705.430	0.007	**1.930851**	0.81	42.0	ug/L
|	Cr	52	4558.061	0.007	**0.896393**	0.16	17.4	ug/L
|	Cr	53	23612.869	0.037	**34.047876**	7.70	22.6	ug/L
|	Mn	55	8005.651	0.027	**2.620315**	0.56	21.4	ug/L
|	Fe	54	33602.480	0.075	**116.055328**	8.75	7.5	ug/L
⌞	Fe	57	13838.036	0.044	**163.132084**	9.58	5.9	ug/L
⌜	As	75	502.237	0.001	**1.906179**	0.23	11.9	ug/L
|	Se	77	2519.556	0.003	**44.496099**	3.72	8.4	ug/L
|	Se	82	6.432	0.000	**2.497336**	0.19	7.7	ug/L
|	Sr	88	1198406.525	2.977	**326.815784**	10.69	3.3	ug/L
| >	Y	89	402641.227	402641.227				ug/L
|	Mo	95	1375.400	0.003	**4.146257**	0.25	6.0	ug/L
|	Mo	97	846.692	0.002	**3.921196**	0.12	3.1	ug/L
⌞	Mo	98	2201.877	0.005	**3.565121**	0.14	4.0	ug/L
⌜	Ag	107	9.333	-0.000	**0.643126**	0.00	0.3	ug/L
|	Ag	109	16.000	0.000	**0.383891**	0.01	1.4	ug/L
|	Cd	111	20.333	0.000	**0.676600**	0.03	4.6	ug/L
|	Cd	114	37.767	0.000	**0.814836**	0.02	2.4	ug/L

|>	In	115	221214.753	221214.753				ug/L
|	Sn	120	2245.357	-0.005	**0.579006**	0.04	7.1	ug/L
|	Sb	121	290.670	0.001	**0.982131**	0.04	4.3	ug/L
L	Sb	123	249.825	0.001	**1.193793**	0.02	2.0	ug/L
⌈	Ba	135	159457.109	0.560	**535.264671**	14.08	2.6	ug/L
|	Ba	137	279635.455	0.981	**531.490383**	13.38	2.5	ug/L
|	Tb	159	280955.573	-0.005				ug/L
|>	Ho	165	285019.306	285019.306				ug/L
|	Tl	203	10.000	0.000	**-0.247165**	0.01	3.1	ug/L
|	Tl	205	26.000	0.000	**-0.204683**	0.01	4.0	ug/L
L	Pb	208	1083.349	0.004	**0.616847**	0.02	3.2	ug/L
	Kr	83	21.400	-1.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		86.043	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		92.044	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		89.456	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	90.038
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-30A
Sample Date/Time: Saturday, February 26, 2011 16:36:51
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-30A.022
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25378.181	0.006				ug/L
|	Li	7	15048.589	0.046	**22.456882**	0.17	0.7	ug/L
|	Be	9	255.336	0.001	**1.908745**	0.10	5.0	ug/L
|	B	11	34566.442	0.121	**145.611168**	3.31	2.3	ug/L
|	Na	23	78825246.378	280.129	**115220.104644**	2577.91	2.2	ug/L
|	Mg	24	8843366.710	31.432	**21110.283899**	642.27	3.0	ug/L
|	Al	27	3133418.107	11.125	**2656.549208**	98.24	3.7	ug/L
|	K	39	4286933.440	15.070	**5059.660190**	129.39	2.6	ug/L
|	Ca	43	134903.634	0.479	**37330.736914**	1459.98	3.9	ug/L
| >	Sc	45	281385.413	281385.413				ug/L
|	Ti	49	1285.391	0.003	**8.006586**	0.47	5.8	ug/L
|	Co	59	78320.854	0.278	**29.668792**	1.05	3.5	ug/L
|	Ni	60	11997.036	0.042	**21.325265**	0.57	2.7	ug/L
|	Ni	62	1826.784	0.006	**21.041509**	1.37	6.5	ug/L
|	Cu	63	36304.078	0.127	**27.245762**	0.69	2.5	ug/L
|	Cu	65	16851.268	0.059	**27.218459**	0.65	2.4	ug/L
|	Zn	66	23992.136	0.083	**60.733446**	0.90	1.5	ug/L
|	Zn	67	7224.494	0.021	**84.887981**	2.70	3.2	ug/L
|	Zn	68	16636.351	0.057	**62.542471**	1.62	2.6	ug/L
|	V	51	-1817.617	0.010	**2.383424**	0.59	24.9	ug/L
|	Cr	52	7712.748	0.018	**2.681092**	0.10	3.9	ug/L
|	Cr	53	25790.593	0.045	**43.928198**	1.54	3.5	ug/L
|	Mn	55	5395937.731	19.179	**1585.759653**	45.79	2.9	ug/L
|	Fe	54	1318466.606	4.642	**8611.766460**	177.99	2.1	ug/L
⌊	Fe	57	605245.708	2.146	**8651.931301**	239.56	2.8	ug/L
⌈	As	75	28378.302	0.062	**87.995966**	0.54	0.6	ug/L
|	Se	77	2610.905	0.003	**35.546149**	3.59	10.1	ug/L
|	Se	82	17.013	0.000	**2.826374**	0.13	4.6	ug/L
|	Sr	88	889649.033	1.948	**214.228184**	6.35	3.0	ug/L
| >	Y	89	456464.037	456464.037				ug/L
|	Mo	95	462.008	0.001	**2.092624**	0.09	4.2	ug/L
|	Mo	97	284.670	0.001	**1.897910**	0.06	3.1	ug/L
⌊	Mo	98	712.465	0.001	**1.467256**	0.07	5.1	ug/L
⌈	Ag	107	15.333	0.000	**0.647734**	0.01	0.9	ug/L
|	Ag	109	9.333	0.000	**0.378807**	0.00	0.8	ug/L
|	Cd	111	5403.188	0.025	**16.772795**	0.22	1.3	ug/L
|	Cd	114	12673.707	0.058	**17.010519**	0.27	1.6	ug/L

|>	In	115	219804.300	219804.300				ug/L
|	Sn	120	2217.344	-0.005	**0.570715**	0.06	10.6	ug/L
|	Sb	121	165.334	0.001	**0.877436**	0.03	3.7	ug/L
L	Sb	123	149.740	0.000	**1.086958**	0.01	1.1	ug/L
⌈	Ba	135	35123.126	0.122	**116.595921**	1.13	1.0	ug/L
|	Ba	137	61516.853	0.214	**115.802165**	1.16	1.0	ug/L
|	Tb	159	282663.773	-0.008				ug/L
|>	Ho	165	287864.455	287864.455				ug/L
|	Tl	203	470.674	0.002	**0.359529**	0.00	0.5	ug/L
|	Tl	205	1101.376	0.004	**0.385231**	0.02	5.8	ug/L
L	Pb	208	9248.510	0.032	**3.828951**	0.08	2.1	ug/L
	Kr	83	23.867	1.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.526	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		104.348	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		88.886	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	90.937
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-31A
Sample Date/Time: Saturday, February 26, 2011 16:39:33
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-31A.023
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24207.978	-0.000				ug/L
|	Li	7	37098.109	0.121	**286.430933**	7.75	2.7	ug/L
|	Be	9	1180.716	0.004	**35.471286**	1.95	5.5	ug/L
|	B	11	18690.219	0.063	**378.971126**	8.16	2.2	ug/L
|	Na	23	70373466.979	242.993	**499718.932622**	13928.54	2.8	ug/L
|	Mg	24	9387059.363	32.424	**108886.271744**	4287.71	3.9	ug/L
|	Al	27	42382641.368	146.407	**175261.146532**	7777.95	4.4	ug/L
|	K	39	1934816.426	6.519	**10911.207371**	984.42	9.0	ug/L
|	Ca	43	88106.868	0.304	**118315.862079**	2682.08	2.3	ug/L
| >	Sc	45	289609.064	289609.064				ug/L
|	Ti	49	2287.517	0.007	**78.496237**	6.89	8.8	ug/L
|	Co	59	124933.291	0.431	**231.264606**	6.69	2.9	ug/L
|	Ni	60	30157.140	0.104	**262.899692**	8.75	3.3	ug/L
|	Ni	62	4676.766	0.016	**269.108854**	2.50	0.9	ug/L
|	Cu	63	1864.789	0.005	**2.739243**	0.44	16.1	ug/L
|	Cu	65	1269.390	0.004	**6.163777**	0.72	11.7	ug/L
|	Zn	66	28547.164	0.097	**351.817723**	9.09	2.6	ug/L
|	Zn	67	7473.957	0.021	**427.726390**	27.34	6.4	ug/L
|	Zn	68	20323.782	0.069	**372.341816**	11.61	3.1	ug/L
|	V	51	45096.756	0.172	**126.634709**	9.23	7.3	ug/L
|	Cr	52	27183.855	0.085	**65.931520**	3.51	5.3	ug/L
|	Cr	53	23797.809	0.036	**162.279706**	15.52	9.6	ug/L
|	Mn	55	4386456.575	15.154	**6265.140097**	308.97	4.9	ug/L
|	Fe	54	9218187.564	31.806	**295687.856229**	16203.97	5.5	ug/L
⌊	Fe	57	4321588.848	14.922	**301178.726631**	8888.50	3.0	ug/L
⌈	As	75	2079.907	0.003	**18.528201**	1.07	5.8	ug/L
|	Se	77	1894.792	-0.001	**-105.818535**	5.56	5.3	ug/L
|	Se	82	23.815	0.000	**13.480800**	0.27	2.0	ug/L
|	Sr	88	861184.618	1.042	**575.332391**	8.44	1.5	ug/L
| >	Y	89	826114.409	826114.409				ug/L
|	Mo	95	114.000	0.000	**6.737012**	0.08	1.2	ug/L
|	Mo	97	62.667	0.000	**5.738962**	0.03	0.4	ug/L
⌊	Mo	98	193.262	0.000	**3.777501**	0.04	1.0	ug/L
⌈	Ag	107	33.333	0.000	**3.308399**	0.02	0.6	ug/L
|	Ag	109	8.000	0.000	**1.889216**	0.01	0.7	ug/L
|	Cd	111	388.005	0.002	**8.924503**	0.32	3.6	ug/L
|	Cd	114	906.950	0.004	**9.685993**	0.27	2.8	ug/L

|>	In	115	218416.751	218416.751				ug/L
|	Sn	120	2600.171	-0.003	**4.215649**	0.88	20.8	ug/L
|	Sb	121	130.001	0.000	**4.241514**	0.08	1.9	ug/L
_	Sb	123	115.329	0.000	**5.250805**	0.17	3.2	ug/L
⌜	Ba	135	1142.712	0.004	**17.051926**	0.74	4.3	ug/L
|	Ba	137	2023.477	0.006	**18.221402**	0.74	4.1	ug/L
|	Tb	159	303939.454	-0.011				ug/L
|>	Ho	165	310409.854	310409.854				ug/L
|	Tl	203	23.333	0.000	**-1.159540**	0.04	3.0	ug/L
|	Tl	205	51.333	0.000	**-0.963979**	0.01	0.7	ug/L
_	Pb	208	2657.430	0.008	**5.781991**	0.12	2.0	ug/L
	Kr	83	40.667	17.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		88.026	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		188.849	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		88.325	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	98.059
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-31A
Sample Date/Time: Saturday, February 26, 2011 16:42:14
Sample Type: Sample
Sample Description: 25
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-31A.024
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 0.4000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	25290.691	0.007				ug/L
|	Li	7	9062.207	0.025	**315.490347**	7.44	2.4	ug/L
|	Be	9	239.335	0.001	**45.603210**	1.93	4.2	ug/L
|	B	11	4731.451	0.015	**468.731251**	10.48	2.2	ug/L
|	Na	23	13822271.560	49.358	**507257.359042**	1483.55	0.3	ug/L
|	Mg	24	1866566.502	6.670	**111656.493520**	1599.91	1.4	ug/L
|	Al	27	8342071.123	29.807	**178261.288682**	3904.11	2.2	ug/L
|	K	39	427298.972	1.360	**11154.799729**	317.88	2.8	ug/L
|	Ca	43	17413.282	0.062	**119652.180419**	5344.25	4.5	ug/L
| >	Sc	45	279768.727	279768.727				ug/L
|	Ti	49	794.689	0.002	**100.437716**	8.23	8.2	ug/L
|	Co	59	23862.582	0.085	**218.850224**	4.31	2.0	ug/L
|	Ni	60	6174.001	0.022	**271.827105**	4.12	1.5	ug/L
|	Ni	62	988.034	0.003	**274.626810**	13.90	5.1	ug/L
|	Cu	63	529.343	0.000	**-11.080795**	0.61	5.5	ug/L
|	Cu	65	272.003	0.000	**-9.143051**	0.46	5.1	ug/L
|	Zn	66	5769.165	0.019	**351.510051**	7.61	2.2	ug/L
|	Zn	67	3803.173	0.009	**739.274171**	45.40	6.1	ug/L
|	Zn	68	3829.847	0.012	**340.242388**	4.41	1.3	ug/L
|	V	51	3646.219	0.030	**128.387417**	8.27	6.4	ug/L
|	Cr	52	8259.721	0.020	**75.354563**	1.25	1.7	ug/L
|	Cr	53	20577.478	0.027	**549.620778**	47.59	8.7	ug/L
|	Mn	55	840786.348	3.004	**6218.287243**	127.53	2.1	ug/L
|	Fe	54	1720034.198	6.105	**283299.792479**	6766.66	2.4	ug/L
⌞	Fe	57	802990.106	2.865	**288889.566304**	5740.96	2.0	ug/L
⌜	As	75	478.637	0.001	**39.505812**	15.15	38.3	ug/L
|	Se	77	1556.752	0.000	**-125.725550**	43.16	34.3	ug/L
|	Se	82	6.839	0.000	**61.874633**	2.51	4.1	ug/L
|	Sr	88	167632.820	0.352	**988.823505**	53.27	5.4	ug/L
| >	Y	89	476447.175	476447.175				ug/L
|	Mo	95	30.667	-0.000	**32.121306**	0.31	1.0	ug/L
|	Mo	97	16.000	-0.000	**27.255854**	0.68	2.5	ug/L
⌞	Mo	98	43.187	-0.000	**16.972287**	0.30	1.8	ug/L
⌜	Ag	107	11.333	0.000	**16.118153**	0.14	0.9	ug/L
|	Ag	109	3.333	0.000	**9.353884**	0.02	0.2	ug/L
|	Cd	111	78.000	0.000	**21.315917**	0.70	3.3	ug/L
|	Cd	114	187.363	0.001	**25.235277**	0.41	1.6	ug/L

|>	In	115	217555.235	217555.235				ug/L
|	Sn	120	2439.474	-0.004	**18.479913**	1.42	7.7	ug/L
|	Sb	121	63.333	0.000	**19.784187**	0.45	2.3	ug/L
|	Sb	123	55.329	0.000	**24.633102**	0.09	0.4	ug/L
⌈	Ba	135	240.669	0.001	**17.604677**	1.43	8.1	ug/L
|	Ba	137	390.672	0.001	**21.583472**	2.41	11.2	ug/L
|	Tb	159	276376.603	-0.014				ug/L
|>	Ho	165	282903.778	282903.778				ug/L
|	Tl	203	2.000	-0.000	**-6.441636**	0.00	0.0	ug/L
|	Tl	205	15.333	0.000	**-5.258739**	0.10	1.9	ug/L
⌊	Pb	208	556.004	0.002	**10.212098**	0.09	0.9	ug/L
	Kr	83	20.600	-2.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.035	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		108.916	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		87.976	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	89.370
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-32A
Sample Date/Time: Saturday, February 26, 2011 16:44:55
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-32A.025
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	25613.190	0.008				ug/L
|	Li	7	9505.828	0.027	**13.356163**	0.29	2.2	ug/L
|	Be	9	151.334	0.001	**1.309779**	0.11	8.3	ug/L
|	B	11	14965.837	0.052	**62.540345**	1.09	1.7	ug/L
|	Na	23	20211155.266	72.189	**29682.264396**	684.67	2.3	ug/L
|	Mg	24	2781208.419	9.938	**6662.927939**	157.43	2.4	ug/L
|	Al	27	8710745.983	31.121	**7445.142084**	268.50	3.6	ug/L
|	K	39	2720022.980	9.554	**3203.540044**	73.74	2.3	ug/L
|	Ca	43	47488.140	0.169	**13165.077890**	30.11	0.2	ug/L
| >	Sc	45	279836.104	279836.104				ug/L
|	Ti	49	1347.397	0.004	**8.568666**	0.52	6.0	ug/L
|	Co	59	29601.319	0.106	**10.975344**	0.45	4.1	ug/L
|	Ni	60	10403.120	0.037	**18.548540**	0.14	0.8	ug/L
|	Ni	62	1682.766	0.006	**19.415381**	0.38	2.0	ug/L
|	Cu	63	45510.377	0.161	**34.564317**	0.46	1.3	ug/L
|	Cu	65	20978.060	0.074	**34.274115**	0.23	0.7	ug/L
|	Zn	66	32563.741	0.114	**83.207696**	1.89	2.3	ug/L
|	Zn	67	8674.634	0.026	**109.336940**	5.41	4.9	ug/L
|	Zn	68	22262.668	0.078	**84.553885**	1.70	2.0	ug/L
|	V	51	-8275.320	-0.013	**-0.887544**	0.50	56.3	ug/L
|	Cr	52	9671.273	0.025	**3.810829**	0.12	3.3	ug/L
|	Cr	53	25962.242	0.046	**45.283890**	2.36	5.2	ug/L
|	Mn	55	1765487.733	6.308	**521.871092**	11.04	2.1	ug/L
|	Fe	54	64350.936	0.186	**322.973854**	14.00	4.3	ug/L
⌊	Fe	57	23216.200	0.078	**300.678030**	14.83	4.9	ug/L
⌜	As	75	337.860	0.001	**1.254887**	0.34	26.9	ug/L
|	Se	77	2147.495	0.002	**23.440380**	4.47	19.1	ug/L
|	Se	82	15.840	0.000	**2.820576**	0.16	5.6	ug/L
|	Sr	88	258766.018	0.601	**66.812656**	3.74	5.6	ug/L
| >	Y	89	430679.574	430679.574				ug/L
|	Mo	95	35.333	-0.000	**1.299482**	0.01	1.0	ug/L
|	Mo	97	30.667	0.000	**1.141249**	0.01	1.2	ug/L
⌊	Mo	98	51.333	-0.000	**0.694080**	0.01	1.9	ug/L
⌜	Ag	107	14.000	0.000	**0.646985**	0.00	0.2	ug/L
|	Ag	109	9.333	0.000	**0.379028**	0.01	1.4	ug/L
|	Cd	111	15326.885	0.071	**47.495563**	1.30	2.7	ug/L
|	Cd	114	35032.061	0.163	**46.689830**	1.15	2.5	ug/L

|>	In	115	214908.128	214908.128				ug/L
|	Sn	120	2233.398	-0.005	**0.616027**	0.01	1.3	ug/L
|	Sb	121	830.691	0.004	**1.455098**	0.03	2.0	ug/L
\L	Sb	123	611.589	0.003	**1.602259**	0.04	2.3	ug/L
⌜	Ba	135	8875.423	0.032	**30.502131**	0.25	0.8	ug/L
|	Ba	137	15288.846	0.055	**29.961653**	0.71	2.4	ug/L
|	Tb	159	271086.602	-0.013				ug/L
|>	Ho	165	277307.623	277307.623				ug/L
|	Tl	203	72.667	0.000	**-0.160962**	0.02	13.9	ug/L
|	Tl	205	176.668	0.001	**-0.118329**	0.00	3.5	ug/L
\L	Pb	208	58609.752	0.211	**24.148999**	0.57	2.3	ug/L
	Kr	83	20.400	-2.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.055	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		98.453	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		86.906	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	87.602
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-34A
Sample Date/Time: Saturday, February 26, 2011 16:47:36
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-34A.026
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24172.558	-0.000				ug/L
|	Li	7	30903.404	0.100	**47.390221**	1.56	3.3	ug/L
|	Be	9	894.695	0.003	**5.487868**	0.56	10.1	ug/L
|	B	11	37583.393	0.128	**154.209301**	4.99	3.2	ug/L
|	Na	23	85727677.957	296.559	**121978.897150**	3669.28	3.0	ug/L
|	Mg	24	7849951.145	27.156	**18236.063297**	213.48	1.2	ug/L
|	Al	27	18962944.636	65.598	**15701.074682**	795.97	5.1	ug/L
|	K	39	3447599.782	11.761	**3946.054897**	89.11	2.3	ug/L
|	Ca	43	67146.790	0.232	**18046.816264**	216.87	1.2	ug/L
|>	Sc	45	289057.892	289057.892				ug/L
|	Ti	49	1319.394	0.003	**7.992321**	0.55	6.9	ug/L
|	Co	59	130988.935	0.453	**48.604190**	2.03	4.2	ug/L
|	Ni	60	35352.371	0.122	**61.804409**	1.92	3.1	ug/L
|	Ni	62	5215.619	0.018	**60.252871**	0.46	0.8	ug/L
|	Cu	63	25248.965	0.086	**18.169068**	0.49	2.7	ug/L
|	Cu	65	11563.345	0.039	**17.908315**	0.38	2.1	ug/L
|	Zn	66	111138.643	0.382	**276.801507**	2.69	1.0	ug/L
|	Zn	67	20350.489	0.065	**289.859162**	9.14	3.2	ug/L
|	Zn	68	75832.758	0.261	**281.417954**	5.24	1.9	ug/L
|	V	51	-7305.510	-0.009	**-0.282343**	0.91	322.1	ug/L
|	Cr	52	12839.101	0.035	**5.367468**	0.11	2.0	ug/L
|	Cr	53	27963.386	0.050	**50.111185**	6.66	13.3	ug/L
|	Mn	55	3810017.635	13.180	**1089.852742**	7.18	0.7	ug/L
|	Fe	54	1489596.749	5.110	**9481.477776**	241.84	2.6	ug/L
⌊	Fe	57	688865.896	2.378	**9588.185098**	142.76	1.5	ug/L
⌈	As	75	357.896	0.001	**1.102363**	0.36	32.5	ug/L
|	Se	77	2532.891	0.002	**20.069953**	1.52	7.6	ug/L
|	Se	82	27.646	0.000	**3.055928**	0.08	2.6	ug/L
|	Sr	88	424633.874	0.802	**88.782666**	1.21	1.4	ug/L
|>	Y	89	529305.512	529305.512				ug/L
|	Mo	95	18.667	-0.000	**1.259766**	0.01	0.5	ug/L
|	Mo	97	19.333	-0.000	**1.093937**	0.01	0.5	ug/L
⌊	Mo	98	43.854	-0.000	**0.674496**	0.01	1.3	ug/L
⌈	Ag	107	26.667	0.000	**0.657252**	0.01	1.2	ug/L
|	Ag	109	12.667	0.000	**0.381865**	0.00	0.5	ug/L
|	Cd	111	37279.417	0.177	**116.940957**	1.24	1.1	ug/L
|	Cd	114	85985.185	0.408	**115.781168**	0.35	0.3	ug/L

|>	In	115	210607.640	210607.640				ug/L
|	Sn	120	2086.059	-0.005	**0.543005**	0.07	13.8	ug/L
|	Sb	121	126.001	0.000	**0.848426**	0.03	3.7	ug/L
_	Sb	123	99.077	0.000	**1.036721**	0.01	0.9	ug/L
⌈	Ba	135	2973.643	0.010	**10.012322**	0.19	1.9	ug/L
|	Ba	137	5363.674	0.019	**10.449966**	0.43	4.1	ug/L
|	Tb	159	277797.945	-0.002				ug/L
|>	Ho	165	281013.850	281013.850				ug/L
|	Tl	203	390.672	0.001	**0.266804**	0.01	4.4	ug/L
|	Tl	205	996.701	0.004	**0.340995**	0.00	1.0	ug/L
_	Pb	208	9005.764	0.032	**3.820011**	0.13	3.4	ug/L
	Kr	83	28.133	5.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.858	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		120.999	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		85.167	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.773
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-35A
Sample Date/Time: Saturday, February 26, 2011 16:50:17
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\11020727-35A.027
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	24787.658	0.001				ug/L
|	Li	7	31204.725	0.100	**47.222314**	1.27	2.7	ug/L
|	Be	9	824.024	0.003	**5.025707**	0.17	3.4	ug/L
|	B	11	36321.453	0.122	**147.023648**	1.92	1.3	ug/L
|	Na	23	89566230.701	305.824	**125789.972662**	2229.80	1.8	ug/L
|	Mg	24	8014509.183	27.367	**18378.054722**	503.92	2.7	ug/L
|	Al	27	19161067.204	65.422	**15658.971117**	200.26	1.3	ug/L
|	K	39	3412055.812	11.485	**3853.153944**	30.91	0.8	ug/L
|	Ca	43	66418.050	0.226	**17619.926448**	175.95	1.0	ug/L
|>	Sc	45	292822.294	292822.294				ug/L
|	Ti	49	1246.721	0.003	**7.287214**	0.18	2.5	ug/L
|	Co	59	133794.833	0.457	**49.002074**	1.82	3.7	ug/L
|	Ni	60	42237.066	0.144	**72.940574**	2.61	3.6	ug/L
|	Ni	62	6524.158	0.022	**74.640367**	3.44	4.6	ug/L
|	Cu	63	24589.151	0.082	**17.431159**	0.39	2.2	ug/L
|	Cu	65	11126.999	0.037	**16.968118**	0.30	1.8	ug/L
|	Zn	66	109015.717	0.370	**267.984647**	1.37	0.5	ug/L
|	Zn	67	20274.380	0.064	**284.479273**	6.11	2.1	ug/L
|	Zn	68	74768.487	0.254	**273.846945**	1.00	0.4	ug/L
|	V	51	-6430.676	-0.005	**0.190719**	0.68	354.8	ug/L
|	Cr	52	18082.104	0.052	**8.105347**	0.12	1.5	ug/L
|	Cr	53	28661.391	0.052	**51.460647**	0.98	1.9	ug/L
|	Mn	55	3776075.384	12.894	**1066.234670**	15.16	1.4	ug/L
|	Fe	54	1436426.392	4.861	**9019.336522**	86.09	1.0	ug/L
⌞	Fe	57	671183.596	2.287	**9220.236663**	223.78	2.4	ug/L
⌜	As	75	342.825	0.001	**1.085172**	0.17	15.6	ug/L
|	Se	77	2526.890	0.002	**21.693043**	1.83	8.4	ug/L
|	Se	82	23.240	0.000	**2.944093**	0.07	2.4	ug/L
|	Sr	88	415695.191	0.803	**88.951633**	3.83	4.3	ug/L
|>	Y	89	517351.333	517351.333				ug/L
|	Mo	95	293.336	0.000	**1.713413**	0.04	2.2	ug/L
|	Mo	97	146.001	0.000	**1.430145**	0.02	1.3	ug/L
⌞	Mo	98	434.902	0.001	**1.080739**	0.02	2.0	ug/L
⌜	Ag	107	22.000	0.000	**0.653460**	0.01	1.9	ug/L
|	Ag	109	16.000	0.000	**0.384591**	0.00	1.1	ug/L
|	Cd	111	36811.207	0.174	**115.270922**	2.06	1.8	ug/L
|	Cd	114	84572.565	0.401	**113.688518**	1.29	1.1	ug/L

|>	In	115	211009.144	211009.144				ug/L
|	Sn	120	2171.388	-0.005	**0.600823**	0.02	3.4	ug/L
|	Sb	121	104.000	0.000	**0.829006**	0.00	0.5	ug/L
L	Sb	123	94.243	0.000	**1.030898**	0.03	2.6	ug/L
⌈	Ba	135	3372.398	0.012	**11.229547**	0.28	2.5	ug/L
|	Ba	137	5782.504	0.020	**11.119951**	0.33	3.0	ug/L
|	Tb	159	275068.323	-0.023				ug/L
|>	Ho	165	284445.256	284445.256				ug/L
|	Tl	203	406.673	0.001	**0.281834**	0.07	23.8	ug/L
|	Tl	205	991.368	0.003	**0.331255**	0.01	2.8	ug/L
L	Pb	208	7163.370	0.025	**3.041017**	0.05	1.6	ug/L
	Kr	83	28.933	6.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.003	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		118.266	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		85.329	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	89.857
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Saturday, February 26, 2011 16:53:57
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\QC Std 4.028
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	24013.317	0.001				ug/L
|	Li	7	67762.337	0.233	**109.367924**	1.56	1.4	ug/L
|	Be	9	18415.205	0.065	**106.967172**	4.37	4.1	ug/L
|	B	11	25425.297	0.088	**106.237198**	4.99	4.7	ug/L
|	Na	23	3902338.219	13.761	**5647.250155**	197.32	3.5	ug/L
|	Mg	24	2345395.990	8.297	**5559.883223**	142.15	2.6	ug/L
|	Al	27	6567532.155	23.227	**5554.579735**	174.88	3.1	ug/L
|	K	39	4745533.315	16.626	**5583.236749**	272.73	4.9	ug/L
|	Ca	43	19282.364	0.067	**5252.516454**	320.28	6.1	ug/L
| >	Sc	45	282625.726	282625.726				ug/L
|	Ti	49	12650.268	0.044	**100.704710**	3.26	3.2	ug/L
|	Co	59	271638.295	0.961	**103.613501**	0.92	0.9	ug/L
|	Ni	60	56006.241	0.198	**100.341045**	1.38	1.4	ug/L
|	Ni	62	8570.570	0.030	**101.954496**	1.10	1.1	ug/L
|	Cu	63	131398.874	0.463	**100.394455**	1.08	1.1	ug/L
|	Cu	65	61625.972	0.217	**101.261731**	1.17	1.2	ug/L
|	Zn	66	39293.969	0.137	**99.562247**	1.25	1.3	ug/L
|	Zn	67	9109.571	0.027	**114.958023**	3.50	3.0	ug/L
|	Zn	68	27240.626	0.095	**102.659398**	2.32	2.3	ug/L
|	V	51	194954.019	0.706	**100.809849**	2.55	2.5	ug/L
|	Cr	52	184521.415	0.644	**101.490809**	1.16	1.1	ug/L
|	Cr	53	42753.214	0.105	**116.185760**	2.16	1.9	ug/L
|	Mn	55	352505.583	1.246	**103.379665**	0.87	0.8	ug/L
|	Fe	54	833945.633	2.907	**5383.697316**	93.17	1.7	ug/L
⌊	Fe	57	373860.380	1.317	**5306.862218**	73.76	1.4	ug/L
⌜	As	75	27805.185	0.071	**99.940206**	4.76	4.8	ug/L
|	Se	77	13056.633	0.030	**489.628696**	17.29	3.5	ug/L
|	Se	82	12551.592	0.032	**492.469511**	18.92	3.8	ug/L
|	Sr	88	356410.236	0.905	**100.049342**	3.29	3.3	ug/L
| >	Y	89	393779.532	393779.532				ug/L
|	Mo	95	44665.107	0.113	**97.970434**	4.00	4.1	ug/L
|	Mo	97	28294.663	0.072	**99.419884**	1.92	1.9	ug/L
⌊	Mo	98	72109.612	0.183	**98.841640**	3.09	3.1	ug/L
⌜	Ag	107	131564.406	0.588	**99.138768**	1.34	1.4	ug/L
|	Ag	109	127537.464	0.570	**98.336833**	0.37	0.4	ug/L
|	Cd	111	33792.089	0.151	**99.835045**	1.81	1.8	ug/L
|	Cd	114	78228.650	0.350	**99.232703**	2.34	2.4	ug/L

|>	In	115	223838.683	223838.683				ug/L
|	Sn	120	148272.774	0.647	**98.861290**	1.20	1.2	ug/L
|	Sb	121	118766.986	0.530	**99.273606**	0.77	0.8	ug/L
|	Sb	123	91991.779	0.411	**98.725403**	2.08	2.1	ug/L
|	Ba	135	29571.260	0.105	**100.262851**	4.79	4.8	ug/L
|	Ba	137	51464.577	0.182	**98.979206**	4.28	4.3	ug/L
|	Tb	159	276295.515	-0.010				ug/L
|>	Ho	165	281938.856	281938.856				ug/L
|	Tl	203	79970.695	0.284	**107.339677**	5.28	4.9	ug/L
|	Tl	205	189741.065	0.673	**106.071442**	4.83	4.6	ug/L
|	Pb	208	261293.798	0.927	**105.308615**	4.12	3.9	ug/L
	Kr	83	27.333	4.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	109.368		
Be	9	106.967		
B	11	106.237		
Na	23	112.945		
Mg	24	111.198		
Al	27	108.913		
K	39	111.665		
Ca	43	105.050		
Sc	45		85.903	
Ti	49	100.705		
Co	59	103.614		
Ni	60	100.341		
Ni	62	101.954		
Cu	63	100.394		
Cu	65	101.262		
Zn	66	99.562		
Zn	67	114.958		
Zn	68	102.659		
V	51	100.810		
Cr	52	101.491		
Cr	53	116.186		
Mn	55	103.380		
Fe	54	107.674		
Fe	57	106.137		
As	75	99.940		
Se	77	97.926		
Se	82	98.494		
Sr	88	100.049		
Y	89		90.018	
Mo	95	97.970		
Mo	97	99.420		
Mo	98	98.842		
Ag	107	99.139		
Ag	109	98.337		
Cd	111	99.835		
Cd	114	99.233		
In	115		90.517	
Sn	120	98.861		
Sb	121	99.274		

Sb	123	98.725	
Ba	135	100.263	
Ba	137	98.979	
Tb	159		
Ho	165		89.065
Tl	203	107.340	
Tl	205	106.071	
Pb	208	105.309	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Saturday, February 26, 2011 16:57:05
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\QC Std 6.029
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26259.452	0.009				ug/L
|	Li	7	2254.178	0.001	**1.206579**	0.17	14.4	ug/L
|	Be	9	2.667	-0.000	**0.440410**	0.01	1.5	ug/L
|	B	11	1020.703	0.002	**2.802865**	0.29	10.2	ug/L
|	Na	23	16709.848	0.011	**-9.130666**	2.95	32.3	ug/L
|	Mg	24	266.671	-0.002	**-18.001688**	0.72	4.0	ug/L
|	Al	27	1753.442	-0.008	**-9.287052**	0.18	1.9	ug/L
|	K	39	48615.944	0.004	**-10.095180**	2.84	28.1	ug/L
|	Ca	43	233.335	0.000	**-5.232523**	5.48	104.7	ug/L
| >	Sc	45	283979.790	283979.790				ug/L
|	Ti	49	420.006	0.000	**0.876195**	0.18	20.1	ug/L
|	Co	59	144.001	0.000	**-0.429919**	0.01	2.2	ug/L
|	Ni	60	72.667	0.000	**-0.208892**	0.03	14.5	ug/L
|	Ni	62	38.667	-0.000	**-0.538229**	0.16	30.5	ug/L
|	Cu	63	336.671	-0.001	**-0.596567**	0.03	4.8	ug/L
|	Cu	65	126.667	-0.000	**-0.612514**	0.05	7.7	ug/L
|	Zn	66	189.335	-0.001	**-0.349311**	0.05	13.3	ug/L
|	Zn	67	2966.975	0.005	**15.200140**	3.25	21.4	ug/L
|	Zn	68	262.669	-0.001	**-0.136195**	0.12	85.4	ug/L
|	V	51	-8513.071	-0.013	**-0.950328**	0.60	63.3	ug/L
|	Cr	52	3703.814	0.004	**0.411188**	0.07	16.4	ug/L
|	Cr	53	21844.693	0.031	**26.118175**	3.69	14.1	ug/L
|	Mn	55	1418.737	0.004	**0.690378**	0.01	0.9	ug/L
|	Fe	54	14418.835	0.007	**-10.309265**	3.28	31.8	ug/L
⌊	Fe	57	1618.758	0.000	**-11.344806**	0.76	6.7	ug/L
⌈	As	75	162.406	0.000	**0.728509**	0.15	20.0	ug/L
|	Se	77	1684.766	0.001	**11.550427**	3.87	33.5	ug/L
|	Se	82	5.731	0.000	**2.476623**	0.14	5.7	ug/L
|	Sr	88	116.667	-0.000	**1.046402**	0.01	0.9	ug/L
| >	Y	89	394679.371	394679.371				ug/L
|	Mo	95	67.334	0.000	**1.374530**	0.05	3.4	ug/L
|	Mo	97	35.333	0.000	**1.166077**	0.04	3.3	ug/L
⌊	Mo	98	89.781	0.000	**0.751900**	0.02	2.4	ug/L
⌈	Ag	107	8.000	-0.000	**0.641997**	0.01	0.8	ug/L
|	Ag	109	6.667	0.000	**0.376580**	0.00	0.6	ug/L
|	Cd	111	3.167	0.000	**0.625851**	0.00	0.1	ug/L
|	Cd	114	6.783	0.000	**0.775342**	0.01	1.3	ug/L

|>	In	115	226503.961	226503.961				ug/L
|	Sn	120	2566.163	-0.004	**0.757587**	0.07	9.5	ug/L
|	Sb	121	391.339	0.001	**1.058315**	0.03	2.7	ug/L
L	Sb	123	316.666	0.001	**1.257501**	0.08	6.5	ug/L
⌈	Ba	135	14.000	-0.000	**-0.062517**	0.01	11.8	ug/L
|	Ba	137	27.333	-0.000	**0.167227**	0.01	3.0	ug/L
|	Tb	159	278787.567	-0.016				ug/L
|>	Ho	165	286198.207	286198.207				ug/L
|	Tl	203	45.333	0.000	**-0.200445**	0.03	15.0	ug/L
|	Tl	205	81.334	0.000	**-0.174101**	0.02	9.5	ug/L
L	Pb	208	44.667	0.000	**0.203337**	0.00	0.9	ug/L
	Kr	83	17.333	-5.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		86.315	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		90.224	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		91.595	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	90.410
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Saturday, February 26, 2011 17:05:09
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\ICSA.030
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	25739.592	0.007				ug/L
|	Li	7	2248.844	0.001	**1.217564**	0.09	7.5	ug/L
|	Be	9	4.667	-0.000	**0.452118**	0.01	1.6	ug/L
|	B	11	702.017	0.001	**1.476315**	0.14	9.2	ug/L
|	Na	23	67196433.529	237.733	**97780.044909**	3335.04	3.4	ug/L
|	Mg	24	41246057.821	145.972	**98099.051249**	4589.23	4.7	ug/L
|	Al	27	116568480.647	412.447	**98760.061719**	2548.29	2.6	ug/L
|	K	39	84728889.407	299.619	**100808.277003**	2178.06	2.2	ug/L
|	Ca	43	333826.076	1.180	**92042.463795**	1620.53	1.8	ug/L
| >	Sc	45	282688.638	282688.638				ug/L
|	Ti	49	234277.411	0.828	**1909.078209**	38.37	2.0	ug/L
|	Co	59	4454.028	0.016	**1.222071**	0.04	2.9	ug/L
|	Ni	60	1535.416	0.005	**2.420518**	0.05	2.2	ug/L
|	Ni	62	988.034	0.003	**10.875218**	1.49	13.7	ug/L
|	Cu	63	2963.641	0.009	**1.427600**	0.03	2.4	ug/L
|	Cu	65	1616.091	0.005	**1.856684**	0.13	6.8	ug/L
|	Zn	66	1302.726	0.003	**2.496023**	0.19	7.5	ug/L
|	Zn	67	2278.850	0.003	**4.258801**	4.47	105.1	ug/L
|	Zn	68	514.676	0.000	**0.829999**	0.30	36.3	ug/L
|	V	51	-7561.601	-0.010	**-0.489226**	0.28	56.2	ug/L
|	Cr	52	6144.655	0.012	**1.784910**	0.09	5.2	ug/L
|	Cr	53	17398.600	0.015	**7.461472**	4.09	54.8	ug/L
|	Mn	55	30810.530	0.108	**9.289971**	0.30	3.3	ug/L
|	Fe	54	15366459.186	54.336	**101043.016807**	4020.59	4.0	ug/L
⌞	Fe	57	7269256.282	25.716	**103815.989475**	2696.05	2.6	ug/L
⌜	As	75	173.824	0.000	**0.749133**	0.27	35.6	ug/L
|	Se	77	1944.133	0.002	**19.342355**	5.93	30.7	ug/L
|	Se	82	-1.654	0.000	**2.189616**	0.25	11.3	ug/L
|	Sr	88	25865.400	0.063	**7.912322**	0.03	0.4	ug/L
| >	Y	89	410233.300	410233.300				ug/L
|	Mo	95	906445.409	2.210	**1885.889901**	57.55	3.1	ug/L
|	Mo	97	565998.285	1.380	**1889.916180**	42.81	2.3	ug/L
⌞	Mo	98	1440408.484	3.511	**1883.425183**	59.16	3.1	ug/L
⌜	Ag	107	196.668	0.001	**0.785353**	0.02	2.7	ug/L
|	Ag	109	184.668	0.001	**0.515689**	0.02	3.2	ug/L
|	Cd	111	787.688	0.004	**2.964146**	0.00	0.1	ug/L
|	Cd	114	1437.958	0.007	**2.603433**	0.07	2.8	ug/L

|>	In	115	220512.193	220512.193				ug/L
|	Sn	120	2476.104	-0.004	**0.742917**	0.06	8.5	ug/L
|	Sb	121	334.671	0.001	**1.019579**	0.03	3.0	ug/L
_	Sb	123	250.911	0.001	**1.195725**	0.02	2.0	ug/L
⌈	Ba	135	1574.753	0.005	**4.728817**	0.03	0.6	ug/L
|	Ba	137	2718.259	0.009	**4.842456**	0.05	1.0	ug/L
|	Tb	159	302293.240	-0.019				ug/L
|>	Ho	165	311284.663	311284.663				ug/L
|	Tl	203	223.335	0.001	**0.012070**	0.04	361.5	ug/L
|	Tl	205	549.344	0.002	**0.059843**	0.02	29.7	ug/L
_	Pb	208	24015.214	0.077	**8.935717**	0.33	3.6	ug/L
	Kr	83	32.467	9.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.923	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		93.779	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		89.172	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	98.335
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Saturday, February 26, 2011 17:07:49
Sample Type: Spike - 2 of 100
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1102261509MS\ICSAB.031
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25194.565	0.007				ug/L
|	Li	7	2090.820	0.001	**1.012923**	0.11	10.4	ug/L
|	Be	9	1.333	-0.000	**0.432900**	0.01	1.6	ug/L
|	B	11	651.348	0.000	**1.305305**	0.05	4.2	ug/L
|	Na	23	67492376.371	242.548	**99760.865516**	301.78	0.3	ug/L
|	Mg	24	40147425.741	144.288	**96966.961134**	2720.85	2.8	ug/L
|	Al	27	118387286.055	425.519	**101890.252704**	2033.52	2.0	ug/L
|	K	39	84750050.469	304.407	**102419.591181**	5559.92	5.4	ug/L
|	Ca	43	339042.906	1.218	**94981.823056**	2823.28	3.0	ug/L
| >	Sc	45	278210.986	278210.986				ug/L
|	Ti	49	234315.089	0.841	**1939.946204**	47.40	2.4	ug/L
|	Co	59	209547.386	0.753	**81.098994**	2.08	2.6	ug/L
|	Ni	60	42214.979	0.152	**76.756322**	2.41	3.1	ug/L
|	Ni	62	7079.087	0.025	**85.390050**	1.59	1.9	ug/L
|	Cu	63	96130.482	0.344	**74.398528**	2.25	3.0	ug/L
|	Cu	65	44910.562	0.161	**74.763922**	3.56	4.8	ug/L
|	Zn	66	12991.241	0.045	**32.891369**	1.21	3.7	ug/L
|	Zn	67	4758.126	0.012	**45.640036**	2.99	6.6	ug/L
|	Zn	68	9584.549	0.033	**35.971760**	1.27	3.5	ug/L
|	V	51	146639.898	0.544	**77.806212**	1.63	2.1	ug/L
|	Cr	52	140222.853	0.495	**77.974229**	1.04	1.3	ug/L
|	Cr	53	35172.583	0.080	**86.067205**	2.47	2.9	ug/L
|	Mn	55	291340.414	1.046	**86.838760**	0.68	0.8	ug/L
|	Fe	54	15390926.176	55.278	**102795.719746**	909.15	0.9	ug/L
⌊	Fe	57	7266901.748	26.116	**105431.165791**	925.74	0.9	ug/L
⌈	As	75	10697.759	0.026	**37.130974**	0.78	2.1	ug/L
|	Se	77	2800.941	0.004	**54.272728**	2.66	4.9	ug/L
|	Se	82	918.546	0.002	**36.822862**	1.41	3.8	ug/L
|	Sr	88	25799.999	0.063	**7.927003**	0.58	7.3	ug/L
| >	Y	89	408880.270	408880.270				ug/L
|	Mo	95	894813.236	2.191	**1869.325957**	107.16	5.7	ug/L
|	Mo	97	564412.349	1.382	**1892.888902**	116.33	6.1	ug/L
⌊	Mo	98	1425116.164	3.489	**1871.441447**	97.91	5.2	ug/L
⌈	Ag	107	23681.632	0.109	**18.865128**	1.01	5.4	ug/L
|	Ag	109	22644.614	0.104	**18.255290**	0.94	5.2	ug/L
|	Cd	111	12919.845	0.059	**39.617841**	2.15	5.4	ug/L
|	Cd	114	29783.780	0.137	**39.299360**	1.35	3.4	ug/L

|>	In	115	217847.117	217847.117				ug/L
|	Sn	120	2455.485	-0.004	**0.748825**	0.03	4.1	ug/L
|	Sb	121	292.670	0.001	**0.986872**	0.03	2.9	ug/L
_	Sb	123	240.748	0.001	**1.187802**	0.00	0.4	ug/L
⌈	Ba	135	1571.420	0.005	**4.844619**	0.08	1.7	ug/L
|	Ba	137	2627.575	0.008	**4.801704**	0.17	3.5	ug/L
|	Tb	159	296066.034	-0.015				ug/L
|>	Ho	165	303424.941	303424.941				ug/L
|	Tl	203	256.002	0.001	**0.059362**	0.02	38.8	ug/L
|	Tl	205	550.677	0.002	**0.067531**	0.01	15.6	ug/L
_	Pb	208	24492.817	0.081	**9.339084**	0.14	1.5	ug/L
	Kr	83	36.533	13.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		84.562	
Ti	49			
Co	59			99.846
Ni	60			92.920
Ni	62			93.144
Cu	63			91.214
Cu	65			91.134
Zn	66			75.988
Zn	67			103.453
Zn	68			87.854
V	51			97.869
Cr	52			95.237
Cr	53			98.257
Mn	55			96.936
Fe	54			
Fe	57			
As	75			90.955
Se	77			87.326
Se	82			86.583
Sr	88			
Y	89		93.470	
Mo	95			
Mo	97			
Mo	98			
Ag	107			90.399
Ag	109			88.698
Cd	111			91.634
Cd	114			91.740
In	115		88.095	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.852
Tl	203	
Tl	205	
Pb	208	
Kr	83	

1103030156MS
3-3-11
RD

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
8	QC Std 3		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2
308	MBLK-98367 6020-D	4	Sample
309	LCS-98367	5	Sample
310	11021075-07B As, Ba, Cd, Ca, Cr, Pb, V Ø Se, Ag	6	Sample
311	11021075-07BSD	7	Sample
312	11021075-07BMS	8	Sample
313	11021075-07BMSD	9	Sample
314	11021075-07BPDS ICPMS-110303A	10	Sample
315	11021075-07BPDSD	11	Sample
7	QC Std 4 Reviewed By		QC Std
8	QC Std 6		QC Std
316	11021075-01B KL 3/3/11	12	Sample
317	11021075-02B	13	Sample
318	11021075-03B	14	Sample
319	11021075-04B	15	Sample
320	11021075-05B	16	Sample
321	11021075-06B	17	Sample
322	11021075-08B	18	Sample
323	11021075-09B	19	Sample
324	11021075-10B	20	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	21	Sample
10	ICSAB	22	Spike - 2 of 21
343	MBLK-98428 6020-5-ALL	23	Sample
344	LCS-98428	24	Sample
345	11021095-01C Cd, Cr, Pb Ø As, Ba, Se, Ag	25	Sample
346	11021095-01CSD	26	Sample
347	11021095-01CMS	27	Sample
348	11021095-01CMSD	28	Sample
349	11021095-01CPDS	29	Sample
350	11021095-01CPDSD	30	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
351	11021095-02C	31	Sample

352	11021095-03C Cd, Cr, Pb Ø As, Ba, Se, Ag	32	Sample
353	11021095-04C	33	Sample
354	11021096-01C	34	Sample
355	11021096-02C	35	Sample
356	11021096-03C	36	Sample
357	11021096-04C	37	Sample
358	11021096-05C	38	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	39	Sample
10	ICSAB	40	Spike - 2 of 39
445	MBLK-98422 200.8	41	Sample
446	LCS-98422	42	Sample
447	11021089-01A As	43	Sample
448	11021089-01ASD	44	Sample
449	11021089-01AMS	45	Sample
450	11021089-01AMSD	46	Sample
451	11021089-01APDS ICPMS-110303B	47	Sample
452	11021089-01APDSD	48	Sample
7	QC Std 4		QC Std
8	QC Std 6 Reviewed By		QC Std
453	11021090-01A KL 3/3/11	49	Sample
454	11021091-01A	50	Sample
455	11021092-01A	51	Sample
456	11030007-01C Pb	52	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	53	Sample
10	ICSAB	54	Spike - 2 of 53
325	MBLK-98257 6020-D	55	Sample
326	LCS-98257	56	Sample
327	11020727-03B Cd, Pb, Mn, TL Ø As, Ni, Zn	57	Sample
328	11020727-03BSD	58	Sample
329	11020727-03BMS	59	Sample
330	11020727-03BMSD	60	Sample
331	11020727-03BPDS ICPMS-110303C	61	Sample
332	11020727-03BPDSD Reviewed By	62	Sample
7	QC Std 4		QC Std
8	QC Std 6 KL 3/3/11		QC Std
333	11020727-22B	63	Sample
334	11020727-32B	64	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	65	Sample
10	ICSAB	66	Spike - 2 of 65

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
8	QC Std 3		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2
308	MBLK-98367	4	Sample
309	LCS-98367	5	Sample
310	11021075-07B	6	Sample
311	11021075-07BSD	7	Sample
312	11021075-07BMS	8	Sample
313	11021075-07BMSD	9	Sample
314	11021075-07BPDS	10	Sample
315	11021075-07BPDSD	11	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
316	11021075-01B	12	Sample
317	11021075-02B	13	Sample
318	11021075-03B	14	Sample
319	11021075-04B	15	Sample
320	11021075-05B	16	Sample
321	11021075-06B	17	Sample
322	11021075-08B	18	Sample
323	11021075-09B	19	Sample
324	11021075-10B	20	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	21	Sample
10	ICSAB	22	Spike - 2 of 21
343	MBLK-98428	23	Sample
344	LCS-98428	24	Sample
345	11021095-01C	25	Sample
346	11021095-01CSD	26	Sample
347	11021095-01CMS	27	Sample
348	11021095-01CMSD	28	Sample
349	11021095-01CPDS	29	Sample
350	11021095-01CPDSD	30	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
351	11021095-02C	31	Sample

352	11021095-03C	32	Sample
353	11021095-04C	33	Sample
354	11021096-01C	34	Sample
355	11021096-02C	35	Sample
356	11021096-03C	36	Sample
357	11021096-04C	37	Sample
358	11021096-05C	38	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	39	Sample
10	ICSAB	40	Spike - 2 of 39
445	MBLK-98422	41	Sample
446	LCS-98422	42	Sample
447	11021089-01A	43	Sample
448	11021089-01ASD	44	Sample
449	11021089-01AMS	45	Sample
450	11021089-01AMSD	46	Sample
451	11021089-01APDS	47	Sample
452	11021089-01APDSD	48	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
453	11021090-01A	49	Sample
454	11021091-01A	50	Sample
455	11021092-01A	51	Sample
456	11030007-01C	52	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	53	Sample
10	ICSAB	54	Spike - 2 of 53
325	MBLK-98257	55	Sample
326	LCS-98257	56	Sample
327	11020727-03B	57	Sample
328	11020727-03BSD	58	Sample
329	11020727-03BMS	59	Sample
330	11020727-03BMSD	60	Sample
331	11020727-03BPDS	61	Sample
332	11020727-03BPDSD	62	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
333	11020727-22B	63	Sample
334	11020727-32B	64	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	65	Sample
10	ICSAB	66	Spike - 2 of 65

Quantitative Analysis - Summary Report

Sample ID: Cal Blank
Sample Date/Time: Thursday, March 03, 2011 02:03:49
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\Cal Blank.001
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	10568.732					ug/L
|	Li	7	865.360					ug/L
|	Be	9	7.333					ug/L
|	B	11	192.668					ug/L
|	Na	23	8469.185					ug/L
|	Mg	24	133.334					ug/L
|	Al	27	1068.374					ug/L
|	K	39	52697.270					ug/L
|	Ca	43	585.345					ug/L
| >	Sc	45	254310.882					ug/L
|	Ti	49	782.022					ug/L
|	Co	59	84.000					ug/L
|	Ni	60	48.667					ug/L
|	Ni	62	73.334					ug/L
|	Cu	63	270.003					ug/L
|	Cu	65	125.334					ug/L
|	Zn	66	194.668					ug/L
|	Zn	67	3797.845					ug/L
|	Zn	68	325.337					ug/L
|	V	51	-13365.316					ug/L
|	Cr	52	3602.455					ug/L
|	Cr	53	53458.208					ug/L
|	Mn	55	632.681					ug/L
|	Fe	54	10587.648					ug/L
⌞	Fe	57	1920.129					ug/L
⌜	As	75	-208.900					ug/L
|	Se	77	2972.309					ug/L
|	Se	82	-8.566					ug/L
|	Sr	88	167.334					ug/L
| >	Y	89	482734.845					ug/L
|	Mo	95	76.667					ug/L
|	Mo	97	44.000					ug/L
⌞	Mo	98	118.676					ug/L
⌜	Ag	107	7.333					ug/L
|	Ag	109	6.000					ug/L
|	Cd	111	6.000					ug/L
|	Cd	114	17.580					ug/L

|>	In	115	253305.504	ug/L
|	Sn	120	2763.397	ug/L
|	Sb	121	33.333	ug/L
\L	Sb	123	62.653	ug/L
\[	Ba	135	51.333	ug/L
|	Ba	137	121.334	ug/L
|	Tb	159	318145.717	ug/L
|>	Ho	165	312426.834	ug/L
|	Tl	203	6.667	ug/L
|	Tl	205	10.000	ug/L
\L	Pb	208	109.334	ug/L
	Kr	83	38.267	ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 1
Sample Date/Time: Thursday, March 03, 2011 02:06:29
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\Std 1.002
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10632.559	-0.000				ug/L
|	Li	7	1243.387	0.001				ug/L
|	Be	9	126.667	0.000				ug/L
|	B	11	673.349	0.002				ug/L
|	Na	23	11704.873	0.012				ug/L
|	Mg	24	2266.849	0.008				ug/L
|	Al	27	8474.181	0.029				ug/L
|	K	39	59892.042	0.026				ug/L
|	Ca	43	700.017	0.000				ug/L
| >	Sc	45	256327.532	256327.532				ug/L
|	Ti	49	809.356	0.000				ug/L
|	Co	59	2821.612	0.011				ug/L
|	Ni	60	715.351	0.003				ug/L
|	Ni	62	184.001	0.000				ug/L
|	Cu	63	1968.136	0.007				ug/L
|	Cu	65	930.697	0.003				ug/L
|	Zn	66	836.024	0.002				ug/L
|	Zn	67	4908.845	0.004				ug/L
|	Zn	68	808.023	0.002				ug/L
|	V	51	-13311.060	0.001				ug/L
|	Cr	52	6085.964	0.010				ug/L
|	Cr	53	63851.957	0.039				ug/L
|	Mn	55	4010.563	0.013				ug/L
|	Fe	54	12195.569	0.006				ug/L
⌊	Fe	57	2498.885	0.002				ug/L
⌈	As	75	478.334	0.001				ug/L
|	Se	77	3428.412	0.001				ug/L
|	Se	82	187.866	0.000				ug/L
|	Sr	88	4896.840	0.010				ug/L
| >	Y	89	472479.059	472479.059				ug/L
|	Mo	95	760.020	0.001				ug/L
|	Mo	97	524.676	0.001				ug/L
⌊	Mo	98	1317.476	0.003				ug/L
⌈	Ag	107	2082.152	0.008				ug/L
|	Ag	109	1906.127	0.007				ug/L
|	Cd	111	440.340	0.002				ug/L
|	Cd	114	1042.657	0.004				ug/L

|>	In	115	255464.868	255464.868	ug/L
|	Sn	120	4737.958	0.008	ug/L
|	Sb	121	1858.788	0.007	ug/L
L	Sb	123	1503.151	0.006	ug/L
⌈	Ba	135	682.016	0.002	ug/L
|	Ba	137	1182.716	0.003	ug/L
|	Tb	159	320272.800	-0.004	ug/L
|>	Ho	165	315857.763	315857.763	ug/L
|	Tl	203	1316.061	0.004	ug/L
|	Tl	205	3045.658	0.010	ug/L
L	Pb	208	4318.250	0.013	ug/L
	Kr	83	34.400	-3.867	ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 2
Sample Date/Time: Thursday, March 03, 2011 02:09:10
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\Std 2.003
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	10726.495	-0.001				ug/L
|	Li	7	2220.839	0.005	**5.000000**	0.39	7.8	ug/L
|	Be	9	519.343	0.002	**5.000000**	0.10	1.9	ug/L
|	B	11	999.368	0.003	**5.000000**	0.53	10.6	ug/L
|	Na	23	24120.468	0.058	**50.000000**	6.25	12.5	ug/L
|	Mg	24	12905.885	0.049	**50.000000**	6.43	12.9	ug/L
|	Al	27	36814.076	0.136	**55.000000**	1.92	3.5	ug/L
|	K	39	79923.024	0.097	**50.000000**	6.71	13.4	ug/L
|	Ca	43	778.688	0.001	**50.000000**	62.59	125.2	ug/L
| >	Sc	45	262981.646	262981.646				ug/L
|	Ti	49	1316.727	0.002	**5.000000**	0.25	5.0	ug/L
|	Co	59	12346.668	0.047	**5.000000**	0.19	3.8	ug/L
|	Ni	60	2918.965	0.011	**5.000000**	0.30	6.1	ug/L
|	Ni	62	446.674	0.001	**5.000000**	0.45	9.0	ug/L
|	Cu	63	7642.711	0.028	**5.000000**	0.08	1.6	ug/L
|	Cu	65	3692.477	0.014	**5.000000**	0.09	1.8	ug/L
|	Zn	66	2494.885	0.009	**5.000000**	0.45	8.9	ug/L
|	Zn	67	5447.705	0.006	**5.000000**	0.84	16.8	ug/L
|	Zn	68	1941.465	0.006	**5.000000**	0.19	3.8	ug/L
|	V	51	-7216.850	0.025	**5.000000**	0.91	18.2	ug/L
|	Cr	52	13573.782	0.037	**5.000000**	0.07	1.4	ug/L
|	Cr	53	68043.108	0.049	**5.000000**	2.99	59.8	ug/L
|	Mn	55	16071.037	0.059	**5.000000**	0.20	4.0	ug/L
|	Fe	54	17604.186	0.025	**50.000000**	0.52	1.0	ug/L
⌊	Fe	57	4958.194	0.011	**50.000000**	1.42	2.8	ug/L
⌜	As	75	2419.297	0.006	**5.000000**	0.53	10.6	ug/L
|	Se	77	3924.539	0.002	**25.000000**	3.49	14.0	ug/L
|	Se	82	861.686	0.002	**25.000000**	0.78	3.1	ug/L
|	Sr	88	21509.516	0.045	**5.000000**	0.11	2.2	ug/L
| >	Y	89	473451.517	473451.517				ug/L
|	Mo	95	3525.768	0.007	**5.000000**	0.13	2.7	ug/L
|	Mo	97	2044.813	0.004	**5.000000**	0.10	2.0	ug/L
⌊	Mo	98	5607.996	0.012	**5.000000**	0.10	2.1	ug/L
⌜	Ag	107	9296.357	0.036	**5.000000**	0.21	4.2	ug/L
|	Ag	109	8607.259	0.034	**5.000000**	0.15	2.9	ug/L
|	Cd	111	1986.138	0.008	**5.000000**	0.18	3.7	ug/L
|	Cd	114	4513.188	0.018	**5.000000**	0.39	7.7	ug/L

|>	In	115	256200.268	256200.268				ug/L
|	Sn	120	11813.389	0.035	**5.000000**	0.13	2.5	ug/L
|	Sb	121	8185.011	0.032	**5.000000**	0.20	4.1	ug/L
\L	Sb	123	6523.896	0.025	**5.000000**	0.23	4.7	ug/L
|	Ba	135	2486.217	0.008	**5.000000**	0.50	10.0	ug/L
|	Ba	137	4214.622	0.013	**5.000000**	0.44	8.7	ug/L
|	Tb	159	321086.754	0.006				ug/L
|>	Ho	165	313686.075	313686.075				ug/L
|	Tl	203	5735.152	0.018	**5.000000**	0.41	8.1	ug/L
|	Tl	205	13682.555	0.044	**5.000000**	0.38	7.6	ug/L
\L	Pb	208	18968.943	0.060	**5.000000**	0.35	6.9	ug/L
	Kr	83	35.133	-3.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 3
Sample Date/Time: Thursday, March 03, 2011 02:11:51
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\Std 3.004
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10559.135	-0.002				ug/L
|	Li	7	14345.868	0.051	**50.018858**	1.54	3.1	ug/L
|	Be	9	4658.760	0.018	**49.989340**	0.73	1.5	ug/L
|	B	11	5042.224	0.018	**50.022211**	2.97	5.9	ug/L
|	Na	23	44736.701	0.136	**101.894034**	4.78	4.7	ug/L
|	Mg	24	23285.648	0.087	**98.281766**	4.68	4.8	ug/L
|	Al	27	98564.064	0.368	**150.042485**	5.77	3.8	ug/L
|	K	39	104044.176	0.186	**100.085314**	2.28	2.3	ug/L
|	Ca	43	1064.040	0.002	**106.996654**	14.36	13.4	ug/L
| >	Sc	45	264639.457	264639.457				ug/L
|	Ti	49	6951.025	0.023	**50.003346**	1.99	4.0	ug/L
|	Co	59	122126.568	0.461	**50.003906**	0.92	1.8	ug/L
|	Ni	60	27195.200	0.103	**49.996676**	1.31	2.6	ug/L
|	Ni	62	4168.609	0.015	**50.035039**	2.01	4.0	ug/L
|	Cu	63	69395.607	0.261	**49.994849**	1.99	4.0	ug/L
|	Cu	65	33537.996	0.126	**49.993716**	1.28	2.6	ug/L
|	Zn	66	22058.354	0.083	**50.008224**	1.02	2.0	ug/L
|	Zn	67	8649.285	0.018	**49.924566**	1.97	3.9	ug/L
|	Zn	68	15318.884	0.057	**50.009400**	2.30	4.6	ug/L
|	V	51	85366.639	0.375	**50.035129**	1.56	3.1	ug/L
|	Cr	52	96486.879	0.350	**49.999742**	1.56	3.1	ug/L
|	Cr	53	79300.338	0.090	**49.751998**	12.97	26.1	ug/L
|	Mn	55	150102.369	0.565	**49.998209**	2.08	4.2	ug/L
|	Fe	54	25571.231	0.055	**101.313449**	4.50	4.4	ug/L
⌊	Fe	57	8301.746	0.024	**100.616005**	3.76	3.7	ug/L
⌈	As	75	22476.321	0.048	**49.986558**	1.95	3.9	ug/L
|	Se	77	9695.957	0.014	**250.043305**	1.75	0.7	ug/L
|	Se	82	8243.163	0.017	**249.982475**	6.43	2.6	ug/L
|	Sr	88	207079.688	0.439	**49.999756**	3.45	6.9	ug/L
| >	Y	89	471679.865	471679.865				ug/L
|	Mo	95	32457.499	0.069	**49.988664**	1.50	3.0	ug/L
|	Mo	97	20277.718	0.043	**50.010983**	1.96	3.9	ug/L
⌊	Mo	98	53234.583	0.113	**49.998649**	1.84	3.7	ug/L
⌈	Ag	107	89010.476	0.347	**49.996581**	2.25	4.5	ug/L
|	Ag	109	85758.678	0.334	**50.003335**	2.29	4.6	ug/L
|	Cd	111	18868.627	0.073	**49.994737**	3.08	6.2	ug/L
|	Cd	114	44192.468	0.172	**50.002115**	4.06	8.1	ug/L

|>	In	115	257051.936	257051.936				ug/L
|	Sn	120	87835.714	0.331	**49.992198**	2.26	4.5	ug/L
|	Sb	121	78239.116	0.305	**49.997032**	2.97	5.9	ug/L
|	Sb	123	60569.662	0.236	**49.992205**	2.11	4.2	ug/L
⌈	Ba	135	21619.694	0.068	**49.985957**	1.96	3.9	ug/L
|	Ba	137	37662.984	0.118	**49.992833**	2.44	4.9	ug/L
|	Tb	159	326151.536	0.005				ug/L
|>	Ho	165	318854.489	318854.489				ug/L
|	Tl	203	55408.011	0.174	**49.996109**	1.97	3.9	ug/L
|	Tl	205	131684.405	0.413	**49.993950**	3.35	6.7	ug/L
⌊	Pb	208	182164.487	0.571	**49.994674**	1.35	2.7	ug/L
	Kr	83	38.800	0.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 4
Sample Date/Time: Thursday, March 03, 2011 02:14:32
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\Std 4.005
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	9651.143	-0.004				ug/L
|	Li	7	28698.131	0.107	**100.908860**	2.87	2.8	ug/L
|	Be	9	9677.944	0.037	**101.027354**	3.54	3.5	ug/L
|	B	11	10347.751	0.039	**101.812800**	7.11	7.0	ug/L
|	Na	23	387005.894	1.455	**1000.253009**	36.40	3.6	ug/L
|	Mg	24	248476.899	0.955	**1000.369796**	47.20	4.7	ug/L
|	Al	27	770871.843	2.961	**1100.948055**	31.08	2.8	ug/L
|	K	39	594039.520	2.078	**1000.642749**	56.21	5.6	ug/L
|	Ca	43	4341.995	0.014	**999.882435**	73.29	7.3	ug/L
| >	Sc	45	260105.268	260105.268				ug/L
|	Ti	49	13386.271	0.048	**100.568845**	1.71	1.7	ug/L
|	Co	59	252396.803	0.971	**100.879491**	2.89	2.9	ug/L
|	Ni	60	56621.368	0.218	**101.046281**	4.96	4.9	ug/L
|	Ni	62	8646.616	0.033	**101.078497**	3.12	3.1	ug/L
|	Cu	63	138776.158	0.533	**100.391564**	3.32	3.3	ug/L
|	Cu	65	66925.747	0.257	**100.352996**	3.70	3.7	ug/L
|	Zn	66	41395.896	0.158	**99.344070**	2.04	2.1	ug/L
|	Zn	67	11973.017	0.031	**99.840878**	6.11	6.1	ug/L
|	Zn	68	29101.612	0.111	**99.696914**	2.03	2.0	ug/L
|	V	51	188248.371	0.776	**100.365079**	1.52	1.5	ug/L
|	Cr	52	193047.120	0.728	**100.713967**	2.61	2.6	ug/L
|	Cr	53	93616.506	0.150	**101.742490**	10.60	10.4	ug/L
|	Mn	55	306533.742	1.177	**100.721904**	3.50	3.5	ug/L
|	Fe	54	165645.581	0.596	**1000.370024**	51.36	5.1	ug/L
⌊	Fe	57	68683.415	0.257	**1000.286683**	43.30	4.3	ug/L
⌈	As	75	45043.654	0.095	**99.963108**	3.91	3.9	ug/L
|	Se	77	16221.204	0.028	**500.182600**	9.08	1.8	ug/L
|	Se	82	16909.805	0.036	**501.815098**	7.68	1.5	ug/L
|	Sr	88	418687.497	0.882	**100.108627**	0.45	0.5	ug/L
| >	Y	89	474263.095	474263.095				ug/L
|	Mo	95	65801.871	0.139	**100.182367**	1.70	1.7	ug/L
|	Mo	97	41038.195	0.086	**100.135683**	1.62	1.6	ug/L
⌊	Mo	98	106440.687	0.224	**99.940211**	3.76	3.8	ug/L
⌈	Ag	107	179883.528	0.712	**100.486296**	1.63	1.6	ug/L
|	Ag	109	173176.762	0.685	**100.451428**	1.64	1.6	ug/L
|	Cd	111	39015.539	0.154	**100.864719**	1.18	1.2	ug/L
|	Cd	114	90868.694	0.359	**100.757464**	1.63	1.6	ug/L

|>	In	115	252762.455	252762.455				ug/L
|	Sn	120	182928.311	0.713	**101.270518**	2.27	2.2	ug/L
|	Sb	121	163633.911	0.647	**101.053682**	1.87	1.9	ug/L
L	Sb	123	125941.203	0.498	**100.982849**	2.15	2.1	ug/L
⌈	Ba	135	45590.663	0.146	**101.389578**	3.69	3.6	ug/L
|	Ba	137	77529.165	0.248	**100.983042**	2.56	2.5	ug/L
|	Tb	159	318229.607	0.002				ug/L
|>	Ho	165	311755.320	311755.320				ug/L
|	Tl	203	114723.479	0.368	**101.002996**	1.05	1.0	ug/L
|	Tl	205	271916.790	0.872	**100.952396**	1.05	1.0	ug/L
L	Pb	208	379328.949	1.217	**101.098316**	1.62	1.6	ug/L
	Kr	83	40.467	2.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 5
Sample Date/Time: Thursday, March 03, 2011 02:17:12
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\Std 5.006
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	8704.734	-0.009				ug/L
	Li	7	56650.807	0.210	**199.639464**	7.57	3.8	ug/L
	Be	9	19343.090	0.073	**199.598291**	3.88	1.9	ug/L
	B	11	19806.396	0.074	**199.056210**	5.31	2.7	ug/L
	Na	23	3365915.372	12.679	**9989.014257**	534.75	5.4	ug/L
	Mg	24	2305736.319	8.707	**9992.888853**	463.39	4.6	ug/L
	Al	27	6605850.832	24.944	**10191.245497**	525.48	5.2	ug/L
	K	39	5038812.399	18.819	**9992.349893**	496.48	5.0	ug/L
	Ca	43	33382.986	0.124	**9989.180492**	46.35	0.5	ug/L
>	Sc	45	265028.682	265028.682				ug/L
	Ti	49	26678.224	0.098	**200.306487**	6.14	3.1	ug/L
	Co	59	494187.742	1.865	**198.712993**	7.67	3.9	ug/L
	Ni	60	111484.002	0.421	**198.998470**	3.95	2.0	ug/L
	Ni	62	16900.660	0.063	**198.823022**	3.03	1.5	ug/L
	Cu	63	273826.624	1.032	**198.943980**	2.51	1.3	ug/L
	Cu	65	133492.383	0.503	**199.356596**	10.42	5.2	ug/L
	Zn	66	82705.586	0.311	**199.234537**	2.44	1.2	ug/L
	Zn	67	18762.981	0.056	**198.369553**	6.54	3.3	ug/L
	Zn	68	57894.431	0.217	**199.329248**	5.65	2.8	ug/L
	V	51	398295.689	1.556	**199.923439**	5.88	2.9	ug/L
	Cr	52	373122.603	1.394	**198.565985**	4.95	2.5	ug/L
	Cr	53	112973.633	0.216	**191.473511**	16.50	8.6	ug/L
	Mn	55	613988.313	2.316	**199.608762**	10.97	5.5	ug/L
	Fe	54	1396915.263	5.235	**9989.834469**	602.53	6.0	ug/L
	Fe	57	633386.358	2.383	**9994.191457**	231.63	2.3	ug/L
	As	75	91482.098	0.200	**201.789433**	3.93	1.9	ug/L
	Se	77	29022.137	0.057	**1005.818972**	36.23	3.6	ug/L
	Se	82	33870.752	0.074	**1006.812677**	15.21	1.5	ug/L
	Sr	88	825543.776	1.796	**200.716575**	3.04	1.5	ug/L
>	Y	89	459493.447	459493.447				ug/L
	Mo	95	130572.204	0.284	**200.989121**	4.86	2.4	ug/L
	Mo	97	82316.038	0.179	**201.352363**	7.99	4.0	ug/L
	Mo	98	213474.976	0.464	**201.313564**	8.80	4.4	ug/L
	Ag	107	349177.859	1.409	**199.785697**	3.07	1.5	ug/L
	Ag	109	339435.320	1.370	**200.117923**	1.86	0.9	ug/L
	Cd	111	77558.804	0.313	**200.778207**	3.80	1.9	ug/L
	Cd	114	178432.599	0.720	**200.281606**	4.38	2.2	ug/L

|>	In	115	247779.959	247779.959				ug/L
|	Sn	120	347808.166	1.393	**199.478730**	7.05	3.5	ug/L
|	Sb	121	321824.174	1.299	**200.415270**	2.64	1.3	ug/L
\L	Sb	123	249690.937	1.008	**200.719634**	2.67	1.3	ug/L
|	Ba	135	90922.463	0.291	**200.256764**	5.55	2.8	ug/L
|	Ba	137	158551.666	0.507	**201.086719**	4.84	2.4	ug/L
|	Tb	159	320311.351	0.006				ug/L
|>	Ho	165	312719.858	312719.858				ug/L
|	Tl	203	229875.566	0.736	**200.265054**	7.23	3.6	ug/L
|	Tl	205	539304.750	1.726	**199.878934**	9.96	5.0	ug/L
\L	Pb	208	727420.491	2.328	**198.614203**	9.41	4.7	ug/L
	Kr	83	41.267	3.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

File Name: 03-03.cal
File Path: C:\Elandata\System\03-03.cal
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Li	6.015	Simple Linear	0.000000000	0.000000000	0.000000
Li	7.016	Simple Linear	0.001055103	-0.000171688	0.999896
Be	9.012	Simple Linear	0.000365592	0.000002526	0.999869
B	11.009	Simple Linear	0.000365515	0.001229076	0.999544
Na	22.990	Simple Linear	0.001264759	0.045216182	0.999888
Mg	23.985	Simple Linear	0.000869137	0.021360275	0.999953
Al	26.982	Simple Linear	0.002441238	0.064944986	0.999940
K	38.964	Simple Linear	0.001878466	0.048579835	0.999945
Ca	42.959	Simple Linear	0.000012308	0.000697063	0.999888
Sc	44.956	Simple Linear	0.000000000	0.000000000	0.000000
Ti	48.948	Simple Linear	0.000490965	-0.000708286	0.999957
Co	58.933	Simple Linear	0.009366993	0.003924065	0.999751
Ni	59.933	Simple Linear	0.002110601	0.000601957	0.999780
Ni	61.928	Simple Linear	0.000319233	0.000025243	0.999728
Cu	62.930	Simple Linear	0.005167773	0.004244781	0.999874
Cu	64.928	Simple Linear	0.002518408	0.001355123	0.999946
Zn	65.926	Simple Linear	0.001550801	0.002285016	0.999895
Zn	66.927	Simple Linear	0.000259025	0.004509860	0.999707
Zn	67.925	Simple Linear	0.001082956	0.001392367	0.999946
V	50.944	Simple Linear	0.007841456	-0.011654273	0.999979
Cr	51.941	Simple Linear	0.006990109	0.006326861	0.999742
Cr	52.941	Simple Linear	0.000895543	0.044856448	0.992184
Mn	54.938	Simple Linear	0.011605556	-0.000433759	0.999928
Fe	53.940	Simple Linear	0.000522245	0.017683759	0.999904
Fe	56.935	Simple Linear	0.000238059	0.004124939	0.999969
As	74.922	Simple Linear	0.000991897	-0.000622721	0.999689
Se	76.920	Simple Linear	0.000056119	0.000559112	0.999868
Se	81.917	Simple Linear	0.000073603	-0.000371992	0.999807
Sr	87.906	Simple Linear	0.008969459	-0.004034852	0.999949
Y	88.905	Simple Linear	0.000000000	0.000000000	0.000000
Mo	94.906	Simple Linear	0.001417740	-0.000935307	0.999901
Mo	96.906	Simple Linear	0.000893770	-0.000900253	0.999820
Mo	97.906	Simple Linear	0.002315586	-0.001781883	0.999832
Ag	106.905	Simple Linear	0.007053663	0.000193602	0.999970
Ag	108.905	Simple Linear	0.006856985	-0.002195784	0.999977
Cd	110.904	Simple Linear	0.001566553	-0.001478988	0.999864
Cd	113.904	Simple Linear	0.003606506	-0.002114125	0.999932
In	114.904	Simple Linear	0.000000000	0.000000000	0.000000
Sn	119.902	Simple Linear	0.006993624	-0.001953490	0.999797
Sb	120.904	Simple Linear	0.006506848	-0.005367986	0.999867
Sb	122.904	Simple Linear	0.005042657	-0.004631310	0.999850
Ba	134.906	Simple Linear	0.001455595	-0.000790246	0.999789
Ba	136.905	Simple Linear	0.002532670	-0.002455356	0.999788
Tb	158.925	Simple Linear	0.000000000	0.000000000	0.000000
Ho	164.930	Simple Linear	0.000000000	0.000000000	0.000000
Tl	202.972	Simple Linear	0.003684715	-0.002408163	0.999887
Tl	204.975	Simple Linear	0.008650303	-0.003011434	0.999901
Pb	207.977	Simple Linear	0.011693285	0.005189780	0.999676

Kr	82.914	Simple Linear	0.000000000	0.000000000	0.000000

Quantitative Analysis - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Thursday, March 03, 2011 02:19:53
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\QC Std 1.007
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	9643.023	-0.006				ug/L
|	Li	7	27323.450	0.097	**92.402434**	4.40	4.8	ug/L
|	Be	9	9008.841	0.033	**90.756125**	4.40	4.8	ug/L
|	B	11	9211.636	0.033	**87.434652**	1.78	2.0	ug/L
|	Na	23	1665139.678	6.106	**4791.813484**	293.48	6.1	ug/L
|	Mg	24	1123259.952	4.140	**4738.220584**	153.80	3.2	ug/L
|	Al	27	3223600.961	11.879	**4839.439358**	220.73	4.6	ug/L
|	K	39	2435175.256	8.769	**4642.310216**	207.48	4.5	ug/L
|	Ca	43	16616.326	0.059	**4730.547439**	69.29	1.5	ug/L
| >	Sc	45	271432.721	271432.721				ug/L
|	Ti	49	12658.288	0.044	**90.135800**	5.04	5.6	ug/L
|	Co	59	231835.402	0.854	**90.783002**	4.53	5.0	ug/L
|	Ni	60	51953.661	0.191	**90.356977**	3.56	3.9	ug/L
|	Ni	62	7946.209	0.029	**90.744700**	1.72	1.9	ug/L
|	Cu	63	129988.447	0.478	**91.686147**	4.13	4.5	ug/L
|	Cu	65	61129.253	0.225	**88.689198**	1.83	2.1	ug/L
|	Zn	66	38348.772	0.141	**89.151646**	3.08	3.5	ug/L
|	Zn	67	11642.078	0.028	**90.582467**	6.17	6.8	ug/L
|	Zn	68	26887.947	0.098	**89.033606**	2.27	2.6	ug/L
|	V	51	178026.353	0.708	**91.812411**	3.50	3.8	ug/L
|	Cr	52	181941.490	0.656	**92.981447**	3.57	3.8	ug/L
|	Cr	53	92875.108	0.132	**97.404602**	15.36	15.8	ug/L
|	Mn	55	288749.262	1.062	**91.547723**	5.17	5.6	ug/L
|	Fe	54	727895.588	2.642	**5024.138037**	259.01	5.2	ug/L
⌊	Fe	57	311312.670	1.140	**4772.257322**	261.14	5.5	ug/L
⌜	As	75	42874.587	0.091	**91.902333**	1.72	1.9	ug/L
|	Se	77	15459.696	0.026	**459.310397**	14.40	3.1	ug/L
|	Se	82	15638.883	0.033	**451.835056**	3.87	0.9	ug/L
|	Sr	88	385101.968	0.809	**90.649425**	1.98	2.2	ug/L
| >	Y	89	475824.632	475824.632				ug/L
|	Mo	95	59738.028	0.125	**89.110114**	2.66	3.0	ug/L
|	Mo	97	37863.460	0.079	**89.945199**	2.36	2.6	ug/L
⌊	Mo	98	98287.684	0.206	**89.874419**	2.36	2.6	ug/L
⌜	Ag	107	164425.143	0.655	**92.779781**	2.38	2.6	ug/L
|	Ag	109	157766.546	0.628	**91.924432**	1.99	2.2	ug/L
|	Cd	111	36129.298	0.144	**92.750537**	0.99	1.1	ug/L
|	Cd	114	84082.906	0.335	**93.394005**	1.41	1.5	ug/L

|>	In	115	251188.490	251188.490				ug/L
|	Sn	120	165681.677	0.649	**93.052613**	2.38	2.6	ug/L
|	Sb	121	150045.938	0.597	**92.621038**	1.89	2.0	ug/L
|	Sb	123	116459.029	0.463	**92.823227**	2.56	2.8	ug/L
⌈	Ba	135	41577.754	0.133	**92.054982**	3.39	3.7	ug/L
|	Ba	137	73132.077	0.234	**93.439388**	3.58	3.8	ug/L
|	Tb	159	316343.451	-0.004				ug/L
|>	Ho	165	311964.521	311964.521				ug/L
|	Tl	203	109140.830	0.350	**95.646998**	3.70	3.9	ug/L
|	Tl	205	254330.988	0.816	**94.649286**	3.42	3.6	ug/L
⌊	Pb	208	348384.070	1.117	**95.111483**	4.44	4.7	ug/L
	Kr	83	40.600	2.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	92.402		
Be	9	90.756		
B	11	87.435		
Na	23	95.836		
Mg	24	94.764		
Al	27	94.891		
K	39	92.846		
Ca	43	94.611		
Sc	45		106.733	
Ti	49	90.136		
Co	59	90.783		
Ni	60	90.357		
Ni	62	90.745		
Cu	63	91.686		
Cu	65	88.689		
Zn	66	89.152		
Zn	67	90.582		
Zn	68	89.034		
V	51	91.812		
Cr	52	92.981		
Cr	53	97.405		
Mn	55	91.548		
Fe	54	100.483		
Fe	57	95.445		
As	75	91.902		
Se	77	91.862		
Se	82	90.367		
Sr	88	90.649		
Y	89		98.569	
Mo	95	89.110		
Mo	97	89.945		
Mo	98	89.874		
Ag	107	92.780		
Ag	109	91.924		
Cd	111	92.751		
Cd	114	93.394		
In	115		99.164	
Sn	120	93.053		
Sb	121	92.621		

Sb	123	92.823	
Ba	135	92.055	
Ba	137	93.439	
Tb	159		
Ho	165		99.852
Tl	203	95.647	
Tl	205	94.649	
Pb	208	95.111	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Thursday, March 03, 2011 02:22:34
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\QC Std 3.008
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	10732.835	-0.001				ug/L
|	Li	7	924.030	0.000	**0.230110**	0.27	117.0	ug/L
|	Be	9	13.333	0.000	**0.051276**	0.02	44.9	ug/L
|	B	11	312.003	0.000	**-2.233522**	0.29	12.9	ug/L
|	Na	23	8302.430	-0.002	**-37.448087**	1.86	5.0	ug/L
|	Mg	24	200.002	0.000	**-24.317302**	0.42	1.7	ug/L
|	Al	27	1016.703	-0.000	**-26.757741**	0.13	0.5	ug/L
|	K	39	51292.295	-0.015	**-33.646061**	4.77	14.2	ug/L
|	Ca	43	792.022	0.001	**-1.543786**	13.67	885.4	ug/L
| >	Sc	45	266090.426	266090.426				ug/L
|	Ti	49	720.018	-0.000	**0.695280**	0.20	28.1	ug/L
|	Co	59	161.334	0.000	**-0.389436**	0.01	3.1	ug/L
|	Ni	60	72.000	0.000	**-0.247418**	0.01	5.1	ug/L
|	Ni	62	65.333	-0.000	**-0.211552**	0.08	36.5	ug/L
|	Cu	63	258.002	-0.000	**-0.838744**	0.02	2.4	ug/L
|	Cu	65	100.000	-0.000	**-0.584574**	0.01	2.5	ug/L
|	Zn	66	93.334	-0.000	**-1.739323**	0.08	4.4	ug/L
|	Zn	67	5826.522	0.007	**9.529381**	3.01	31.6	ug/L
|	Zn	68	317.337	-0.000	**-1.363497**	0.11	7.9	ug/L
|	V	51	-17170.688	-0.012	**-0.046121**	0.22	470.0	ug/L
|	Cr	52	4648.757	0.003	**-0.431294**	0.11	26.6	ug/L
|	Cr	53	74332.974	0.070	**27.548545**	18.29	66.4	ug/L
|	Mn	55	723.352	0.000	**0.057023**	0.01	17.4	ug/L
|	Fe	54	11269.332	0.001	**-32.389437**	4.02	12.4	ug/L
⌞	Fe	57	1982.804	-0.000	**-17.719481**	1.22	6.9	ug/L
⌜	As	75	65.516	0.001	**1.205563**	0.23	18.9	ug/L
|	Se	77	3787.836	0.002	**24.200818**	2.65	11.0	ug/L
|	Se	82	2.303	0.000	**5.359713**	0.12	2.3	ug/L
|	Sr	88	202.001	0.000	**0.459169**	0.01	1.2	ug/L
| >	Y	89	469080.925	469080.925				ug/L
|	Mo	95	117.334	0.000	**0.723310**	0.05	6.7	ug/L
|	Mo	97	80.667	0.000	**1.096685**	0.06	5.4	ug/L
⌞	Mo	98	201.344	0.000	**0.848376**	0.03	3.0	ug/L
⌜	Ag	107	30.000	0.000	**-0.015168**	0.00	24.5	ug/L
|	Ag	109	27.333	0.000	**0.332068**	0.01	2.1	ug/L
|	Cd	111	13.833	0.000	**0.963070**	0.01	0.7	ug/L
|	Cd	114	7.084	-0.000	**0.574503**	0.01	2.4	ug/L

|>	In	115	259080.277	259080.277				ug/L
|	Sn	120	2670.730	-0.001	**0.193222**	0.02	8.8	ug/L
|	Sb	121	550.011	0.002	**1.131987**	0.08	7.5	ug/L
|	Sb	123	466.162	0.002	**1.227155**	0.09	7.0	ug/L
⌈	Ba	135	20.667	-0.000	**0.475133**	0.02	3.8	ug/L
|	Ba	137	36.000	-0.000	**0.861101**	0.00	0.4	ug/L
|	Tb	159	320551.538	-0.004				ug/L
|>	Ho	165	315844.549	315844.549				ug/L
|	Tl	203	122.001	0.000	**0.752241**	0.03	4.6	ug/L
|	Tl	205	306.004	0.001	**0.456031**	0.04	8.5	ug/L
⌊	Pb	208	132.667	0.000	**-0.437835**	0.00	0.4	ug/L
	Kr	83	37.933	-0.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		104.632	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		97.172	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		102.280	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	101.094
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Thursday, March 03, 2011 02:25:14
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\ICSA.009
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	10580.876	-0.003				ug/L
|	Li	7	905.362	-0.000	**0.078921**	0.07	90.5	ug/L
|	Be	9	9.333	0.000	**0.008143**	0.03	394.6	ug/L
|	B	11	318.004	0.000	**-2.251767**	0.21	9.2	ug/L
|	Na	23	33737218.916	123.540	**97642.826829**	4649.08	4.8	ug/L
|	Mg	24	21669570.676	79.380	**91306.908508**	4820.42	5.3	ug/L
|	Al	27	64546723.750	236.444	**96827.455179**	5093.35	5.3	ug/L
|	K	39	46215757.859	169.102	**89995.582175**	4960.16	5.5	ug/L
|	Ca	43	294891.773	1.078	**87512.997768**	4235.87	4.8	ug/L
| >	Sc	45	273303.811	273303.811				ug/L
|	Ti	49	230086.228	0.839	**1711.055871**	53.92	3.2	ug/L
|	Co	59	4048.575	0.015	**1.130040**	0.14	12.0	ug/L
|	Ni	60	1440.739	0.005	**2.125421**	0.17	8.0	ug/L
|	Ni	62	872.027	0.003	**9.025832**	0.80	8.8	ug/L
|	Cu	63	2570.232	0.008	**0.797066**	0.19	23.4	ug/L
|	Cu	65	1480.077	0.005	**1.417513**	0.09	6.1	ug/L
|	Zn	66	1348.064	0.004	**1.216409**	0.15	12.5	ug/L
|	Zn	67	5574.422	0.005	**3.766282**	4.88	129.6	ug/L
|	Zn	68	653.348	0.001	**-0.252857**	0.32	125.2	ug/L
|	V	51	-16792.434	-0.009	**0.343888**	1.06	308.6	ug/L
|	Cr	52	6733.588	0.010	**0.594827**	0.13	22.3	ug/L
|	Cr	53	67789.853	0.038	**-7.518937**	14.98	199.2	ug/L
|	Mn	55	21707.840	0.077	**6.679661**	0.57	8.5	ug/L
|	Fe	54	13434717.347	49.187	**94150.073197**	6360.21	6.8	ug/L
⌞	Fe	57	5926087.576	21.714	**91195.540571**	7289.92	8.0	ug/L
⌜	As	75	-132.168	0.000	**0.770229**	0.30	38.8	ug/L
|	Se	77	4078.582	0.003	**39.904024**	3.08	7.7	ug/L
|	Se	82	-8.043	0.000	**5.055155**	0.15	2.9	ug/L
|	Sr	88	27104.360	0.059	**7.047075**	0.19	2.7	ug/L
| >	Y	89	455477.100	455477.100				ug/L
|	Mo	95	1124532.029	2.469	**1742.480983**	74.59	4.3	ug/L
|	Mo	97	708828.006	1.557	**1742.611803**	70.57	4.0	ug/L
⌞	Mo	98	1804488.640	3.963	**1712.157356**	75.78	4.4	ug/L
⌜	Ag	107	275.336	0.001	**0.128127**	0.01	5.9	ug/L
|	Ag	109	260.669	0.001	**0.472467**	0.02	4.0	ug/L
|	Cd	111	1151.380	0.005	**3.936425**	0.19	4.9	ug/L
|	Cd	114	2007.594	0.008	**2.841672**	0.02	0.7	ug/L

|>	In	115	244743.591	244743.591				ug/L
|	Sn	120	2738.119	0.000	**0.323285**	0.17	52.2	ug/L
|	Sb	121	448.007	0.002	**1.086313**	0.01	1.0	ug/L
L	Sb	123	367.245	0.001	**1.166402**	0.02	2.0	ug/L
⌈	Ba	135	1929.464	0.006	**4.776877**	0.11	2.3	ug/L
|	Ba	137	3487.093	0.011	**5.329855**	0.19	3.6	ug/L
|	Tb	159	307232.794	-0.011				ug/L
|>	Ho	165	305129.697	305129.697				ug/L
|	Tl	203	310.670	0.001	**0.924305**	0.03	3.0	ug/L
|	Tl	205	727.352	0.002	**0.620376**	0.02	2.8	ug/L
L	Pb	208	30097.652	0.098	**7.970784**	0.37	4.7	ug/L
	Kr	83	56.533	18.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		107.468	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		94.353	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		96.620	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	97.664
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Thursday, March 03, 2011 02:27:55
Sample Type: Spike - 2 of 2
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\ICSAB.010
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	10421.747	-0.003				ug/L
|	Li	7	934.697	0.000	**0.245785**	0.30	121.6	ug/L
|	Be	9	6.000	-0.000	**-0.024879**	0.04	159.4	ug/L
|	B	11	280.669	0.000	**-2.571295**	0.22	8.5	ug/L
|	Na	23	34381324.747	128.230	**101350.877265**	2699.41	2.7	ug/L
|	Mg	24	22806086.620	85.058	**97840.601572**	1980.34	2.0	ug/L
|	Al	27	68197408.644	254.602	**104265.611213**	7707.11	7.4	ug/L
|	K	39	49252370.154	183.463	**97640.712815**	4489.59	4.6	ug/L
|	Ca	43	299920.065	1.117	**90672.787692**	3178.07	3.5	ug/L
|	> Sc	45	268153.148	268153.148				ug/L
|	Ti	49	232257.048	0.864	**1760.343301**	87.58	5.0	ug/L
|	Co	59	185468.321	0.692	**73.421454**	2.51	3.4	ug/L
|	Ni	60	41078.322	0.153	**72.236577**	2.42	3.3	ug/L
|	Ni	62	6780.278	0.025	**78.241485**	4.02	5.1	ug/L
|	Cu	63	99085.220	0.369	**70.516946**	2.94	4.2	ug/L
|	Cu	65	48111.564	0.179	**70.540180**	2.40	3.4	ug/L
|	Zn	66	16250.595	0.060	**37.119727**	2.49	6.7	ug/L
|	Zn	67	7811.469	0.014	**37.447273**	4.24	11.3	ug/L
|	Zn	68	10589.262	0.038	**34.028948**	2.33	6.8	ug/L
|	V	51	140669.712	0.578	**75.149855**	4.14	5.5	ug/L
|	Cr	52	144046.841	0.523	**73.969672**	3.50	4.7	ug/L
|	Cr	53	82402.324	0.097	**58.478782**	10.63	18.2	ug/L
|	Mn	55	249767.905	0.930	**80.145220**	4.29	5.3	ug/L
|	Fe	54	13586586.889	50.673	**96995.135552**	5998.94	6.2	ug/L
⌞	Fe	57	6071182.853	22.646	**95111.443401**	3662.02	3.9	ug/L
⌜	As	75	14837.243	0.033	**34.382867**	1.46	4.3	ug/L
|	Se	77	4875.499	0.005	**73.692824**	3.09	4.2	ug/L
|	Se	82	1188.006	0.003	**41.251974**	1.86	4.5	ug/L
|	Sr	88	27848.458	0.062	**7.329646**	0.40	5.4	ug/L
|	> Y	89	449425.278	449425.278				ug/L
|	Mo	95	1136487.214	2.532	**1786.269282**	80.59	4.5	ug/L
|	Mo	97	722483.111	1.609	**1801.496222**	76.46	4.2	ug/L
⌞	Mo	98	1810244.290	4.031	**1741.728061**	62.09	3.6	ug/L
⌜	Ag	107	30696.279	0.125	**17.747588**	0.62	3.5	ug/L
|	Ag	109	29642.065	0.121	**17.983049**	0.89	4.9	ug/L
|	Cd	111	15138.185	0.062	**40.413893**	1.66	4.1	ug/L
|	Cd	114	34422.172	0.141	**39.555691**	1.07	2.7	ug/L

|>	In	115	244926.492	244926.492				ug/L
|	Sn	120	2628.739	-0.000	**0.254334**	0.04	15.1	ug/L
|	Sb	121	398.672	0.001	**1.055349**	0.02	2.4	ug/L
L	Sb	123	346.992	0.001	**1.150568**	0.02	1.7	ug/L
⌈	Ba	135	2120.157	0.007	**5.354336**	0.13	2.4	ug/L
|	Ba	137	3523.768	0.012	**5.517946**	0.15	2.7	ug/L
|	Tb	159	298994.021	-0.008				ug/L
|>	Ho	165	295915.984	295915.984				ug/L
|	Tl	203	311.337	0.001	**0.933472**	0.02	1.8	ug/L
|	Tl	205	722.018	0.002	**0.626689**	0.02	4.0	ug/L
L	Pb	208	30962.490	0.104	**8.480502**	0.40	4.7	ug/L
	Kr	83	57.200	18.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		105.443	
Ti	49			
Co	59			90.364
Ni	60			87.639
Ni	62			86.520
Cu	63			87.150
Cu	65			86.403
Zn	66			89.758
Zn	67			84.202
Zn	68			85.705
V	51			93.507
Cr	52			91.719
Cr	53			82.497
Mn	55			91.832
Fe	54			
Fe	57			
As	75			84.032
Se	77			84.472
Se	82			90.492
Sr	88			
Y	89		93.100	
Mo	95			
Mo	97			
Mo	98			
Ag	107			88.097
Ag	109			87.553
Cd	111			91.194
Cd	114			91.785
In	115		96.692	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	94.715
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, March 03, 2011 05:08:56
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\QC Std 4.070
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10114.977	-0.004				ug/L
|	Li	7	29897.923	0.109	**103.181100**	5.63	5.5	ug/L
|	Be	9	9014.844	0.034	**92.357092**	4.65	5.0	ug/L
|	B	11	9062.874	0.033	**87.491572**	3.53	4.0	ug/L
|	Na	23	2005508.245	7.488	**5885.041691**	374.68	6.4	ug/L
|	Mg	24	1292314.568	4.846	**5550.557189**	340.61	6.1	ug/L
|	Al	27	4032457.404	15.116	**6165.286573**	347.75	5.6	ug/L
|	K	39	2594709.820	9.528	**5046.468592**	396.05	7.8	ug/L
|	Ca	43	17229.054	0.062	**5005.432890**	314.96	6.3	ug/L
| >	Sc	45	267115.221	267115.221				ug/L
|	Ti	49	12630.252	0.044	**91.517052**	1.36	1.5	ug/L
|	Co	59	227073.714	0.851	**90.464545**	5.75	6.4	ug/L
|	Ni	60	50699.810	0.190	**89.679314**	4.34	4.8	ug/L
|	Ni	62	7356.562	0.027	**85.325507**	2.04	2.4	ug/L
|	Cu	63	125664.000	0.470	**90.041253**	1.41	1.6	ug/L
|	Cu	65	61257.843	0.229	**90.360057**	2.06	2.3	ug/L
|	Zn	66	41001.697	0.153	**97.057553**	7.88	8.1	ug/L
|	Zn	67	10301.049	0.024	**73.849522**	1.95	2.6	ug/L
|	Zn	68	28735.753	0.106	**96.782028**	8.23	8.5	ug/L
|	V	51	183201.125	0.739	**95.765045**	4.78	5.0	ug/L
|	Cr	52	179736.408	0.660	**93.444609**	4.10	4.4	ug/L
|	Cr	53	73408.059	0.065	**22.261022**	21.24	95.4	ug/L
|	Mn	55	290337.493	1.086	**93.606574**	4.42	4.7	ug/L
|	Fe	54	725561.991	2.678	**5094.452958**	242.82	4.8	ug/L
⌊	Fe	57	307369.898	1.145	**4793.965502**	322.78	6.7	ug/L
⌈	As	75	39984.355	0.091	**92.362647**	6.57	7.1	ug/L
|	Se	77	14221.743	0.026	**453.822184**	6.26	1.4	ug/L
|	Se	82	14678.890	0.033	**456.893849**	25.37	5.6	ug/L
|	Sr	88	366356.237	0.829	**92.892027**	4.50	4.8	ug/L
| >	Y	89	441927.592	441927.592				ug/L
|	Mo	95	57115.967	0.129	**91.742911**	2.86	3.1	ug/L
|	Mo	97	35552.853	0.080	**90.933702**	1.40	1.5	ug/L
⌊	Mo	98	92217.831	0.208	**90.780843**	0.14	0.1	ug/L
⌈	Ag	107	157788.074	0.646	**91.535622**	0.76	0.8	ug/L
|	Ag	109	155761.348	0.638	**93.312811**	2.03	2.2	ug/L
|	Cd	111	35627.211	0.146	**94.038888**	2.37	2.5	ug/L
|	Cd	114	82226.429	0.337	**93.921033**	3.15	3.4	ug/L

|>	In	115	244303.380	244303.380				ug/L
|	Sn	120	163655.200	0.659	**94.518483**	1.68	1.8	ug/L
|	Sb	121	149876.783	0.613	**95.106702**	1.88	2.0	ug/L
L	Sb	123	115703.563	0.473	**94.810257**	2.82	3.0	ug/L
⌈	Ba	135	39733.197	0.134	**92.481130**	3.11	3.4	ug/L
|	Ba	137	68895.068	0.232	**92.538764**	1.76	1.9	ug/L
|	Tb	159	299205.365	-0.010				ug/L
|>	Ho	165	296624.246	296624.246				ug/L
|	Tl	203	108197.558	0.365	**99.652471**	1.66	1.7	ug/L
|	Tl	205	255353.158	0.861	**99.871232**	2.05	2.0	ug/L
L	Pb	208	347720.845	1.172	**99.800653**	2.77	2.8	ug/L
	Kr	83	37.467	-0.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	103.181		
Be	9	92.357		
B	11	87.492		
Na	23	117.701		
Mg	24	111.011		
Al	27	120.888		
K	39	100.929		
Ca	43	100.109		
Sc	45		105.035	
Ti	49	91.517		
Co	59	90.465		
Ni	60	89.679		
Ni	62	85.326		
Cu	63	90.041		
Cu	65	90.360		
Zn	66	97.058		
Zn	67	73.850		
Zn	68	96.782		
V	51	95.765		
Cr	52	93.445		
Cr	53	22.261		
Mn	55	93.607		
Fe	54	101.889		
Fe	57	95.879		
As	75	92.363		
Se	77	90.764		
Se	82	91.379		
Sr	88	92.892		
Y	89		91.547	
Mo	95	91.743		
Mo	97	90.934		
Mo	98	90.781		
Ag	107	91.536		
Ag	109	93.313		
Cd	111	94.039		
Cd	114	93.921		
In	115		96.446	
Sn	120	94.518		
Sb	121	95.107		

Sb	123	94.810	
Ba	135	92.481	
Ba	137	92.539	
Tb	159		
Ho	165		94.942
Tl	203	99.652	
Tl	205	99.871	
Pb	208	99.801	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, March 03, 2011 05:11:36
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\QC Std 6.071
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	10827.691	0.000				ug/L
|	Li	7	1006.035	0.000	**0.615083**	0.12	20.1	ug/L
|	Be	9	10.000	0.000	**0.019449**	0.04	183.5	ug/L
|	B	11	423.340	0.001	**-0.966342**	0.44	45.8	ug/L
|	Na	23	15508.422	0.027	**-14.787163**	2.24	15.2	ug/L
|	Mg	24	600.013	0.002	**-22.520263**	0.42	1.9	ug/L
|	Al	27	1408.404	0.001	**-26.097264**	0.36	1.4	ug/L
|	K	39	49887.010	-0.015	**-33.740200**	4.27	12.7	ug/L
|	Ca	43	620.013	0.000	**-49.462927**	10.59	21.4	ug/L
| >	Sc	45	259339.307	259339.307				ug/L
|	Ti	49	552.011	-0.001	**-0.486246**	0.30	61.1	ug/L
|	Co	59	141.334	0.000	**-0.395949**	0.01	2.2	ug/L
|	Ni	60	84.000	0.000	**-0.222350**	0.01	6.1	ug/L
|	Ni	62	62.667	-0.000	**-0.226012**	0.18	79.2	ug/L
|	Cu	63	241.335	-0.000	**-0.846725**	0.01	1.6	ug/L
|	Cu	65	86.667	-0.000	**-0.601138**	0.01	1.3	ug/L
|	Zn	66	454.674	0.001	**-0.835814**	0.11	13.6	ug/L
|	Zn	67	4884.836	0.004	**-2.355263**	2.65	112.5	ug/L
|	Zn	68	550.677	0.001	**-0.506801**	0.11	22.6	ug/L
|	V	51	-15121.689	-0.006	**0.749201**	0.49	65.6	ug/L
|	Cr	52	4181.945	0.002	**-0.624767**	0.02	2.6	ug/L
|	Cr	53	62431.596	0.030	**-16.050022**	8.21	51.2	ug/L
|	Mn	55	776.688	0.001	**0.081196**	0.02	26.8	ug/L
|	Fe	54	10674.038	-0.000	**-34.780422**	1.87	5.4	ug/L
⌊	Fe	57	1993.473	0.000	**-16.751896**	1.47	8.8	ug/L
⌜	As	75	82.325	0.001	**1.251812**	0.29	23.1	ug/L
|	Se	77	3307.717	0.001	**15.746774**	7.14	45.4	ug/L
|	Se	82	1.320	0.000	**5.336738**	0.14	2.7	ug/L
|	Sr	88	220.002	0.000	**0.467630**	0.01	1.7	ug/L
| >	Y	89	435310.219	435310.219				ug/L
|	Mo	95	101.334	0.000	**0.712391**	0.04	5.8	ug/L
|	Mo	97	60.000	0.000	**1.059650**	0.03	2.4	ug/L
⌊	Mo	98	161.270	0.000	**0.823796**	0.04	4.6	ug/L
⌜	Ag	107	27.333	0.000	**-0.015871**	0.01	42.5	ug/L
|	Ag	109	25.333	0.000	**0.331710**	0.01	1.7	ug/L
|	Cd	111	11.000	0.000	**0.957184**	0.01	0.7	ug/L
|	Cd	114	15.312	-0.000	**0.584229**	0.03	4.9	ug/L

|>	In	115	248893.383	248893.383				ug/L
|	Sn	120	2661.369	-0.000	**0.248514**	0.07	26.7	ug/L
|	Sb	121	498.675	0.002	**1.112223**	0.03	3.0	ug/L
L	Sb	123	392.574	0.001	**1.182065**	0.04	3.5	ug/L
⌈	Ba	135	34.000	-0.000	**0.510451**	0.02	4.3	ug/L
|	Ba	137	55.333	-0.000	**0.891485**	0.02	2.2	ug/L
|	Tb	159	294559.175	-0.005				ug/L
|>	Ho	165	290795.633	290795.633				ug/L
|	Tl	203	106.667	0.000	**0.747008**	0.03	4.4	ug/L
|	Tl	205	213.335	0.001	**0.429015**	0.04	8.4	ug/L
L	Pb	208	133.334	0.000	**-0.434528**	0.00	0.8	ug/L
	Kr	83	35.733	-2.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		101.977	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		90.176	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		98.258	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	93.076
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Thursday, March 03, 2011 05:14:18
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\ICSA.072
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10275.003	-0.001				ug/L
|	Li	7	959.366	0.000	**0.533003**	0.10	18.4	ug/L
|	Be	9	8.667	0.000	**0.008022**	0.05	677.2	ug/L
|	B	11	426.006	0.001	**-0.828784**	0.44	53.0	ug/L
|	Na	23	36008997.589	142.298	**112474.215309**	3405.57	3.0	ug/L
|	Mg	24	23251222.032	91.922	**105737.820752**	1349.99	1.3	ug/L
|	Al	27	72056273.091	284.827	**116646.736380**	2360.65	2.0	ug/L
|	K	39	46088791.491	181.995	**96859.222934**	1713.89	1.8	ug/L
|	Ca	43	283284.139	1.117	**90732.956011**	1890.06	2.1	ug/L
| >	Sc	45	252954.729	252954.729				ug/L
|	Ti	49	220103.379	0.867	**1767.243973**	65.99	3.7	ug/L
|	Co	59	3869.859	0.015	**1.178791**	0.10	8.6	ug/L
|	Ni	60	1309.393	0.005	**2.077226**	0.08	3.6	ug/L
|	Ni	62	745.353	0.003	**8.243999**	0.51	6.2	ug/L
|	Cu	63	2305.519	0.008	**0.736729**	0.04	5.6	ug/L
|	Cu	65	1312.060	0.005	**1.325135**	0.09	7.0	ug/L
|	Zn	66	1452.074	0.005	**1.737312**	0.35	20.2	ug/L
|	Zn	67	4840.821	0.004	**-1.187911**	2.73	229.7	ug/L
|	Zn	68	774.688	0.002	**0.364242**	0.46	126.0	ug/L
|	V	51	-15342.684	-0.008	**0.455925**	0.53	116.4	ug/L
|	Cr	52	6318.731	0.011	**0.641651**	0.08	12.9	ug/L
|	Cr	53	58351.611	0.020	**-27.201982**	4.89	18.0	ug/L
|	Mn	55	20864.561	0.080	**6.930776**	0.12	1.8	ug/L
|	Fe	54	13162838.733	51.982	**99502.236803**	4245.71	4.3	ug/L
⌊	Fe	57	5840551.144	23.080	**96934.407326**	1774.72	1.8	ug/L
⌈	As	75	128.544	0.001	**1.360607**	0.24	17.8	ug/L
|	Se	77	3537.772	0.002	**24.996894**	3.06	12.3	ug/L
|	Se	82	-4.472	0.000	**5.155804**	0.06	1.2	ug/L
|	Sr	88	25942.209	0.059	**7.048744**	0.12	1.7	ug/L
| >	Y	89	435718.427	435718.427				ug/L
|	Mo	95	1070030.162	2.456	**1732.650742**	25.01	1.4	ug/L
|	Mo	97	675621.476	1.550	**1735.678444**	31.57	1.8	ug/L
⌊	Mo	98	1670308.700	3.833	**1656.118292**	25.59	1.5	ug/L
⌈	Ag	107	301.337	0.001	**0.150761**	0.02	13.1	ug/L
|	Ag	109	201.335	0.001	**0.442508**	0.01	2.8	ug/L
|	Cd	111	1019.703	0.004	**3.711219**	0.07	2.0	ug/L
|	Cd	114	1913.272	0.008	**2.834944**	0.08	2.7	ug/L

|>	In	115	233907.063	233907.063				ug/L
|	Sn	120	2600.717	0.000	**0.311091**	0.11	36.3	ug/L
|	Sb	121	460.007	0.002	**1.107004**	0.02	1.6	ug/L
_	Sb	123	358.825	0.001	**1.173949**	0.03	2.3	ug/L
⌜	Ba	135	1872.123	0.006	**4.934620**	0.16	3.3	ug/L
|	Ba	137	3276.376	0.011	**5.347595**	0.07	1.4	ug/L
|	Tb	159	285451.475	-0.018				ug/L
|>	Ho	165	285448.887	285448.887				ug/L
|	Tl	203	292.003	0.001	**0.925368**	0.02	1.9	ug/L
|	Tl	205	682.016	0.002	**0.620559**	0.02	3.6	ug/L
_	Pb	208	30067.745	0.105	**8.535277**	0.12	1.4	ug/L
	Kr	83	51.800	13.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		99.467	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		90.260	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		92.342	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	91.365
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Thursday, March 03, 2011 05:16:58
Sample Type: Spike - 2 of 53
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\ICSAB.073
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	10183.787	-0.000				ug/L
|	Li	7	932.030	0.000	**0.517465**	0.31	59.5	ug/L
|	Be	9	6.000	-0.000	**-0.019080**	0.02	120.9	ug/L
|	B	11	409.339	0.001	**-0.904671**	0.41	45.4	ug/L
|	Na	23	38071877.074	154.160	**121853.034379**	5095.51	4.2	ug/L
|	Mg	24	24027841.261	97.323	**111951.887728**	5400.07	4.8	ug/L
|	Al	27	72869380.181	295.130	**120866.892441**	6608.67	5.5	ug/L
|	K	39	45707892.388	184.929	**98420.981572**	5118.82	5.2	ug/L
|	Ca	43	283031.142	1.143	**92783.761878**	3199.44	3.4	ug/L
| >	Sc	45	247088.798	247088.798				ug/L
|	Ti	49	219874.517	0.887	**1808.282982**	36.70	2.0	ug/L
|	Co	59	173036.409	0.700	**74.326817**	1.08	1.4	ug/L
|	Ni	60	39064.034	0.158	**74.526542**	0.44	0.6	ug/L
|	Ni	62	6497.483	0.026	**81.328599**	4.57	5.6	ug/L
|	Cu	63	91106.031	0.368	**70.295545**	1.56	2.2	ug/L
|	Cu	65	44143.011	0.178	**70.147060**	3.44	4.9	ug/L
|	Zn	66	15807.411	0.063	**39.298527**	1.18	3.0	ug/L
|	Zn	67	6919.012	0.013	**33.104658**	6.70	20.2	ug/L
|	Zn	68	10491.855	0.041	**36.748967**	1.48	4.0	ug/L
|	V	51	132336.387	0.588	**76.517449**	1.61	2.1	ug/L
|	Cr	52	137519.444	0.543	**76.737887**	2.81	3.7	ug/L
|	Cr	53	74747.806	0.092	**53.030065**	7.55	14.2	ug/L
|	Mn	55	246179.716	0.994	**85.712892**	2.39	2.8	ug/L
|	Fe	54	13469418.824	54.509	**104341.431885**	4308.58	4.1	ug/L
⌞	Fe	57	5859469.013	23.711	**99583.701996**	1108.62	1.1	ug/L
⌜	As	75	14352.518	0.034	**34.873088**	0.44	1.3	ug/L
|	Se	77	4467.366	0.004	**66.464868**	10.88	16.4	ug/L
|	Se	82	1093.394	0.003	**40.047055**	2.47	6.2	ug/L
|	Sr	88	26016.337	0.060	**7.190518**	0.19	2.6	ug/L
| >	Y	89	428081.870	428081.870				ug/L
|	Mo	95	1070258.456	2.501	**1764.783341**	48.70	2.8	ug/L
|	Mo	97	669028.401	1.564	**1750.779475**	77.41	4.4	ug/L
⌞	Mo	98	1704554.063	3.984	**1721.411683**	60.66	3.5	ug/L
⌜	Ag	107	28670.078	0.122	**17.222477**	0.51	2.9	ug/L
|	Ag	109	27850.467	0.118	**17.559684**	0.67	3.8	ug/L
|	Cd	111	14115.140	0.060	**39.184316**	1.67	4.3	ug/L
|	Cd	114	33074.349	0.140	**39.491907**	0.64	1.6	ug/L

|>	In	115	235640.832	235640.832				ug/L
|	Sn	120	2738.084	0.001	**0.381183**	0.04	11.6	ug/L
|	Sb	121	388.005	0.002	**1.057897**	0.02	2.0	ug/L
L	Sb	123	334.242	0.001	**1.150727**	0.02	1.7	ug/L
⌈	Ba	135	1945.466	0.007	**5.202725**	0.25	4.8	ug/L
|	Ba	137	3355.061	0.012	**5.545633**	0.10	1.8	ug/L
|	Tb	159	282261.453	-0.010				ug/L
|>	Ho	165	280155.108	280155.108				ug/L
|	Tl	203	283.336	0.001	**0.922462**	0.03	3.6	ug/L
|	Tl	205	740.019	0.003	**0.649936**	0.02	2.4	ug/L
L	Pb	208	31272.120	0.111	**9.073285**	0.25	2.8	ug/L
	Kr	83	49.200	10.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		97.160	
Ti	49			
Co	59			91.435
Ni	60			90.562
Ni	62			91.356
Cu	63			86.949
Cu	65			86.027
Zn	66			93.903
Zn	67			85.731
Zn	68			90.962
V	51			95.077
Cr	52			95.120
Cr	53			100.290
Mn	55			98.478
Fe	54			
Fe	57			
As	75			83.781
Se	77			103.670
Se	82			87.228
Sr	88			
Y	89		88.678	
Mo	95			
Mo	97			
Mo	98			
Ag	107			85.359
Ag	109			85.586
Cd	111			88.683
Cd	114			91.642
In	115		93.026	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	89.671
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: MBLK-98257
Sample Date/Time: Thursday, March 03, 2011 05:19:40
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\MBLK-98257.074
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10683.354	0.002				ug/L
|	Li	7	942.031	0.000	**0.557769**	0.25	45.4	ug/L
|	Be	9	5.333	-0.000	**-0.026383**	0.07	256.8	ug/L
|	B	11	388.672	0.001	**-1.132654**	0.61	54.1	ug/L
|	Na	23	22284.554	0.057	**9.474408**	16.26	171.6	ug/L
|	Mg	24	4634.137	0.018	**-3.504143**	7.33	209.3	ug/L
|	Al	27	21765.503	0.084	**7.886430**	9.00	114.2	ug/L
|	K	39	56445.202	0.022	**-14.342277**	12.05	84.0	ug/L
|	Ca	43	850.692	0.001	**36.550772**	17.21	47.1	ug/L
| >	Sc	45	246813.168	246813.168				ug/L
|	Ti	49	762.687	0.000	**1.475202**	0.18	12.4	ug/L
|	Co	59	172.001	0.000	**-0.379519**	0.03	7.0	ug/L
|	Ni	60	1948.800	0.008	**3.364301**	0.14	4.1	ug/L
|	Ni	62	344.004	0.001	**3.382423**	0.17	4.9	ug/L
|	Cu	63	248.002	-0.000	**-0.832291**	0.01	1.3	ug/L
|	Cu	65	124.001	0.000	**-0.534369**	0.02	3.3	ug/L
|	Zn	66	1833.451	0.007	**2.821904**	0.32	11.2	ug/L
|	Zn	67	6597.524	0.012	**28.131589**	2.56	9.1	ug/L
|	Zn	68	1553.418	0.005	**3.345722**	0.22	6.6	ug/L
|	V	51	-21056.505	-0.033	**-2.681828**	1.99	74.2	ug/L
|	Cr	52	6387.429	0.012	**0.770872**	0.13	16.5	ug/L
|	Cr	53	79961.098	0.114	**76.837840**	19.85	25.8	ug/L
|	Mn	55	950.032	0.001	**0.154682**	0.01	8.5	ug/L
|	Fe	54	13292.088	0.012	**-10.357490**	10.37	100.1	ug/L
⌊	Fe	57	3229.034	0.006	**5.980294**	6.67	111.6	ug/L
⌈	As	75	-142.039	0.000	**0.724653**	0.47	65.1	ug/L
|	Se	77	4672.765	0.005	**77.926160**	7.97	10.2	ug/L
|	Se	82	1.531	0.000	**5.348121**	0.30	5.5	ug/L
|	Sr	88	432.673	0.001	**0.525751**	0.01	1.1	ug/L
| >	Y	89	421379.865	421379.865				ug/L
|	Mo	95	841.358	0.002	**1.956066**	0.20	10.3	ug/L
|	Mo	97	578.012	0.001	**2.441391**	0.32	13.1	ug/L
⌊	Mo	98	1368.004	0.003	**2.066332**	0.31	15.2	ug/L
⌈	Ag	107	24.000	0.000	**-0.017435**	0.00	28.3	ug/L
|	Ag	109	14.667	0.000	**0.325675**	0.01	1.7	ug/L
|	Cd	111	12.667	0.000	**0.962455**	0.02	2.0	ug/L
|	Cd	114	24.606	0.000	**0.595227**	0.01	1.5	ug/L

|>	In	115	242061.679	242061.679				ug/L
|	Sn	120	2463.317	-0.001	**0.174481**	0.01	4.4	ug/L
|	Sb	121	76.000	0.000	**0.852830**	0.02	2.0	ug/L
L	Sb	123	102.401	0.000	**0.953135**	0.02	2.0	ug/L
⌈	Ba	135	237.335	0.001	**0.998342**	0.07	7.0	ug/L
|	Ba	137	453.341	0.001	**1.440061**	0.04	2.6	ug/L
|	Tb	159	285695.002	-0.022				ug/L
|>	Ho	165	286689.508	286689.508				ug/L
|	Tl	203	11.333	0.000	**0.658558**	0.00	0.8	ug/L
|	Tl	205	22.667	0.000	**0.353550**	0.00	0.8	ug/L
L	Pb	208	162.667	0.000	**-0.425271**	0.00	1.0	ug/L
	Kr	83	34.333	-3.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		97.052	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		87.290	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		95.561	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	91.762
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: LCS-98257
Sample Date/Time: Thursday, March 03, 2011 05:22:21
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\LCS-98257.075
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	9609.584	-0.004				ug/L
|	Li	7	27266.005	0.104	**98.440578**	3.39	3.4	ug/L
|	Be	9	8187.682	0.032	**87.887025**	4.65	5.3	ug/L
|	B	11	8253.052	0.032	**83.254431**	3.78	4.5	ug/L
|	Na	23	1885245.915	7.371	**5791.944696**	312.97	5.4	ug/L
|	Mg	24	1227472.423	4.821	**5522.264028**	255.81	4.6	ug/L
|	Al	27	3763590.245	14.778	**6026.706235**	163.56	2.7	ug/L
|	K	39	2303249.265	8.840	**4680.283799**	278.50	6.0	ug/L
|	Ca	43	15344.245	0.058	**4653.081100**	228.75	4.9	ug/L
|>	Sc	45	254652.127	254652.127				ug/L
|	Ti	49	11259.770	0.041	**85.233811**	0.76	0.9	ug/L
|	Co	59	203168.168	0.798	**84.731556**	2.16	2.5	ug/L
|	Ni	60	46779.828	0.184	**86.669891**	2.33	2.7	ug/L
|	Ni	62	6844.309	0.027	**83.206320**	4.02	4.8	ug/L
|	Cu	63	112930.025	0.442	**84.786852**	1.09	1.3	ug/L
|	Cu	65	54218.870	0.212	**83.788660**	3.49	4.2	ug/L
|	Zn	66	36133.663	0.141	**89.523512**	1.87	2.1	ug/L
|	Zn	67	11852.915	0.032	**104.633695**	0.82	0.8	ug/L
|	Zn	68	24790.828	0.096	**87.424713**	0.37	0.4	ug/L
|	V	51	154262.756	0.658	**85.426771**	2.07	2.4	ug/L
|	Cr	52	165443.142	0.635	**90.000249**	2.23	2.5	ug/L
|	Cr	53	102172.793	0.191	**163.285057**	11.10	6.8	ug/L
|	Mn	55	268483.839	1.052	**90.678054**	1.89	2.1	ug/L
|	Fe	54	647749.874	2.502	**4756.877762**	50.03	1.1	ug/L
⌊	Fe	57	277138.064	1.081	**4522.793095**	74.68	1.7	ug/L
⌈	As	75	35822.698	0.085	**86.336298**	4.73	5.5	ug/L
|	Se	77	14987.858	0.029	**511.296858**	12.24	2.4	ug/L
|	Se	82	13353.236	0.032	**433.798690**	8.42	1.9	ug/L
|	Sr	88	342035.387	0.808	**90.491084**	2.68	3.0	ug/L
|>	Y	89	423338.946	423338.946				ug/L
|	Mo	95	51952.325	0.123	**87.121737**	2.43	2.8	ug/L
|	Mo	97	32836.369	0.077	**87.691305**	1.29	1.5	ug/L
⌊	Mo	98	85907.963	0.203	**88.316277**	2.11	2.4	ug/L
⌈	Ag	107	145718.292	0.618	**87.619945**	2.35	2.7	ug/L
|	Ag	109	145221.822	0.616	**90.178229**	2.15	2.4	ug/L
|	Cd	111	33384.972	0.142	**91.353614**	2.45	2.7	ug/L
|	Cd	114	77874.674	0.330	**92.176632**	1.07	1.2	ug/L

|>	In	115	235720.053	235720.053				ug/L
|	Sn	120	153482.829	0.640	**91.841456**	3.00	3.3	ug/L
|	Sb	121	139512.093	0.592	**91.778779**	2.55	2.8	ug/L
|	Sb	123	108658.581	0.461	**92.307335**	3.99	4.3	ug/L
|	Ba	135	37069.366	0.132	**91.304248**	3.38	3.7	ug/L
|	Ba	137	63845.698	0.227	**90.782813**	3.94	4.3	ug/L
|	Tb	159	282859.382	-0.009				ug/L
|>	Ho	165	280477.305	280477.305				ug/L
|	Tl	203	102291.824	0.365	**99.678703**	3.77	3.8	ug/L
|	Tl	205	243927.426	0.870	**100.908658**	3.96	3.9	ug/L
|	Pb	208	338642.081	1.208	**102.867360**	3.97	3.9	ug/L
	Kr	83	39.533	1.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		100.134	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		87.696	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		93.058	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	89.774
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-03B
Sample Date/Time: Thursday, March 03, 2011 05:25:02
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\11020727-03B.076
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	10390.798	-0.001				ug/L
|	Li	7	6658.886	0.023	**21.829436**	1.61	7.4	ug/L
|	Be	9	9.333	0.000	**0.014436**	0.02	153.3	ug/L
|	B	11	3309.718	0.012	**30.251223**	2.29	7.6	ug/L
|	Na	23	16903425.989	66.668	**52676.522192**	4503.38	8.5	ug/L
|	Mg	24	1171560.781	4.624	**5295.241368**	508.96	9.6	ug/L
|	Al	27	16187.510	0.060	**-2.177361**	1.64	75.5	ug/L
|	K	39	328367.208	1.088	**553.215327**	42.66	7.7	ug/L
|	Ca	43	31649.692	0.122	**9895.087102**	469.28	4.7	ug/L
| >	Sc	45	253869.687	253869.687				ug/L
|	Ti	49	755.353	-0.000	**1.248867**	0.58	46.7	ug/L
|	Co	59	249.336	0.001	**-0.349150**	0.01	2.7	ug/L
|	Ni	60	924.697	0.003	**1.350200**	0.02	1.6	ug/L
|	Ni	62	160.001	0.000	**0.994567**	0.15	15.0	ug/L
|	Cu	63	920.696	0.003	**-0.324992**	0.04	12.5	ug/L
|	Cu	65	310.670	0.001	**-0.247088**	0.04	15.6	ug/L
|	Zn	66	1293.392	0.004	**1.318287**	0.18	13.4	ug/L
|	Zn	67	7417.931	0.014	**37.868805**	9.06	23.9	ug/L
|	Zn	68	1777.444	0.006	**3.996757**	0.24	6.1	ug/L
|	V	51	-22424.371	-0.035	**-3.034748**	2.34	77.0	ug/L
|	Cr	52	6382.093	0.011	**0.668081**	0.17	26.1	ug/L
|	Cr	53	88296.182	0.138	**103.835840**	17.32	16.7	ug/L
|	Mn	55	1213.385	0.002	**0.234945**	0.02	7.1	ug/L
|	Fe	54	12390.721	0.007	**-20.058653**	3.06	15.2	ug/L
⌊	Fe	57	3494.428	0.006	**8.828043**	3.56	40.3	ug/L
⌜	As	75	279.536	0.001	**1.745675**	0.41	23.7	ug/L
|	Se	77	5347.001	0.007	**109.977685**	4.33	3.9	ug/L
|	Se	82	15.373	0.000	**5.798519**	0.13	2.2	ug/L
|	Sr	88	254137.996	0.612	**68.710572**	0.84	1.2	ug/L
| >	Y	89	414868.776	414868.776				ug/L
|	Mo	95	840.025	0.002	**1.975786**	0.04	2.1	ug/L
|	Mo	97	520.676	0.001	**2.309339**	0.04	1.9	ug/L
⌊	Mo	98	1344.219	0.003	**2.061974**	0.12	6.0	ug/L
⌜	Ag	107	30.667	0.000	**-0.012793**	0.01	40.2	ug/L
|	Ag	109	24.000	0.000	**0.331844**	0.00	0.9	ug/L
|	Cd	111	18.000	0.000	**0.978585**	0.01	0.6	ug/L
|	Cd	114	34.146	0.000	**0.607928**	0.02	3.1	ug/L

|>	In	115	231848.139	231848.139				ug/L
|	Sn	120	2363.274	-0.001	**0.177364**	0.06	33.3	ug/L
|	Sb	121	426.006	0.002	**1.087135**	0.03	3.2	ug/L
\L	Sb	123	411.488	0.002	**1.220863**	0.07	5.3	ug/L
⌈	Ba	135	43183.173	0.153	**105.812813**	4.05	3.8	ug/L
|	Ba	137	73841.078	0.262	**104.364683**	3.87	3.7	ug/L
|	Tb	159	284876.461	-0.007				ug/L
|>	Ho	165	281750.632	281750.632				ug/L
|	Tl	203	246.669	0.001	**0.883662**	0.09	10.7	ug/L
|	Tl	205	608.015	0.002	**0.591971**	0.10	17.1	ug/L
\L	Pb	208	673.339	0.002	**-0.269123**	0.01	4.2	ug/L
	Kr	83	37.533	-0.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		99.827	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		85.941	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		91.529	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	90.181
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-03BSD
Sample Date/Time: Thursday, March 03, 2011 05:27:43
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\11020727-03BSD.077
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10518.307	0.001				ug/L
|	Li	7	2146.161	0.005	**25.411277**	0.26	1.0	ug/L
|	Be	9	6.667	-0.000	**-0.064832**	0.35	540.2	ug/L
|	B	11	818.023	0.003	**17.626290**	2.27	12.9	ug/L
|	Na	23	3514157.635	14.034	**55302.204710**	3080.33	5.6	ug/L
|	Mg	24	238748.041	0.955	**5372.563227**	226.89	4.2	ug/L
|	Al	27	5170.936	0.017	**-99.218207**	0.73	0.7	ug/L
|	K	39	102164.226	0.202	**408.029202**	35.19	8.6	ug/L
|	Ca	43	6782.946	0.025	**9816.023853**	579.76	5.9	ug/L
| >	Sc	45	249752.653	249752.653				ug/L
|	Ti	49	565.345	-0.001	**-1.051281**	2.20	209.4	ug/L
|	Co	59	109.334	0.000	**-2.037232**	0.01	0.5	ug/L
|	Ni	60	259.336	0.001	**0.580763**	0.09	14.8	ug/L
|	Ni	62	88.000	0.000	**0.608038**	1.15	189.7	ug/L
|	Cu	63	361.338	0.000	**-3.734282**	0.05	1.3	ug/L
|	Cu	65	146.667	0.000	**-2.504037**	0.26	10.5	ug/L
|	Zn	66	997.368	0.003	**3.045346**	1.15	37.9	ug/L
|	Zn	67	5855.868	0.009	**77.229870**	18.33	23.7	ug/L
|	Zn	68	1042.705	0.003	**6.944296**	0.93	13.4	ug/L
|	V	51	-16329.980	-0.013	**-0.740201**	2.07	280.3	ug/L
|	Cr	52	4830.150	0.005	**-0.822823**	0.39	47.1	ug/L
|	Cr	53	77112.902	0.099	**299.866140**	20.83	6.9	ug/L
|	Mn	55	784.022	0.001	**0.467598**	0.03	7.4	ug/L
|	Fe	54	11109.422	0.003	**-142.023909**	2.01	1.4	ug/L
⌊	Fe	57	2317.521	0.002	**-50.320029**	2.72	5.4	ug/L
⌈	As	75	155.143	0.001	**7.183913**	2.50	34.8	ug/L
|	Se	77	4055.242	0.004	**269.925276**	11.92	4.4	ug/L
|	Se	82	-2.818	0.000	**26.011665**	0.68	2.6	ug/L
|	Sr	88	50784.107	0.122	**70.092732**	0.91	1.3	ug/L
| >	Y	89	416128.845	416128.845				ug/L
|	Mo	95	225.335	0.000	**4.648480**	0.04	0.9	ug/L
|	Mo	97	137.334	0.000	**6.371000**	0.22	3.5	ug/L
⌊	Mo	98	337.419	0.001	**5.068663**	0.14	2.9	ug/L
⌈	Ag	107	14.000	0.000	**-0.115717**	0.02	18.0	ug/L
|	Ag	109	17.333	0.000	**1.638116**	0.02	1.3	ug/L
|	Cd	111	13.167	0.000	**4.823948**	0.02	0.5	ug/L
|	Cd	114	27.987	0.000	**3.001836**	0.08	2.8	ug/L

|>	In	115	234286.141	234286.141				ug/L
|	Sn	120	2317.360	-0.001	**0.672408**	0.21	30.6	ug/L
|	Sb	121	120.001	0.000	**4.415756**	0.10	2.2	ug/L
L	Sb	123	114.406	0.000	**4.829143**	0.11	2.2	ug/L
⌜	Ba	135	8631.941	0.030	**107.239133**	2.47	2.3	ug/L
|	Ba	137	14946.488	0.053	**108.673146**	4.35	4.0	ug/L
|	Tb	159	283485.169	-0.014				ug/L
|>	Ho	165	282164.068	282164.068				ug/L
|	Tl	203	28.667	0.000	**3.376946**	0.07	1.9	ug/L
|	Tl	205	50.667	0.000	**1.826038**	0.03	1.4	ug/L
L	Pb	208	99.333	0.000	**-2.218300**	0.02	0.8	ug/L
	Kr	83	36.400	-1.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.208	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		86.202	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		92.492	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	90.314
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-03BMS
Sample Date/Time: Thursday, March 03, 2011 05:30:24
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\11020727-03BMS.078
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	9095.932	-0.006				ug/L
|	Li	7	33886.825	0.131	**124.115145**	3.35	2.7	ug/L
|	Be	9	8116.305	0.032	**87.815468**	0.28	0.3	ug/L
|	B	11	11286.464	0.044	**116.798226**	5.03	4.3	ug/L
|	Na	23	18243862.448	72.207	**57055.510048**	1008.61	1.8	ug/L
|	Mg	24	2238699.637	8.864	**10173.486044**	50.60	0.5	ug/L
|	Al	27	3337574.866	13.212	**5385.399288**	80.81	1.5	ug/L
|	K	39	2481795.719	9.618	**5094.183695**	144.79	2.8	ug/L
|	Ca	43	43314.904	0.169	**13690.919851**	158.33	1.2	ug/L
| >	Sc	45	252558.063	252558.063				ug/L
|	Ti	49	11401.216	0.042	**87.146246**	3.13	3.6	ug/L
|	Co	59	209823.150	0.831	**88.245299**	1.43	1.6	ug/L
|	Ni	60	46630.708	0.184	**87.093809**	2.48	2.8	ug/L
|	Ni	62	7075.085	0.028	**86.770306**	0.80	0.9	ug/L
|	Cu	63	114156.750	0.451	**86.427907**	2.85	3.3	ug/L
|	Cu	65	54934.855	0.217	**85.627744**	2.83	3.3	ug/L
|	Zn	66	35605.678	0.140	**88.958366**	3.45	3.9	ug/L
|	Zn	67	12480.116	0.034	**115.719490**	3.42	3.0	ug/L
|	Zn	68	25489.395	0.100	**90.730790**	2.37	2.6	ug/L
|	V	51	157420.965	0.676	**87.688210**	2.15	2.5	ug/L
|	Cr	52	165024.117	0.639	**90.565879**	3.35	3.7	ug/L
|	Cr	53	105625.797	0.208	**182.204421**	8.29	4.5	ug/L
|	Mn	55	269059.728	1.063	**91.619167**	0.91	1.0	ug/L
|	Fe	54	567563.249	2.206	**4190.202544**	125.57	3.0	ug/L
⌊	Fe	57	252750.949	0.993	**4154.790247**	119.41	2.9	ug/L
⌈	As	75	35455.590	0.087	**88.067050**	1.49	1.7	ug/L
|	Se	77	15819.424	0.032	**566.678227**	19.52	3.4	ug/L
|	Se	82	12951.846	0.032	**433.735071**	6.16	1.4	ug/L
|	Sr	88	571927.801	1.392	**155.690456**	5.16	3.3	ug/L
| >	Y	89	410778.527	410778.527				ug/L
|	Mo	95	51932.918	0.126	**89.732887**	2.07	2.3	ug/L
|	Mo	97	32454.834	0.079	**89.328192**	2.76	3.1	ug/L
⌊	Mo	98	83083.571	0.202	**88.042726**	3.07	3.5	ug/L
⌈	Ag	107	141623.351	0.616	**87.285766**	4.44	5.1	ug/L
|	Ag	109	141613.624	0.616	**90.172027**	6.12	6.8	ug/L
|	Cd	111	32377.487	0.141	**90.793646**	3.86	4.3	ug/L
|	Cd	114	76033.333	0.330	**92.168833**	2.49	2.7	ug/L

|>	In	115	230231.227	230231.227				ug/L
|	Sn	120	153740.777	0.657	**94.280290**	3.45	3.7	ug/L
|	Sb	121	139803.424	0.608	**94.221872**	3.77	4.0	ug/L
L	Sb	123	107637.359	0.468	**93.728563**	5.86	6.3	ug/L
Γ	Ba	135	76752.497	0.273	**188.107645**	9.73	5.2	ug/L
|	Ba	137	133927.018	0.476	**188.990121**	6.03	3.2	ug/L
|	Tb	159	279428.830	-0.024				ug/L
|>	Ho	165	281092.884	281092.884				ug/L
|	Tl	203	102316.449	0.364	**99.438389**	0.66	0.7	ug/L
|	Tl	205	239674.101	0.853	**98.938046**	2.74	2.8	ug/L
L	Pb	208	332533.560	1.183	**100.706938**	1.85	1.8	ug/L
	Kr	83	41.867	3.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		99.311	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		85.094	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.891	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	89.971
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-03BMSD
Sample Date/Time: Thursday, March 03, 2011 05:33:04
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\11020727-03BMSD.079
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	9187.207	-0.004				ug/L
|	Li	7	33671.646	0.133	**125.805484**	5.18	4.1	ug/L
|	Be	9	8267.726	0.033	**91.236101**	3.95	4.3	ug/L
|	B	11	11445.921	0.045	**121.056624**	7.48	6.2	ug/L
|	Na	23	19210021.194	77.588	**61310.299746**	4931.65	8.0	ug/L
|	Mg	24	2337700.830	9.446	**10843.167329**	896.75	8.3	ug/L
|	Al	27	3571619.721	14.417	**5878.804540**	191.23	3.3	ug/L
|	K	39	2519158.218	9.970	**5281.781702**	385.12	7.3	ug/L
|	Ca	43	44679.105	0.178	**14414.092145**	557.76	3.9	ug/L
| >	Sc	45	247789.954	247789.954				ug/L
|	Ti	49	11415.226	0.043	**89.023612**	0.95	1.1	ug/L
|	Co	59	209281.250	0.845	**89.750140**	3.43	3.8	ug/L
|	Ni	60	47742.326	0.193	**90.965571**	3.54	3.9	ug/L
|	Ni	62	7244.504	0.029	**90.676264**	5.03	5.6	ug/L
|	Cu	63	113380.856	0.457	**87.546072**	2.14	2.4	ug/L
|	Cu	65	53483.939	0.215	**85.010493**	2.54	3.0	ug/L
|	Zn	66	35199.313	0.141	**89.676603**	2.83	3.2	ug/L
|	Zn	67	12585.542	0.036	**121.066519**	3.26	2.7	ug/L
|	Zn	68	25005.877	0.100	**90.715722**	0.94	1.0	ug/L
|	V	51	156109.747	0.683	**88.563577**	4.06	4.6	ug/L
|	Cr	52	161835.014	0.639	**90.519653**	1.58	1.7	ug/L
|	Cr	53	106322.345	0.219	**194.330509**	5.71	2.9	ug/L
|	Mn	55	272030.536	1.096	**94.470592**	3.86	4.1	ug/L
|	Fe	54	604661.077	2.400	**4561.816390**	203.10	4.5	ug/L
⌊	Fe	57	270784.753	1.086	**4544.813557**	240.67	5.3	ug/L
⌈	As	75	35019.971	0.087	**88.246636**	1.61	1.8	ug/L
|	Se	77	15710.641	0.033	**571.843989**	33.14	5.8	ug/L
|	Se	82	12921.693	0.032	**438.818471**	6.04	1.4	ug/L
|	Sr	88	563078.272	1.390	**155.436873**	4.14	2.7	ug/L
| >	Y	89	405010.262	405010.262				ug/L
|	Mo	95	50499.153	0.125	**88.512963**	3.23	3.6	ug/L
|	Mo	97	31490.705	0.078	**87.915092**	3.74	4.3	ug/L
⌊	Mo	98	82227.413	0.203	**88.363724**	3.58	4.0	ug/L
⌈	Ag	107	140561.411	0.614	**86.963301**	4.90	5.6	ug/L
|	Ag	109	137735.345	0.601	**88.010935**	4.96	5.6	ug/L
|	Cd	111	31765.444	0.139	**89.413382**	2.12	2.4	ug/L
|	Cd	114	74807.958	0.326	**91.083983**	2.42	2.7	ug/L

|>	In	115	229242.400	229242.400				ug/L
|	Sn	120	149116.029	0.640	**91.782976**	3.70	4.0	ug/L
|	Sb	121	139468.415	0.609	**94.363334**	4.15	4.4	ug/L
|	Sb	123	108377.360	0.473	**94.709694**	6.03	6.4	ug/L
|	Ba	135	77671.312	0.279	**192.142799**	7.82	4.1	ug/L
|	Ba	137	132603.971	0.476	**188.899230**	5.58	3.0	ug/L
|	Tb	159	278635.799	-0.018				ug/L
|>	Ho	165	278476.640	278476.640				ug/L
|	Tl	203	99412.925	0.357	**97.546430**	3.19	3.3	ug/L
|	Tl	205	238145.817	0.855	**99.230766**	2.96	3.0	ug/L
|	Pb	208	337394.299	1.212	**103.173640**	2.93	2.8	ug/L
	Kr	83	40.667	2.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		97.436	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		83.899	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.500	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	89.133
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-03BPDS
Sample Date/Time: Thursday, March 03, 2011 05:35:45
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\11020727-03BPDS.080
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	9038.784	-0.004				ug/L
|	Li	7	29705.552	0.120	**569.817550**	27.26	4.8	ug/L
|	Be	9	8182.344	0.034	**464.743158**	20.52	4.4	ug/L
|	B	11	8834.064	0.036	**475.075587**	10.13	2.1	ug/L
|	Na	23	5348825.637	22.194	**87560.395871**	977.38	1.1	ug/L
|	Mg	24	1487208.213	6.179	**35425.480702**	538.22	1.5	ug/L
|	Al	27	3863075.808	16.054	**32747.708992**	1414.43	4.3	ug/L
|	K	39	2349869.728	9.559	**25314.003313**	496.32	2.0	ug/L
|	Ca	43	21263.816	0.086	**34677.183797**	153.57	0.4	ug/L
|>	Sc	45	240635.557	240635.557				ug/L
|	Ti	49	11352.511	0.044	**456.319214**	7.89	1.7	ug/L
|	Co	59	208149.812	0.865	**459.607421**	23.55	5.1	ug/L
|	Ni	60	46220.009	0.192	**453.220189**	14.01	3.1	ug/L
|	Ni	62	6920.343	0.028	**445.574205**	8.45	1.9	ug/L
|	Cu	63	115077.744	0.477	**457.556172**	6.29	1.4	ug/L
|	Cu	65	54621.587	0.226	**446.968686**	6.12	1.4	ug/L
|	Zn	66	36279.395	0.150	**476.190085**	17.18	3.6	ug/L
|	Zn	67	11070.955	0.031	**512.812133**	9.29	1.8	ug/L
|	Zn	68	25756.545	0.106	**481.798226**	10.80	2.2	ug/L
|	V	51	154997.170	0.697	**451.722722**	16.49	3.6	ug/L
|	Cr	52	162683.865	0.662	**468.991274**	11.22	2.4	ug/L
|	Cr	53	95780.013	0.188	**798.345033**	23.31	2.9	ug/L
|	Mn	55	267106.330	1.108	**477.427281**	15.99	3.4	ug/L
|	Fe	54	674788.661	2.763	**26287.327728**	1366.81	5.2	ug/L
⌊	Fe	57	295343.918	1.220	**25537.129815**	731.30	2.9	ug/L
⌈	As	75	36141.050	0.090	**457.049186**	25.17	5.5	ug/L
|	Se	77	14361.891	0.029	**2571.037162**	77.99	3.0	ug/L
|	Se	82	13096.407	0.032	**2232.473307**	125.09	5.6	ug/L
|	Sr	88	389837.674	0.966	**540.954575**	36.99	6.8	ug/L
|>	Y	89	403658.227	403658.227				ug/L
|	Mo	95	51443.979	0.127	**452.745696**	35.34	7.8	ug/L
|	Mo	97	32208.952	0.080	**451.191835**	20.17	4.5	ug/L
⌊	Mo	98	83512.841	0.207	**450.288235**	18.29	4.1	ug/L
⌈	Ag	107	144234.629	0.631	**446.888614**	22.63	5.1	ug/L
|	Ag	109	142031.077	0.621	**454.533442**	29.04	6.4	ug/L
|	Cd	111	33100.868	0.145	**466.856192**	37.41	8.0	ug/L
|	Cd	114	76865.337	0.336	**468.911185**	29.72	6.3	ug/L

|>	In	115	228950.097	228950.097				ug/L
|	Sn	120	153886.216	0.662	**474.528140**	20.19	4.3	ug/L
|	Sb	121	141624.076	0.619	**479.765780**	21.42	4.5	ug/L
|	Sb	123	109221.379	0.477	**477.810137**	23.84	5.0	ug/L
|	Ba	135	44821.561	0.163	**563.196000**	7.43	1.3	ug/L
|	Ba	137	77003.737	0.280	**558.224269**	19.73	3.5	ug/L
|	Tb	159	276416.754	-0.011				ug/L
|>	Ho	165	274446.172	274446.172				ug/L
|	Tl	203	105645.086	0.385	**525.591116**	20.84	4.0	ug/L
|	Tl	205	250759.177	0.914	**530.000191**	18.95	3.6	ug/L
|	Pb	208	344904.208	1.257	**535.432730**	28.64	5.3	ug/L
	Kr	83	38.267	0.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.623	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		83.619	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.385	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	87.843
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-03BPDSD
Sample Date/Time: Thursday, March 03, 2011 05:38:26
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\11020727-03BPDSD.081
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	9160.399	-0.004				ug/L
|	Li	7	28660.731	0.113	**534.860390**	33.88	6.3	ug/L
|	Be	9	8001.574	0.032	**442.748352**	23.02	5.2	ug/L
|	B	11	8871.421	0.035	**464.156796**	23.04	5.0	ug/L
|	Na	23	5089333.676	20.607	**81286.674480**	8693.57	10.7	ug/L
|	Mg	24	1438274.501	5.829	**33407.907408**	2747.57	8.2	ug/L
|	Al	27	3868819.288	15.670	**31961.763383**	2186.37	6.8	ug/L
|	K	39	2288701.035	9.063	**23993.261597**	1438.97	6.0	ug/L
|	Ca	43	20708.334	0.082	**32850.102832**	1795.89	5.5	ug/L
| >	Sc	45	247264.679	247264.679				ug/L
|	Ti	49	11195.052	0.042	**437.543667**	21.65	4.9	ug/L
|	Co	59	203957.986	0.826	**438.687064**	25.45	5.8	ug/L
|	Ni	60	46213.983	0.187	**441.535391**	25.44	5.8	ug/L
|	Ni	62	7001.716	0.028	**439.230386**	24.17	5.5	ug/L
|	Cu	63	113860.617	0.460	**440.821518**	16.21	3.7	ug/L
|	Cu	65	54792.883	0.221	**436.706587**	16.57	3.8	ug/L
|	Zn	66	35580.267	0.143	**454.422029**	14.32	3.2	ug/L
|	Zn	67	10882.810	0.029	**475.046369**	30.41	6.4	ug/L
|	Zn	68	24018.874	0.096	**436.139712**	12.20	2.8	ug/L
|	V	51	154736.557	0.679	**440.638033**	26.54	6.0	ug/L
|	Cr	52	161053.103	0.638	**452.161418**	36.15	8.0	ug/L
|	Cr	53	91634.285	0.161	**647.127701**	81.12	12.5	ug/L
|	Mn	55	266712.306	1.078	**464.753372**	35.44	7.6	ug/L
|	Fe	54	651871.961	2.600	**24727.708017**	2131.65	8.6	ug/L
⌊	Fe	57	288743.009	1.163	**24336.830265**	2128.50	8.7	ug/L
⌈	As	75	35776.054	0.090	**458.023984**	22.61	4.9	ug/L
|	Se	77	14196.391	0.030	**2578.746880**	245.90	9.5	ug/L
|	Se	82	13050.289	0.033	**2251.804352**	109.46	4.9	ug/L
|	Sr	88	385216.670	0.967	**541.510218**	43.50	8.0	ug/L
| >	Y	89	398949.463	398949.463				ug/L
|	Mo	95	50467.789	0.127	**449.872584**	37.48	8.3	ug/L
|	Mo	97	31235.472	0.078	**443.202184**	27.69	6.2	ug/L
⌊	Mo	98	82975.054	0.208	**453.387235**	33.62	7.4	ug/L
⌈	Ag	107	143322.261	0.626	**443.658367**	12.32	2.8	ug/L
|	Ag	109	141207.395	0.617	**451.368130**	11.96	2.6	ug/L
|	Cd	111	32692.870	0.143	**460.445233**	5.84	1.3	ug/L
|	Cd	114	76405.827	0.334	**465.623316**	12.77	2.7	ug/L

|>	In	115	228974.053	228974.053				ug/L
|	Sn	120	151619.358	0.651	**467.042675**	12.91	2.8	ug/L
|	Sb	121	138706.923	0.606	**469.515892**	16.40	3.5	ug/L
\L	Sb	123	106452.479	0.465	**465.349926**	6.87	1.5	ug/L
|	Ba	135	44631.622	0.160	**552.323129**	19.50	3.5	ug/L
|	Ba	137	75768.469	0.272	**540.874371**	20.96	3.9	ug/L
|	Tb	159	280496.662	-0.012				ug/L
|>	Ho	165	278806.744	278806.744				ug/L
|	Tl	203	103081.933	0.370	**505.223963**	17.66	3.5	ug/L
|	Tl	205	246845.922	0.886	**513.920408**	28.76	5.6	ug/L
\L	Pb	208	338436.518	1.215	**517.181155**	33.10	6.4	ug/L
	Kr	83	39.000	0.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		97.229	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		82.644	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.394	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	89.239
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, March 03, 2011 05:41:08
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\QC Std 4.082
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	9238.909	-0.003				ug/L
|	Li	7	28713.512	0.118	**111.532283**	6.05	5.4	ug/L
|	Be	9	8306.415	0.035	**95.597866**	5.20	5.4	ug/L
|	B	11	8681.310	0.036	**94.624603**	8.23	8.7	ug/L
|	Na	23	2027382.359	8.505	**6688.545090**	406.24	6.1	ug/L
|	Mg	24	1313269.194	5.531	**6339.604001**	430.03	6.8	ug/L
|	Al	27	3958137.870	16.659	**6797.542450**	334.30	4.9	ug/L
|	K	39	2329369.950	9.608	**5088.870743**	450.86	8.9	ug/L
|	Ca	43	15165.385	0.062	**4945.943252**	318.14	6.4	ug/L
| >	Sc	45	237691.760	237691.760				ug/L
|	Ti	49	11155.688	0.044	**90.854551**	4.43	4.9	ug/L
|	Co	59	210912.501	0.888	**94.339029**	3.67	3.9	ug/L
|	Ni	60	47173.774	0.198	**93.730980**	4.04	4.3	ug/L
|	Ni	62	7113.771	0.030	**92.834053**	3.55	3.8	ug/L
|	Cu	63	116078.432	0.488	**93.544365**	3.89	4.2	ug/L
|	Cu	65	55154.302	0.232	**91.490981**	4.66	5.1	ug/L
|	Zn	66	34783.632	0.146	**92.440460**	2.58	2.8	ug/L
|	Zn	67	10606.606	0.030	**97.341546**	8.84	9.1	ug/L
|	Zn	68	24643.905	0.102	**93.315733**	2.42	2.6	ug/L
|	V	51	158479.140	0.720	**93.273871**	3.24	3.5	ug/L
|	Cr	52	162575.955	0.670	**94.968761**	3.06	3.2	ug/L
|	Cr	53	88068.655	0.161	**129.200755**	15.61	12.1	ug/L
|	Mn	55	273237.874	1.148	**98.989773**	6.25	6.3	ug/L
|	Fe	54	674502.806	2.799	**5325.853175**	318.81	6.0	ug/L
⌊	Fe	57	292686.979	1.225	**5128.058826**	252.48	4.9	ug/L
⌜	As	75	34995.741	0.086	**87.333461**	1.50	1.7	ug/L
|	Se	77	13958.818	0.028	**488.809216**	19.54	4.0	ug/L
|	Se	82	13167.215	0.032	**442.802993**	4.56	1.0	ug/L
|	Sr	88	342476.760	0.837	**93.805601**	2.04	2.2	ug/L
| >	Y	89	408950.646	408950.646				ug/L
|	Mo	95	50866.426	0.124	**88.335309**	3.75	4.2	ug/L
|	Mo	97	32347.932	0.079	**89.465559**	4.12	4.6	ug/L
⌊	Mo	98	83376.653	0.204	**88.770985**	4.19	4.7	ug/L
⌜	Ag	107	147406.312	0.639	**90.573778**	7.80	8.6	ug/L
|	Ag	109	143364.400	0.621	**90.941624**	6.97	7.7	ug/L
|	Cd	111	33129.718	0.144	**92.563432**	5.91	6.4	ug/L
|	Cd	114	77523.291	0.336	**93.637198**	3.57	3.8	ug/L

|>	In	115	231210.311	231210.311				ug/L
|	Sn	120	153233.436	0.653	**93.637426**	5.57	5.9	ug/L
|	Sb	121	142385.144	0.617	**95.632215**	6.60	6.9	ug/L
_	Sb	123	110377.266	0.478	**95.784622**	8.68	9.1	ug/L
⌈	Ba	135	37042.654	0.134	**92.753226**	5.41	5.8	ug/L
|	Ba	137	64884.453	0.235	**93.761413**	5.79	6.2	ug/L
|	Tb	159	277107.469	-0.014				ug/L
|>	Ho	165	275993.666	275993.666				ug/L
|	Tl	203	105481.322	0.382	**104.438428**	3.17	3.0	ug/L
|	Tl	205	253559.850	0.919	**106.638699**	4.09	3.8	ug/L
_	Pb	208	353941.617	1.283	**109.312131**	5.31	4.9	ug/L
	Kr	83	36.333	-1.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	111.532		
Be	9	95.598		
B	11	94.625		
Na	23	133.771		
Mg	24	126.792		
Al	27	133.285		
K	39	101.777		
Ca	43	98.919		
Sc	45		93.465	
Ti	49	90.855		
Co	59	94.339		
Ni	60	93.731		
Ni	62	92.834		
Cu	63	93.544		
Cu	65	91.491		
Zn	66	92.440		
Zn	67	97.342		
Zn	68	93.316		
V	51	93.274		
Cr	52	94.969		
Cr	53	129.201		
Mn	55	98.990		
Fe	54	106.517		
Fe	57	102.561		
As	75	87.333		
Se	77	97.762		
Se	82	88.561		
Sr	88	93.806		
Y	89		84.715	
Mo	95	88.335		
Mo	97	89.466		
Mo	98	88.771		
Ag	107	90.574		
Ag	109	90.942		
Cd	111	92.563		
Cd	114	93.637		
In	115		91.277	
Sn	120	93.637		
Sb	121	95.632		

Sb	123	95.785	
Ba	135	92.753	
Ba	137	93.761	
Tb	159		
Ho	165		88.339
Tl	203	104.438	
Tl	205	106.639	
Pb	208	109.312	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, March 03, 2011 05:43:49
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\QC Std 6.083
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	10375.475	0.002				ug/L
|	Li	7	979.367	0.001	**0.836008**	0.17	20.2	ug/L
|	Be	9	14.000	0.000	**0.073800**	0.12	160.7	ug/L
|	B	11	375.338	0.001	**-1.126828**	0.52	45.8	ug/L
|	Na	23	11371.301	0.014	**-24.401619**	6.62	27.1	ug/L
|	Mg	24	866.693	0.003	**-20.989630**	0.34	1.6	ug/L
|	Al	27	2713.592	0.007	**-23.653183**	0.37	1.5	ug/L
|	K	39	43967.638	-0.023	**-37.910103**	3.46	9.1	ug/L
|	Ca	43	682.683	0.001	**-10.929946**	19.63	179.6	ug/L
| >	Sc	45	238179.507	238179.507				ug/L
|	Ti	49	540.677	-0.001	**-0.192259**	0.52	271.6	ug/L
|	Co	59	190.668	0.000	**-0.368795**	0.01	2.9	ug/L
|	Ni	60	56.000	0.000	**-0.264729**	0.02	8.3	ug/L
|	Ni	62	50.667	-0.000	**-0.317214**	0.26	81.1	ug/L
|	Cu	63	227.335	-0.000	**-0.842149**	0.00	0.4	ug/L
|	Cu	65	112.000	-0.000	**-0.547379**	0.03	6.0	ug/L
|	Zn	66	150.667	-0.000	**-1.559123**	0.03	1.7	ug/L
|	Zn	67	5064.898	0.006	**7.066621**	3.05	43.1	ug/L
|	Zn	68	314.670	0.000	**-1.248035**	0.11	8.7	ug/L
|	V	51	-17638.410	-0.021	**-1.252814**	0.41	32.9	ug/L
|	Cr	52	4297.313	0.004	**-0.349174**	0.13	36.3	ug/L
|	Cr	53	68965.443	0.079	**38.634083**	11.31	29.3	ug/L
|	Mn	55	764.687	0.001	**0.099624**	0.00	4.2	ug/L
|	Fe	54	10380.563	0.002	**-30.107532**	1.73	5.8	ug/L
⌞	Fe	57	1978.804	0.001	**-14.144605**	1.05	7.5	ug/L
⌜	As	75	156.468	0.001	**1.448123**	0.29	19.9	ug/L
|	Se	77	3519.100	0.002	**34.282865**	2.73	8.0	ug/L
|	Se	82	-2.011	0.000	**5.228898**	0.15	2.9	ug/L
|	Sr	88	208.002	0.000	**0.468179**	0.01	1.4	ug/L
| >	Y	89	407373.879	407373.879				ug/L
|	Mo	95	110.667	0.000	**0.739315**	0.02	2.7	ug/L
|	Mo	97	87.334	0.000	**1.145442**	0.03	2.3	ug/L
⌞	Mo	98	219.125	0.000	**0.895972**	0.04	4.7	ug/L
⌜	Ag	107	30.667	0.000	**-0.012920**	0.01	60.2	ug/L
|	Ag	109	37.333	0.000	**0.340153**	0.01	2.0	ug/L
|	Cd	111	16.500	0.000	**0.974317**	0.00	0.1	ug/L
|	Cd	114	32.050	0.000	**0.605281**	0.01	1.4	ug/L

|>	In	115	232339.182	232339.182				ug/L
|	Sn	120	2403.391	-0.001	**0.198972**	0.04	19.3	ug/L
|	Sb	121	521.343	0.002	**1.149827**	0.06	5.5	ug/L
|	Sb	123	470.581	0.002	**1.271718**	0.06	5.0	ug/L
|	Ba	135	26.667	-0.000	**0.496497**	0.01	2.0	ug/L
|	Ba	137	62.667	-0.000	**0.905945**	0.00	0.4	ug/L
|	Tb	159	282672.282	0.008				ug/L
|>	Ho	165	275457.058	275457.058				ug/L
|	Tl	203	151.334	0.001	**0.796868**	0.05	6.8	ug/L
|	Tl	205	330.004	0.001	**0.482897**	0.03	7.0	ug/L
|	Pb	208	146.667	0.000	**-0.428233**	0.00	1.1	ug/L
	Kr	83	35.467	-2.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.657	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		84.389	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		91.723	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.167
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-22B
Sample Date/Time: Thursday, March 03, 2011 05:46:31
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\11020727-22B.084
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	9295.873	-0.003				ug/L
|	Li	7	19811.729	0.079	**75.188454**	1.67	2.2	ug/L
|	Be	9	374.672	0.002	**4.181582**	0.24	5.7	ug/L
|	B	11	5132.923	0.021	**53.074594**	1.84	3.5	ug/L
|	Na	23	78929076.659	328.905	**260017.567068**	10579.61	4.1	ug/L
|	Mg	24	19614371.009	81.775	**94062.813966**	6059.39	6.4	ug/L
|	Al	27	256197.838	1.063	**408.959281**	9.96	2.4	ug/L
|	K	39	1424345.131	5.730	**3024.247703**	136.61	4.5	ug/L
|	Ca	43	335270.585	1.395	**113258.416972**	3104.00	2.7	ug/L
|>	Sc	45	240013.196	240013.196				ug/L
|	Ti	49	1304.060	0.002	**6.245546**	0.60	9.7	ug/L
|	Co	59	78224.269	0.326	**34.348334**	0.81	2.3	ug/L
|	Ni	60	21270.493	0.088	**41.615320**	0.36	0.9	ug/L
|	Ni	62	3227.031	0.013	**41.131494**	1.28	3.1	ug/L
|	Cu	63	1956.801	0.007	**0.551005**	0.02	3.9	ug/L
|	Cu	65	842.692	0.003	**0.661136**	0.06	9.6	ug/L
|	Zn	66	18528.008	0.076	**47.823344**	1.07	2.2	ug/L
|	Zn	67	9025.518	0.023	**70.164929**	5.67	8.1	ug/L
|	Zn	68	13031.284	0.053	**47.655164**	1.94	4.1	ug/L
|	V	51	-21389.809	-0.036	**-3.160453**	1.36	42.9	ug/L
|	Cr	52	5980.585	0.011	**0.634013**	0.10	15.6	ug/L
|	Cr	53	78412.070	0.117	**80.081246**	13.26	16.6	ug/L
|	Mn	55	3432772.172	14.303	**1232.476907**	24.27	2.0	ug/L
|	Fe	54	1529382.720	6.334	**12094.486571**	648.17	5.4	ug/L
⌊	Fe	57	690365.323	2.869	**12035.992856**	357.58	3.0	ug/L
⌈	As	75	191.206	0.001	**1.371313**	0.26	19.1	ug/L
|	Se	77	6210.683	0.004	**57.346635**	2.46	4.3	ug/L
|	Se	82	35.553	0.000	**6.068085**	0.19	3.1	ug/L
|	Sr	88	3525953.822	5.639	**629.165886**	16.49	2.6	ug/L
|>	Y	89	625194.080	625194.080				ug/L
|	Mo	95	705.351	0.001	**1.343471**	0.01	0.9	ug/L
|	Mo	97	446.007	0.001	**1.703110**	0.07	4.0	ug/L
⌊	Mo	98	1141.982	0.002	**1.452569**	0.04	2.8	ug/L
⌈	Ag	107	58.667	0.000	**0.005881**	0.00	84.4	ug/L
|	Ag	109	32.000	0.000	**0.337798**	0.01	1.8	ug/L
|	Cd	111	38.167	0.000	**1.038520**	0.01	1.1	ug/L
|	Cd	114	69.544	0.000	**0.654016**	0.03	4.7	ug/L

|>	In	115	222486.363	222486.363				ug/L
|	Sn	120	2288.197	-0.001	**0.190773**	0.07	37.1	ug/L
|	Sb	121	206.668	0.001	**0.947294**	0.02	1.8	ug/L
L	Sb	123	286.874	0.001	**1.124894**	0.01	1.2	ug/L
⌈	Ba	135	16853.943	0.061	**42.260931**	1.52	3.6	ug/L
|	Ba	137	29302.038	0.105	**42.613614**	1.40	3.3	ug/L
|	Tb	159	275000.706	-0.025				ug/L
|>	Ho	165	276825.763	276825.763				ug/L
|	Tl	203	38.000	0.000	**0.685035**	0.01	1.0	ug/L
|	Tl	205	99.334	0.000	**0.385909**	0.01	3.1	ug/L
L	Pb	208	314.001	0.001	**-0.376736**	0.01	1.8	ug/L
	Kr	83	57.067	18.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.378	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		129.511	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		87.833	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.605
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-32B
Sample Date/Time: Thursday, March 03, 2011 05:49:12
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\11020727-32B.085
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10130.004	0.000				ug/L
|	Li	7	2996.981	0.009	**8.662360**	0.38	4.4	ug/L
|	Be	9	10.000	0.000	**0.027353**	0.04	147.7	ug/L
|	B	11	6450.790	0.026	**67.390874**	1.72	2.6	ug/L
|	Na	23	24397684.371	100.692	**79577.877206**	4524.19	5.7	ug/L
|	Mg	24	118355.710	0.488	**536.759464**	26.71	5.0	ug/L
|	Al	27	22804.864	0.090	**10.224158**	0.93	9.1	ug/L
|	K	39	282091.534	0.957	**483.553595**	6.73	1.4	ug/L
|	Ca	43	5569.086	0.021	**1623.406574**	24.23	1.5	ug/L
| >	Sc	45	242340.647	242340.647				ug/L
|	Ti	49	748.686	0.000	**1.473552**	0.15	10.0	ug/L
|	Co	59	334.671	0.001	**-0.306732**	0.00	1.1	ug/L
|	Ni	60	1818.783	0.007	**3.184003**	0.42	13.1	ug/L
|	Ni	62	320.004	0.001	**3.149433**	0.91	29.0	ug/L
|	Cu	63	1008.702	0.003	**-0.221170**	0.03	11.7	ug/L
|	Cu	65	268.003	0.001	**-0.294710**	0.03	9.0	ug/L
|	Zn	66	1565.419	0.006	**2.200329**	0.20	9.1	ug/L
|	Zn	67	6529.492	0.012	**28.956461**	0.26	0.9	ug/L
|	Zn	68	1376.066	0.004	**2.779592**	0.35	12.7	ug/L
|	V	51	-20451.488	-0.032	**-2.554558**	1.67	65.4	ug/L
|	Cr	52	6841.640	0.014	**1.106605**	0.15	13.3	ug/L
|	Cr	53	82306.615	0.129	**94.395455**	9.58	10.1	ug/L
|	Mn	55	111603.011	0.458	**39.506382**	0.61	1.5	ug/L
|	Fe	54	15943.333	0.024	**12.422886**	3.86	31.1	ug/L
⌊	Fe	57	4404.679	0.011	**27.308657**	0.80	2.9	ug/L
⌈	As	75	548.321	0.002	**2.460640**	0.13	5.3	ug/L
|	Se	77	4968.198	0.006	**104.289485**	8.82	8.5	ug/L
|	Se	82	-0.061	0.000	**5.293359**	0.11	2.2	ug/L
|	Sr	88	42511.178	0.107	**12.400763**	0.13	1.0	ug/L
| >	Y	89	395316.529	395316.529				ug/L
|	Mo	95	771.354	0.002	**1.924183**	0.03	1.6	ug/L
|	Mo	97	486.675	0.001	**2.282975**	0.11	4.7	ug/L
⌊	Mo	98	1324.363	0.003	**2.111141**	0.08	3.8	ug/L
⌈	Ag	107	29.333	0.000	**-0.013159**	0.00	15.3	ug/L
|	Ag	109	21.333	0.000	**0.330513**	0.00	1.5	ug/L
|	Cd	111	14.000	0.000	**0.968534**	0.01	1.0	ug/L
|	Cd	114	18.781	0.000	**0.589990**	0.01	1.5	ug/L

|>	In	115	226188.363	226188.363				ug/L
|	Sn	120	2286.570	-0.001	**0.165046**	0.04	21.3	ug/L
|	Sb	121	151.334	0.001	**0.907660**	0.03	3.3	ug/L
L	Sb	123	165.898	0.000	**1.014869**	0.02	2.0	ug/L
⌈	Ba	135	5837.859	0.021	**15.115663**	0.12	0.8	ug/L
|	Ba	137	10014.176	0.036	**15.296554**	0.34	2.2	ug/L
|	Tb	159	275796.709	-0.008				ug/L
|>	Ho	165	273100.639	273100.639				ug/L
|	Tl	203	20.000	0.000	**0.667623**	0.01	1.2	ug/L
|	Tl	205	46.000	0.000	**0.363878**	0.01	1.9	ug/L
L	Pb	208	1601.368	0.006	**0.027945**	0.03	110.0	ug/L
	Kr	83	33.267	-5.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		95.293	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		81.891	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		89.295	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	87.413
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, March 03, 2011 05:51:54
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\QC Std 4.086
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	9522.548	-0.002				ug/L
|	Li	7	27878.575	0.113	**107.304885**	9.89	9.2	ug/L
|	Be	9	8116.972	0.034	**92.557887**	3.88	4.2	ug/L
|	B	11	8333.765	0.034	**89.687983**	4.16	4.6	ug/L
|	Na	23	1956782.789	8.125	**6388.488790**	24.49	0.4	ug/L
|	Mg	24	1300853.489	5.426	**6218.351983**	177.71	2.9	ug/L
|	Al	27	3860184.425	16.104	**6570.024249**	276.27	4.2	ug/L
|	K	39	2354994.673	9.619	**5094.715095**	210.00	4.1	ug/L
|	Ca	43	15170.718	0.061	**4897.836800**	132.19	2.7	ug/L
| >	Sc	45	239864.762	239864.762				ug/L
|	Ti	49	11364.519	0.044	**91.758355**	3.88	4.2	ug/L
|	Co	59	209006.114	0.872	**92.672729**	4.66	5.0	ug/L
|	Ni	60	47444.039	0.198	**93.475184**	6.10	6.5	ug/L
|	Ni	62	7057.745	0.029	**91.336174**	6.93	7.6	ug/L
|	Cu	63	113844.551	0.474	**90.896227**	3.85	4.2	ug/L
|	Cu	65	54893.275	0.228	**90.182940**	2.17	2.4	ug/L
|	Zn	66	34338.554	0.142	**90.405025**	2.68	3.0	ug/L
|	Zn	67	10621.281	0.029	**95.994866**	5.53	5.8	ug/L
|	Zn	68	24296.645	0.100	**91.117518**	2.34	2.6	ug/L
|	V	51	158740.948	0.715	**92.624367**	1.98	2.1	ug/L
|	Cr	52	162112.917	0.662	**93.795890**	2.42	2.6	ug/L
|	Cr	53	89772.519	0.164	**133.405312**	13.63	10.2	ug/L
|	Mn	55	272927.144	1.137	**98.012973**	6.64	6.8	ug/L
|	Fe	54	665594.099	2.738	**5208.804392**	406.53	7.8	ug/L
⌊	Fe	57	292826.666	1.215	**5087.904171**	399.76	7.9	ug/L
⌈	As	75	35016.027	0.088	**89.745598**	2.56	2.9	ug/L
|	Se	77	13994.854	0.029	**507.131156**	27.95	5.5	ug/L
|	Se	82	12976.432	0.033	**448.310636**	13.54	3.0	ug/L
|	Sr	88	339116.234	0.852	**95.409181**	2.84	3.0	ug/L
| >	Y	89	398126.142	398126.142				ug/L
|	Mo	95	50968.100	0.128	**90.873649**	1.91	2.1	ug/L
|	Mo	97	31685.772	0.080	**90.006902**	3.43	3.8	ug/L
⌊	Mo	98	81873.384	0.206	**89.520459**	3.03	3.4	ug/L
⌈	Ag	107	141867.135	0.621	**88.028558**	2.00	2.3	ug/L
|	Ag	109	139784.930	0.612	**89.574151**	2.74	3.1	ug/L
|	Cd	111	32545.543	0.142	**91.880077**	1.44	1.6	ug/L
|	Cd	114	76668.128	0.336	**93.635630**	0.80	0.8	ug/L

|>	In	115	228406.222	228406.222				ug/L
|	Sn	120	152598.704	0.657	**94.253822**	2.36	2.5	ug/L
|	Sb	121	139398.875	0.610	**94.604175**	1.36	1.4	ug/L
|	Sb	123	108213.090	0.474	**94.829537**	2.29	2.4	ug/L
|	Ba	135	35916.467	0.130	**89.809182**	4.63	5.2	ug/L
|	Ba	137	62129.507	0.225	**89.659325**	2.96	3.3	ug/L
|	Tb	159	273116.866	-0.030				ug/L
|>	Ho	165	276210.397	276210.397				ug/L
|	Tl	203	104620.585	0.379	**103.475465**	4.09	3.9	ug/L
|	Tl	205	248007.455	0.898	**104.163622**	3.59	3.5	ug/L
|	Pb	208	343409.404	1.243	**105.873074**	2.15	2.0	ug/L
	Kr	83	37.600	-0.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	107.305		
Be	9	92.558		
B	11	89.688		
Na	23	127.770		
Mg	24	124.367		
Al	27	128.824		
K	39	101.894		
Ca	43	97.957		
Sc	45		94.320	
Ti	49	91.758		
Co	59	92.673		
Ni	60	93.475		
Ni	62	91.336		
Cu	63	90.896		
Cu	65	90.183		
Zn	66	90.405		
Zn	67	95.995		
Zn	68	91.118		
V	51	92.624		
Cr	52	93.796		
Cr	53	133.405		
Mn	55	98.013		
Fe	54	104.176		
Fe	57	101.758		
As	75	89.746		
Se	77	101.426		
Se	82	89.662		
Sr	88	95.409		
Y	89		82.473	
Mo	95	90.874		
Mo	97	90.007		
Mo	98	89.520		
Ag	107	88.029		
Ag	109	89.574		
Cd	111	91.880		
Cd	114	93.636		
In	115		90.170	
Sn	120	94.254		
Sb	121	94.604		

Sb	123	94.830	
Ba	135	89.809	
Ba	137	89.659	
Tb	159		
Ho	165		88.408
Tl	203	103.475	
Tl	205	104.164	
Pb	208	105.873	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, March 03, 2011 05:54:35
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\QC Std 6.087
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	10379.585	0.002				ug/L
|	Li	7	978.033	0.001	**0.785190**	0.08	10.0	ug/L
|	Be	9	6.000	-0.000	**-0.017833**	0.04	219.1	ug/L
|	B	11	338.671	0.001	**-1.589377**	0.24	14.9	ug/L
|	Na	23	12805.771	0.020	**-20.075421**	3.81	19.0	ug/L
|	Mg	24	1133.380	0.004	**-19.781060**	1.10	5.5	ug/L
|	Al	27	2303.521	0.005	**-24.399650**	0.63	2.6	ug/L
|	K	39	43064.883	-0.029	**-41.051169**	2.92	7.1	ug/L
|	Ca	43	688.017	0.001	**-11.598916**	28.72	247.6	ug/L
|>	Sc	45	240995.061	240995.061				ug/L
|	Ti	49	569.345	-0.001	**-0.009955**	0.14	1447.9	ug/L
|	Co	59	193.335	0.000	**-0.368421**	0.01	3.3	ug/L
|	Ni	60	78.000	0.000	**-0.222123**	0.04	18.8	ug/L
|	Ni	62	58.667	-0.000	**-0.216402**	0.23	106.8	ug/L
|	Cu	63	198.001	-0.000	**-0.867708**	0.02	2.7	ug/L
|	Cu	65	94.667	-0.000	**-0.577719**	0.01	1.6	ug/L
|	Zn	66	158.668	-0.000	**-1.542360**	0.07	4.7	ug/L
|	Zn	67	5239.628	0.007	**8.898194**	2.54	28.6	ug/L
|	Zn	68	333.337	0.000	**-1.191419**	0.12	9.9	ug/L
|	V	51	-19312.686	-0.028	**-2.037952**	0.69	33.8	ug/L
|	Cr	52	4402.011	0.004	**-0.317296**	0.08	26.1	ug/L
|	Cr	53	70912.240	0.084	**43.861011**	7.97	18.2	ug/L
|	Mn	55	853.359	0.001	**0.128404**	0.02	17.9	ug/L
|	Fe	54	10244.179	0.001	**-32.131333**	3.93	12.2	ug/L
⌞	Fe	57	1957.468	0.001	**-14.926493**	0.62	4.1	ug/L
⌜	As	75	67.938	0.001	**1.227195**	0.60	49.0	ug/L
|	Se	77	3597.120	0.003	**38.888880**	5.09	13.1	ug/L
|	Se	82	0.402	0.000	**5.308830**	0.03	0.5	ug/L
|	Sr	88	272.669	0.000	**0.486359**	0.00	0.4	ug/L
|>	Y	89	404361.836	404361.836				ug/L
|	Mo	95	115.334	0.000	**0.748740**	0.02	2.6	ug/L
|	Mo	97	60.000	0.000	**1.070745**	0.05	4.9	ug/L
⌞	Mo	98	156.823	0.000	**0.830733**	0.04	4.3	ug/L
⌜	Ag	107	34.667	0.000	**-0.010045**	0.00	9.4	ug/L
|	Ag	109	26.000	0.000	**0.333359**	0.01	1.7	ug/L
|	Cd	111	13.833	0.000	**0.967618**	0.01	1.2	ug/L
|	Cd	114	19.140	0.000	**0.590077**	0.01	2.2	ug/L

|>	In	115	228599.899	228599.899				ug/L
|	Sn	120	2719.384	0.001	**0.422044**	0.28	67.1	ug/L
|	Sb	121	519.343	0.002	**1.154083**	0.04	3.4	ug/L
\L	Sb	123	395.908	0.001	**1.212927**	0.05	4.3	ug/L
⌈	Ba	135	15.333	-0.000	**0.468718**	0.00	1.0	ug/L
|	Ba	137	38.667	-0.000	**0.872191**	0.01	0.6	ug/L
|	Tb	159	269328.039	-0.032				ug/L
|>	Ho	165	273163.962	273163.962				ug/L
|	Tl	203	126.001	0.000	**0.773646**	0.05	6.3	ug/L
|	Tl	205	280.003	0.001	**0.462900**	0.04	8.1	ug/L
\L	Pb	208	136.667	0.000	**-0.431150**	0.01	1.9	ug/L
	Kr	83	33.733	-4.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.764	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		83.765	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.247	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	87.433
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Thursday, March 03, 2011 05:57:16
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\ICSA.088
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	9834.635	-0.000				ug/L
|	Li	7	960.032	0.001	**0.738318**	0.09	11.7	ug/L
|	Be	9	10.000	0.000	**0.028834**	0.09	314.1	ug/L
|	B	11	334.671	0.001	**-1.604669**	0.45	27.8	ug/L
|	Na	23	35678240.541	149.030	**117797.200035**	4120.29	3.5	ug/L
|	Mg	24	22190473.817	92.725	**106661.165999**	4814.30	4.5	ug/L
|	Al	27	71621811.417	299.268	**122561.813704**	5047.88	4.1	ug/L
|	K	39	42226897.805	176.217	**93783.088070**	3523.21	3.8	ug/L
|	Ca	43	273258.460	1.140	**92522.691788**	3837.30	4.1	ug/L
| >	Sc	45	239507.506	239507.506				ug/L
|	Ti	49	209037.727	0.870	**1773.934946**	57.61	3.2	ug/L
|	Co	59	3923.206	0.016	**1.294743**	0.02	1.3	ug/L
|	Ni	60	1264.056	0.005	**2.124754**	0.08	3.6	ug/L
|	Ni	62	777.355	0.003	**9.182890**	0.25	2.7	ug/L
|	Cu	63	2298.185	0.009	**0.829269**	0.10	12.2	ug/L
|	Cu	65	1280.057	0.005	**1.387581**	0.04	3.1	ug/L
|	Zn	66	1250.723	0.004	**1.399479**	0.63	45.0	ug/L
|	Zn	67	5048.893	0.006	**6.396714**	5.32	83.2	ug/L
|	Zn	68	598.679	0.001	**-0.156519**	0.17	107.7	ug/L
|	V	51	-18543.964	-0.025	**-1.679197**	1.14	67.9	ug/L
|	Cr	52	6366.085	0.012	**0.873453**	0.13	15.1	ug/L
|	Cr	53	63309.980	0.054	**10.511843**	8.44	80.3	ug/L
|	Mn	55	20821.835	0.085	**7.321365**	0.39	5.3	ug/L
|	Fe	54	12730613.879	53.189	**101812.748326**	7554.78	7.4	ug/L
⌊	Fe	57	5739566.479	23.966	**100655.580539**	2051.14	2.0	ug/L
⌈	As	75	329.340	0.001	**1.893412**	0.59	30.9	ug/L
|	Se	77	3827.179	0.003	**50.737200**	1.48	2.9	ug/L
|	Se	82	-8.670	-0.000	**5.000862**	0.20	4.0	ug/L
|	Sr	88	24533.728	0.061	**7.246034**	0.20	2.7	ug/L
| >	Y	89	400180.995	400180.995				ug/L
|	Mo	95	988718.149	2.470	**1743.188509**	51.64	3.0	ug/L
|	Mo	97	630898.761	1.576	**1764.772769**	52.96	3.0	ug/L
⌊	Mo	98	1615689.812	4.037	**1744.220625**	19.09	1.1	ug/L
⌈	Ag	107	246.002	0.001	**0.123482**	0.02	18.9	ug/L
|	Ag	109	229.335	0.001	**0.465512**	0.00	0.9	ug/L
|	Cd	111	990.201	0.004	**3.740043**	0.08	2.2	ug/L
|	Cd	114	1693.387	0.007	**2.654754**	0.05	1.8	ug/L

|>	In	115	224929.423	224929.423				ug/L
|	Sn	120	2386.662	-0.000	**0.237081**	0.03	14.2	ug/L
|	Sb	121	422.673	0.002	**1.093683**	0.03	2.5	ug/L
L	Sb	123	321.990	0.001	**1.153375**	0.02	1.8	ug/L
⌈	Ba	135	1825.450	0.007	**5.046708**	0.29	5.7	ug/L
|	Ba	137	3195.691	0.011	**5.456411**	0.05	0.9	ug/L
|	Tb	159	274339.449	-0.009				ug/L
|>	Ho	165	271931.608	271931.608				ug/L
|	Tl	203	280.669	0.001	**0.927512**	0.02	2.5	ug/L
|	Tl	205	682.016	0.002	**0.634825**	0.03	4.0	ug/L
L	Pb	208	30466.011	0.112	**9.115999**	0.49	5.4	ug/L
	Kr	83	51.467	13.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.179	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		82.899	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		88.798	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	87.038
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Thursday, March 03, 2011 05:59:57
Sample Type: Spike - 2 of 65
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103030156MS\ICSAB.089
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	9714.049	-0.001				ug/L
|	Li	7	974.700	0.001	**0.774207**	0.29	37.3	ug/L
|	Be	9	9.333	0.000	**0.020607**	0.09	423.6	ug/L
|	B	11	317.337	0.001	**-1.837042**	0.57	31.3	ug/L
|	Na	23	35573790.947	147.614	**116677.696744**	2587.45	2.2	ug/L
|	Mg	24	22976564.012	95.381	**109717.901857**	2231.96	2.0	ug/L
|	Al	27	74250203.971	308.234	**126234.714964**	3420.15	2.7	ug/L
|	K	39	42967534.950	178.181	**94828.508721**	3004.51	3.2	ug/L
|	Ca	43	284767.802	1.179	**95739.557377**	5165.48	5.4	ug/L
| >	Sc	45	240934.312	240934.312				ug/L
|	Ti	49	220051.657	0.910	**1855.181844**	38.66	2.1	ug/L
|	Co	59	174463.217	0.724	**76.868260**	2.50	3.2	ug/L
|	Ni	60	38225.745	0.158	**74.810526**	1.78	2.4	ug/L
|	Ni	62	6256.039	0.026	**80.330150**	3.38	4.2	ug/L
|	Cu	63	90454.143	0.374	**71.625840**	0.55	0.8	ug/L
|	Cu	65	43551.646	0.180	**71.043936**	1.63	2.3	ug/L
|	Zn	66	15245.464	0.063	**38.843070**	0.85	2.2	ug/L
|	Zn	67	7241.835	0.015	**41.002814**	3.21	7.8	ug/L
|	Zn	68	9939.459	0.040	**35.624580**	0.97	2.7	ug/L
|	V	51	129708.114	0.591	**76.854178**	1.25	1.6	ug/L
|	Cr	52	136461.368	0.552	**78.111596**	1.86	2.4	ug/L
|	Cr	53	77451.413	0.111	**74.145997**	1.87	2.5	ug/L
|	Mn	55	245119.025	1.015	**87.522465**	4.42	5.1	ug/L
|	Fe	54	13266376.076	55.036	**105349.521393**	3399.51	3.2	ug/L
⌊	Fe	57	5815886.812	24.138	**101377.601916**	3256.81	3.2	ug/L
⌈	As	75	13924.826	0.034	**35.039858**	0.98	2.8	ug/L
|	Se	77	4647.423	0.005	**80.785359**	7.49	9.3	ug/L
|	Se	82	1049.719	0.003	**39.819048**	1.30	3.3	ug/L
|	Sr	88	24955.122	0.060	**7.146411**	0.28	4.0	ug/L
| >	Y	89	413276.664	413276.664				ug/L
|	Mo	95	1018407.935	2.465	**1739.143932**	42.74	2.5	ug/L
|	Mo	97	650543.564	1.574	**1762.104156**	13.08	0.7	ug/L
⌊	Mo	98	1662713.477	4.024	**1738.591118**	37.51	2.2	ug/L
⌈	Ag	107	27627.366	0.123	**17.342960**	0.58	3.4	ug/L
|	Ag	109	27634.727	0.123	**18.207981**	1.17	6.4	ug/L
|	Cd	111	13732.937	0.061	**39.846782**	2.59	6.5	ug/L
|	Cd	114	31925.788	0.142	**39.851959**	1.84	4.6	ug/L

|>	In	115	225528.812	225528.812				ug/L
|	Sn	120	2652.085	0.001	**0.400444**	0.02	6.0	ug/L
|	Sb	121	381.338	0.002	**1.064687**	0.00	0.5	ug/L
L	Sb	123	320.409	0.001	**1.150946**	0.01	0.8	ug/L
⌈	Ba	135	1867.456	0.007	**5.177145**	0.24	4.7	ug/L
|	Ba	137	3252.370	0.012	**5.567219**	0.10	1.9	ug/L
|	Tb	159	273221.673	-0.008				ug/L
|>	Ho	165	270313.527	270313.527				ug/L
|	Tl	203	304.003	0.001	**0.952900**	0.02	2.3	ug/L
|	Tl	205	700.684	0.003	**0.644132**	0.02	3.1	ug/L
L	Pb	208	30885.035	0.114	**9.298493**	0.36	3.9	ug/L
	Kr	83	49.800	11.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.740	
Ti	49			
Co	59			94.467
Ni	60			90.857
Ni	62			88.934
Cu	63			88.496
Cu	65			87.070
Zn	66			93.609
Zn	67			86.515
Zn	68			89.453
V	51			98.167
Cr	52			96.548
Cr	53			79.543
Mn	55			100.251
Fe	54			
Fe	57			
As	75			82.866
Se	77			75.120
Se	82			87.045
Sr	88			
Y	89		85.612	
Mo	95			
Mo	97			
Mo	98			
Ag	107			86.097
Ag	109			88.712
Cd	111			90.267
Cd	114			92.993
In	115		89.034	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	86.521
Tl	203	
Tl	205	
Pb	208	
Kr	83	

1103031240MS
3-3-11
RD

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
1	QC Std 2		QC Std
8	QC Std 3		QC Std
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
325	MBLK-98257 6020-D	55	Sample
326	LCS-98257	56	Sample
327	11020727-03B As, Ni, Zn	57	Sample
328	11020727-03BSD	58	Sample
329	11020727-03BMS ICPMS_110303E	59	Sample
330	11020727-03BMSD	60	Sample
331	11020727-03BPDS Reviewed By	61	Sample
332	11020727-03BPDSD	62	Sample
7	QC Std 4 KL 3/3/11		QC Std
8	QC Std 6		QC Std
333	11020727-22B Ni, Zn	63	Sample
X 5 359	11020727-22B As	64	Sample
334	11020727-32B As, Ni, Zn	65	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	66	Sample
10	ICSAB	67	Spike - 2 of 66

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
1	QC Std 2		QC Std
8	QC Std 3		QC Std
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
325	MBLK-98257	55	Sample
326	LCS-98257	56	Sample
327	11020727-03B	57	Sample
328	11020727-03BSD	58	Sample
329	11020727-03BMS	59	Sample
330	11020727-03BMSD	60	Sample
331	11020727-03BPDS	61	Sample
332	11020727-03BPDSD	62	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
333	11020727-22B	63	Sample
359	11020727-22B	64	Sample
334	11020727-32B	65	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	66	Sample
10	ICSAB	67	Spike - 2 of 66

Quantitative Analysis - Summary Report

Sample ID: Cal Blank
Sample Date/Time: Thursday, March 03, 2011 12:43:18
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\Cal Blank.001
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	11519.674					ug/L
|	Li	7	1088.041					ug/L
|	Be	9	4.000					ug/L
|	B	11	177.334					ug/L
|	Na	23	10937.560					ug/L
|	Mg	24	366.671					ug/L
|	Al	27	2435.208					ug/L
|	K	39	42998.060					ug/L
|	Ca	43	286.670					ug/L
\>	Sc	45	237631.851					ug/L
|	Ti	49	438.007					ug/L
|	Co	59	81.334					ug/L
|	Ni	60	50.000					ug/L
|	Ni	62	46.667					ug/L
|	Cu	63	210.002					ug/L
|	Cu	65	106.667					ug/L
|	Zn	66	472.008					ug/L
|	Zn	67	1562.753					ug/L
|	Zn	68	337.337					ug/L
|	V	51	-5235.522					ug/L
|	Cr	52	2292.184					ug/L
|	Cr	53	23424.032					ug/L
|	Mn	55	271.336					ug/L
|	Fe	54	8482.526					ug/L
⌞	Fe	57	1678.765					ug/L
⌜	As	75	88.028					ug/L
|	Se	77	1445.406					ug/L
|	Se	82	2.312					ug/L
|	Sr	88	225.335					ug/L
\>	Y	89	398611.431					ug/L
|	Mo	95	87.334					ug/L
|	Mo	97	64.667					ug/L
⌞	Mo	98	167.782					ug/L
⌜	Ag	107	11.333					ug/L
|	Ag	109	10.667					ug/L
|	Cd	111	4.167					ug/L
|	Cd	114	10.817					ug/L

|>	In	115	222831.798	ug/L
|	Sn	120	2816.597	ug/L
|	Sb	121	66.000	ug/L
\L	Sb	123	100.560	ug/L
\[	Ba	135	58.000	ug/L
|	Ba	137	80.000	ug/L
|	Tb	159	288462.887	ug/L
|>	Ho	165	297557.034	ug/L
|	Tl	203	8.667	ug/L
|	Tl	205	16.667	ug/L
\L	Pb	208	67.333	ug/L
	Kr	83	28.267	ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 1
Sample Date/Time: Thursday, March 03, 2011 12:45:59
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\Std 1.002
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	11551.293	0.000				ug/L
|	Li	7	1460.075	0.002				ug/L
|	Be	9	101.334	0.000				ug/L
|	B	11	230.002	0.000				ug/L
|	Na	23	13406.290	0.010				ug/L
|	Mg	24	2466.880	0.009				ug/L
|	Al	27	8669.297	0.026				ug/L
|	K	39	44168.250	0.005				ug/L
|	Ca	43	352.004	0.000				ug/L
| >	Sc	45	238186.983	238186.983				ug/L
|	Ti	49	570.678	0.001				ug/L
|	Co	59	2378.865	0.010				ug/L
|	Ni	60	558.011	0.002				ug/L
|	Ni	62	125.334	0.000				ug/L
|	Cu	63	1511.413	0.005				ug/L
|	Cu	65	733.352	0.003				ug/L
|	Zn	66	697.350	0.001				ug/L
|	Zn	67	2370.864	0.003				ug/L
|	Zn	68	549.344	0.001				ug/L
|	V	51	-6732.312	-0.006				ug/L
|	Cr	52	4378.004	0.009				ug/L
|	Cr	53	32928.029	0.040				ug/L
|	Mn	55	3398.404	0.013				ug/L
|	Fe	54	9576.387	0.005				ug/L
⌊	Fe	57	2164.164	0.002				ug/L
⌈	As	75	376.809	0.001				ug/L
|	Se	77	1953.467	0.001				ug/L
|	Se	82	130.295	0.000				ug/L
|	Sr	88	4069.247	0.010				ug/L
| >	Y	89	385522.686	385522.686				ug/L
|	Mo	95	620.680	0.001				ug/L
|	Mo	97	383.339	0.001				ug/L
⌊	Mo	98	992.336	0.002				ug/L
⌈	Ag	107	1578.754	0.007				ug/L
|	Ag	109	1586.755	0.007				ug/L
|	Cd	111	388.005	0.002				ug/L
|	Cd	114	926.392	0.004				ug/L

|>	In	115	220632.978	220632.978	ug/L
|	Sn	120	4306.966	0.007	ug/L
|	Sb	121	1634.094	0.007	ug/L
|	Sb	123	1306.535	0.005	ug/L
|	Ba	135	405.339	0.001	ug/L
|	Ba	137	753.353	0.002	ug/L
|	Tb	159	290217.873	0.025	ug/L
|>	Ho	165	291963.591	291963.591	ug/L
|	Tl	203	1336.729	0.005	ug/L
|	Tl	205	3181.688	0.011	ug/L
|	Pb	208	4464.275	0.015	ug/L
	Kr	83	30.533	2.267	ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 2
Sample Date/Time: Thursday, March 03, 2011 12:48:40
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\Std 2.003
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	11097.257	-0.001				ug/L
|	Li	7	2556.896	0.006	**5.000000**	0.19	3.8	ug/L
|	Be	9	450.007	0.002	**5.000000**	0.38	7.5	ug/L
|	B	11	601.346	0.002	**5.000000**	0.32	6.4	ug/L
|	Na	23	26090.475	0.066	**50.000000**	0.83	1.7	ug/L
|	Mg	24	10904.161	0.045	**50.000000**	1.77	3.5	ug/L
|	Al	27	38612.111	0.155	**55.000000**	0.79	1.4	ug/L
|	K	39	58820.958	0.071	**50.000000**	4.16	8.3	ug/L
|	Ca	43	446.674	0.001	**50.000000**	7.46	14.9	ug/L
| >	Sc	45	233063.769	233063.769				ug/L
|	Ti	49	987.367	0.002	**5.000000**	0.47	9.5	ug/L
|	Co	59	10773.400	0.046	**5.000000**	0.29	5.7	ug/L
|	Ni	60	2384.199	0.010	**5.000000**	0.11	2.3	ug/L
|	Ni	62	369.338	0.001	**5.000000**	0.29	5.8	ug/L
|	Cu	63	6228.692	0.026	**5.000000**	0.09	1.8	ug/L
|	Cu	65	2953.639	0.012	**5.000000**	0.17	3.3	ug/L
|	Zn	66	2106.822	0.007	**5.000000**	0.12	2.3	ug/L
|	Zn	67	2937.637	0.006	**5.000000**	1.37	27.4	ug/L
|	Zn	68	1480.077	0.005	**5.000000**	0.20	4.0	ug/L
|	V	51	-15.899	0.022	**5.000000**	0.68	13.6	ug/L
|	Cr	52	10793.410	0.037	**5.000000**	0.14	2.9	ug/L
|	Cr	53	37306.715	0.061	**5.000000**	0.88	17.6	ug/L
|	Mn	55	14263.123	0.060	**5.000000**	0.21	4.2	ug/L
|	Fe	54	14924.795	0.028	**50.000000**	2.38	4.8	ug/L
⌊	Fe	57	4265.971	0.011	**50.000000**	2.60	5.2	ug/L
⌈	As	75	1641.502	0.004	**5.000000**	0.23	4.5	ug/L
|	Se	77	2495.551	0.003	**25.000000**	1.54	6.2	ug/L
|	Se	82	651.634	0.002	**25.000000**	0.94	3.8	ug/L
|	Sr	88	17655.573	0.045	**5.000000**	0.12	2.4	ug/L
| >	Y	89	385439.430	385439.430				ug/L
|	Mo	95	2549.561	0.006	**5.000000**	0.19	3.9	ug/L
|	Mo	97	1697.434	0.004	**5.000000**	0.20	4.0	ug/L
⌊	Mo	98	4227.000	0.011	**5.000000**	0.24	4.7	ug/L
⌈	Ag	107	7398.582	0.033	**5.000000**	0.04	0.8	ug/L
|	Ag	109	7223.826	0.032	**5.000000**	0.10	1.9	ug/L
|	Cd	111	1699.768	0.008	**5.000000**	0.06	1.3	ug/L
|	Cd	114	3969.032	0.018	**5.000000**	0.18	3.7	ug/L

|>	In	115	222812.831	222812.831				ug/L
|	Sn	120	10183.367	0.033	**5.000000**	0.22	4.3	ug/L
|	Sb	121	7299.865	0.032	**5.000000**	0.06	1.2	ug/L
|	Sb	123	5530.470	0.024	**5.000000**	0.13	2.6	ug/L
|	Ba	135	1925.463	0.007	**5.000000**	0.18	3.6	ug/L
|	Ba	137	3202.359	0.011	**5.000000**	0.19	3.7	ug/L
|	Tb	159	284291.189	0.019				ug/L
|>	Ho	165	287468.763	287468.763				ug/L
|	Tl	203	5820.519	0.020	**5.000000**	0.18	3.6	ug/L
|	Tl	205	14322.510	0.050	**5.000000**	0.11	2.1	ug/L
|	Pb	208	19669.325	0.068	**5.000000**	0.14	2.8	ug/L
	Kr	83	31.733	3.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 3
Sample Date/Time: Thursday, March 03, 2011 12:51:21
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\Std 3.004
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10767.879	-0.002				ug/L
|	Li	7	16131.771	0.065	**50.010912**	0.31	0.6	ug/L
|	Be	9	4024.567	0.017	**49.983627**	1.04	2.1	ug/L
|	B	11	4179.278	0.017	**49.970980**	1.59	3.2	ug/L
|	Na	23	67427.913	0.244	**105.406207**	64.81	61.5	ug/L
|	Mg	24	30870.526	0.131	**103.856965**	40.94	39.4	ug/L
|	Al	27	118085.047	0.498	**151.174701**	33.68	22.3	ug/L
|	K	39	93956.750	0.223	**103.638275**	46.10	44.5	ug/L
|	Ca	43	865.361	0.003	**106.519957**	43.71	41.0	ug/L
| >	Sc	45	232770.472	232770.472				ug/L
|	Ti	49	5643.782	0.022	**49.993846**	1.98	4.0	ug/L
|	Co	59	102302.328	0.439	**49.993975**	0.45	0.9	ug/L
|	Ni	60	22450.969	0.096	**49.995399**	1.76	3.5	ug/L
|	Ni	62	3265.707	0.014	**50.007060**	1.97	3.9	ug/L
|	Cu	63	55546.459	0.238	**49.986821**	1.07	2.1	ug/L
|	Cu	65	26592.730	0.114	**49.989999**	0.82	1.6	ug/L
|	Zn	66	16721.783	0.070	**49.984741**	1.32	2.6	ug/L
|	Zn	67	5647.783	0.018	**49.765947**	2.00	4.0	ug/L
|	Zn	68	12102.459	0.051	**50.000630**	1.51	3.0	ug/L
|	V	51	75576.835	0.347	**50.003343**	2.55	5.1	ug/L
|	Cr	52	80703.451	0.337	**49.992579**	1.92	3.8	ug/L
|	Cr	53	49184.541	0.113	**49.479250**	2.92	5.9	ug/L
|	Mn	55	133818.221	0.574	**49.995529**	1.88	3.8	ug/L
|	Fe	54	23196.245	0.064	**101.166363**	17.65	17.4	ug/L
⌊	Fe	57	7747.447	0.026	**101.679109**	12.73	12.5	ug/L
⌈	As	75	17092.857	0.043	**50.008467**	1.59	3.2	ug/L
|	Se	77	7115.105	0.014	**249.703777**	2.88	1.2	ug/L
|	Se	82	6264.644	0.016	**249.938353**	0.55	0.2	ug/L
|	Sr	88	166502.714	0.420	**49.990745**	0.31	0.6	ug/L
| >	Y	89	395661.845	395661.845				ug/L
|	Mo	95	24352.072	0.061	**49.995923**	0.08	0.2	ug/L
|	Mo	97	15053.261	0.038	**49.977465**	0.40	0.8	ug/L
⌊	Mo	98	39427.387	0.099	**49.989529**	0.60	1.2	ug/L
⌈	Ag	107	69473.210	0.306	**49.988346**	0.44	0.9	ug/L
|	Ag	109	67432.214	0.297	**49.988566**	1.25	2.5	ug/L
|	Cd	111	15838.610	0.070	**49.990198**	0.51	1.0	ug/L
|	Cd	114	37465.706	0.165	**49.993914**	1.50	3.0	ug/L

|>	In	115	226684.657	226684.657				ug/L
|	Sn	120	76229.977	0.324	**49.997762**	0.89	1.8	ug/L
|	Sb	121	67533.925	0.298	**49.987797**	0.38	0.8	ug/L
|	Sb	123	53007.246	0.233	**49.997199**	0.33	0.7	ug/L
⌈	Ba	135	17126.261	0.059	**49.978381**	0.51	1.0	ug/L
|	Ba	137	29874.538	0.103	**49.993363**	0.92	1.8	ug/L
|	Tb	159	288624.825	0.031				ug/L
|>	Ho	165	288433.061	288433.061				ug/L
|	Tl	203	56135.418	0.195	**49.998197**	1.21	2.4	ug/L
|	Tl	205	135787.643	0.471	**49.993465**	1.01	2.0	ug/L
⌊	Pb	208	189288.768	0.656	**49.997253**	1.59	3.2	ug/L
	Kr	83	35.533	7.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 4
Sample Date/Time: Thursday, March 03, 2011 12:54:02
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\Std 4.005
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10296.547	-0.005				ug/L
|	Li	7	30956.175	0.127	**99.639284**	2.15	2.2	ug/L
|	Be	9	8253.718	0.035	**100.267651**	0.80	0.8	ug/L
|	B	11	8491.192	0.035	**100.383547**	2.66	2.6	ug/L
|	Na	23	364665.123	1.500	**996.626678**	16.94	1.7	ug/L
|	Mg	24	225465.701	0.955	**998.047529**	34.83	3.5	ug/L
|	Al	27	767505.745	3.242	**1098.380101**	33.25	3.0	ug/L
|	K	39	435268.529	1.664	**997.942304**	30.72	3.1	ug/L
|	Ca	43	3421.743	0.013	**995.841163**	11.42	1.1	ug/L
| >	Sc	45	235928.168	235928.168				ug/L
|	Ti	49	10860.127	0.044	**99.814664**	3.70	3.7	ug/L
|	Co	59	208963.126	0.886	**100.174606**	4.56	4.6	ug/L
|	Ni	60	46232.022	0.196	**100.316814**	2.27	2.3	ug/L
|	Ni	62	6834.969	0.029	**100.686816**	0.64	0.6	ug/L
|	Cu	63	114592.512	0.485	**100.379356**	0.67	0.7	ug/L
|	Cu	65	54560.050	0.231	**100.287202**	3.29	3.3	ug/L
|	Zn	66	34607.212	0.145	**100.568299**	3.30	3.3	ug/L
|	Zn	67	8485.187	0.029	**98.460017**	1.17	1.2	ug/L
|	Zn	68	24315.346	0.102	**100.060184**	0.56	0.6	ug/L
|	V	51	160327.759	0.702	**99.869160**	2.95	3.0	ug/L
|	Cr	52	160669.231	0.672	**99.999474**	3.64	3.6	ug/L
|	Cr	53	59272.070	0.153	**95.533379**	6.51	6.8	ug/L
|	Mn	55	265937.587	1.127	**99.711066**	3.82	3.8	ug/L
|	Fe	54	142129.499	0.567	**999.257569**	34.33	3.4	ug/L
⌊	Fe	57	59855.148	0.247	**999.591456**	14.72	1.5	ug/L
⌈	As	75	34970.012	0.090	**100.696682**	3.85	3.8	ug/L
|	Se	77	12406.052	0.028	**502.898063**	16.89	3.4	ug/L
|	Se	82	13145.428	0.034	**505.655735**	10.23	2.0	ug/L
|	Sr	88	337009.449	0.866	**100.559164**	0.96	1.0	ug/L
| >	Y	89	388814.082	388814.082				ug/L
|	Mo	95	49276.849	0.127	**100.557053**	0.22	0.2	ug/L
|	Mo	97	30860.639	0.079	**100.807951**	2.66	2.6	ug/L
⌊	Mo	98	80633.678	0.207	**100.745043**	1.25	1.2	ug/L
⌈	Ag	107	143788.024	0.656	**101.188802**	2.70	2.7	ug/L
|	Ag	109	138329.207	0.631	**101.055375**	3.60	3.6	ug/L
|	Cd	111	32676.500	0.149	**101.153950**	3.99	3.9	ug/L
|	Cd	114	75788.415	0.346	**100.819161**	2.17	2.2	ug/L

|>	In	115	219231.642	219231.642				ug/L
|	Sn	120	153659.150	0.688	**101.046421**	0.99	1.0	ug/L
|	Sb	121	137998.668	0.629	**100.994551**	2.90	2.9	ug/L
|	Sb	123	106564.401	0.486	**100.713023**	2.37	2.4	ug/L
|	Ba	135	34819.053	0.119	**100.198622**	1.72	1.7	ug/L
|	Ba	137	60550.067	0.208	**100.134308**	2.70	2.7	ug/L
|	Tb	159	284882.702	0.010				ug/L
|>	Ho	165	290960.181	290960.181				ug/L
|	Tl	203	112719.053	0.387	**99.950868**	2.55	2.5	ug/L
|	Tl	205	273782.842	0.941	**100.024571**	0.22	0.2	ug/L
|	Pb	208	373234.460	1.283	**99.630607**	1.02	1.0	ug/L
	Kr	83	31.467	3.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 5
Sample Date/Time: Thursday, March 03, 2011 12:56:42
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\Std 5.006
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	8840.559	-0.011				ug/L
|	Li	7	62101.432	0.262	**201.244882**	10.13	5.0	ug/L
|	Be	9	17027.477	0.073	**201.823963**	8.48	4.2	ug/L
|	B	11	16994.110	0.072	**201.057174**	11.83	5.9	ug/L
|	Na	23	3224919.226	13.817	**9994.884359**	385.95	3.9	ug/L
|	Mg	24	2185675.721	9.392	**9999.426123**	259.02	2.6	ug/L
|	Al	27	6559247.646	28.200	**10194.689318**	671.26	6.6	ug/L
|	K	39	3787169.364	16.099	**9997.851060**	385.32	3.9	ug/L
|	Ca	43	28325.422	0.121	**9994.764490**	559.46	5.6	ug/L
| >	Sc	45	232778.022	232778.022				ug/L
|	Ti	49	21296.529	0.090	**200.544755**	4.56	2.3	ug/L
|	Co	59	405328.180	1.741	**199.411519**	3.58	1.8	ug/L
|	Ni	60	90247.512	0.388	**199.723735**	5.70	2.9	ug/L
|	Ni	62	13459.672	0.058	**200.263809**	7.58	3.8	ug/L
|	Cu	63	221524.629	0.951	**199.394785**	0.62	0.3	ug/L
|	Cu	65	105760.892	0.454	**199.479020**	5.38	2.7	ug/L
|	Zn	66	66844.083	0.285	**199.539841**	0.44	0.2	ug/L
|	Zn	67	13733.266	0.052	**197.654123**	9.94	5.0	ug/L
|	Zn	68	46476.842	0.198	**199.028829**	2.90	1.5	ug/L
|	V	51	332221.936	1.450	**200.812339**	6.89	3.4	ug/L
|	Cr	52	311331.309	1.329	**199.648329**	6.29	3.2	ug/L
|	Cr	53	77520.447	0.235	**193.684006**	6.73	3.5	ug/L
|	Mn	55	530382.633	2.279	**200.387072**	6.08	3.0	ug/L
|	Fe	54	1198868.721	5.117	**9992.503773**	327.60	3.3	ug/L
⌊	Fe	57	534807.105	2.292	**9994.521845**	342.25	3.4	ug/L
⌈	As	75	68876.026	0.181	**200.506161**	1.07	0.5	ug/L
|	Se	77	22455.638	0.056	**1001.922738**	26.85	2.7	ug/L
|	Se	82	25658.951	0.068	**1001.571531**	8.51	0.8	ug/L
|	Sr	88	669748.623	1.765	**200.886284**	3.91	1.9	ug/L
| >	Y	89	379439.015	379439.015				ug/L
|	Mo	95	98424.607	0.259	**201.070504**	3.95	2.0	ug/L
|	Mo	97	61668.274	0.162	**201.172802**	6.86	3.4	ug/L
⌊	Mo	98	160811.042	0.423	**201.063983**	4.27	2.1	ug/L
⌈	Ag	107	276989.104	1.288	**199.653527**	1.89	0.9	ug/L
|	Ag	109	276916.286	1.288	**201.065135**	4.46	2.2	ug/L
|	Cd	111	63822.614	0.297	**200.172722**	3.38	1.7	ug/L
|	Cd	114	151505.446	0.705	**200.959404**	6.21	3.1	ug/L

|>	In	115	214973.721	214973.721				ug/L
|	Sn	120	289982.901	1.336	**199.133298**	3.49	1.8	ug/L
|	Sb	121	268519.721	1.249	**199.999112**	0.44	0.2	ug/L
|	Sb	123	209626.871	0.975	**200.330194**	2.15	1.1	ug/L
⌈	Ba	135	68943.316	0.241	**200.442779**	9.95	5.0	ug/L
|	Ba	137	119415.122	0.418	**200.255317**	10.32	5.2	ug/L
|	Tb	159	282073.772	0.018				ug/L
|>	Ho	165	285973.002	285973.002				ug/L
|	Tl	203	223592.923	0.783	**200.395115**	7.35	3.7	ug/L
|	Tl	205	531833.421	1.862	**199.647565**	10.87	5.4	ug/L
⌊	Pb	208	745750.016	2.610	**200.600551**	9.34	4.7	ug/L
	Kr	83	34.267	6.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

File Name: 03-03.2.cal
File Path: C:\Elandata\System\03-03.2.cal
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Li	6.015	Simple Linear	0.000000000	0.000000000	0.000000
Li	7.016	Simple Linear	0.001307685	-0.000759386	0.999836
Be	9.012	Simple Linear	0.000364688	-0.000416385	0.999669
B	11.009	Simple Linear	0.000361662	-0.000383660	0.999873
Na	22.990	Simple Linear	0.001377048	0.053891622	0.999951
Mg	23.985	Simple Linear	0.000937920	0.012838736	0.999992
Al	26.982	Simple Linear	0.002759432	0.068761306	0.999976
K	38.964	Simple Linear	0.001607905	0.023633198	0.999988
Ca	42.959	Simple Linear	0.000011991	0.000706396	0.999936
Sc	44.956	Simple Linear	0.000000000	0.000000000	0.000000
Ti	48.948	Simple Linear	0.000447115	0.000014372	0.999967
Co	58.933	Simple Linear	0.008711662	0.004128232	0.999963
Ni	59.933	Simple Linear	0.001939664	0.000275511	0.999982
Ni	61.928	Simple Linear	0.000288721	-0.000159330	0.999943
Cu	62.930	Simple Linear	0.004756762	0.002252297	0.999948
Cu	64.928	Simple Linear	0.002270799	0.001022897	0.999964
Zn	65.926	Simple Linear	0.001430733	-0.000308906	0.999943
Zn	66.927	Simple Linear	0.000242581	0.004513075	0.998816
Zn	67.925	Simple Linear	0.000993523	0.000524527	0.999908
V	50.944	Simple Linear	0.007307799	-0.017406370	0.999934
Cr	51.941	Simple Linear	0.006632830	0.004302556	0.999988
Cr	52.941	Simple Linear	0.000933491	0.053747944	0.990532
Mn	54.938	Simple Linear	0.011363912	0.001340396	0.999977
Fe	53.940	Simple Linear	0.000510428	0.016977806	0.999947
Fe	56.935	Simple Linear	0.000228811	0.004873992	0.999972
As	74.922	Simple Linear	0.000908956	-0.000955256	0.999924
Se	76.920	Simple Linear	0.000054287	0.001174966	0.999934
Se	81.917	Simple Linear	0.000067795	-0.000280037	0.999855
Sr	87.906	Simple Linear	0.008816566	-0.006483794	0.999892
Y	88.905	Simple Linear	0.000000000	0.000000000	0.000000
Mo	94.906	Simple Linear	0.001295449	-0.001267540	0.999857
Mo	96.906	Simple Linear	0.000811338	-0.000859049	0.999799
Mo	97.906	Simple Linear	0.002117297	-0.002283558	0.999834
Ag	106.905	Simple Linear	0.006463112	-0.001923007	0.999834
Ag	108.905	Simple Linear	0.006444235	-0.007551497	0.999777
Cd	110.904	Simple Linear	0.001487391	-0.000860064	0.999856
Cd	113.904	Simple Linear	0.003522607	-0.003300896	0.999842
In	114.904	Simple Linear	0.000000000	0.000000000	0.000000
Sn	119.902	Simple Linear	0.006710435	-0.000163737	0.999805
Sb	120.904	Simple Linear	0.006255288	-0.002284194	0.999894
Sb	122.904	Simple Linear	0.004878176	-0.002582596	0.999936
Ba	134.906	Simple Linear	0.001204443	-0.000247912	0.999975
Ba	136.905	Simple Linear	0.002087229	-0.000171472	0.999992
Tb	158.925	Simple Linear	0.000000000	0.000000000	0.000000
Ho	164.930	Simple Linear	0.000000000	0.000000000	0.000000
Tl	202.972	Simple Linear	0.003906016	-0.000237834	0.999985
Tl	204.975	Simple Linear	0.009304995	0.004372721	0.999988
Pb	207.977	Simple Linear	0.013012579	0.000003463	0.999951

Kr	82.914	Simple Linear	0.000000000	0.000000000	0.000000

Quantitative Analysis - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Thursday, March 03, 2011 12:59:23
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\QC Std 1.007
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10188.576	-0.005				ug/L
|	Li	7	31580.202	0.129	**98.962398**	1.72	1.7	ug/L
|	Be	9	8608.595	0.036	**100.686671**	3.84	3.8	ug/L
|	B	11	8689.978	0.036	**100.379632**	4.57	4.6	ug/L
|	Na	23	1711073.499	7.173	**5170.071199**	160.00	3.1	ug/L
|	Mg	24	1152303.022	4.861	**5168.606057**	222.21	4.3	ug/L
|	Al	27	3449399.953	14.545	**5245.912788**	217.91	4.2	ug/L
|	K	39	1973670.689	8.148	**5052.510865**	266.63	5.3	ug/L
|	Ca	43	14806.346	0.061	**5048.200368**	181.90	3.6	ug/L
| >	Sc	45	237060.197	237060.197				ug/L
|	Ti	49	10893.486	0.044	**98.626470**	1.79	1.8	ug/L
|	Co	59	202675.931	0.855	**97.620945**	1.02	1.0	ug/L
|	Ni	60	44794.828	0.189	**97.155419**	1.87	1.9	ug/L
|	Ni	62	6610.865	0.028	**96.432335**	3.93	4.1	ug/L
|	Cu	63	110516.743	0.465	**97.343606**	2.41	2.5	ug/L
|	Cu	65	52023.937	0.219	**95.990277**	2.29	2.4	ug/L
|	Zn	66	32929.915	0.137	**95.934055**	2.44	2.5	ug/L
|	Zn	67	8682.642	0.030	**105.234892**	5.52	5.2	ug/L
|	Zn	68	23304.328	0.097	**96.987762**	0.36	0.4	ug/L
|	V	51	158482.706	0.691	**96.892614**	2.03	2.1	ug/L
|	Cr	52	158461.407	0.659	**98.674610**	0.10	0.1	ug/L
|	Cr	53	62778.347	0.166	**120.495091**	3.65	3.0	ug/L
|	Mn	55	262476.001	1.106	**97.219759**	0.86	0.9	ug/L
|	Fe	54	638209.153	2.657	**5171.679375**	88.10	1.7	ug/L
⌊	Fe	57	285406.883	1.197	**5209.716140**	30.33	0.6	ug/L
⌈	As	75	33640.706	0.086	**95.959369**	3.54	3.7	ug/L
|	Se	77	12240.578	0.028	**491.404976**	29.23	5.9	ug/L
|	Se	82	12673.728	0.033	**484.626699**	14.53	3.0	ug/L
|	Sr	88	334920.191	0.860	**98.324905**	2.95	3.0	ug/L
| >	Y	89	389188.338	389188.338				ug/L
|	Mo	95	49056.788	0.126	**98.159405**	3.76	3.8	ug/L
|	Mo	97	30865.317	0.079	**98.665169**	3.85	3.9	ug/L
⌊	Mo	98	79755.502	0.205	**97.737342**	4.80	4.9	ug/L
⌈	Ag	107	139875.574	0.647	**100.382897**	3.71	3.7	ug/L
|	Ag	109	136575.107	0.632	**99.177061**	3.11	3.1	ug/L
|	Cd	111	32114.227	0.149	**100.434254**	4.01	4.0	ug/L
|	Cd	114	75417.022	0.349	**99.971768**	4.83	4.8	ug/L

|>	In	115	216376.198	216376.198				ug/L
|	Sn	120	150701.282	0.684	**101.998864**	3.56	3.5	ug/L
|	Sb	121	137207.835	0.634	**101.773155**	3.96	3.9	ug/L
\L	Sb	123	106936.410	0.494	**101.837331**	4.36	4.3	ug/L
|	Ba	135	34998.846	0.119	**99.403973**	3.92	3.9	ug/L
|	Ba	137	60530.665	0.207	**99.122371**	3.41	3.4	ug/L
|	Tb	159	282903.101	-0.002				ug/L
|>	Ho	165	292566.454	292566.454				ug/L
|	Tl	203	112761.440	0.386	**98.764187**	3.32	3.4	ug/L
|	Tl	205	272056.649	0.930	**99.513034**	3.78	3.8	ug/L
\L	Pb	208	379408.448	1.297	**99.702604**	4.03	4.0	ug/L
	Kr	83	32.333	4.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	98.962		
Be	9	100.687		
B	11	100.380		
Na	23	103.401		
Mg	24	103.372		
Al	27	102.861		
K	39	101.050		
Ca	43	100.964		
Sc	45		99.759	
Ti	49	98.626		
Co	59	97.621		
Ni	60	97.155		
Ni	62	96.432		
Cu	63	97.344		
Cu	65	95.990		
Zn	66	95.934		
Zn	67	105.235		
Zn	68	96.988		
V	51	96.893		
Cr	52	98.675		
Cr	53	120.495		
Mn	55	97.220		
Fe	54	103.434		
Fe	57	104.194		
As	75	95.959		
Se	77	98.281		
Se	82	96.925		
Sr	88	98.325		
Y	89		97.636	
Mo	95	98.159		
Mo	97	98.665		
Mo	98	97.737		
Ag	107	100.383		
Ag	109	99.177		
Cd	111	100.434		
Cd	114	99.972		
In	115		97.103	
Sn	120	101.999		
Sb	121	101.773		

Sb	123	101.837	
Ba	135	99.404	
Ba	137	99.122	
Tb	159		
Ho	165		98.323
Tl	203	98.764	
Tl	205	99.513	
Pb	208	99.703	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 2
Sample Date/Time: Thursday, March 03, 2011 13:05:01
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\QC Std 2.008
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	11439.830	-0.001				ug/L
|	Li	7	1727.438	0.003	**2.503929**	0.13	5.2	ug/L
|	Be	9	175.334	0.001	**3.071515**	0.45	14.5	ug/L
|	B	11	2016.809	0.008	**21.934839**	1.49	6.8	ug/L
|	Na	23	39721.909	0.117	**45.894842**	2.66	5.8	ug/L
|	Mg	24	11504.723	0.046	**35.229588**	9.88	28.1	ug/L
|	Al	27	36663.656	0.140	**25.989335**	1.96	7.5	ug/L
|	K	39	68932.693	0.103	**49.087922**	10.49	21.4	ug/L
|	Ca	43	1008.036	0.003	**185.530581**	23.37	12.6	ug/L
| >	Sc	45	243413.319	243413.319				ug/L
|	Ti	49	1108.710	0.003	**6.040339**	0.45	7.5	ug/L
|	Co	59	4599.407	0.019	**1.657765**	0.10	6.2	ug/L
|	Ni	60	1025.370	0.004	**1.924308**	0.21	11.0	ug/L
|	Ni	62	213.335	0.001	**2.904149**	0.26	8.8	ug/L
|	Cu	63	2513.555	0.009	**1.511626**	0.09	6.1	ug/L
|	Cu	65	1333.396	0.005	**1.763964**	0.03	1.8	ug/L
|	Zn	66	2372.197	0.008	**5.639930**	0.12	2.1	ug/L
|	Zn	67	3545.777	0.008	**14.247326**	4.66	32.7	ug/L
|	Zn	68	1636.094	0.005	**4.810739**	0.23	4.8	ug/L
|	V	51	6658.376	0.049	**9.151669**	1.13	12.4	ug/L
|	Cr	52	9985.490	0.031	**4.082597**	0.06	1.3	ug/L
|	Cr	53	44710.911	0.085	**33.370585**	12.66	37.9	ug/L
|	Mn	55	6052.616	0.024	**1.970465**	0.06	2.9	ug/L
|	Fe	54	23620.130	0.061	**87.021819**	6.01	6.9	ug/L
⌞	Fe	57	7646.047	0.024	**85.135500**	3.35	3.9	ug/L
⌜	As	75	1413.983	0.003	**4.782282**	0.17	3.6	ug/L
|	Se	77	2621.574	0.003	**34.915234**	6.45	18.5	ug/L
|	Se	82	132.212	0.000	**9.024851**	0.64	7.1	ug/L
|	Sr	88	3635.130	0.009	**1.724915**	0.05	3.1	ug/L
| >	Y	89	391393.304	391393.304				ug/L
|	Mo	95	1108.710	0.003	**2.996798**	0.19	6.3	ug/L
|	Mo	97	732.019	0.002	**3.164008**	0.04	1.4	ug/L
⌞	Mo	98	1806.123	0.004	**3.059582**	0.09	2.9	ug/L
⌜	Ag	107	1471.409	0.007	**1.311533**	0.01	1.1	ug/L
|	Ag	109	1484.077	0.007	**2.198259**	0.07	3.0	ug/L
|	Cd	111	701.851	0.003	**2.683590**	0.12	4.3	ug/L
|	Cd	114	1644.434	0.007	**3.018671**	0.08	2.5	ug/L

|>	In	115	222802.937	222802.937				ug/L
|	Sn	120	8983.186	0.028	**4.149979**	0.21	5.0	ug/L
|	Sb	121	7433.935	0.033	**5.651936**	0.15	2.7	ug/L
_	Sb	123	6052.929	0.027	**6.006454**	0.14	2.3	ug/L
⌈	Ba	135	1889.458	0.006	**5.368269**	0.29	5.4	ug/L
|	Ba	137	3222.364	0.011	**5.195628**	0.40	7.7	ug/L
|	Tb	159	286882.519	0.003				ug/L
|>	Ho	165	295074.952	295074.952				ug/L
|	Tl	203	2522.223	0.009	**2.242406**	0.06	2.7	ug/L
|	Tl	205	5919.226	0.020	**1.682516**	0.10	6.0	ug/L
_	Pb	208	4118.237	0.014	**1.056273**	0.06	5.4	ug/L
	Kr	83	32.600	4.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	125.196		
Be	9	153.576		
B	11	109.674		
Na	23	45.895		
Mg	24	70.459		
Al	27	51.979		
K	39	65.451		
Ca	43	92.765		
Sc	45		102.433	
Ti	49	120.807		
Co	59	82.888		
Ni	60	96.215		
Ni	62	145.207		
Cu	63	75.581		
Cu	65	88.198		
Zn	66	93.999		
Zn	67	237.455		
Zn	68	80.179		
V	51	91.517		
Cr	52	102.065		
Cr	53	834.265		
Mn	55	98.523		
Fe	54	87.022		
Fe	57	85.135		
As	75	119.557		
Se	77	698.305		
Se	82	180.497		
Sr	88	172.492		
Y	89		98.189	
Mo	95	149.840		
Mo	97	158.200		
Mo	98	152.979		
Ag	107	131.153		
Ag	109	219.826		
Cd	111	134.180		
Cd	114	150.934		
In	115		99.987	
Sn	120	103.749		
Sb	121	113.039		

Sb	123	120.129	
Ba	135	107.365	
Ba	137	103.913	
Tb	159		
Ho	165		99.166
Tl	203	112.120	
Tl	205	84.126	
Pb	208	105.627	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Thursday, March 03, 2011 13:07:51
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\QC Std 3.009
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	11138.082	-0.001				ug/L
|	Li	7	1020.703	-0.000	**0.389393**	0.16	39.9	ug/L
|	Be	9	8.667	0.000	**1.196495**	0.04	2.9	ug/L
|	B	11	218.668	0.000	**1.565107**	0.27	17.4	ug/L
|	Na	23	6368.108	-0.019	**-52.981143**	2.50	4.7	ug/L
|	Mg	24	100.001	-0.001	**-14.864292**	0.81	5.5	ug/L
|	Al	27	900.029	-0.006	**-27.245783**	0.21	0.8	ug/L
|	K	39	37114.857	-0.023	**-29.210277**	4.95	17.0	ug/L
|	Ca	43	406.673	0.001	**-15.851903**	13.82	87.2	ug/L
| >	Sc	45	235668.600	235668.600				ug/L
|	Ti	49	406.672	-0.000	**-0.291910**	0.41	139.3	ug/L
|	Co	59	86.667	0.000	**-0.471045**	0.01	1.7	ug/L
|	Ni	60	82.000	0.000	**-0.070994**	0.01	11.0	ug/L
|	Ni	62	53.333	0.000	**0.659890**	0.22	32.9	ug/L
|	Cu	63	254.669	0.000	**-0.432107**	0.00	1.1	ug/L
|	Cu	65	124.001	0.000	**-0.417183**	0.04	9.8	ug/L
|	Zn	66	254.669	-0.001	**-0.415425**	0.08	19.3	ug/L
|	Zn	67	3180.354	0.007	**9.934835**	1.10	11.0	ug/L
|	Zn	68	312.003	-0.000	**-0.624301**	0.17	27.3	ug/L
|	V	51	-9659.942	-0.019	**-0.218551**	0.71	325.6	ug/L
|	Cr	52	2802.942	0.002	**-0.308971**	0.05	16.2	ug/L
|	Cr	53	40586.255	0.074	**21.459247**	7.79	36.3	ug/L
|	Mn	55	341.337	0.000	**-0.090805**	0.01	9.2	ug/L
|	Fe	54	8482.783	0.000	**-32.594698**	3.95	12.1	ug/L
⌊	Fe	57	1616.758	-0.000	**-22.181913**	0.59	2.6	ug/L
⌈	As	75	120.171	0.000	**1.153446**	0.23	20.3	ug/L
|	Se	77	1922.129	0.001	**4.317715**	3.87	89.7	ug/L
|	Se	82	-3.109	-0.000	**3.924694**	0.11	2.9	ug/L
|	Sr	88	132.001	-0.000	**0.710500**	0.00	0.2	ug/L
| >	Y	89	381775.592	381775.592				ug/L
|	Mo	95	36.000	-0.000	**0.882075**	0.01	1.2	ug/L
|	Mo	97	24.000	-0.000	**0.936313**	0.01	0.6	ug/L
⌊	Mo	98	56.009	-0.000	**0.949044**	0.01	0.6	ug/L
⌈	Ag	107	10.667	-0.000	**0.296986**	0.00	1.4	ug/L
|	Ag	109	7.333	-0.000	**1.169463**	0.00	0.2	ug/L
|	Cd	111	5.167	0.000	**0.581200**	0.00	0.4	ug/L
|	Cd	114	20.803	0.000	**0.949597**	0.01	0.6	ug/L

|>	In	115	223905.973	223905.973				ug/L
|	Sn	120	2348.632	-0.002	**-0.293502**	0.22	73.8	ug/L
|	Sb	121	131.334	0.000	**0.411487**	0.01	3.0	ug/L
|	Sb	123	116.401	0.000	**0.543435**	0.02	3.2	ug/L
|	Ba	135	18.000	-0.000	**0.094748**	0.01	10.6	ug/L
|	Ba	137	32.000	-0.000	**0.005774**	0.02	314.3	ug/L
|	Tb	159	290038.762	0.019				ug/L
|>	Ho	165	293568.444	293568.444				ug/L
|	Tl	203	17.333	0.000	**0.068522**	0.00	3.5	ug/L
|	Tl	205	28.667	0.000	**-0.465461**	0.00	0.2	ug/L
|	Pb	208	103.333	0.000	**0.009474**	0.01	69.4	ug/L
	Kr	83	31.000	2.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		99.174	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		95.776	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		100.482	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	98.660
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, March 03, 2011 13:11:02
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\QC Std 4.010
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10269.691	-0.005				ug/L
|	Li	7	31283.551	0.129	**99.038442**	0.86	0.9	ug/L
|	Be	9	8525.213	0.036	**100.773699**	5.83	5.8	ug/L
|	B	11	8437.159	0.035	**98.404898**	2.00	2.0	ug/L
|	Na	23	1652069.091	6.995	**5040.379371**	103.21	2.0	ug/L
|	Mg	24	1081032.846	4.605	**4896.363637**	110.11	2.2	ug/L
|	Al	27	3471211.756	14.789	**5334.383160**	210.21	3.9	ug/L
|	K	39	1889091.678	7.868	**4878.751365**	128.60	2.6	ug/L
|	Ca	43	15575.153	0.065	**5377.069904**	91.89	1.7	ug/L
| >	Sc	45	234647.650	234647.650				ug/L
|	Ti	49	11032.258	0.045	**101.018292**	2.05	2.0	ug/L
|	Co	59	207836.105	0.886	**101.193531**	3.68	3.6	ug/L
|	Ni	60	46153.781	0.197	**101.184482**	3.00	3.0	ug/L
|	Ni	62	6857.647	0.029	**101.140288**	4.75	4.7	ug/L
|	Cu	63	111280.741	0.474	**99.087052**	4.89	4.9	ug/L
|	Cu	65	53995.214	0.230	**100.708874**	3.05	3.0	ug/L
|	Zn	66	33761.226	0.142	**99.446555**	5.70	5.7	ug/L
|	Zn	67	8587.914	0.030	**105.166301**	1.64	1.6	ug/L
|	Zn	68	23543.385	0.099	**99.050273**	1.93	2.0	ug/L
|	V	51	162845.702	0.716	**100.386479**	3.48	3.5	ug/L
|	Cr	52	161554.507	0.679	**101.714988**	2.33	2.3	ug/L
|	Cr	53	62914.378	0.169	**123.982106**	7.31	5.9	ug/L
|	Mn	55	272275.910	1.160	**101.935336**	4.70	4.6	ug/L
|	Fe	54	662270.374	2.788	**5427.880025**	192.75	3.6	ug/L
⌊	Fe	57	288419.076	1.223	**5322.140936**	251.99	4.7	ug/L
⌈	As	75	33768.959	0.089	**99.266249**	3.59	3.6	ug/L
|	Se	77	12555.517	0.030	**524.552781**	7.92	1.5	ug/L
|	Se	82	12832.411	0.034	**505.709963**	10.57	2.1	ug/L
|	Sr	88	333148.341	0.882	**100.823041**	1.56	1.5	ug/L
| >	Y	89	377279.361	377279.361				ug/L
|	Mo	95	48808.578	0.129	**100.690025**	2.17	2.2	ug/L
|	Mo	97	31315.619	0.083	**103.171647**	1.13	1.1	ug/L
⌊	Mo	98	81250.523	0.215	**102.596291**	1.35	1.3	ug/L
⌈	Ag	107	142209.186	0.660	**102.423091**	4.65	4.5	ug/L
|	Ag	109	139958.538	0.650	**101.987971**	5.17	5.1	ug/L
|	Cd	111	32747.493	0.152	**102.742006**	3.51	3.4	ug/L
|	Cd	114	75744.829	0.352	**100.726287**	4.10	4.1	ug/L

|>	In	115	215606.707	215606.707				ug/L
|	Sn	120	149254.774	0.680	**101.370519**	3.90	3.9	ug/L
|	Sb	121	137281.945	0.637	**102.187230**	4.50	4.4	ug/L
_	Sb	123	107263.377	0.498	**102.517965**	5.71	5.6	ug/L
⌈	Ba	135	34816.413	0.121	**100.857241**	5.46	5.4	ug/L
|	Ba	137	60584.975	0.211	**101.185504**	5.48	5.4	ug/L
|	Tb	159	284710.758	0.023				ug/L
|>	Ho	165	286922.692	286922.692				ug/L
|	Tl	203	113523.481	0.396	**101.401922**	4.41	4.4	ug/L
|	Tl	205	274243.453	0.956	**102.278295**	2.79	2.7	ug/L
_	Pb	208	379291.765	1.322	**101.616716**	3.73	3.7	ug/L
	Kr	83	31.667	3.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	99.038		
Be	9	100.774		
B	11	98.405		
Na	23	100.808		
Mg	24	97.927		
Al	27	104.596		
K	39	97.575		
Ca	43	107.541		
Sc	45		98.744	
Ti	49	101.018		
Co	59	101.194		
Ni	60	101.184		
Ni	62	101.140		
Cu	63	99.087		
Cu	65	100.709		
Zn	66	99.447		
Zn	67	105.166		
Zn	68	99.050		
V	51	100.386		
Cr	52	101.715		
Cr	53	123.982		
Mn	55	101.935		
Fe	54	108.558		
Fe	57	106.443		
As	75	99.266		
Se	77	104.911		
Se	82	101.142		
Sr	88	100.823		
Y	89		94.648	
Mo	95	100.690		
Mo	97	103.172		
Mo	98	102.596		
Ag	107	102.423		
Ag	109	101.988		
Cd	111	102.742		
Cd	114	100.726		
In	115		96.758	
Sn	120	101.371		
Sb	121	102.187		

Sb	123	102.518	
Ba	135	100.857	
Ba	137	101.186	
Tb	159		
Ho	165		96.426
Tl	203	101.402	
Tl	205	102.278	
Pb	208	101.617	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Thursday, March 03, 2011 13:16:11
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\QC Std 5.011
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	11200.279	-0.002				ug/L
|	Li	7	1652.762	0.002	**2.306083**	0.22	9.7	ug/L
|	Be	9	187.335	0.001	**3.218257**	0.28	8.7	ug/L
|	B	11	1971.469	0.007	**21.536726**	0.52	2.4	ug/L
|	Na	23	40022.719	0.119	**47.626391**	6.08	12.8	ug/L
|	Mg	24	11004.262	0.044	**33.190519**	4.90	14.8	ug/L
|	Al	27	36478.220	0.141	**26.010988**	1.60	6.1	ug/L
|	K	39	69669.497	0.107	**51.888054**	1.21	2.3	ug/L
|	Ca	43	997.368	0.003	**184.260594**	25.12	13.6	ug/L
| >	Sc	45	241903.880	241903.880				ug/L
|	Ti	49	1133.378	0.003	**6.327748**	0.36	5.6	ug/L
|	Co	59	4392.676	0.018	**1.570833**	0.05	3.5	ug/L
|	Ni	60	984.034	0.004	**1.847023**	0.07	3.8	ug/L
|	Ni	62	200.001	0.001	**2.738530**	0.34	12.3	ug/L
|	Cu	63	2728.261	0.010	**1.712598**	0.09	5.3	ug/L
|	Cu	65	1234.720	0.005	**1.600546**	0.11	6.9	ug/L
|	Zn	66	2517.555	0.008	**6.103412**	0.19	3.2	ug/L
|	Zn	67	3621.798	0.008	**15.943151**	7.58	47.5	ug/L
|	Zn	68	1928.130	0.007	**6.066667**	0.27	4.5	ug/L
|	V	51	7738.090	0.054	**9.776728**	0.29	3.0	ug/L
|	Cr	52	9822.711	0.031	**4.018075**	0.10	2.4	ug/L
|	Cr	53	45272.011	0.088	**37.171747**	15.43	41.5	ug/L
|	Mn	55	6037.942	0.024	**1.978173**	0.02	1.0	ug/L
|	Fe	54	23515.221	0.062	**87.293058**	7.50	8.6	ug/L
⌊	Fe	57	7650.716	0.025	**86.086157**	5.01	5.8	ug/L
⌜	As	75	1333.854	0.003	**4.484126**	0.36	8.1	ug/L
|	Se	77	2632.910	0.003	**33.195805**	7.11	21.4	ug/L
|	Se	82	133.638	0.000	**8.994501**	0.42	4.6	ug/L
|	Sr	88	3711.816	0.009	**1.727610**	0.03	2.0	ug/L
| >	Y	89	398692.972	398692.972				ug/L
|	Mo	95	1060.039	0.002	**2.862570**	0.07	2.3	ug/L
|	Mo	97	674.683	0.002	**2.944375**	0.10	3.5	ug/L
⌊	Mo	98	1819.084	0.004	**3.034603**	0.01	0.2	ug/L
⌜	Ag	107	1517.414	0.007	**1.340368**	0.06	4.5	ug/L
|	Ag	109	1430.738	0.006	**2.157324**	0.03	1.2	ug/L
|	Cd	111	690.517	0.003	**2.642398**	0.02	0.9	ug/L
|	Cd	114	1675.320	0.007	**3.051358**	0.10	3.4	ug/L

|>	In	115	223560.633	223560.633				ug/L
|	Sn	120	8925.090	0.027	**4.091623**	0.17	4.2	ug/L
|	Sb	121	7584.016	0.034	**5.744106**	0.34	5.9	ug/L
_	Sb	123	5766.892	0.025	**5.727684**	0.32	5.5	ug/L
⌈	Ba	135	1772.777	0.006	**5.016988**	0.29	5.7	ug/L
|	Ba	137	3229.032	0.011	**5.179493**	0.27	5.2	ug/L
|	Tb	159	288664.720	0.005				ug/L
|>	Ho	165	296345.676	296345.676				ug/L
|	Tl	203	2414.871	0.008	**2.143460**	0.17	8.1	ug/L
|	Tl	205	5887.213	0.020	**1.661324**	0.11	6.8	ug/L
_	Pb	208	4092.902	0.014	**1.045012**	0.07	6.4	ug/L
	Kr	83	29.333	1.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	115.304		
Be	9	160.913		
B	11	107.684		
Na	23	47.626		
Mg	24	66.381		
Al	27	52.022		
K	39	69.184		
Ca	43	92.130		
Sc	45		101.798	
Ti	49	126.555		
Co	59	78.542		
Ni	60	92.351		
Ni	62	136.926		
Cu	63	85.630		
Cu	65	80.027		
Zn	66	101.724		
Zn	67	265.719		
Zn	68	101.111		
V	51	97.767		
Cr	52	100.452		
Cr	53	929.294		
Mn	55	98.909		
Fe	54	87.293		
Fe	57	86.086		
As	75	112.103		
Se	77	663.916		
Se	82	179.890		
Sr	88	172.761		
Y	89		100.020	
Mo	95	143.128		
Mo	97	147.219		
Mo	98	151.730		
Ag	107	134.037		
Ag	109	215.732		
Cd	111	132.120		
Cd	114	152.568		
In	115		100.327	
Sn	120	102.291		
Sb	121	114.882		

Sb	123	114.554	
Ba	135	100.340	
Ba	137	103.590	
Tb	159		
Ho	165		99.593
Tl	203	107.173	
Tl	205	83.066	
Pb	208	104.501	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, March 03, 2011 13:19:04
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\QC Std 6.012
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	11210.351	-0.001				ug/L
|	Li	7	1018.036	-0.000	**0.403224**	0.08	18.6	ug/L
|	Be	9	6.000	0.000	**1.165633**	0.05	4.0	ug/L
|	B	11	180.001	0.000	**1.124338**	0.44	39.3	ug/L
|	Na	23	6935.050	-0.016	**-51.074629**	3.58	7.0	ug/L
|	Mg	24	33.333	-0.001	**-15.183120**	0.26	1.7	ug/L
|	Al	27	943.364	-0.006	**-27.172654**	0.04	0.1	ug/L
|	K	39	35343.685	-0.030	**-33.384573**	2.23	6.7	ug/L
|	Ca	43	381.338	0.000	**-23.755883**	11.28	47.5	ug/L
| >	Sc	45	234223.235	234223.235				ug/L
|	Ti	49	422.006	-0.000	**-0.124922**	0.10	77.0	ug/L
|	Co	59	77.334	-0.000	**-0.475256**	0.00	1.0	ug/L
|	Ni	60	63.333	0.000	**-0.111187**	0.02	14.1	ug/L
|	Ni	62	65.333	0.000	**0.837491**	0.33	38.9	ug/L
|	Cu	63	260.669	0.000	**-0.425287**	0.01	3.0	ug/L
|	Cu	65	117.334	0.000	**-0.427653**	0.04	10.4	ug/L
|	Zn	66	265.336	-0.001	**-0.381383**	0.18	48.2	ug/L
|	Zn	67	3148.348	0.007	**9.691028**	2.84	29.3	ug/L
|	Zn	68	297.336	-0.000	**-0.678569**	0.18	27.2	ug/L
|	V	51	-12702.221	-0.032	**-2.023544**	1.68	82.9	ug/L
|	Cr	52	2810.943	0.002	**-0.293598**	0.02	5.4	ug/L
|	Cr	53	41084.333	0.077	**24.725678**	1.19	4.8	ug/L
|	Mn	55	352.004	0.000	**-0.086163**	0.01	7.8	ug/L
|	Fe	54	8245.086	-0.001	**-34.242605**	2.65	7.7	ug/L
⌞	Fe	57	1594.756	-0.000	**-22.420087**	0.90	4.0	ug/L
⌜	As	75	4.532	-0.000	**0.819887**	0.26	32.1	ug/L
|	Se	77	1900.793	0.001	**2.219096**	1.43	64.4	ug/L
|	Se	82	-1.034	-0.000	**4.004070**	0.09	2.3	ug/L
|	Sr	88	123.334	-0.000	**0.707538**	0.00	0.7	ug/L
| >	Y	89	386299.290	386299.290				ug/L
|	Mo	95	32.667	-0.000	**0.874668**	0.00	0.4	ug/L
|	Mo	97	19.333	-0.000	**0.920730**	0.01	1.6	ug/L
⌞	Mo	98	30.374	-0.000	**0.917162**	0.02	2.1	ug/L
⌜	Ag	107	10.667	-0.000	**0.297139**	0.00	1.4	ug/L
|	Ag	109	8.000	-0.000	**1.170006**	0.00	0.2	ug/L
|	Cd	111	5.167	0.000	**0.581400**	0.01	1.0	ug/L
|	Cd	114	2.725	-0.000	**0.926848**	0.01	1.0	ug/L

|>	In	115	220486.047	220486.047				ug/L
|	Sn	120	2172.620	-0.003	**-0.390646**	0.04	10.0	ug/L
|	Sb	121	127.334	0.000	**0.410282**	0.03	7.5	ug/L
|	Sb	123	137.236	0.000	**0.564607**	0.05	9.4	ug/L
⌈	Ba	135	17.333	-0.000	**0.094274**	0.02	21.0	ug/L
|	Ba	137	38.000	-0.000	**0.017128**	0.02	89.1	ug/L
|	Tb	159	282126.064	0.020				ug/L
|>	Ho	165	285296.252	285296.252				ug/L
|	Tl	203	12.667	0.000	**0.064819**	0.01	11.6	ug/L
|	Tl	205	28.000	0.000	**-0.465401**	0.00	0.4	ug/L
⌊	Pb	208	94.000	0.000	**0.007643**	0.00	39.1	ug/L
	Kr	83	29.867	1.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.566	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		96.911	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		98.947	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.880
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Thursday, March 03, 2011 13:26:20
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\ICSA.013
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10713.679	-0.003				ug/L
|	Li	7	1080.041	-0.000	**0.568783**	0.20	34.5	ug/L
|	Be	9	6.667	0.000	**1.172581**	0.07	6.3	ug/L
|	B	11	304.003	0.001	**2.548567**	0.13	5.2	ug/L
|	Na	23	30630204.472	129.329	**93878.528979**	2591.44	2.8	ug/L
|	Mg	24	19707334.316	83.243	**88739.231528**	1637.36	1.8	ug/L
|	Al	27	61928926.397	261.592	**94774.462798**	514.58	0.5	ug/L
|	K	39	37560890.496	158.496	**98558.443158**	2289.03	2.3	ug/L
|	Ca	43	289830.542	1.223	**101933.431315**	4086.80	4.0	ug/L
| >	Sc	45	236723.277	236723.277				ug/L
|	Ti	49	212965.675	0.898	**2008.000867**	14.08	0.7	ug/L
|	Co	59	3509.765	0.014	**1.189009**	0.06	4.6	ug/L
|	Ni	60	1238.720	0.005	**2.447533**	0.12	5.0	ug/L
|	Ni	62	738.686	0.003	**10.675927**	0.82	7.7	ug/L
|	Cu	63	2259.512	0.009	**1.347375**	0.07	5.0	ug/L
|	Cu	65	1293.392	0.005	**1.758177**	0.13	7.6	ug/L
|	Zn	66	1226.719	0.003	**2.449392**	0.23	9.2	ug/L
|	Zn	67	3177.690	0.007	**9.595012**	6.59	68.7	ug/L
|	Zn	68	488.009	0.001	**0.116483**	0.36	311.7	ug/L
|	V	51	-9206.050	-0.017	**0.082243**	1.56	1896.8	ug/L
|	Cr	52	5536.406	0.014	**1.423379**	0.10	7.0	ug/L
|	Cr	53	38988.866	0.066	**13.183188**	17.64	133.8	ug/L
|	Mn	55	22568.493	0.094	**8.172555**	0.34	4.2	ug/L
|	Fe	54	12762760.818	53.884	**105533.555772**	2441.59	2.3	ug/L
⌊	Fe	57	5696052.710	24.058	**105122.485081**	2975.94	2.8	ug/L
⌈	As	75	-13.665	-0.000	**0.767018**	0.70	91.4	ug/L
|	Se	77	2866.288	0.004	**45.054762**	3.09	6.9	ug/L
|	Se	82	-6.556	-0.000	**3.800037**	0.20	5.3	ug/L
|	Sr	88	25156.136	0.063	**7.886361**	0.21	2.6	ug/L
| >	Y	89	395517.993	395517.993				ug/L
|	Mo	95	980165.232	2.478	**1914.079543**	53.98	2.8	ug/L
|	Mo	97	624919.320	1.580	**1948.455893**	39.74	2.0	ug/L
⌊	Mo	98	1575348.420	3.983	**1882.230153**	34.42	1.8	ug/L
⌈	Ag	107	230.002	0.001	**0.453679**	0.02	5.3	ug/L
|	Ag	109	204.001	0.001	**1.310309**	0.02	1.6	ug/L
|	Cd	111	931.864	0.004	**3.445880**	0.05	1.3	ug/L
|	Cd	114	1723.693	0.008	**3.172235**	0.06	1.8	ug/L

|>	In	115	217548.906	217548.906				ug/L
|	Sn	120	2518.001	-0.001	**-0.134181**	0.05	36.9	ug/L
|	Sb	121	448.007	0.002	**0.648128**	0.06	9.6	ug/L
|	Sb	123	355.156	0.001	**0.772489**	0.06	7.2	ug/L
⌈	Ba	135	1792.779	0.006	**5.267179**	0.02	0.4	ug/L
|	Ba	137	3117.674	0.011	**5.194380**	0.27	5.2	ug/L
|	Tb	159	286392.402	0.036				ug/L
|>	Ho	165	284963.450	284963.450				ug/L
|	Tl	203	338.671	0.001	**0.357473**	0.02	5.9	ug/L
|	Tl	205	767.354	0.003	**-0.186602**	0.02	9.5	ug/L
⌊	Pb	208	34308.832	0.120	**9.236804**	0.16	1.7	ug/L
	Kr	83	45.400	17.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		99.618	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		99.224	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		97.629	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.768
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Thursday, March 03, 2011 13:29:01
Sample Type: Spike - 2 of 21
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\ICSAB.014
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10862.962	-0.003				ug/L
|	Li	7	1015.370	-0.000	**0.349264**	0.11	30.9	ug/L
|	Be	9	8.000	0.000	**1.187524**	0.04	3.3	ug/L
|	B	11	291.336	0.000	**2.392946**	0.14	5.6	ug/L
|	Na	23	29524766.573	124.444	**90330.790518**	2923.74	3.2	ug/L
|	Mg	24	18997074.790	80.050	**85335.016257**	442.97	0.5	ug/L
|	Al	27	62479564.424	263.472	**95455.452842**	3489.56	3.7	ug/L
|	K	39	35952649.551	151.396	**94142.862988**	2407.05	2.6	ug/L
|	Ca	43	284748.778	1.199	**99971.770999**	3172.31	3.2	ug/L
| >	Sc	45	237303.192	237303.192				ug/L
|	Ti	49	211725.066	0.891	**1992.503533**	68.85	3.5	ug/L
|	Co	59	168121.557	0.709	**80.861509**	3.74	4.6	ug/L
|	Ni	60	35997.974	0.152	**78.019473**	3.31	4.2	ug/L
|	Ni	62	6185.339	0.026	**90.170103**	1.03	1.1	ug/L
|	Cu	63	88860.928	0.374	**78.099536**	2.45	3.1	ug/L
|	Cu	65	42549.946	0.179	**78.355224**	2.27	2.9	ug/L
|	Zn	66	14810.342	0.060	**42.474772**	1.52	3.6	ug/L
|	Zn	67	5825.188	0.018	**55.516097**	3.44	6.2	ug/L
|	Zn	68	9663.268	0.039	**39.042793**	0.77	2.0	ug/L
|	V	51	129489.803	0.568	**80.137257**	3.56	4.4	ug/L
|	Cr	52	130123.401	0.539	**80.646602**	3.94	4.9	ug/L
|	Cr	53	60979.957	0.159	**112.284940**	12.58	11.2	ug/L
|	Mn	55	236633.405	0.997	**87.613131**	4.52	5.2	ug/L
|	Fe	54	12761175.806	53.793	**105354.424386**	5178.86	4.9	ug/L
⌊	Fe	57	5678362.514	23.940	**104606.579698**	4133.10	4.0	ug/L
⌈	As	75	13288.311	0.034	**38.318011**	0.58	1.5	ug/L
|	Se	77	3917.871	0.006	**96.736654**	7.01	7.2	ug/L
|	Se	82	1009.909	0.003	**42.266056**	0.40	0.9	ug/L
|	Sr	88	25220.257	0.064	**8.011101**	0.25	3.1	ug/L
| >	Y	89	389749.118	389749.118				ug/L
|	Mo	95	985029.914	2.527	**1951.814909**	47.94	2.5	ug/L
|	Mo	97	627480.500	1.610	**1985.251563**	53.15	2.7	ug/L
⌊	Mo	98	1579157.848	4.051	**1914.566593**	42.33	2.2	ug/L
⌈	Ag	107	26918.017	0.125	**19.585921**	0.48	2.5	ug/L
|	Ag	109	26668.872	0.124	**20.341360**	0.40	2.0	ug/L
|	Cd	111	13379.263	0.062	**42.249040**	0.97	2.3	ug/L
|	Cd	114	31201.100	0.145	**41.967601**	0.82	1.9	ug/L

|>	In	115	215827.343	215827.343				ug/L
|	Sn	120	2362.026	-0.002	**-0.228121**	0.06	24.3	ug/L
|	Sb	121	356.671	0.001	**0.582065**	0.01	1.8	ug/L
|	Sb	123	292.325	0.001	**0.714799**	0.04	5.5	ug/L
|	Ba	135	1764.776	0.006	**5.139362**	0.09	1.7	ug/L
|	Ba	137	3105.004	0.011	**5.126518**	0.05	0.9	ug/L
|	Tb	159	282013.954	0.011				ug/L
|>	Ho	165	287580.343	287580.343				ug/L
|	Tl	203	330.670	0.001	**0.347957**	0.01	4.0	ug/L
|	Tl	205	767.354	0.003	**-0.189143**	0.00	2.1	ug/L
|	Pb	208	35016.852	0.122	**9.344368**	0.39	4.2	ug/L
	Kr	83	42.067	13.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		99.862	
Ti	49			
Co	59			99.591
Ni	60			94.465
Ni	62			99.368
Cu	63			95.940
Cu	65			95.746
Zn	66			100.063
Zn	67			114.803
Zn	68			97.316
V	51			100.069
Cr	52			99.029
Cr	53			123.877
Mn	55			99.301
Fe	54			
Fe	57			
As	75			93.877
Se	77			129.205
Se	82			96.165
Sr	88			
Y	89		97.777	
Mo	95			
Mo	97			
Mo	98			
Ag	107			95.661
Ag	109			95.155
Cd	111			97.008
Cd	114			96.988
In	115		96.857	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	96.647
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: MBLK-98257
Sample Date/Time: Thursday, March 03, 2011 13:37:43
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\MBLK-98257.015
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	11012.043	-0.001				ug/L
|	Li	7	1086.708	0.000	**0.645375**	0.09	14.1	ug/L
|	Be	9	7.333	0.000	**1.182027**	0.04	3.1	ug/L
|	B	11	210.002	0.000	**1.489348**	0.10	6.5	ug/L
|	Na	23	7501.998	-0.014	**-49.160350**	3.69	7.5	ug/L
|	Mg	24	300.004	-0.000	**-13.955798**	0.93	6.7	ug/L
|	Al	27	3828.848	0.006	**-22.682142**	0.32	1.4	ug/L
|	K	39	41560.370	-0.003	**-16.310312**	2.93	17.9	ug/L
|	Ca	43	565.345	0.001	**42.682875**	11.21	26.3	ug/L
| >	Sc	45	233093.260	233093.260				ug/L
|	Ti	49	592.679	0.001	**1.531694**	0.36	23.5	ug/L
|	Co	59	69.334	-0.000	**-0.479150**	0.02	3.9	ug/L
|	Ni	60	1016.703	0.004	**1.997811**	0.19	9.7	ug/L
|	Ni	62	188.001	0.001	**2.669484**	0.52	19.7	ug/L
|	Cu	63	184.001	-0.000	**-0.492999**	0.03	6.8	ug/L
|	Cu	65	74.667	-0.000	**-0.506997**	0.01	1.3	ug/L
|	Zn	66	845.358	0.002	**1.362929**	0.05	3.3	ug/L
|	Zn	67	4392.680	0.012	**31.928550**	7.15	22.4	ug/L
|	Zn	68	825.357	0.002	**1.603159**	0.37	23.0	ug/L
|	V	51	-13879.920	-0.037	**-2.742933**	1.15	42.1	ug/L
|	Cr	52	4442.025	0.009	**0.769303**	0.13	16.5	ug/L
|	Cr	53	55389.559	0.139	**91.353019**	17.46	19.1	ug/L
|	Mn	55	460.674	0.001	**-0.044502**	0.01	21.4	ug/L
|	Fe	54	9788.725	0.006	**-20.909739**	1.11	5.3	ug/L
⌞	Fe	57	1826.117	0.001	**-17.938437**	0.35	2.0	ug/L
⌜	As	75	68.225	-0.000	**1.002095**	0.17	17.2	ug/L
|	Se	77	3254.371	0.005	**66.519436**	9.65	14.5	ug/L
|	Se	82	-1.452	-0.000	**3.990017**	0.03	0.9	ug/L
|	Sr	88	308.003	0.000	**0.761556**	0.01	1.6	ug/L
| >	Y	89	387048.312	387048.312				ug/L
|	Mo	95	122.667	0.000	**1.054353**	0.05	4.8	ug/L
|	Mo	97	92.000	0.000	**1.151338**	0.07	6.0	ug/L
⌞	Mo	98	218.157	0.000	**1.146032**	0.02	2.1	ug/L
⌜	Ag	107	10.000	-0.000	**0.296669**	0.00	0.8	ug/L
|	Ag	109	5.333	-0.000	**1.168141**	0.00	0.1	ug/L
|	Cd	111	6.000	0.000	**0.583912**	0.01	1.3	ug/L
|	Cd	114	15.390	0.000	**0.943092**	0.01	1.4	ug/L

|>	In	115	220914.757	220914.757				ug/L
|	Sn	120	2125.938	-0.003	**-0.425228**	0.04	8.7	ug/L
|	Sb	121	44.667	-0.000	**0.350147**	0.00	1.3	ug/L
|	Sb	123	95.152	-0.000	**0.525227**	0.01	2.6	ug/L
|	Ba	135	140.001	0.000	**0.446001**	0.05	12.1	ug/L
|	Ba	137	220.668	0.000	**0.318150**	0.02	6.0	ug/L
|	Tb	159	284132.297	0.012				ug/L
|>	Ho	165	289648.428	289648.428				ug/L
|	Tl	203	6.000	-0.000	**0.058761**	0.00	3.2	ug/L
|	Tl	205	4.667	-0.000	**-0.474220**	0.00	0.2	ug/L
|	Pb	208	106.667	0.000	**0.010707**	0.01	48.9	ug/L
	Kr	83	32.133	3.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.090	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		97.099	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		99.140	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	97.342
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: LCS-98257
Sample Date/Time: Thursday, March 03, 2011 13:40:34
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\LCS-98257.016
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10381.423	-0.005				ug/L
|	Li	7	29328.075	0.119	**91.710584**	2.88	3.1	ug/L
|	Be	9	8069.613	0.034	**94.484911**	4.60	4.9	ug/L
|	B	11	8370.453	0.035	**96.645457**	3.54	3.7	ug/L
|	Na	23	1532680.877	6.420	**4623.088427**	250.11	5.4	ug/L
|	Mg	24	1015821.288	4.284	**4553.512284**	215.37	4.7	ug/L
|	Al	27	3270992.603	13.794	**4973.807902**	267.95	5.4	ug/L
|	K	39	1815689.426	7.480	**4637.113498**	158.99	3.4	ug/L
|	Ca	43	14496.688	0.060	**4943.073415**	244.55	4.9	ug/L
| >	Sc	45	237104.748	237104.748				ug/L
|	Ti	49	10687.330	0.043	**96.692727**	2.54	2.6	ug/L
|	Co	59	203777.473	0.860	**98.210248**	5.13	5.2	ug/L
|	Ni	60	45939.827	0.194	**99.721077**	5.94	6.0	ug/L
|	Ni	62	6816.293	0.029	**99.462033**	1.83	1.8	ug/L
|	Cu	63	109467.204	0.461	**96.448180**	3.44	3.6	ug/L
|	Cu	65	52615.400	0.222	**97.126277**	3.65	3.8	ug/L
|	Zn	66	33483.204	0.139	**97.558734**	2.72	2.8	ug/L
|	Zn	67	10338.411	0.037	**134.079593**	8.63	6.4	ug/L
|	Zn	68	23711.667	0.099	**98.749572**	3.66	3.7	ug/L
|	V	51	148434.009	0.648	**91.105348**	2.98	3.3	ug/L
|	Cr	52	157635.227	0.655	**98.145115**	2.11	2.2	ug/L
|	Cr	53	84373.984	0.257	**218.018236**	10.49	4.8	ug/L
|	Mn	55	263330.645	1.110	**97.585386**	6.55	6.7	ug/L
|	Fe	54	638124.395	2.657	**5172.656638**	251.58	4.9	ug/L
⌊	Fe	57	277382.979	1.164	**5064.948975**	302.33	6.0	ug/L
⌈	As	75	33435.596	0.089	**98.955957**	1.24	1.3	ug/L
|	Se	77	13819.353	0.033	**590.830129**	25.87	4.4	ug/L
|	Se	82	12286.832	0.033	**487.624975**	8.35	1.7	ug/L
|	Sr	88	317849.418	0.848	**96.869929**	2.05	2.1	ug/L
| >	Y	89	374808.791	374808.791				ug/L
|	Mo	95	46900.224	0.125	**97.417827**	3.05	3.1	ug/L
|	Mo	97	29606.658	0.079	**98.228019**	2.66	2.7	ug/L
⌊	Mo	98	75403.778	0.201	**95.913663**	3.32	3.5	ug/L
⌈	Ag	107	134176.000	0.623	**96.753019**	3.19	3.3	ug/L
|	Ag	109	133688.725	0.621	**97.551259**	2.51	2.6	ug/L
|	Cd	111	30857.967	0.143	**96.975615**	3.62	3.7	ug/L
|	Cd	114	72917.124	0.339	**97.084745**	1.03	1.1	ug/L

|>	In	115	215287.374	215287.374				ug/L
|	Sn	120	141670.218	0.646	**96.239256**	3.73	3.9	ug/L
|	Sb	121	130904.414	0.608	**97.546843**	2.29	2.3	ug/L
|	Sb	123	101738.616	0.472	**97.319821**	0.97	1.0	ug/L
⌈	Ba	135	33817.985	0.116	**96.553368**	1.83	1.9	ug/L
|	Ba	137	58448.689	0.201	**96.204394**	2.24	2.3	ug/L
|	Tb	159	282989.263	0.003				ug/L
|>	Ho	165	291044.016	291044.016				ug/L
|	Tl	203	108952.002	0.374	**95.928420**	2.29	2.4	ug/L
|	Tl	205	262497.939	0.903	**96.526310**	3.68	3.8	ug/L
⌊	Pb	208	368868.753	1.268	**97.448562**	3.56	3.7	ug/L
	Kr	83	35.933	7.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		99.778	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		94.029	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		96.614	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	97.811
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-03B
Sample Date/Time: Thursday, March 03, 2011 13:44:04
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\11020727-03B.017
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dao
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	10570.522	-0.004				ug/L
|	Li	7	7164.465	0.026	**20.124296**	1.29	6.4	ug/L
|	Be	9	6.667	0.000	**1.172192**	0.06	4.9	ug/L
|	B	11	3062.328	0.012	**34.604212**	0.77	2.2	ug/L
|	Na	23	13839734.331	58.158	**42194.743499**	1324.55	3.1	ug/L
|	Mg	24	965909.076	4.061	**4316.317920**	194.48	4.5	ug/L
|	Al	27	10850.788	0.035	**-12.098032**	0.38	3.1	ug/L
|	K	39	266157.310	0.938	**568.948633**	23.06	4.1	ug/L
|	Ca	43	30412.372	0.127	**10507.065496**	481.17	4.6	ug/L
| >	Sc	45	237826.471	237826.471				ug/L
|	Ti	49	750.020	0.001	**2.900342**	0.42	14.3	ug/L
|	Co	59	173.334	0.000	**-0.429503**	0.00	0.9	ug/L
|	Ni	60	796.022	0.003	**1.475787**	0.10	6.5	ug/L
|	Ni	62	150.667	0.000	**2.065822**	0.08	4.0	ug/L
|	Cu	63	776.021	0.002	**0.026528**	0.02	81.4	ug/L
|	Cu	65	284.003	0.001	**-0.122140**	0.04	29.6	ug/L
|	Zn	66	1093.375	0.003	**2.041908**	0.16	7.7	ug/L
|	Zn	67	5714.483	0.017	**53.305430**	8.77	16.5	ug/L
|	Zn	68	1556.085	0.005	**4.632704**	0.52	11.2	ug/L
|	V	51	-14693.704	-0.040	**-3.057789**	0.09	2.9	ug/L
|	Cr	52	5673.800	0.014	**1.492031**	0.32	21.2	ug/L
|	Cr	53	69146.640	0.192	**148.274518**	17.25	11.6	ug/L
|	Mn	55	866.026	0.003	**0.102064**	0.01	13.9	ug/L
|	Fe	54	10919.480	0.010	**-13.241304**	1.59	12.0	ug/L
⌊	Fe	57	2892.960	0.005	**0.987349**	1.43	145.1	ug/L
⌜	As	75	161.792	0.000	**1.276843**	0.90	70.1	ug/L
|	Se	77	4477.369	0.008	**126.687891**	10.28	8.1	ug/L
|	Se	82	11.378	0.000	**4.483630**	0.17	3.8	ug/L
|	Sr	88	237616.674	0.619	**70.975332**	1.90	2.7	ug/L
| >	Y	89	383463.949	383463.949				ug/L
|	Mo	95	661.349	0.002	**2.141245**	0.07	3.3	ug/L
|	Mo	97	423.340	0.001	**2.220592**	0.10	4.3	ug/L
⌊	Mo	98	1121.980	0.003	**2.261495**	0.05	2.1	ug/L
⌜	Ag	107	16.667	0.000	**0.301780**	0.00	1.6	ug/L
|	Ag	109	12.667	0.000	**1.173540**	0.00	0.4	ug/L
|	Cd	111	12.833	0.000	**0.605971**	0.01	0.9	ug/L
|	Cd	114	24.858	0.000	**0.956413**	0.02	1.8	ug/L

|>	In	115	213988.276	213988.276				ug/L
|	Sn	120	2304.590	-0.002	**-0.254280**	0.04	16.1	ug/L
|	Sb	121	561.345	0.002	**0.736244**	0.08	11.5	ug/L
|	Sb	123	488.074	0.002	**0.903295**	0.10	11.1	ug/L
⌈	Ba	135	39279.276	0.138	**114.416101**	2.08	1.8	ug/L
|	Ba	137	67834.739	0.238	**113.927316**	2.13	1.9	ug/L
|	Tb	159	283192.066	0.024				ug/L
|>	Ho	165	285133.567	285133.567				ug/L
|	Tl	203	216.002	0.001	**0.247759**	0.08	32.8	ug/L
|	Tl	205	543.345	0.002	**-0.270799**	0.07	27.4	ug/L
⌊	Pb	208	737.341	0.002	**0.181165**	0.02	9.5	ug/L
	Kr	83	36.867	8.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		100.082	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		96.200	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		96.031	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.825
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-03BSD
Sample Date/Time: Thursday, March 03, 2011 13:46:44
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\11020727-03BSD.018
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10994.517	-0.002				ug/L
|	Li	7	2248.177	0.005	**21.861563**	1.94	8.9	ug/L
|	Be	9	6.000	0.000	**5.827969**	0.21	3.5	ug/L
|	B	11	799.356	0.003	**41.855471**	3.28	7.8	ug/L
|	Na	23	2842340.878	12.010	**43412.248660**	1819.33	4.2	ug/L
|	Mg	24	200498.020	0.849	**4456.927794**	170.01	3.8	ug/L
|	Al	27	2663.582	0.001	**-122.694357**	0.26	0.2	ug/L
|	K	39	85320.704	0.181	**489.008311**	6.02	1.2	ug/L
|	Ca	43	6545.499	0.027	**10777.433579**	146.92	1.4	ug/L
| >	Sc	45	235805.308	235805.308				ug/L
|	Ti	49	584.012	0.001	**6.928011**	1.12	16.2	ug/L
|	Co	59	118.667	0.000	**-2.276796**	0.03	1.4	ug/L
|	Ni	60	244.669	0.001	**1.423135**	0.41	29.1	ug/L
|	Ni	62	69.334	0.000	**4.450885**	1.22	27.5	ug/L
|	Cu	63	327.337	0.001	**-1.837474**	0.10	5.6	ug/L
|	Cu	65	129.334	0.000	**-2.030474**	0.51	25.1	ug/L
|	Zn	66	844.025	0.002	**6.648014**	0.29	4.3	ug/L
|	Zn	67	4990.205	0.015	**207.607169**	10.68	5.1	ug/L
|	Zn	68	804.023	0.002	**7.366248**	1.67	22.6	ug/L
|	V	51	-17299.658	-0.051	**-23.208500**	3.76	16.2	ug/L
|	Cr	52	4351.329	0.009	**3.396649**	0.17	5.1	ug/L
|	Cr	53	64038.569	0.173	**638.846750**	28.33	4.4	ug/L
|	Mn	55	550.011	0.001	**-0.065270**	0.11	172.3	ug/L
|	Fe	54	10665.918	0.010	**-72.877279**	3.90	5.4	ug/L
⌊	Fe	57	2023.477	0.002	**-73.369817**	0.55	0.8	ug/L
⌈	As	75	46.402	-0.000	**4.706550**	0.75	15.8	ug/L
|	Se	77	3488.426	0.006	**398.424843**	33.86	8.5	ug/L
|	Se	82	0.013	-0.000	**20.207303**	1.02	5.0	ug/L
|	Sr	88	47778.446	0.124	**74.244715**	2.92	3.9	ug/L
| >	Y	89	382566.855	382566.855				ug/L
|	Mo	95	155.334	0.000	**5.611722**	0.15	2.7	ug/L
|	Mo	97	104.667	0.000	**5.980355**	0.04	0.6	ug/L
⌊	Mo	98	233.344	0.000	**5.844551**	0.25	4.2	ug/L
⌈	Ag	107	12.000	0.000	**1.490646**	0.02	1.2	ug/L
|	Ag	109	6.667	-0.000	**5.845651**	0.02	0.3	ug/L
|	Cd	111	8.000	0.000	**2.950523**	0.03	1.1	ug/L
|	Cd	114	11.925	0.000	**4.694407**	0.08	1.7	ug/L

|>	In	115	219359.722	219359.722				ug/L
|	Sn	120	2200.599	-0.003	**-1.819234**	0.12	6.7	ug/L
|	Sb	121	98.000	0.000	**1.945424**	0.11	5.5	ug/L
|	Sb	123	112.317	0.000	**2.708664**	0.06	2.3	ug/L
⌈	Ba	135	7801.467	0.027	**111.567909**	7.75	6.9	ug/L
|	Ba	137	13692.567	0.047	**112.528922**	6.81	6.1	ug/L
|	Tb	159	287374.016	0.018				ug/L
|>	Ho	165	291099.293	291099.293				ug/L
|	Tl	203	20.000	0.000	**0.354954**	0.03	7.1	ug/L
|	Tl	205	33.333	0.000	**-2.318386**	0.02	0.9	ug/L
⌊	Pb	208	80.667	0.000	**0.018409**	0.02	100.0	ug/L
	Kr	83	32.400	4.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		99.231	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		95.975	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		98.442	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	97.830
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-03BMS
Sample Date/Time: Thursday, March 03, 2011 13:49:25
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\11020727-03BMS.019
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	9785.801	-0.007				ug/L
|	Li	7	35430.550	0.144	**110.878484**	0.79	0.7	ug/L
|	Be	9	8206.358	0.034	**95.608787**	2.90	3.0	ug/L
|	B	11	10988.231	0.045	**126.608573**	6.23	4.9	ug/L
|	Na	23	14875538.347	62.432	**45298.377513**	1042.71	2.3	ug/L
|	Mg	24	1773577.475	7.448	**7927.155269**	143.33	1.8	ug/L
|	Al	27	2782599.930	11.677	**4206.752405**	90.50	2.2	ug/L
|	K	39	1976369.857	8.120	**5035.523607**	162.82	3.2	ug/L
|	Ca	43	41258.177	0.172	**14292.695654**	311.71	2.2	ug/L
| >	Sc	45	238086.937	238086.937				ug/L
|	Ti	49	11021.586	0.044	**99.378450**	3.16	3.2	ug/L
|	Co	59	200067.882	0.840	**95.940917**	2.34	2.4	ug/L
|	Ni	60	44523.310	0.187	**96.165403**	2.98	3.1	ug/L
|	Ni	62	6829.633	0.028	**99.230795**	3.32	3.3	ug/L
|	Cu	63	106805.438	0.448	**93.653597**	3.56	3.8	ug/L
|	Cu	65	51267.914	0.215	**94.181199**	3.63	3.9	ug/L
|	Zn	66	33516.620	0.139	**97.223326**	2.45	2.5	ug/L
|	Zn	67	11177.705	0.040	**147.815197**	2.88	1.9	ug/L
|	Zn	68	23970.769	0.099	**99.384330**	2.71	2.7	ug/L
|	V	51	151962.021	0.660	**92.732367**	3.73	4.0	ug/L
|	Cr	52	157459.936	0.652	**97.604706**	1.94	2.0	ug/L
|	Cr	53	90817.833	0.283	**245.439425**	6.77	2.8	ug/L
|	Mn	55	257973.416	1.082	**95.130373**	1.47	1.5	ug/L
|	Fe	54	546686.012	2.261	**4395.439711**	87.41	2.0	ug/L
⌊	Fe	57	242469.139	1.011	**4398.652418**	29.37	0.7	ug/L
⌈	As	75	33255.911	0.088	**98.116338**	1.72	1.7	ug/L
|	Se	77	14087.610	0.034	**601.780747**	8.96	1.5	ug/L
|	Se	82	12172.789	0.032	**481.608113**	9.04	1.9	ug/L
|	Sr	88	553218.439	1.471	**167.576949**	3.25	1.9	ug/L
| >	Y	89	375989.193	375989.193				ug/L
|	Mo	95	48291.509	0.128	**99.970586**	2.88	2.9	ug/L
|	Mo	97	30227.952	0.080	**99.962893**	2.38	2.4	ug/L
⌊	Mo	98	78657.606	0.209	**99.686765**	0.89	0.9	ug/L
⌈	Ag	107	133355.577	0.634	**98.430987**	2.00	2.0	ug/L
|	Ag	109	130795.380	0.622	**97.705237**	1.97	2.0	ug/L
|	Cd	111	30973.382	0.147	**99.630627**	3.40	3.4	ug/L
|	Cd	114	72505.767	0.345	**98.829772**	2.24	2.3	ug/L

|>	In	115	210283.293	210283.293				ug/L
|	Sn	120	144741.997	0.676	**100.746883**	3.17	3.1	ug/L
|	Sb	121	132378.669	0.629	**100.978934**	2.77	2.7	ug/L
_	Sb	123	103448.796	0.492	**101.300921**	1.58	1.6	ug/L
⌈	Ba	135	72859.334	0.257	**213.229331**	2.91	1.4	ug/L
|	Ba	137	128418.724	0.452	**216.782688**	4.38	2.0	ug/L
|	Tb	159	279457.961	0.015				ug/L
|>	Ho	165	283774.971	283774.971				ug/L
|	Tl	203	110028.793	0.388	**99.320889**	0.76	0.8	ug/L
|	Tl	205	260871.036	0.919	**98.307461**	2.04	2.1	ug/L
_	Pb	208	368280.431	1.298	**99.725458**	1.37	1.4	ug/L
	Kr	83	37.733	9.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		100.192	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		94.325	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		94.369	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.368
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-03BMSD
Sample Date/Time: Thursday, March 03, 2011 13:52:06
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\11020727-03BMSD.020
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	9640.337	-0.009				ug/L
|	Li	7	35830.892	0.144	**110.466529**	3.56	3.2	ug/L
|	Be	9	8328.428	0.034	**95.570253**	1.44	1.5	ug/L
|	B	11	11399.884	0.046	**129.430165**	5.49	4.2	ug/L
|	Na	23	14953876.466	61.852	**44877.262115**	2443.00	5.4	ug/L
|	Mg	24	1871191.038	7.741	**8240.190934**	192.76	2.3	ug/L
|	Al	27	2962272.301	12.247	**4413.412446**	109.11	2.5	ug/L
|	K	39	1965168.167	7.951	**4929.986967**	84.40	1.7	ug/L
|	Ca	43	43388.504	0.178	**14809.642476**	373.25	2.5	ug/L
| >	Sc	45	241711.657	241711.657				ug/L
|	Ti	49	11230.414	0.045	**99.774749**	2.41	2.4	ug/L
|	Co	59	199508.288	0.825	**94.271287**	4.11	4.4	ug/L
|	Ni	60	45047.595	0.186	**95.858803**	2.91	3.0	ug/L
|	Ni	62	6804.288	0.028	**97.389846**	3.47	3.6	ug/L
|	Cu	63	107458.654	0.444	**92.811206**	1.01	1.1	ug/L
|	Cu	65	50837.017	0.210	**92.009759**	4.09	4.4	ug/L
|	Zn	66	33710.412	0.138	**96.323266**	3.12	3.2	ug/L
|	Zn	67	11483.281	0.041	**150.156896**	4.21	2.8	ug/L
|	Zn	68	23916.013	0.098	**97.640436**	2.85	2.9	ug/L
|	V	51	154332.859	0.661	**92.813230**	5.18	5.6	ug/L
|	Cr	52	160338.075	0.654	**97.930070**	3.99	4.1	ug/L
|	Cr	53	94098.321	0.291	**253.836802**	3.41	1.3	ug/L
|	Mn	55	267350.516	1.105	**97.139385**	3.10	3.2	ug/L
|	Fe	54	595946.290	2.431	**4729.250569**	226.49	4.8	ug/L
⌊	Fe	57	261467.461	1.075	**4678.049257**	274.35	5.9	ug/L
⌜	As	75	33264.402	0.088	**97.352015**	2.33	2.4	ug/L
|	Se	77	14447.971	0.034	**613.760466**	25.55	4.2	ug/L
|	Se	82	12356.335	0.033	**484.925471**	14.75	3.0	ug/L
|	Sr	88	547725.504	1.445	**164.596088**	6.02	3.7	ug/L
| >	Y	89	379184.713	379184.713				ug/L
|	Mo	95	47486.128	0.125	**97.510862**	2.15	2.2	ug/L
|	Mo	97	30080.312	0.079	**98.685600**	3.83	3.9	ug/L
⌊	Mo	98	77375.530	0.204	**97.271988**	1.06	1.1	ug/L
⌜	Ag	107	132023.969	0.614	**95.247123**	4.02	4.2	ug/L
|	Ag	109	130565.301	0.607	**95.315586**	2.49	2.6	ug/L
|	Cd	111	30526.081	0.142	**95.953992**	3.35	3.5	ug/L
|	Cd	114	71908.389	0.334	**95.790103**	2.87	3.0	ug/L

|>	In	115	215322.803	215322.803				ug/L
|	Sn	120	145829.477	0.665	**99.159193**	4.08	4.1	ug/L
|	Sb	121	130988.523	0.609	**97.672632**	4.59	4.7	ug/L
L	Sb	123	102362.813	0.476	**98.018566**	5.71	5.8	ug/L
⌈	Ba	135	72217.443	0.251	**208.484018**	1.97	0.9	ug/L
|	Ba	137	126612.046	0.440	**210.835458**	3.03	1.4	ug/L
|	Tb	159	283619.752	0.017				ug/L
|>	Ho	165	287654.840	287654.840				ug/L
|	Tl	203	109896.632	0.382	**97.891895**	3.80	3.9	ug/L
|	Tl	205	266515.906	0.927	**99.117903**	3.75	3.8	ug/L
L	Pb	208	365750.586	1.271	**97.703377**	1.05	1.1	ug/L
	Kr	83	39.267	11.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		101.717	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		95.126	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		96.630	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	96.672
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-03BPDS
Sample Date/Time: Thursday, March 03, 2011 13:54:47
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\11020727-03BPDS.021
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10191.932	-0.006				ug/L
|	Li	7	32363.962	0.130	**500.727563**	16.05	3.2	ug/L
|	Be	9	8142.322	0.034	**470.397835**	20.61	4.4	ug/L
|	B	11	8992.831	0.037	**512.692147**	14.30	2.8	ug/L
|	Na	23	4287379.963	17.807	**64459.895332**	1207.70	1.9	ug/L
|	Mg	24	1235878.004	5.144	**27356.254177**	355.56	1.3	ug/L
|	Al	27	3399765.529	14.146	**25506.851997**	319.87	1.3	ug/L
|	K	39	1900036.062	7.731	**23967.118505**	639.80	2.7	ug/L
|	Ca	43	21433.411	0.088	**36419.413870**	1329.89	3.7	ug/L
| >	Sc	45	240180.005	240180.005				ug/L
|	Ti	49	11241.756	0.045	**502.663877**	8.79	1.7	ug/L
|	Co	59	205069.395	0.854	**487.514234**	5.79	1.2	ug/L
|	Ni	60	46151.782	0.192	**494.044899**	4.78	1.0	ug/L
|	Ni	62	6713.578	0.028	**483.379281**	8.53	1.8	ug/L
|	Cu	63	110508.448	0.459	**480.369669**	4.83	1.0	ug/L
|	Cu	65	52746.575	0.219	**480.313629**	11.25	2.3	ug/L
|	Zn	66	34897.251	0.143	**501.906224**	9.16	1.8	ug/L
|	Zn	67	10534.550	0.037	**675.448028**	5.18	0.8	ug/L
|	Zn	68	24109.661	0.099	**495.431868**	5.31	1.1	ug/L
|	V	51	158843.399	0.683	**479.401993**	11.31	2.4	ug/L
|	Cr	52	163306.513	0.670	**501.983497**	7.91	1.6	ug/L
|	Cr	53	84407.975	0.253	**1066.739763**	33.92	3.2	ug/L
|	Mn	55	271552.863	1.130	**496.413528**	13.01	2.6	ug/L
|	Fe	54	672584.020	2.765	**26914.397718**	173.50	0.6	ug/L
⌊	Fe	57	295452.915	1.223	**26624.051225**	592.59	2.2	ug/L
⌈	As	75	34597.139	0.090	**499.851045**	7.10	1.4	ug/L
|	Se	77	13575.118	0.032	**2815.102877**	97.51	3.5	ug/L
|	Se	82	12732.205	0.033	**2466.659171**	8.74	0.4	ug/L
|	Sr	88	383530.487	0.999	**569.990190**	10.03	1.8	ug/L
| >	Y	89	383834.225	383834.225				ug/L
|	Mo	95	48907.578	0.127	**495.838256**	2.02	0.4	ug/L
|	Mo	97	30805.857	0.080	**498.929550**	12.78	2.6	ug/L
⌊	Mo	98	79431.874	0.207	**493.114303**	7.47	1.5	ug/L
⌈	Ag	107	137954.919	0.634	**492.249663**	10.37	2.1	ug/L
|	Ag	109	138264.572	0.636	**499.164597**	10.73	2.2	ug/L
|	Cd	111	31980.758	0.147	**497.226464**	10.87	2.2	ug/L
|	Cd	114	75574.439	0.347	**497.904187**	8.12	1.6	ug/L

|>	In	115	217496.809	217496.809				ug/L
|	Sn	120	149919.800	0.677	**504.501088**	19.40	3.8	ug/L
|	Sb	121	135919.202	0.625	**501.327780**	21.80	4.3	ug/L
|	Sb	123	106069.669	0.487	**502.219217**	17.13	3.4	ug/L
⌈	Ba	135	42785.353	0.147	**609.713948**	45.69	7.5	ug/L
|	Ba	137	74114.487	0.254	**609.002535**	42.73	7.0	ug/L
|	Tb	159	285914.416	0.010				ug/L
|>	Ho	165	292069.924	292069.924				ug/L
|	Tl	203	112309.771	0.385	**493.137667**	20.20	4.1	ug/L
|	Tl	205	272379.484	0.934	**499.510978**	24.05	4.8	ug/L
⌊	Pb	208	375568.222	1.288	**494.781206**	24.24	4.9	ug/L
	Kr	83	38.400	10.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		101.072	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		96.293	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		97.606	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	98.156
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-03BPDSD
Sample Date/Time: Thursday, March 03, 2011 13:57:27
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\11020727-03BPDSD.022
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	9997.146	-0.007				ug/L
|	Li	7	32138.118	0.130	**498.770603**	22.99	4.6	ug/L
|	Be	9	8447.164	0.035	**489.325522**	23.42	4.8	ug/L
|	B	11	9495.155	0.039	**543.289777**	19.90	3.7	ug/L
|	Na	23	4499273.694	18.753	**67894.015292**	3637.70	5.4	ug/L
|	Mg	24	1293637.943	5.402	**28729.490805**	994.83	3.5	ug/L
|	Al	27	3411912.880	14.239	**25676.824724**	1028.78	4.0	ug/L
|	K	39	1944433.201	7.940	**24618.055281**	927.08	3.8	ug/L
|	Ca	43	21345.270	0.088	**36384.100163**	1433.79	3.9	ug/L
| >	Sc	45	239545.542	239545.542				ug/L
|	Ti	49	11338.503	0.046	**509.161953**	36.06	7.1	ug/L
|	Co	59	208191.938	0.869	**496.530509**	19.46	3.9	ug/L
|	Ni	60	46435.367	0.194	**498.755531**	20.21	4.1	ug/L
|	Ni	62	6882.998	0.029	**497.848433**	51.71	10.4	ug/L
|	Cu	63	113028.850	0.471	**493.018631**	21.33	4.3	ug/L
|	Cu	65	53860.007	0.225	**492.069995**	13.81	2.8	ug/L
|	Zn	66	34341.275	0.142	**495.716022**	33.94	6.8	ug/L
|	Zn	67	10226.327	0.036	**651.803925**	31.82	4.9	ug/L
|	Zn	68	24034.879	0.099	**495.623939**	27.31	5.5	ug/L
|	V	51	158596.234	0.685	**480.485544**	30.02	6.2	ug/L
|	Cr	52	165523.764	0.682	**510.797826**	25.43	5.0	ug/L
|	Cr	53	83516.799	0.250	**1052.957640**	81.23	7.7	ug/L
|	Mn	55	277236.140	1.157	**508.514629**	22.61	4.4	ug/L
|	Fe	54	686121.755	2.831	**27565.958875**	1446.56	5.2	ug/L
⌊	Fe	57	295529.023	1.228	**26718.877178**	1233.48	4.6	ug/L
⌜	As	75	34448.814	0.089	**494.127555**	5.62	1.1	ug/L
|	Se	77	13779.310	0.032	**2840.283699**	34.06	1.2	ug/L
|	Se	82	12643.480	0.033	**2432.162468**	27.14	1.1	ug/L
|	Sr	88	373868.316	0.966	**551.690413**	6.85	1.2	ug/L
| >	Y	89	386634.046	386634.046				ug/L
|	Mo	95	48794.543	0.126	**491.125370**	3.33	0.7	ug/L
|	Mo	97	30744.394	0.079	**494.288448**	5.72	1.2	ug/L
⌊	Mo	98	79461.380	0.205	**489.719496**	9.90	2.0	ug/L
⌜	Ag	107	137804.868	0.624	**484.368037**	5.09	1.1	ug/L
|	Ag	109	134420.117	0.609	**478.281205**	4.75	1.0	ug/L
|	Cd	111	31644.677	0.143	**484.722240**	5.80	1.2	ug/L
|	Cd	114	75163.563	0.340	**487.904077**	6.18	1.3	ug/L

|>	In	115	220763.967	220763.967				ug/L
|	Sn	120	148335.673	0.659	**491.396264**	15.80	3.2	ug/L
|	Sb	121	135636.379	0.614	**492.770874**	14.02	2.8	ug/L
L	Sb	123	105642.056	0.478	**492.663187**	4.42	0.9	ug/L
⌜	Ba	135	43018.040	0.147	**610.490706**	28.19	4.6	ug/L
|	Ba	137	74367.100	0.254	**608.476553**	20.96	3.4	ug/L
|	Tb	159	285239.353	0.005				ug/L
|>	Ho	165	292786.595	292786.595				ug/L
|	Tl	203	113966.851	0.389	**498.743905**	16.57	3.3	ug/L
|	Tl	205	273138.309	0.933	**499.219613**	25.62	5.1	ug/L
L	Pb	208	378006.881	1.292	**496.292563**	24.08	4.9	ug/L
	Kr	83	35.467	7.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		100.805	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		96.995	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		99.072	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	98.397
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, March 03, 2011 14:00:24
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\QC Std 4.023
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10357.283	-0.005				ug/L
|	Li	7	31356.379	0.127	**97.798217**	0.87	0.9	ug/L
|	Be	9	8411.809	0.035	**97.984144**	0.83	0.8	ug/L
|	B	11	8775.362	0.036	**100.919599**	1.87	1.9	ug/L
|	Na	23	1598965.134	6.671	**4805.531295**	259.68	5.4	ug/L
|	Mg	24	1071037.657	4.498	**4781.828718**	210.78	4.4	ug/L
|	Al	27	3363818.483	14.120	**5091.920927**	20.14	0.4	ug/L
|	K	39	1878645.551	7.710	**4780.442494**	29.05	0.6	ug/L
|	Ca	43	15374.939	0.063	**5226.982343**	147.60	2.8	ug/L
| >	Sc	45	238067.975	238067.975				ug/L
|	Ti	49	11139.676	0.045	**100.502501**	2.18	2.2	ug/L
|	Co	59	210918.014	0.886	**101.191328**	2.42	2.4	ug/L
|	Ni	60	45869.539	0.192	**99.079131**	1.34	1.3	ug/L
|	Ni	62	6854.978	0.029	**99.599207**	1.31	1.3	ug/L
|	Cu	63	114094.515	0.478	**100.090960**	0.94	0.9	ug/L
|	Cu	65	53866.727	0.226	**98.998062**	2.30	2.3	ug/L
|	Zn	66	33922.906	0.141	**98.428642**	2.39	2.4	ug/L
|	Zn	67	9731.315	0.034	**122.798022**	4.76	3.9	ug/L
|	Zn	68	23835.870	0.099	**98.816292**	0.65	0.7	ug/L
|	V	51	159655.187	0.693	**97.168710**	1.62	1.7	ug/L
|	Cr	52	160730.534	0.666	**99.689676**	1.44	1.4	ug/L
|	Cr	53	74476.333	0.214	**171.974019**	7.15	4.2	ug/L
|	Mn	55	273840.079	1.149	**101.002076**	1.50	1.5	ug/L
|	Fe	54	663382.868	2.751	**5355.898523**	104.68	2.0	ug/L
⌊	Fe	57	290436.276	1.213	**5279.427618**	103.87	2.0	ug/L
⌈	As	75	34846.921	0.090	**100.041179**	4.66	4.7	ug/L
|	Se	77	13250.148	0.031	**543.387280**	31.93	5.9	ug/L
|	Se	82	12871.370	0.033	**495.448297**	17.36	3.5	ug/L
|	Sr	88	332627.417	0.860	**98.323663**	3.64	3.7	ug/L
| >	Y	89	386464.865	386464.865				ug/L
|	Mo	95	49274.938	0.127	**99.270966**	5.24	5.3	ug/L
|	Mo	97	31073.778	0.080	**99.995767**	4.19	4.2	ug/L
⌊	Mo	98	80700.090	0.208	**99.526358**	2.81	2.8	ug/L
⌈	Ag	107	140150.874	0.640	**99.308849**	1.86	1.9	ug/L
|	Ag	109	135233.765	0.617	**96.988668**	1.37	1.4	ug/L
|	Cd	111	31894.903	0.146	**98.472128**	0.20	0.2	ug/L
|	Cd	114	74820.844	0.342	**97.913209**	1.50	1.5	ug/L

|>	In	115	219022.425	219022.425				ug/L
|	Sn	120	150433.853	0.674	**100.502680**	1.83	1.8	ug/L
|	Sb	121	137656.756	0.628	**100.798380**	0.53	0.5	ug/L
L	Sb	123	106610.859	0.486	**100.235612**	1.97	2.0	ug/L
⌈	Ba	135	35083.078	0.120	**100.179149**	5.57	5.6	ug/L
|	Ba	137	60560.794	0.208	**99.686751**	3.48	3.5	ug/L
|	Tb	159	287499.594	0.019				ug/L
|>	Ho	165	291035.263	291035.263				ug/L
|	Tl	203	114929.809	0.395	**101.184002**	2.55	2.5	ug/L
|	Tl	205	277422.477	0.953	**101.986816**	1.72	1.7	ug/L
L	Pb	208	378940.131	1.302	**100.073773**	2.64	2.6	ug/L
	Kr	83	32.867	4.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	97.798		
Be	9	97.984		
B	11	100.920		
Na	23	96.111		
Mg	24	95.637		
Al	27	99.842		
K	39	95.609		
Ca	43	104.540		
Sc	45		100.184	
Ti	49	100.503		
Co	59	101.191		
Ni	60	99.079		
Ni	62	99.599		
Cu	63	100.091		
Cu	65	98.998		
Zn	66	98.429		
Zn	67	122.798		
Zn	68	98.816		
V	51	97.169		
Cr	52	99.690		
Cr	53	171.974		
Mn	55	101.002		
Fe	54	107.118		
Fe	57	105.589		
As	75	100.041		
Se	77	108.677		
Se	82	99.090		
Sr	88	98.324		
Y	89		96.953	
Mo	95	99.271		
Mo	97	99.996		
Mo	98	99.526		
Ag	107	99.309		
Ag	109	96.989		
Cd	111	98.472		
Cd	114	97.913		
In	115		98.290	
Sn	120	100.503		
Sb	121	100.798		

Sb	123	100.236	
Ba	135	100.179	
Ba	137	99.687	
Tb	159		
Ho	165		97.808
Tl	203	101.184	
Tl	205	101.987	
Pb	208	100.074	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, March 03, 2011 14:03:30
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\QC Std 6.024
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	11129.433	-0.002				ug/L
|	Li	7	995.368	-0.000	**0.245428**	0.05	21.6	ug/L
|	Be	9	6.667	0.000	**1.171608**	0.01	1.1	ug/L
|	B	11	258.669	0.000	**1.973935**	0.31	15.7	ug/L
|	Na	23	6935.068	-0.017	**-51.597233**	4.57	8.9	ug/L
|	Mg	24	133.334	-0.001	**-14.743751**	0.25	1.7	ug/L
|	Al	27	1326.729	-0.005	**-26.633894**	0.25	0.9	ug/L
|	K	39	34909.283	-0.036	**-36.936678**	1.69	4.6	ug/L
|	Ca	43	484.008	0.001	**8.389185**	7.60	90.6	ug/L
| >	Sc	45	240440.026	240440.026				ug/L
|	Ti	49	408.006	-0.000	**-0.357512**	0.24	67.2	ug/L
|	Co	59	134.667	0.000	**-0.448823**	0.01	1.8	ug/L
|	Ni	60	78.000	0.000	**-0.083271**	0.02	27.0	ug/L
|	Ni	62	52.000	0.000	**0.620587**	0.11	18.2	ug/L
|	Cu	63	295.336	0.000	**-0.400977**	0.01	2.4	ug/L
|	Cu	65	145.334	0.000	**-0.381765**	0.03	7.4	ug/L
|	Zn	66	237.335	-0.001	**-0.483023**	0.08	17.3	ug/L
|	Zn	67	3401.739	0.008	**12.605487**	1.39	11.1	ug/L
|	Zn	68	305.337	-0.000	**-0.678153**	0.06	8.4	ug/L
|	V	51	-13233.888	-0.033	**-2.126302**	1.13	53.1	ug/L
|	Cr	52	3208.361	0.004	**-0.090774**	0.09	104.2	ug/L
|	Cr	53	46918.264	0.097	**45.884295**	3.92	8.6	ug/L
|	Mn	55	356.671	0.000	**-0.087881**	0.01	7.9	ug/L
|	Fe	54	8518.701	-0.000	**-33.779635**	0.56	1.7	ug/L
⌊	Fe	57	1603.423	-0.000	**-23.031936**	0.24	1.1	ug/L
⌜	As	75	34.267	-0.000	**0.905026**	0.15	16.4	ug/L
|	Se	77	2138.827	0.002	**14.632893**	1.68	11.5	ug/L
|	Se	82	0.418	-0.000	**4.061827**	0.07	1.6	ug/L
|	Sr	88	128.667	-0.000	**0.709335**	0.01	2.1	ug/L
| >	Y	89	382248.725	382248.725				ug/L
|	Mo	95	90.000	0.000	**0.990920**	0.02	1.6	ug/L
|	Mo	97	46.667	-0.000	**1.009347**	0.00	0.4	ug/L
⌊	Mo	98	121.635	-0.000	**1.030025**	0.00	0.5	ug/L
⌜	Ag	107	15.333	0.000	**0.300322**	0.00	0.9	ug/L
|	Ag	109	18.667	0.000	**1.177465**	0.01	0.7	ug/L
|	Cd	111	10.500	0.000	**0.597396**	0.00	0.7	ug/L
|	Cd	114	15.650	0.000	**0.943211**	0.02	2.4	ug/L

|>	In	115	222338.726	222338.726				ug/L
|	Sn	120	2227.970	-0.003	**-0.366066**	0.02	6.8	ug/L
|	Sb	121	430.007	0.002	**0.626846**	0.04	7.2	ug/L
L	Sb	123	335.323	0.001	**0.745891**	0.04	5.9	ug/L
⌈	Ba	135	31.333	-0.000	**0.133849**	0.03	23.4	ug/L
|	Ba	137	32.000	-0.000	**0.006494**	0.02	294.2	ug/L
|	Tb	159	285723.808	0.019				ug/L
|>	Ho	165	289081.409	289081.409				ug/L
|	Tl	203	47.333	0.000	**0.095285**	0.01	12.9	ug/L
|	Tl	205	134.001	0.000	**-0.426103**	0.02	3.7	ug/L
L	Pb	208	115.334	0.000	**0.013010**	0.00	22.9	ug/L
	Kr	83	31.733	3.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		101.182	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		95.895	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		99.779	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	97.152
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-22B
Sample Date/Time: Thursday, March 03, 2011 14:06:39
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\11020727-22B.025
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	10226.098	-0.007				ug/L
|	Li	7	22487.030	0.088	**67.616128**	4.20	6.2	ug/L
|	Be	9	393.339	0.002	**5.519509**	0.26	4.7	ug/L
|	B	11	5473.715	0.022	**61.062171**	2.74	4.5	ug/L
|	Na	23	64106693.929	262.793	**190798.513982**	7628.21	4.0	ug/L
|	Mg	24	16582192.401	67.952	**72435.872711**	4223.44	5.8	ug/L
|	Al	27	224321.075	0.910	**304.728113**	14.64	4.8	ug/L
|	K	39	1191575.233	4.702	**2909.524485**	196.36	6.7	ug/L
|	Ca	43	343292.537	1.407	**117244.395811**	5188.75	4.4	ug/L
| >	Sc	45	244066.406	244066.406				ug/L
|	Ti	49	1234.053	0.003	**7.158218**	0.28	3.9	ug/L
|	Co	59	80164.353	0.328	**37.225692**	1.86	5.0	ug/L
|	Ni	60	21157.661	0.087	**44.480872**	2.10	4.7	ug/L
|	Ni	62	3248.369	0.013	**46.019055**	2.54	5.5	ug/L
|	Cu	63	1990.805	0.007	**1.056990**	0.08	7.9	ug/L
|	Cu	65	836.025	0.003	**0.860030**	0.08	8.9	ug/L
|	Zn	66	18207.606	0.073	**50.963173**	0.66	1.3	ug/L
|	Zn	67	8144.989	0.027	**91.864244**	1.83	2.0	ug/L
|	Zn	68	12689.635	0.051	**50.402357**	1.71	3.4	ug/L
|	V	51	-20390.264	-0.061	**-6.004729**	1.89	31.4	ug/L
|	Cr	52	5360.341	0.012	**1.207719**	0.14	11.5	ug/L
|	Cr	53	65281.246	0.169	**123.204615**	12.75	10.4	ug/L
|	Mn	55	3480119.519	14.273	**1255.904358**	69.93	5.6	ug/L
|	Fe	54	1535455.501	6.260	**12231.823646**	520.94	4.3	ug/L
⌞	Fe	57	695232.767	2.845	**12411.479263**	736.41	5.9	ug/L
⌜	As	75	185.893	0.000	**1.144349**	0.15	12.9	ug/L
|	Se	77	5413.693	0.005	**76.020969**	5.86	7.7	ug/L
|	Se	82	30.368	0.000	**4.782876**	0.13	2.7	ug/L
|	Sr	88	3528379.153	5.817	**660.527100**	3.09	0.5	ug/L
| >	Y	89	606496.670	606496.670				ug/L
|	Mo	95	670.682	0.001	**1.663080**	0.02	1.4	ug/L
|	Mo	97	414.673	0.001	**1.701392**	0.03	2.0	ug/L
⌞	Mo	98	1097.613	0.001	**1.734392**	0.03	1.5	ug/L
⌜	Ag	107	36.667	0.000	**0.316275**	0.00	1.2	ug/L
|	Ag	109	25.333	0.000	**1.182826**	0.00	0.2	ug/L
|	Cd	111	32.833	0.000	**0.669362**	0.01	1.3	ug/L
|	Cd	114	64.543	0.000	**1.009151**	0.02	1.7	ug/L

|>	In	115	212945.695	212945.695				ug/L
|	Sn	120	2197.448	-0.002	**-0.321421**	0.04	11.6	ug/L
|	Sb	121	163.334	0.000	**0.440321**	0.02	5.0	ug/L
\L	Sb	123	284.870	0.001	**0.710954**	0.05	7.2	ug/L
|	Ba	135	16508.200	0.056	**46.682002**	0.91	1.9	ug/L
|	Ba	137	28637.344	0.097	**46.637101**	0.72	1.6	ug/L
|	Tb	159	288746.079	0.013				ug/L
|>	Ho	165	293976.710	293976.710				ug/L
|	Tl	203	28.000	0.000	**0.077712**	0.01	8.2	ug/L
|	Tl	205	65.333	0.000	**-0.452040**	0.01	1.2	ug/L
\L	Pb	208	309.335	0.001	**0.063394**	0.01	20.9	ug/L
	Kr	83	55.200	26.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		102.708	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		152.152	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		95.563	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	98.797
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-22B
Sample Date/Time: Thursday, March 03, 2011 14:09:32
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\11020727-22B.026
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10842.217	-0.003				ug/L
|	Li	7	5703.138	0.019	**75.965924**	3.04	4.0	ug/L
|	Be	9	87.334	0.000	**10.446416**	0.19	1.8	ug/L
|	B	11	1258.055	0.004	**67.249875**	3.87	5.8	ug/L
|	Na	23	13717875.035	56.907	**206429.597306**	8854.39	4.3	ug/L
|	Mg	24	3525550.722	14.639	**77970.309752**	2106.56	2.7	ug/L
|	Al	27	48878.482	0.193	**224.698826**	12.46	5.5	ug/L
|	K	39	278726.169	0.977	**2963.131710**	76.60	2.6	ug/L
|	Ca	43	72605.391	0.300	**124917.003469**	2276.39	1.8	ug/L
| >	Sc	45	240889.413	240889.413				ug/L
|	Ti	49	696.017	0.001	**11.550938**	2.04	17.7	ug/L
|	Co	59	17257.087	0.071	**38.568164**	1.41	3.7	ug/L
|	Ni	60	4597.407	0.019	**47.942399**	1.39	2.9	ug/L
|	Ni	62	678.683	0.003	**48.163104**	3.22	6.7	ug/L
|	Cu	63	514.009	0.001	**-1.053745**	0.05	4.4	ug/L
|	Cu	65	280.003	0.001	**-0.681729**	0.10	14.6	ug/L
|	Zn	66	4546.057	0.017	**60.114792**	1.71	2.8	ug/L
|	Zn	67	5497.060	0.016	**241.687929**	21.89	9.1	ug/L
|	Zn	68	3297.715	0.012	**59.093779**	2.84	4.8	ug/L
|	V	51	-16297.513	-0.046	**-19.289206**	8.95	46.4	ug/L
|	Cr	52	4352.664	0.008	**3.104548**	0.36	11.7	ug/L
|	Cr	53	61087.028	0.155	**542.533895**	10.11	1.9	ug/L
|	Mn	55	721373.875	2.993	**1316.366759**	25.39	1.9	ug/L
|	Fe	54	348561.084	1.412	**13662.430777**	329.53	2.4	ug/L
⌊	Fe	57	149992.180	0.616	**13348.549467**	299.21	2.2	ug/L
⌈	As	75	279.097	0.000	**7.611870**	0.25	3.3	ug/L
|	Se	77	3595.786	0.005	**329.432706**	27.31	8.3	ug/L
|	Se	82	2.100	-0.000	**20.585575**	1.51	7.3	ug/L
|	Sr	88	712860.741	1.661	**945.700943**	44.06	4.7	ug/L
| >	Y	89	429386.839	429386.839				ug/L
|	Mo	95	161.334	0.000	**5.499062**	0.14	2.5	ug/L
|	Mo	97	106.667	0.000	**5.819497**	0.32	5.5	ug/L
⌊	Mo	98	219.490	0.000	**5.608809**	0.16	2.9	ug/L
⌈	Ag	107	24.000	0.000	**1.534984**	0.03	2.2	ug/L
|	Ag	109	18.667	0.000	**5.889518**	0.06	1.0	ug/L
|	Cd	111	14.000	0.000	**3.047991**	0.03	1.0	ug/L
|	Cd	114	22.099	0.000	**4.762372**	0.04	0.9	ug/L

|>	In	115	214443.034	214443.034				ug/L
|	Sn	120	2139.761	-0.003	**-1.860699**	0.15	8.1	ug/L
|	Sb	121	94.667	0.000	**1.941689**	0.07	3.4	ug/L
\L	Sb	123	155.390	0.000	**2.927315**	0.02	0.5	ug/L
⌈	Ba	135	3509.765	0.012	**50.574454**	3.35	6.6	ug/L
|	Ba	137	6003.262	0.020	**49.418385**	1.39	2.8	ug/L
|	Tb	159	283502.878	0.010				ug/L
|>	Ho	165	289773.004	289773.004				ug/L
|	Tl	203	15.333	0.000	**0.335408**	0.02	6.7	ug/L
|	Tl	205	36.000	0.000	**-2.312505**	0.02	0.9	ug/L
\L	Pb	208	135.334	0.000	**0.091379**	0.01	13.0	ug/L
	Kr	83	38.267	10.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		101.371	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		107.721	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		96.235	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	97.384
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 11020727-32B
Sample Date/Time: Thursday, March 03, 2011 14:12:13
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\11020727-32B.027
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10959.518	-0.003				ug/L
|	Li	7	3161.017	0.009	**7.137972**	0.32	4.4	ug/L
|	Be	9	6.000	0.000	**1.163906**	0.04	3.4	ug/L
|	B	11	6692.234	0.027	**76.012202**	2.06	2.7	ug/L
|	Na	23	20037149.956	83.353	**60490.887973**	2206.60	3.6	ug/L
|	Mg	24	97163.253	0.403	**415.846745**	25.13	6.0	ug/L
|	Al	27	18555.398	0.067	**-0.656612**	1.23	187.0	ug/L
|	K	39	242983.287	0.830	**501.668817**	18.56	3.7	ug/L
|	Ca	43	5523.735	0.022	**1757.775789**	64.23	3.7	ug/L
| >	Sc	45	240317.753	240317.753				ug/L
|	Ti	49	772.688	0.001	**3.040434**	0.42	13.7	ug/L
|	Co	59	274.669	0.001	**-0.381892**	0.01	2.2	ug/L
|	Ni	60	1808.114	0.007	**3.629071**	0.08	2.2	ug/L
|	Ni	62	308.003	0.001	**4.305585**	0.54	12.6	ug/L
|	Cu	63	964.033	0.003	**0.183724**	0.03	18.8	ug/L
|	Cu	65	236.002	0.001	**-0.215432**	0.03	12.6	ug/L
|	Zn	66	1505.413	0.004	**3.202794**	0.34	10.6	ug/L
|	Zn	67	5755.829	0.017	**53.032848**	5.97	11.3	ug/L
|	Zn	68	1318.728	0.004	**3.567491**	0.52	14.6	ug/L
|	V	51	-18913.371	-0.057	**-5.365561**	1.08	20.2	ug/L
|	Cr	52	6292.053	0.017	**1.845881**	0.20	10.7	ug/L
|	Cr	53	69301.147	0.190	**145.772521**	10.80	7.4	ug/L
|	Mn	55	109770.201	0.456	**39.988445**	1.26	3.1	ug/L
|	Fe	54	16022.921	0.031	**27.484458**	5.90	21.5	ug/L
⌊	Fe	57	4317.986	0.011	**26.382146**	3.90	14.8	ug/L
⌈	As	75	283.565	0.001	**1.646591**	0.61	36.8	ug/L
|	Se	77	4378.671	0.008	**127.430941**	5.78	4.5	ug/L
|	Se	82	-1.508	-0.000	**3.985534**	0.07	1.7	ug/L
|	Sr	88	40323.503	0.107	**12.909164**	0.16	1.2	ug/L
| >	Y	89	373794.926	373794.926				ug/L
|	Mo	95	703.351	0.002	**2.263357**	0.10	4.6	ug/L
|	Mo	97	438.007	0.001	**2.303498**	0.02	1.1	ug/L
⌊	Mo	98	1188.725	0.003	**2.382258**	0.08	3.2	ug/L
⌈	Ag	107	19.333	0.000	**0.303686**	0.00	0.6	ug/L
|	Ag	109	10.667	0.000	**1.172153**	0.01	0.5	ug/L
|	Cd	111	9.500	0.000	**0.595620**	0.01	1.0	ug/L
|	Cd	114	20.220	0.000	**0.950091**	0.01	1.6	ug/L

|>	In	115	213588.889	213588.889				ug/L
|	Sn	120	2129.726	-0.003	**-0.373515**	0.09	23.9	ug/L
|	Sb	121	106.000	0.000	**0.397291**	0.01	3.7	ug/L
|	Sb	123	139.721	0.000	**0.571126**	0.01	2.1	ug/L
⌈	Ba	135	5597.763	0.019	**16.201577**	0.52	3.2	ug/L
|	Ba	137	9688.619	0.033	**16.085097**	0.29	1.8	ug/L
|	Tb	159	287597.634	0.030				ug/L
|>	Ho	165	287778.624	287778.624				ug/L
|	Tl	203	11.333	0.000	**0.063528**	0.00	6.5	ug/L
|	Tl	205	22.667	0.000	**-0.467492**	0.00	0.6	ug/L
⌊	Pb	208	1802.711	0.006	**0.464049**	0.02	4.6	ug/L
	Kr	83	30.867	2.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		101.130	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		93.774	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		95.852	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	96.714
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, March 03, 2011 14:17:02
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\QC Std 4.028
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	10281.634	-0.005				ug/L
|	Li	7	30884.023	0.126	**97.285498**	4.00	4.1	ug/L
|	Be	9	8437.158	0.036	**99.263733**	4.46	4.5	ug/L
|	B	11	8490.522	0.035	**98.584273**	2.39	2.4	ug/L
|	Na	23	1575576.754	6.638	**4781.057446**	209.80	4.4	ug/L
|	Mg	24	1038393.879	4.403	**4680.250998**	106.17	2.3	ug/L
|	Al	27	3368957.143	14.285	**5151.848660**	243.12	4.7	ug/L
|	K	39	1827125.294	7.573	**4694.872252**	253.16	5.4	ug/L
|	Ca	43	15533.775	0.065	**5336.566294**	175.28	3.3	ug/L
| >	Sc	45	235811.823	235811.823				ug/L
|	Ti	49	11415.227	0.047	**104.148317**	3.61	3.5	ug/L
|	Co	59	213687.716	0.906	**103.571616**	5.57	5.4	ug/L
|	Ni	60	46727.011	0.198	**101.951272**	4.39	4.3	ug/L
|	Ni	62	7324.544	0.031	**107.488626**	2.93	2.7	ug/L
|	Cu	63	113466.257	0.481	**100.547209**	3.85	3.8	ug/L
|	Cu	65	53558.886	0.227	**99.413196**	3.11	3.1	ug/L
|	Zn	66	34311.836	0.144	**100.543750**	2.37	2.4	ug/L
|	Zn	67	9301.695	0.033	**116.940695**	4.72	4.0	ug/L
|	Zn	68	24447.600	0.102	**102.461057**	6.51	6.4	ug/L
|	V	51	162640.807	0.712	**99.781818**	2.73	2.7	ug/L
|	Cr	52	163347.760	0.683	**102.360288**	3.66	3.6	ug/L
|	Cr	53	69545.605	0.196	**152.748143**	3.37	2.2	ug/L
|	Mn	55	274245.304	1.162	**102.173561**	4.47	4.4	ug/L
|	Fe	54	668489.207	2.800	**5453.007912**	179.64	3.3	ug/L
⌊	Fe	57	297295.346	1.254	**5460.624414**	229.39	4.2	ug/L
⌜	As	75	34691.408	0.091	**101.505752**	3.80	3.7	ug/L
|	Se	77	12693.640	0.030	**528.641888**	24.31	4.6	ug/L
|	Se	82	12763.849	0.034	**500.867323**	15.56	3.1	ug/L
|	Sr	88	326177.690	0.860	**98.291034**	2.63	2.7	ug/L
| >	Y	89	379022.021	379022.021				ug/L
|	Mo	95	47542.995	0.125	**97.658756**	2.70	2.8	ug/L
|	Mo	97	30094.347	0.079	**98.753800**	3.88	3.9	ug/L
⌊	Mo	98	77039.320	0.203	**96.903471**	3.20	3.3	ug/L
⌜	Ag	107	134991.622	0.621	**96.425052**	1.25	1.3	ug/L
|	Ag	109	133760.946	0.616	**96.698661**	1.98	2.1	ug/L
|	Cd	111	31360.899	0.144	**97.611664**	1.86	1.9	ug/L
|	Cd	114	74057.389	0.341	**97.703874**	2.10	2.1	ug/L

|>	In	115	217250.822	217250.822				ug/L
|	Sn	120	145284.746	0.656	**97.804532**	1.69	1.7	ug/L
|	Sb	121	134656.997	0.620	**99.409261**	0.68	0.7	ug/L
L	Sb	123	103668.676	0.477	**98.270831**	2.91	3.0	ug/L
⌜	Ba	135	34254.354	0.116	**96.360929**	1.76	1.8	ug/L
|	Ba	137	59918.068	0.203	**97.168373**	1.27	1.3	ug/L
|	Tb	159	292712.791	0.022				ug/L
|>	Ho	165	295342.542	295342.542				ug/L
|	Tl	203	113330.452	0.384	**98.307689**	1.09	1.1	ug/L
|	Tl	205	269359.394	0.912	**97.577022**	3.08	3.2	ug/L
L	Pb	208	378435.696	1.282	**98.491492**	2.90	2.9	ug/L
	Kr	83	36.400	8.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	97.285		
Be	9	99.264		
B	11	98.584		
Na	23	95.621		
Mg	24	93.605		
Al	27	101.017		
K	39	93.897		
Ca	43	106.731		
Sc	45		99.234	
Ti	49	104.148		
Co	59	103.572		
Ni	60	101.951		
Ni	62	107.489		
Cu	63	100.547		
Cu	65	99.413		
Zn	66	100.544		
Zn	67	116.941		
Zn	68	102.461		
V	51	99.782		
Cr	52	102.360		
Cr	53	152.748		
Mn	55	102.174		
Fe	54	109.060		
Fe	57	109.212		
As	75	101.506		
Se	77	105.728		
Se	82	100.173		
Sr	88	98.291		
Y	89		95.086	
Mo	95	97.659		
Mo	97	98.754		
Mo	98	96.903		
Ag	107	96.425		
Ag	109	96.699		
Cd	111	97.612		
Cd	114	97.704		
In	115		97.495	
Sn	120	97.805		
Sb	121	99.409		

Sb	123	98.271	
Ba	135	96.361	
Ba	137	97.168	
Tb	159		
Ho	165		99.256
Tl	203	98.308	
Tl	205	97.577	
Pb	208	98.491	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, March 03, 2011 14:20:09
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\QC Std 6.029
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	11167.971	-0.001				ug/L
|	Li	7	997.368	-0.000	**0.345446**	0.27	76.8	ug/L
|	Be	9	6.667	0.000	**1.174072**	0.04	3.1	ug/L
|	B	11	254.669	0.000	**2.011621**	0.13	6.5	ug/L
|	Na	23	6067.959	-0.020	**-53.688836**	1.61	3.0	ug/L
|	Mg	24	133.334	-0.001	**-14.728596**	0.25	1.7	ug/L
|	Al	27	1326.728	-0.005	**-26.574466**	0.15	0.6	ug/L
|	K	39	39588.156	-0.011	**-21.843003**	5.21	23.9	ug/L
|	Ca	43	445.340	0.001	**-0.836828**	27.85	3328.1	ug/L
|>	Sc	45	233739.837	233739.837				ug/L
|	Ti	49	395.339	-0.000	**-0.367960**	0.29	79.6	ug/L
|	Co	59	105.334	0.000	**-0.461629**	0.02	3.3	ug/L
|	Ni	60	83.334	0.000	**-0.066796**	0.05	71.8	ug/L
|	Ni	62	58.667	0.000	**0.742483**	0.33	44.7	ug/L
|	Cu	63	271.336	0.000	**-0.414872**	0.04	8.6	ug/L
|	Cu	65	134.667	0.000	**-0.393688**	0.07	16.7	ug/L
|	Zn	66	222.668	-0.001	**-0.506250**	0.03	6.4	ug/L
|	Zn	67	3448.417	0.008	**15.079076**	1.86	12.3	ug/L
|	Zn	68	321.337	-0.000	**-0.572263**	0.17	29.2	ug/L
|	V	51	-9991.852	-0.021	**-0.470783**	1.59	336.8	ug/L
|	Cr	52	3165.018	0.004	**-0.059956**	0.13	222.9	ug/L
|	Cr	53	45618.742	0.097	**45.938421**	5.03	10.9	ug/L
|	Mn	55	496.009	0.001	**-0.031801**	0.01	45.6	ug/L
|	Fe	54	8522.596	0.001	**-31.701578**	4.55	14.4	ug/L
⌊	Fe	57	1746.107	0.000	**-19.522153**	1.00	5.1	ug/L
⌈	As	75	180.017	0.000	**1.328011**	0.08	6.2	ug/L
|	Se	77	2181.500	0.002	**17.397997**	2.82	16.2	ug/L
|	Se	82	-2.519	-0.000	**3.949428**	0.10	2.5	ug/L
|	Sr	88	130.001	-0.000	**0.710159**	0.00	0.5	ug/L
|>	Y	89	379829.667	379829.667				ug/L
|	Mo	95	73.334	-0.000	**0.959128**	0.04	4.4	ug/L
|	Mo	97	52.000	-0.000	**1.028849**	0.06	5.5	ug/L
⌊	Mo	98	103.114	-0.000	**1.008570**	0.03	3.0	ug/L
⌈	Ag	107	19.333	0.000	**0.303396**	0.01	2.4	ug/L
|	Ag	109	14.667	0.000	**1.174835**	0.00	0.3	ug/L
|	Cd	111	7.167	0.000	**0.587767**	0.00	0.8	ug/L
|	Cd	114	23.840	0.000	**0.954331**	0.00	0.4	ug/L

|>	In	115	218236.496	218236.496				ug/L
|	Sn	120	2282.013	-0.002	**-0.300462**	0.05	17.2	ug/L
|	Sb	121	426.673	0.002	**0.630162**	0.04	7.1	ug/L
|	Sb	123	332.326	0.001	**0.749272**	0.06	7.4	ug/L
⌈	Ba	135	30.667	-0.000	**0.131686**	0.03	21.3	ug/L
|	Ba	137	33.333	-0.000	**0.008535**	0.01	128.9	ug/L
|	Tb	159	278926.183	-0.006				ug/L
|>	Ho	165	289613.492	289613.492				ug/L
|	Tl	203	38.000	0.000	**0.087143**	0.01	11.5	ug/L
|	Tl	205	74.000	0.000	**-0.448435**	0.01	1.3	ug/L
⌊	Pb	208	108.667	0.000	**0.011149**	0.00	22.6	ug/L
	Kr	83	32.267	4.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.362	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		95.288	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		97.938	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	97.330
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Thursday, March 03, 2011 14:23:21
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\ICSA.030
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	11016.735	-0.002				ug/L
|	Li	7	1028.037	-0.000	**0.374565**	0.20	52.3	ug/L
|	Be	9	5.333	0.000	**1.157089**	0.03	2.4	ug/L
|	B	11	308.003	0.001	**2.568636**	0.43	16.6	ug/L
|	Na	23	28941582.799	121.179	**87960.071320**	3958.88	4.5	ug/L
|	Mg	24	18902373.520	79.199	**84427.149434**	2013.99	2.4	ug/L
|	Al	27	59472929.933	249.166	**90271.259382**	1895.56	2.1	ug/L
|	K	39	35222592.806	147.414	**91666.032646**	837.38	0.9	ug/L
|	Ca	43	279240.584	1.169	**97419.811610**	910.06	0.9	ug/L
| >	Sc	45	238665.503	238665.503				ug/L
|	Ti	49	210805.835	0.881	**1971.290369**	25.60	1.3	ug/L
|	Co	59	3567.114	0.015	**1.203751**	0.15	12.3	ug/L
|	Ni	60	1198.050	0.005	**2.337732**	0.16	6.8	ug/L
|	Ni	62	742.686	0.003	**10.653367**	0.74	6.9	ug/L
|	Cu	63	2216.172	0.008	**1.292239**	0.07	5.4	ug/L
|	Cu	65	1314.727	0.005	**1.778247**	0.10	5.5	ug/L
|	Zn	66	1214.718	0.003	**2.384761**	0.23	9.6	ug/L
|	Zn	67	3927.208	0.010	**22.107943**	4.89	22.1	ug/L
|	Zn	68	570.678	0.001	**0.447179**	0.25	55.5	ug/L
|	V	51	-12266.750	-0.029	**-1.642038**	0.85	51.6	ug/L
|	Cr	52	6015.934	0.016	**1.696996**	0.03	1.9	ug/L
|	Cr	53	48830.860	0.106	**55.986317**	12.76	22.8	ug/L
|	Mn	55	21916.799	0.091	**7.864091**	0.14	1.8	ug/L
|	Fe	54	12680172.224	53.095	**103986.502709**	583.14	0.6	ug/L
⌊	Fe	57	5641167.644	23.638	**103285.184422**	4222.21	4.1	ug/L
⌈	As	75	23.254	-0.000	**0.873881**	0.07	7.7	ug/L
|	Se	77	3283.044	0.005	**69.530206**	10.45	15.0	ug/L
|	Se	82	-2.540	-0.000	**3.945545**	0.15	3.8	ug/L
|	Sr	88	24194.472	0.063	**7.836232**	0.19	2.4	ug/L
| >	Y	89	383139.443	383139.443				ug/L
|	Mo	95	947458.346	2.474	**1910.416504**	50.93	2.7	ug/L
|	Mo	97	600513.887	1.568	**1933.150288**	44.67	2.3	ug/L
⌊	Mo	98	1527993.288	3.989	**1884.905500**	42.58	2.3	ug/L
⌈	Ag	107	253.336	0.001	**0.473379**	0.01	1.2	ug/L
|	Ag	109	196.001	0.001	**1.307267**	0.02	1.7	ug/L
|	Cd	111	931.530	0.004	**3.503479**	0.17	4.7	ug/L
|	Cd	114	1619.800	0.008	**3.079395**	0.07	2.3	ug/L

|>	In	115	213383.322	213383.322				ug/L
|	Sn	120	2366.668	-0.002	**-0.207212**	0.07	33.7	ug/L
|	Sb	121	373.338	0.001	**0.597738**	0.02	2.6	ug/L
L	Sb	123	302.073	0.001	**0.728064**	0.06	7.9	ug/L
⌈	Ba	135	1811.449	0.006	**5.289049**	0.45	8.4	ug/L
|	Ba	137	3008.317	0.010	**4.980544**	0.22	4.4	ug/L
|	Tb	159	281028.217	0.010				ug/L
|>	Ho	165	286975.956	286975.956				ug/L
|	Tl	203	314.003	0.001	**0.333835**	0.03	8.6	ug/L
|	Tl	205	760.687	0.003	**-0.191063**	0.02	8.1	ug/L
L	Pb	208	33915.794	0.118	**9.070830**	0.32	3.5	ug/L
	Kr	83	43.400	15.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		100.435	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		96.119	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		95.760	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	96.444
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Thursday, March 03, 2011 14:26:02
Sample Type: Spike - 2 of 66
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1103031240MS\ICSAB.031
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10639.998	-0.004				ug/L
|	Li	7	1042.038	-0.000	**0.445101**	0.10	22.5	ug/L
|	Be	9	6.667	0.000	**1.172927**	0.03	2.3	ug/L
|	B	11	348.004	0.001	**3.063965**	0.30	9.9	ug/L
|	Na	23	29594400.456	124.994	**90730.349645**	3537.79	3.9	ug/L
|	Mg	24	19432700.632	82.090	**87509.660350**	918.57	1.0	ug/L
|	Al	27	60536993.921	255.768	**92663.669075**	3443.10	3.7	ug/L
|	K	39	35963230.083	151.722	**94345.336543**	1281.49	1.4	ug/L
|	Ca	43	284622.277	1.201	**100110.985237**	852.28	0.9	ug/L
|>	Sc	45	236733.152	236733.152				ug/L
|	Ti	49	213381.298	0.900	**2011.773799**	15.40	0.8	ug/L
|	Co	59	167137.388	0.706	**80.535624**	1.05	1.3	ug/L
|	Ni	60	36727.159	0.155	**79.733035**	1.11	1.4	ug/L
|	Ni	62	5871.874	0.025	**85.784140**	2.46	2.9	ug/L
|	Cu	63	87647.402	0.369	**77.180000**	1.17	1.5	ug/L
|	Cu	65	42636.873	0.180	**78.669583**	1.25	1.6	ug/L
|	Zn	66	14373.896	0.059	**41.269274**	0.85	2.1	ug/L
|	Zn	67	6360.082	0.020	**65.042036**	2.24	3.4	ug/L
|	Zn	68	9580.548	0.039	**38.776731**	1.62	4.2	ug/L
|	V	51	126010.599	0.554	**78.240283**	0.93	1.2	ug/L
|	Cr	52	131668.793	0.547	**81.747849**	0.86	1.0	ug/L
|	Cr	53	66884.257	0.184	**139.463607**	3.92	2.8	ug/L
|	Mn	55	236054.714	0.996	**87.522320**	0.80	0.9	ug/L
|	Fe	54	12704392.013	53.631	**105036.754552**	1616.22	1.5	ug/L
⌊	Fe	57	5654548.938	23.877	**104332.197676**	2796.58	2.7	ug/L
⌈	As	75	12964.401	0.034	**38.191581**	0.16	0.4	ug/L
|	Se	77	4054.576	0.007	**107.347734**	5.88	5.5	ug/L
|	Se	82	990.602	0.003	**42.343124**	1.17	2.8	ug/L
|	Sr	88	25144.129	0.065	**8.148501**	0.34	4.2	ug/L
|>	Y	89	381530.090	381530.090				ug/L
|	Mo	95	969542.808	2.541	**1962.378506**	20.27	1.0	ug/L
|	Mo	97	616208.802	1.615	**1991.552718**	4.33	0.2	ug/L
⌊	Mo	98	1565275.947	4.103	**1938.798266**	33.56	1.7	ug/L
⌈	Ag	107	27128.410	0.131	**20.543153**	0.55	2.7	ug/L
|	Ag	109	26063.088	0.126	**20.678742**	0.25	1.2	ug/L
|	Cd	111	13295.852	0.064	**43.697830**	0.92	2.1	ug/L
|	Cd	114	30649.724	0.148	**42.904225**	0.12	0.3	ug/L

|>	In	115	207256.977	207256.977				ug/L
|	Sn	120	2403.408	-0.001	**-0.131089**	0.04	30.1	ug/L
|	Sb	121	326.004	0.001	**0.569261**	0.03	5.6	ug/L
\L	Sb	123	293.411	0.001	**0.727096**	0.01	1.7	ug/L
\Γ	Ba	135	1833.451	0.006	**5.421368**	0.25	4.6	ug/L
|	Ba	137	3093.002	0.011	**5.184229**	0.14	2.7	ug/L
|	Tb	159	280083.984	0.020				ug/L
|>	Ho	165	283209.562	283209.562				ug/L
|	Tl	203	328.004	0.001	**0.349847**	0.01	2.9	ug/L
|	Tl	205	752.687	0.003	**-0.190170**	0.02	8.1	ug/L
\L	Pb	208	34643.200	0.122	**9.383926**	0.15	1.6	ug/L
	Kr	83	47.067	18.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		99.622	
Ti	49			
Co	59			99.165
Ni	60			96.744
Ni	62			93.913
Cu	63			94.860
Cu	65			96.114
Zn	66			97.211
Zn	67			107.335
Zn	68			95.824
V	51			99.853
Cr	52			100.064
Cr	53			104.347
Mn	55			99.573
Fe	54			
Fe	57			
As	75			93.294
Se	77			94.544
Se	82			95.994
Sr	88			
Y	89		95.715	
Mo	95			
Mo	97			
Mo	98			
Ag	107			100.349
Ag	109			96.857
Cd	111			100.486
Cd	114			99.562
In	115		93.011	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.178
Tl	203	
Tl	205	
Pb	208	
Kr	83	

METALS PREP AND ANALYTICAL RUN LOGS

SPL, Inc.

PREP BATCH REPORT

Prep Batch ID: **98257**
Prep Code: **PR3005_6010**
Technician: **Savannah Alfred**

Prep Start Date: **2/25/2011 8:00:00 AM**
Prep End Date: **2/25/2011 8:05:00 AM**

Sample ID	Matrix	Vial	pH	wt (Kg)	Ini vol (mL)	Surr Added	Spk Added	Homog	Fin Vol (mL)	Factor	SDG
11020727-03B	Water	1		0	100	1		X	100	1	
11020727-22B	Water	1		0	100	1		X	100	1	
11020727-32B	Water	1		0	100	1		X	100	1	
LCS-98257		1		0	100	1		X	100	1	
MBLK-98257		1		0	100	1		X	100	1	

SPL, Inc.

PREP BATCH REPORT

Prep Batch ID: **98096**
Prep Code: **PR3010_6020**
Technician: **Savannah Alfred**

Page: ***1 of 1***
Prep Start Date: **2/21/2011 5:00:00 PM**
Prep End Date: **2/22/2011 5:00:00 AM**

Sample ID	Matrix	Vial	pH	wt (Kg)	Ini vol (mL)	Surr Added	Spk Added	Homog	Fin Vol (mL)	Factor	SDG
11020727-01A	Water	1		0	50	1		X	50	1	
11020727-02A	Water	1		0	50	1		X	50	1	
11020727-03A	Water	1		0	50	1		X	50	1	
11020727-04A	Water	1		0	50	1		X	50	1	
11020727-05A	Water	1		0	50	1		X	50	1	
11020727-06A	Water	1		0	50	1		X	50	1	
11020727-07A	Water	1		0	50	1		X	50	1	
11020727-08A	Water	1		0	50	1		X	50	1	
11020727-09A	Water	1		0	50	1		X	50	1	
11020727-10A	Water	1		0	50	1		X	50	1	
11020727-11A	Water	1		0	50	1		X	50	1	
11020727-11AMS	Water	1		0	50	1		X	50	1	
11020727-11AMSD	Water	1		0	50	1		X	50	1	
11020727-12A	Water	1		0	50	1		X	50	1	
11020727-13A	Water	1		0	50	1		X	50	1	
11020727-14A	Water	1		0	50	1		X	50	1	
11020727-15A	Water	1		0	50	1		X	50	1	
11020727-16A	Water	1		0	50	1		X	50	1	
11020727-17A	Water	1		0	50	1		X	50	1	
11020727-18A	Water	1		0	50	1		X	50	1	
11020727-19A	Water	1		0	50	1		X	50	1	
11020727-20A	Water	1		0	50	1		X	50	1	
LCS-98096		1		0	50	1		X	50	1	
MBLK-98096		1		0	50	1		X	50	1	

SPL, Inc.

PREP BATCH REPORT

Prep Batch ID: **98097**
Prep Code: **PR3010_6020**
Technician: **Savannah Alfred**

Prep Start Date: **2/21/2011 5:00:00 PM**
Prep End Date: **2/22/2011 5:00:00 AM**

Sample ID	Matrix	Vial	pH	wt (Kg)	Ini vol (mL)	Surr Added	Spk Added	Homog	Fin Vol (mL)	Factor	SDG
11020687-01D	Water	1		0	50	1		X	50	1	
11020687-03D	Water	1		0	50	1		X	50	1	
11020689-01C	Water	1		0	50	1		X	50	1	
11020689-03C	Water	1		0	50	1		X	50	1	
11020689-05C	Water	1		0	50	1		X	50	1	
11020727-21A	Water	1		0	50	1		X	50	1	
11020727-22A	Water	1		0	50	1		X	50	1	
11020727-23A	Water	1		0	50	1		X	50	1	
11020727-24A	Water	1		0	50	1		X	50	1	
11020727-25A	Water	1		0	50	1		X	50	1	
11020727-26A	Water	1		0	50	1		X	50	1	
11020727-27A	Water	1		0	50	1		X	50	1	
11020727-28A	Water	1		0	50	1		X	50	1	
11020727-29A	Water	1		0	50	1		X	50	1	
11020727-30A	Water	1		0	50	1		X	50	1	
11020727-31A	Water	1		0	50	1		X	50	1	
11020727-32A	Water	1		0	50	1		X	50	1	
11020727-33A	Water	1		0	50	1		X	50	1	
11020727-33AMS	Water	1		0	50	1		X	50	1	
11020727-33AMSD	Water	1		0	50	1		X	50	1	
11020727-34A	Water	1		0	50	1		X	50	1	
11020727-35A	Water	1		0	50	1		X	50	1	
LCS-98097		1		0	50	1		X	50	1	
MBLK-98097		1		0	50	1		X	50	1	

1102240907MS
2-24-11
RD

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
CAL BLANK	02/24/11 09:18:42	Cal Blank	SAMP	3.0	6020_W_ALL			06120-94-03
STD 1	02/24/11 09:21:23	Std 1	SAMP	3.0	6020_W_ALL			06119-210-07
STD 2	02/24/11 09:24:04	Std 2	SAMP	3.0	6020_W_ALL			-211-07
STD 3	02/24/11 09:26:45	Std 3	SAMP	3.0	6020_W_ALL			-212-07
STD 4	02/24/11 09:29:26	Std 4	SAMP	3.0	6020_W_ALL			-213-07
STD 5	02/24/11 09:32:07	Std 5	SAMP	3.0	6020_W_ALL			-214-07
QC STD 1	02/24/11 09:34:48	ICV	ICV	1.0	6020_W_ALL	✓		-216-07
QC STD 3	02/24/11 09:38:56	ICB	ICB	1.0	6020_W_ALL	✓		06120-94-03
ICSA	02/24/11 09:44:17	ICSA	ICSA	1.0	6020_W_ALL	✓		06119-204-11
ICSAB	02/24/11 09:46:58	ICSAB	ICSAB	1.0	6020_W_ALL	✓		-205-11
MBLK-98096	02/24/11 09:58:34	MBLK-98096	MBLK	1.0	6020_W_ALL	✓		
LCS-98096	02/24/11 10:01:15	LCS-98096	LCS	1.0	6020_W_ALL	✓		
11020727-11A	02/24/11 10:39:03	11020727-11A	SAMP	1.0	6020_W_ALL	✓		BC-19
11020727-11ASD	02/24/11 10:41:44	11020727-11ASD	SD	5.0	6020_W_ALL	✓		
11020727-11AMS	02/24/11 10:44:58	11020727-11AMS	MS	1.0	6020_W_ALL	✓		
11020727-11AMS	02/24/11 10:47:38	11020727-11AMSD	MSD	1.0	6020_W_ALL	✓		
11020727-11APDS	02/24/11 10:50:19	11020727-11APDS	PDS	5.0	6020_W_ALL	✓		
11020727-11APDS	02/24/11 10:52:59	11020727-11APDSD	PDSD	5.0	6020_W_ALL	✓		
QC STD 4	02/24/11 10:58:42	CCV	CCV	1.0	6020_W_ALL	✓		06119-215-07
QC STD 6	02/24/11 11:01:59	CCB	CCB	1.0	6020_W_ALL	✓		06120-94-03
11020727-01A	02/24/11 11:04:57	11020727-01A	SAMP	1.0	6020_W_ALL	✓		BA-09A
11020727-02A	02/24/11 11:07:37	11020727-02A	SAMP	1.0	6020_W_ALL	✓		BA-09
11020727-03A	02/24/11 11:10:18	11020727-03A	SAMP	1.0	6020_W_ALL	✓		MW-4
11020727-04A	02/24/11 11:12:58	11020727-04A	SAMP	1.0	6020_W_ALL	✓		~~MW~~ WW-09
11020727-05A	02/24/11 11:15:39	11020727-05A	SAMP	1.0	6020_W_ALL	✓		WW-04
11020727-06A	02/24/11 11:18:19	11020727-06A	SAMP	1.0	6020_W_ALL	✓		Reagan well
11020727-07A	02/24/11 11:21:00	11020727-07A	SAMP	1.0	6020_W_ALL	✓		~~BA~~ BC-03
11020727-08A	02/24/11 11:23:41	11020727-08A	SAMP	1.0	6020_W_ALL	✓		BC-07
N020727-09A	02/24/11 11:26:21	11020727-09A	SAMP	1.0	6020_W_ALL	✓		DW-04
N020727-10A	02/24/11 11:29:02	11020727-10A	SAMP	1.0	6020_W_ALL	✓		Duplicate #1

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 03/07/2011 14:49:20

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
QC STD 4	02/24/11 11:40:10	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/24/11 11:43:29	CCB	CCB	1.0	6020_W_ALL	✓		
11020727-12A	02/24/11 11:46:33	11020727-12A	SAMP	1.0	6020_W_ALL	✓		BC-25
11020727-13A	02/24/11 11:49:14	11020727-13A	SAMP	1.0	6020_W_ALL	✓		MW-3
11020727-14A	02/24/11 11:51:54	11020727-14A	SAMP	1.0	6020_W_ALL	✓		MW-6
11020727-15A	02/24/11 11:54:35	11020727-15A	SAMP	1.0	6020_W_ALL	✓		BB-01
11020727-16A	02/24/11 11:57:15	11020727-16A	SAMP	1.0	6020_W_ALL	✓		Southwell
11020727-17A	02/24/11 11:59:56	11020727-17A	SAMP	1.0	6020_W_ALL	✓		BC-17
11020727-18A	02/24/11 12:02:36	11020727-18A	SAMP	1.0	6020_W_ALL	✓		North well
11020727-19A	02/24/11 12:05:17	11020727-19A	SAMP	1.0	6020_W_ALL	✓		BC-21R
11020727-20A	02/24/11 12:07:57	11020727-20A	SAMP	1.0	6020_W_ALL	✓		BA-01A
11020727-02A	02/24/11 13:18:04	11020727-02A	SAMP	5.0	6020_W_ALL			BA-09
QC STD 4	02/24/11 13:27:02	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/24/11 13:30:46	CCB	CCB	1.0	6020_W_ALL	✓		
11020727-02A	02/24/11 13:34:39	11020727-02A	SAMP	25	6020_W_ALL	✓		BA-09
11020727-14A	02/24/11 13:37:19	11020727-14A	SAMP	5.0	6020_W_ALL	✓		MW-6
QC STD 4	02/24/11 13:41:02	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/24/11 13:44:46	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/24/11 13:47:45	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/24/11 13:50:25	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
MBLK-98097	02/24/11 13:55:50	MBLK-98097	MBLK	1.0	6020_W_ALL	✓		
LCS-98097	02/24/11 13:58:31	LCS-98097	LCS	1.0	6020_W_ALL	✓		
11020727-33A	02/24/11 14:01:55	11020727-33A	SAMP	1.0	6020_W_ALL	✓		BA-03
11020727-33ASD	02/24/11 14:08:51	11020727-33ASD	SD	5.0	6020_W_ALL	✓		
11020727-33AMS	02/24/11 14:13:04	11020727-33AMS	MS	1.0	6020_W_ALL	✓		
11020727-33AMS	02/24/11 14:15:44	11020727-33AMSD	MSD	1.0	6020_W_ALL	✓		
11020727-33APDS	02/24/11 14:18:24	11020727-33APDS	PDS	5.0	6020_W_ALL	✓		
11020727-33APDS	02/24/11 14:21:05	11020727-33APDSD	PDSD	5.0	6020_W_ALL	✓		
QC STD 4	02/24/11 14:36:39	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/24/11 14:45:30	CCB	CCB	1.0	6020_W_ALL	✓		

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 03/07/2011 14:49:20

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
11020687-01D	02/24/11 15:23:08	11020687-01D	SAMP	10	6020_W_ALL	✓		
11020687-03D	02/24/11 15:25:55	11020687-03D	SAMP	10	6020_W_ALL	✓		
11020689-01C	02/24/11 15:28:39	11020689-01C	SAMP	1.0	6020_W_ALL	✓		
11020689-03C	02/24/11 15:31:23	11020689-03C	SAMP	1.0	6020_W_ALL	✓		
11020689-05C	02/24/11 15:34:05	11020689-05C	SAMP	1.0	6020_W_ALL	✓		
11020727-21A	02/24/11 15:36:47	11020727-21A	SAMP	1.0	6020_W_ALL	✓		Duplicate #2
11020727-22A	02/24/11 15:39:28	11020727-22A	SAMP	1.0	6020_W_ALL	✓		BA-01
11020727-23A	02/24/11 15:42:08	11020727-23A	SAMP	1.0	6020_W_ALL	✓		DW-3
11020727-24A	02/24/11 15:44:49	11020727-24A	SAMP	1.0	6020_W_ALL	✓		PW-4
11020727-25A	02/24/11 15:47:30	11020727-25A	SAMP	1.0	6020_W_ALL	✓		DW-2
QC STD 4	02/24/11 15:57:03	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/24/11 16:04:42	CCB	CCB	1.0	6020_W_ALL	✓		
11020727-26A	02/24/11 16:07:59	11020727-26A	SAMP	1.0	6020_W_ALL	✓		Duplicate #3
11020727-27A	02/24/11 16:10:39	11020727-27A	SAMP	1.0	6020_W_ALL	✓		BA-05A
11020727-28A	02/24/11 16:13:20	11020727-28A	SAMP	1.0	6020_W_ALL	✓		BA-05
11020727-29A	02/24/11 16:16:01	11020727-29A	SAMP	1.0	6020_W_ALL	✓		MW-A
11020727-30A	02/24/11 16:18:41	11020727-30A	SAMP	1.0	6020_W_ALL	✓		DW-1
11020727-31A	02/24/11 16:21:22	11020727-31A	SAMP	1.0	6020_W_ALL	✓		MW-1
11020727-32A	02/24/11 16:24:03	11020727-32A	SAMP	1.0	6020_W_ALL	✓		BA-03A
11020727-34A	02/24/11 16:26:44	11020727-34A	SAMP	1.0	6020_W_ALL	✓		MW-2
11020727-35A	02/24/11 16:29:24	11020727-35A	SAMP	1.0	6020_W_ALL	✓		Duplicate #4
11020727-22A	02/24/11 16:39:50	11020727-22A	SAMP	5.0	6020_W_ALL	✓		BA-01
QC STD 4	02/24/11 17:13:26	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/24/11 19:37:07	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/24/11 19:40:54	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/24/11 19:43:34	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
716								

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 03/07/2011 14:49:20

110226150 9ms
2-26-11
RD

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
CAL BLANK	02/26/11 15:14:48	Cal Blank	SAMP	3.0	6020_W_ALL			06120-94-03
STD 1	02/26/11 15:17:28	Std 1	SAMP	3.0	6020_W_ALL			06119-210-07
STD 2	02/26/11 15:20:09	Std 2	SAMP	3.0	6020_W_ALL			-211-07
STD 3	02/26/11 15:22:50	Std 3	SAMP	3.0	6020_W_ALL			-212-07
STD 4	02/26/11 15:25:31	Std 4	SAMP	3.0	6020_W_ALL			-213-07
STD 5	02/26/11 15:28:11	Std 5	SAMP	3.0	6020_W_ALL			-214-07
QC STD 1	02/26/11 15:30:52	ICV	ICV	1.0	6020_W_ALL	✓		-216-07
QC STD 3	02/26/11 15:33:49	ICB	ICB	1.0	6020_W_ALL	✓		06120-94-03
ICSA	02/26/11 15:38:41	ICSA	ICSA	1.0	6020_W_ALL	✓		06119-204-11
ICSAB	02/26/11 15:41:22	ICSAB	ICSAB	1.0	6020_W_ALL	✓		-205-11
11020727-23A	02/26/11 15:54:33	11020727-23A	SAMP	5.0	6020_W_ALL	✓		DW-3
11020727-25A	02/26/11 15:57:14	11020727-25A	SAMP	5.0	6020_W_ALL	✓		DW-2
11020727-25A	02/26/11 15:59:54	11020727-25A	SAMP	25	6020_W_ALL	✓		
11020727-26A	02/26/11 16:02:35	11020727-26A	SAMP	5.0	6020_W_ALL	✓		Duplicate #3
11020727-26A	02/26/11 16:05:16	11020727-26A	SAMP	25	6020_W_ALL	✓		
11020727-27A	02/26/11 16:07:57	11020727-27A	SAMP	1.0	6020_W_ALL	✓		BA-05A
11020727-28A	02/26/11 16:10:38	11020727-28A	SAMP	1.0	6020_W_ALL	✓		BA-05
11020727-28A	02/26/11 16:13:19	11020727-28A	SAMP	5.0	6020_W_ALL	✓		
QC STD 4	02/26/11 16:21:04	CCV	CCV	1.0	6020_W_ALL	✓		06119-215-07
QC STD 6	02/26/11 16:26:51	CCB	CCB	1.0	6020_W_ALL	✓		06120-94-03
11020727-29A	02/26/11 16:34:11	11020727-29A	SAMP	1.0	6020_W_ALL	✓		MW-A
11020727-30A	02/26/11 16:36:51	11020727-30A	SAMP	1.0	6020_W_ALL	✓		DW-1
11020727-31A	02/26/11 16:39:33	11020727-31A	SAMP	5.0	6020_W_ALL	✓		MW-1
11020727-31A	02/26/11 16:42:14	11020727-31A	SAMP	25	6020_W_ALL	✓		
11020727-32A	02/26/11 16:44:55	11020727-32A	SAMP	1.0	6020_W_ALL	✓		BA-03A
11020727-34A	02/26/11 16:47:36	11020727-34A	SAMP	1.0	6020_W_ALL	✓		MW-2
11020727-35A	02/26/11 16:50:17	11020727-35A	SAMP	1.0	6020_W_ALL	✓		Duplicate #4
QC STD 4	02/26/11 16:53:57	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/26/11 16:57:05	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/26/11 17:05:09	ICSA	ICSA	1.0	6020_W_ALL	✓		

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 03/07/2011 15:09:16

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
ICSAB	02/26/11 17:07:49	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
MBLK-98300	02/26/11 17:10:32	MBLK-98300	MBLK	5.0	6020_S_ALL	✓		
LCS-98300	02/26/11 17:13:12	LCS-98300	LCS	10	6020_S_ALL	✓		
11020968-01A	02/26/11 17:15:53	11020968-01A	SAMP	5.0	6020_S_ALL	✓		
11020968-01ASD	02/26/11 17:18:34	11020968-01ASD	SD	25	6020_S_ALL	✓		
11020968-01AMS	02/26/11 17:21:14	11020968-01AMS	MS	5.0	6020_S_ALL	✓		
11020968-01AMS	02/26/11 17:23:55	11020968-01AMSD	MSD	5.0	6020_S_ALL	✓		
11020968-01APDS	02/26/11 17:26:36	11020968-01APDS	PDS	25	6020_S_ALL	✓		
11020968-01APDS	02/26/11 17:29:17	11020968-01APDSD	PDSD	25	6020_S_ALL	✓		
QC STD 4	02/26/11 17:32:00	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/26/11 17:34:41	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/26/11 17:37:22	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/26/11 17:40:03	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
MBLK-98298	02/26/11 17:42:46	MBLK-98298	MBLK	1.0	6020_TCLP_ALL	✓		
LCS-98298	02/26/11 17:45:27	LCS-98298	LCS	1.0	6020_TCLP_ALL	✓		
11020849-01A	02/26/11 17:48:07	11020849-01A	SAMP	1.0	6020_TCLP_ALL	✓		
11020849-01ASD	02/26/11 17:50:48	11020849-01ASD	SD	5.0	6020_TCLP_ALL	✓		
11020849-01AMS	02/26/11 17:53:29	11020849-01AMS	MS	1.0	6020_TCLP_ALL	✓		
11020849-01APDS	02/26/11 17:56:09	11020849-01APDS	PDS	5.0	6020_TCLP_ALL	✓		
11020849-01ADU	02/26/11 17:58:50	11020849-01ADUP	DUP	1.0	6020_TCLP_ALL	✓		
QC STD 4	02/26/11 18:01:32	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/26/11 18:04:13	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/26/11 18:06:54	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/26/11 18:09:35	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
MBLK-98292	02/26/11 18:12:17	MBLK-98292	MBLK	1.0	6020_W_ALL	✓		
LCS-98292	02/26/11 18:14:58	LCS-98292	LCS	1.0	6020_W_ALL	✓		
11020947-02A	02/26/11 18:17:38	11020947-02A	SAMP	1.0	6020_W_ALL	✓		
11020947-02ASD	02/26/11 18:20:19	11020947-02ASD	SD	5.0	6020_W_ALL	✓		
11020947-02AMS	02/26/11 18:23:00	11020947-02AMS	MS	1.0	6020_W_ALL	✓		
11020947-02AMS	02/26/11 18:25:41	11020947-02AMSD	MSD	1.0	6020_W_ALL	✓		

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 03/07/2011 15:09:16

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
11020947-02APDS	02/26/11 18:28:22	11020947-02APDS	PDS	5.0	6020_W_ALL	✓		
11020947-02APDS	02/26/11 18:31:03	11020947-02APDSD	PDSD	5.0	6020_W_ALL	✓		
QC STD 4	02/26/11 18:33:44	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/26/11 18:36:25	CCB	CCB	1.0	6020_W_ALL	✓		
11020947-03B	02/26/11 18:39:07	11020947-03B	SAMP	1.0	6020_W_ALL	✓		
11020947-04B	02/26/11 18:41:48	11020947-04B	SAMP	1.0	6020_W_ALL	✓		
QC STD 4	02/26/11 18:44:31	CCV	CCV	1.0	200.8	✓		
QC STD 6	02/26/11 18:47:12	CCB	CCB	1.0	200.8	✓		
ICSA	02/26/11 18:49:53	ICSA	ICSA	1.0	200.8	✓		
ICSAB	02/26/11 18:52:34	ICSAB	ICSAB	1.0	200.8	✓		
MBLK-98245	02/26/11 18:55:17	MBLK-98245	MBLK	1.0	200.8	✓		
LCS-98245	02/26/11 18:57:58	LCS-98245	LCS	1.0	200.8	✓		
11020861-01E	02/26/11 19:00:39	11020861-01E	SAMP	1.0	200.8	✓		
11020861-01ESD	02/26/11 19:03:20	11020861-01ESD	SD	5.0	200.8	✓		
11020861-01EMS	02/26/11 19:06:01	11020861-01EMS	MS	1.0	200.8	✓		
11020861-01EMS	02/26/11 19:08:41	11020861-01EMSD	MSD	1.0	200.8	✓		
11020861-01EPDS	02/26/11 19:11:23	11020861-01EPDS	PDS	5.0	200.8	✓		
11020861-01EPDS	02/26/11 19:14:04	11020861-01EPDSD	PDSD	5.0	200.8	✓		
QC STD 4	02/26/11 19:16:47	CCV	CCV	1.0	200.8	✓		
QC STD 6	02/26/11 19:19:28	CCB	CCB	1.0	200.8	✓		
11010271-01C	02/26/11 19:22:11	11010271-01C	SAMP	50	6020_W_ALL			
QC STD 4	02/26/11 19:24:54	CCV	CCV	1.0	200.8	✓		
QC STD 6	02/26/11 19:27:35	CCB	CCB	1.0	200.8	✓		
ICSA	02/26/11 19:30:15	ICSA	ICSA	1.0	200.8	✓		
ICSAB	02/26/11 19:32:56	ICSAB	ICSAB	1.0	200.8	✓		
MBLK-98291	02/26/11 19:35:39	MBLK-98291	MBLK	1.0	200.8	✓		
LCS-98291	02/26/11 19:38:20	LCS-98291	LCS	1.0	200.8	✓		
11020961-01A	02/26/11 19:41:01	11020961-01A	SAMP	1.0	200.8	✓		
11020961-01ASD	02/26/11 19:43:42	11020961-01ASD	SD	5.0	200.8	✓		
11020961-01AMS	02/26/11 19:46:23	11020961-01AMS	MS	1.0	200.8	✓		

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 03/07/2011 15:09:16

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
11020961-01AMS	02/26/11 19:49:03	11020961-01AMSD	MSD	1.0	200.8	✓		
11020961-01APDS	02/26/11 19:51:44	11020961-01APDS	PDS	5.0	200.8	✓		
11020961-01APDS	02/26/11 19:54:25	11020961-01APDSD	PDSD	5.0	200.8	✓		
QC STD 4	02/26/11 19:57:07	CCV	CCV	1.0	200.8	✓		
QC STD 6	02/26/11 19:59:48	CCB	CCB	1.0	200.8	✓		
11020932-01A	02/26/11 20:02:31	11020932-01A	SAMP	1.0	200.8	✓		
11020932-02A	02/26/11 20:05:11	11020932-02A	SAMP	1.0	200.8	✓		
11020933-01E	02/26/11 20:07:52	11020933-01E	SAMP	1.0	200.8	✓		
11020967-01D	02/26/11 20:10:33	11020967-01D	SAMP	2.0	200.8	✓		
QC STD 4	02/26/11 20:13:16	CCV	CCV	1.0	200.8	✓		
QC STD 6	02/26/11 20:15:56	CCB	CCB	1.0	200.8	✓		
ICSA	02/26/11 20:18:37	ICSA	ICSA	1.0	200.8	✓		
ICSAB	02/26/11 20:21:18	ICSAB	ICSAB	1.0	200.8	✓		
MBLK-98290	02/26/11 20:24:00	MBLK-98290	MBLK	1.0	6020_W_ALL			
LCS-98290	02/26/11 20:26:41	LCS-98290	LCS	1.0	6020_W_ALL			
11020953-01A	02/26/11 20:29:22	11020953-01A	SAMP	1.0	6020_W_ALL			
11020953-01ASD	02/26/11 20:32:03	11020953-01ASD	SD	5.0	6020_W_ALL			
11020953-01AMS	02/26/11 20:34:44	11020953-01AMS	MS	1.0	6020_W_ALL			
11020953-01AMS	02/26/11 20:37:25	11020953-01AMSD	MSD	1.0	6020_W_ALL			
11020953-01APDS	02/26/11 20:40:06	11020953-01APDS	PDS	5.0	6020_W_ALL			
11020953-01APDS	02/26/11 20:42:47	11020953-01APDSD	PDSD	5.0	6020_W_ALL			
QC STD 4	02/26/11 20:45:29	CCV	CCV	1.0	6020_W_ALL			
QC STD 6	02/26/11 20:48:10	CCB	CCB	1.0	6020_W_ALL			
11020953-02A	02/26/11 20:50:53	11020953-02A	SAMP	1.0	6020_W_ALL			
11020953-03A	02/26/11 20:53:34	11020953-03A	SAMP	1.0	6020_W_ALL			
11020953-04A	02/26/11 20:56:15	11020953-04A	SAMP	1.0	6020_W_ALL			
11020953-05A	02/26/11 20:58:56	11020953-05A	SAMP	1.0	6020_W_ALL			
11020953-06A	02/26/11 21:01:37	11020953-06A	SAMP	1.0	6020_W_ALL			
11020953-07A	02/26/11 21:04:18	11020953-07A	SAMP	1.0	6020_W_ALL			
11020953-08A	02/26/11 21:06:59	11020953-08A	SAMP	1.0	6020_W_ALL			

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 03/07/2011 15:09:16

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
11020953-09A	02/26/11 21:09:40	11020953-09A	SAMP	1.0	6020_W_ALL			
11020953-10A	02/26/11 21:12:21	11020953-10A	SAMP	1.0	6020_W_ALL			
QC STD 4	02/26/11 21:15:03	CCV	CCV	1.0	6020_W_ALL			
QC STD 6	02/26/11 21:17:44	CCB	CCB	1.0	6020_W_ALL			
ICSA	02/26/11 21:20:25	ICSA	ICSA	1.0	6020_W_ALL			
ICSAB	02/26/11 21:23:06	ICSAB	ICSAB	1.0	6020_W_ALL			

721

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 03/07/2011 15:09:16

110303015bms
3-3-11
RD

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
CAL BLANK	03/03/11 02:03:49	Cal Blank	SAMP	3.0	6020_W_ALL			06120-94-05
STD 1	03/03/11 02:06:29	Std 1	SAMP	3.0	6020_W_ALL			06119-210-08
STD 2	03/03/11 02:09:10	Std 2	SAMP	3.0	6020_W_ALL			~~210~~ -211-08
STD 3	03/03/11 02:11:51	Std 3	SAMP	3.0	6020_W_ALL			-212-08
STD 4	03/03/11 02:14:32	Std 4	SAMP	3.0	6020_W_ALL			-213-08
STD 5	03/03/11 02:17:12	Std 5	SAMP	3.0	6020_W_ALL			-214-08
QC STD 1	03/03/11 02:19:53	ICV	ICV	1.0	6020_W_ALL	✓		-216-08
QC STD 3	03/03/11 02:22:34	ICB	ICB	1.0	6020_W_ALL	✓		06120-94-05
ICSA	03/03/11 02:25:14	ICSA	ICSA	1.0	6020_W_ALL	✓		06119-204-12
ICSAB	03/03/11 02:27:55	ICSAB	ICSAB	1.0	6020_W_ALL	✓		-205-12
MBLK-98367	03/03/11 02:30:37	MBLK-98367	MBLK	1.0	6020_D	✓		
LCS-98367	03/03/11 02:33:18	LCS-98367	LCS	1.0	6020_D	✓		
11021075-07B	03/03/11 02:35:59	11021075-07B	SAMP	1.0	6020_D	✓		
11021075-07BSD	03/03/11 02:38:39	11021075-07BSD	SD	5.0	6020_D	✓		
11021075-07BMS	03/03/11 02:41:20	11021075-07BMS	MS	1.0	6020_D	✓		
11021075-07BMS	03/03/11 02:44:01	11021075-07BMSD	MSD	1.0	6020_D	✓		
11021075-07BPDS	03/03/11 02:46:41	11021075-07BPDS	PDS	5.0	6020_D	✓		
11021075-07BPDS	03/03/11 02:49:22	11021075-07BPDSD	PDSD	5.0	6020_D	✓		
QC STD 4	03/03/11 02:52:04	CCV	CCV	1.0	6020_W_ALL	✓		06119-215-08
QC STD 6	03/03/11 02:54:45	CCB	CCB	1.0	6020_W_ALL	✓		06120-94-05
11021075-01B	03/03/11 02:57:26	11021075-01B	SAMP	1.0	6020_D	✓		
11021075-02B	03/03/11 03:00:07	11021075-02B	SAMP	1.0	6020_D	✓		
11021075-03B	03/03/11 03:02:48	11021075-03B	SAMP	1.0	6020_D	✓		
11021075-04B	03/03/11 03:05:29	11021075-04B	SAMP	1.0	6020_D	✓		
11021075-05B	03/03/11 03:08:10	11021075-05B	SAMP	1.0	6020_D	✓		
11021075-06B	03/03/11 03:10:51	11021075-06B	SAMP	1.0	6020_D	✓		
11021075-08B	03/03/11 03:13:31	11021075-08B	SAMP	1.0	6020_D	✓		
11021075-09B	03/03/11 03:16:12	11021075-09B	SAMP	1.0	6020_D	✓		
11021075-10B	03/03/11 03:18:53	11021075-10B	SAMP	1.0	6020_D	✓		
QC STD 4	03/03/11 03:21:35	CCV	CCV	1.0	6020_W_ALL	✓		

722

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 03/07/2011 15:13:19

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
QC STD 6	03/03/11 03:24:16	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	03/03/11 03:26:57	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	03/03/11 03:29:38	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
MBLK-98428	03/03/11 03:32:20	MBLK-98428	MBLK	5.0	6020_S_ALL	✓		
LCS-98428	03/03/11 03:35:01	LCS-98428	LCS	10	6020_S_ALL	✓		
11021095-01C	03/03/11 03:37:41	11021095-01C	SAMP	5.0	6020_S_ALL	✓		
11021095-01CSD	03/03/11 03:40:22	11021095-01CSD	SD	25	6020_S_ALL	✓		
11021095-01CMS	03/03/11 03:43:03	11021095-01CMS	MS	5.0	6020_S_ALL	✓		
11021095-01CMS	03/03/11 03:45:43	11021095-01CMSD	MSD	5.0	6020_S_ALL	✓		
11021095-01CPDS	03/03/11 03:48:24	11021095-01CPDS	PDS	25	6020_S_ALL	✓		
11021095-01CPDS	03/03/11 03:51:05	11021095-01CPDSD	PDSD	25	6020_S_ALL	✓		
QC STD 4	03/03/11 03:53:46	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	03/03/11 03:56:26	CCB	CCB	1.0	6020_W_ALL	✓		
11021095-02C	03/03/11 03:59:08	11021095-02C	SAMP	5.0	6020_S_ALL	✓		
11021095-03C	03/03/11 04:01:48	11021095-03C	SAMP	5.0	6020_S_ALL	✓		
11021095-04C	03/03/11 04:04:29	11021095-04C	SAMP	5.0	6020_S_ALL	✓		
11021096-01C	03/03/11 04:07:10	11021096-01C	SAMP	5.0	6020_S_ALL	✓		
11021096-02C	03/03/11 04:09:51	11021096-02C	SAMP	5.0	6020_S_ALL	✓		
11021096-03C	03/03/11 04:12:31	11021096-03C	SAMP	5.0	6020_S_ALL	✓		
11021096-04C	03/03/11 04:15:12	11021096-04C	SAMP	5.0	6020_S_ALL	✓		
11021096-05C	03/03/11 04:17:52	11021096-05C	SAMP	5.0	6020_S_ALL	✓		
QC STD 4	03/03/11 04:20:34	CCV	CCV	1.0	200.8	✓		
QC STD 6	03/03/11 04:23:15	CCB	CCB	1.0	200.8	✓		
ICSA	03/03/11 04:25:56	ICSA	ICSA	1.0	200.8	✓		
ICSAB	03/03/11 04:28:38	ICSAB	ICSAB	1.0	200.8	✓		
MBLK-98422	03/03/11 04:31:21	MBLK-98422	MBLK	1.0	200.8	✓		
LCS-98422	03/03/11 04:34:01	LCS-98422	LCS	1.0	200.8	✓		
11021089-01A	03/03/11 04:36:42	11021089-01A	SAMP	1.0	200.8	✓		
11021089-01ASD	03/03/11 04:39:23	11021089-01ASD	SD	5.0	200.8	✓		
11021089-01AMS	03/03/11 04:42:04	11021089-01AMS	MS	1.0	200.8	✓		

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 03/07/2011 15:13:19

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
11021089-01AMS	03/03/11 04:44:44	11021089-01AMSD	MSD	1.0	200.8	✓		
11021089-01APDS	03/03/11 04:47:25	11021089-01APDS	PDS	5.0	200.8	✓		
11021089-01APDS	03/03/11 04:50:05	11021089-01APDSD	PDSD	5.0	200.8	✓		
QC STD 4	03/03/11 04:52:48	CCV	CCV	1.0	200.8	✓		
QC STD 6	03/03/11 04:55:29	CCB	CCB	1.0	200.8	✓		
11021090-01A	03/03/11 04:58:11	11021090-01A	SAMP	1.0	200.8	✓		
11021091-01A	03/03/11 05:00:52	11021091-01A	SAMP	1.0	200.8	✓		
11021092-01A	03/03/11 05:03:32	11021092-01A	SAMP	1.0	200.8	✓		
11030007-01C	03/03/11 05:06:13	11030007-01C	SAMP	1.0	200.8	✓		
QC STD 4	03/03/11 05:08:56	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	03/03/11 05:11:36	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	03/03/11 05:14:18	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	03/03/11 05:16:58	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
MBLK-98257	03/03/11 05:19:40	MBLK-98257	MBLK	1.0	6020_D	✓		
LCS-98257	03/03/11 05:22:21	LCS-98257	LCS	1.0	6020_D	✓		
11020727-03B	03/03/11 05:25:02	11020727-03B	SAMP	1.0	6020_D	✓		MW-4
11020727-03BSD	03/03/11 05:27:43	11020727-03BSD	SD	5.0	6020_D	✓		
11020727-03BMS	03/03/11 05:30:24	11020727-03BMS	MS	1.0	6020_D	✓		
11020727-03BMS	03/03/11 05:33:04	11020727-03BMSD	MSD	1.0	6020_D	✓		
11020727-03BPDS	03/03/11 05:35:45	11020727-03BPDS	PDS	5.0	6020_D	✓		
11020727-03BPDS	03/03/11 05:38:26	11020727-03BPDSD	PDSD	5.0	6020_D	✓		
QC STD 4	03/03/11 05:41:08	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	03/03/11 05:43:49	CCB	CCB	1.0	6020_W_ALL	✓		
11020727-22B	03/03/11 05:46:31	11020727-22B	SAMP	1.0	6020_D	✓		BA-01
11020727-32B	03/03/11 05:49:12	11020727-32B	SAMP	1.0	6020_D	✓		BA-03A
QC STD 4	03/03/11 05:51:54	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	03/03/11 05:54:35	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	03/03/11 05:57:16	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	03/03/11 05:59:57	ICSAB	ICSAB	1.0	6020_W_ALL	✓		

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DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 03/07/2011 15:13:19

11030312 40MS
3-3-11
RD

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
CAL BLANK	03/03/11 12:43:18	Cal Blank	SAMP	3.0	6020_W_ALL			06120-94-05
STD 1	03/03/11 12:45:59	Std 1	SAMP	3.0	6020_W_ALL			06119-210-08
STD 2	03/03/11 12:48:40	Std 2	SAMP	3.0	6020_W_ALL			-211-08
STD 3	03/03/11 12:51:21	Std 3	SAMP	3.0	6020_W_ALL			-212-08
STD 4	03/03/11 12:54:02	Std 4	SAMP	3.0	6020_W_ALL			-213-08
STD 5	03/03/11 12:56:42	Std 5	SAMP	3.0	6020_W_ALL			-214-08
QC STD 1	03/03/11 12:59:23	ICV	ICV	1.0	6020_W_ALL	✓		-216-08
QC STD 2	03/03/11 13:05:01	LLICV	ICV1	1.0	6020_W_ALL			-219-05
QC STD 3	03/03/11 13:07:51	ICB	ICB	1.0	6020_W_ALL	✓		06120-94-05
QC STD 4	03/03/11 13:11:02	CCV	CCV	1.0	6020_W_ALL			06119-215-08
QC STD 5	03/03/11 13:16:11	LLCCV	CCV1	1.0	6020_W_ALL			-219-05
QC STD 6	03/03/11 13:19:04	CCB	CCB	1.0	6020_W_ALL			06120-94-05
ICSA	03/03/11 13:26:20	ICSA	ICSA	1.0	6020_W_ALL	✓		06119-204-12
ICSAB	03/03/11 13:29:01	ICSAB	ICSAB	1.0	6020_W_ALL	✓		-205-12
MBLK-98257	03/03/11 13:37:43	MBLK-98257	MBLK	1.0	6020_D	✓		
LCS-98257	03/03/11 13:40:34	LCS-98257	LCS	1.0	6020_D	✓		
11020727-03B	03/03/11 13:44:04	11020727-03B	SAMP	1.0	6020_D	✓		MW-4
11020727-03BSD	03/03/11 13:46:44	11020727-03BSD	SD	5.0	6020_D	✓		
11020727-03BMS	03/03/11 13:49:25	11020727-03BMS	MS	1.0	6020_D	✓		
11020727-03BMS	03/03/11 13:52:06	11020727-03BMSD	MSD	1.0	6020_D	✓		
11020727-03BPDS	03/03/11 13:54:47	11020727-03BPDS	PDS	5.0	6020_D	✓		
11020727-03BPDS	03/03/11 13:57:27	11020727-03BPDSD	PDSD	5.0	6020_D	✓		
QC STD 4	03/03/11 14:00:24	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	03/03/11 14:03:30	CCB	CCB	1.0	6020_W_ALL	✓		
11020727-22B	03/03/11 14:06:39	11020727-22B	SAMP	1.0	6020_D	✓		BA-01
11020727-22B	03/03/11 14:09:32	11020727-22B	SAMP	5.0	6020_D	✓		
11020727-32B	03/03/11 14:12:13	11020727-32B	SAMP	1.0	6020_D	✓		BA-03A
QC STD 4	03/03/11 14:17:02	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	03/03/11 14:20:09	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	03/03/11 14:23:21	ICSA	ICSA	1.0	6020_W_ALL	✓		

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DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 03/07/2011 15:14:07

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
ICSAB	03/03/11 14:26:02	ICSAB	ICSAB	1.0	6020_W_ALL	✓		

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DF = Dilution Factor, Rpt = Reported

Runlog generated by: _____

Runlog reviewed by: _____

Printed: 03/07/2011 15:14:07

METALS CLP-LIKE FORMS

COVER PAGE - INORGANICS DATA PACKAGE

Lab Name: SPL Inc.

Lab Code: SPLLAF

SDG: 11020727

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Matrix
BA-01	11020727-22	2/15/11 11:21	2/18/11 17:10	Water
BA-05	11020727-28	2/16/11 9:37	2/18/11 17:10	Water
BA-09	11020727-02	2/14/11 10:01	2/18/11 17:10	Water
DW-3	11020727-23	2/15/11 13:04	2/18/11 17:10	Water
MW-6	11020727-14	2/14/11 14:53	2/18/11 17:10	Water

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

Signature: Keran Lafleur

Date: 3/10/11

Name: Keran Lafleur

Title: Metals Supervisor

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BA-09

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	11020727-02A
		Date Received:	2/18/2011 5:10:00PM
Matrix:	Water	Total/Dissolved:	Total
Level:	LOW	Prep Method:	STND
% Moisture:	0		

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	5	0.0268	J	0.00985	0.1		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
MW-6

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	11020727-14A
Matrix:	Water	Date Received:	2/18/2011 5:10:00PM
Level:	LOW	Total/Dissolved:	Total
% Moisture:	0	Prep Method:	STND

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00241	J	0.00197	0.02		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BA-01

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	11020727-22A
		Date Received:	2/18/2011 5:10:00PM
Matrix:	Water	Total/Dissolved:	Total
Level:	LOW	Prep Method:	STND
% Moisture:	0		

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00241	J	0.00197	0.02		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
DW-3

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	11020727-23A
Matrix:	Water	Date Received:	2/18/2011 5:10:00PM
Level:	LOW	Total/Dissolved:	Total
% Moisture:	0	Prep Method:	STND

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.0139	J	0.00197	0.02		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BA-05

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	11020727-28A
		Date Received:	2/18/2011 5:10:00PM
Matrix:	Water	Total/Dissolved:	Total
Level:	LOW	Prep Method:	STND
% Moisture:	0		

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.0162	J	0.00197	0.02		P	mg/L

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/6/11 14:19	Sample Type:	CCV
RunID:	ICP7300DV_110306D-3962822	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	484.4	96.9	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/6/11 20:55	Sample Type:	CCV
RunID:	ICP7300DV_110306D-3962856	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	503.0	100.6	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/6/11 21:20	Sample Type:	CCV
RunID:	ICP7300DV_110306D-3962866	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	502.5	100.5	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/6/11 21:32	Sample Type:	CCV
RunID:	ICP7300DV_110306D-3962871	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	521.4	104.3	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/6/11 21:56	Sample Type:	CCV
RunID:	ICP7300DV_110306D-3962881	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	515.2	103.0	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/6/11 22:16	Sample Type:	CCV
RunID:	ICP7300DV_110306D-3962888	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	508.2	101.6	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/7/11 10:46	Sample Type:	CCV
RunID:	ICP7300DV_110307A-3963186	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	511.4	102.3	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/7/11 11:41	Sample Type:	CCV
RunID:	ICP7300DV_110307A-3963206	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	514.5	102.9	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/7/11 12:00	Sample Type:	CCV
RunID:	ICP7300DV_110307A-3963215	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	510.7	102.1	P	90	110

INITIAL CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	ICV
Analysis	3/6/11 14:12	Sample Type:	ICV
RunID:	ICP7300DV_110306D-3962820	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	High
Arsenic	1000	1085	108.5	P	90	110

INITIAL CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	ICV
Analysis	3/7/11 10:40	Sample Type:	ICV
RunID:	ICP7300DV_110307A-3963184	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	High
Arsenic	1000	1092	109.2	P	90	110

INITIAL CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	ICB
Matrix:	Water		
Analysis Date:	3/6/11 14:17		
Run ID:	ICP7300DV_110306D-3962821		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.9	J	2.0	20	P	ug/L

INITIAL CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	ICB
Matrix:	Water		
Analysis Date:	3/7/11 10:44		
Run ID:	ICP7300DV_110307A-3963185		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.0	U	2.0	20	P	ug/L

METHOD BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	MBLK-98096
Matrix:	Water	Total/Dissolved:	Total
Analysis Date:	3/6/11 21:08		
Run ID:	ICP7300DV_110306D-3962860		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	0.00197	U	0.00197	0.02	P	mg/L

METHOD BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	MBLK-98097
Matrix:	Water	Total/Dissolved:	Total
Analysis Date:	3/6/11 21:45		
Run ID:	ICP7300DV_110306D-3962875		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	0.00271	J	0.00197	0.02	P	mg/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	3/6/11 14:23		
Run ID:	ICP7300DV_110306D-3962823		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.0	U	2.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	3/6/11 20:57		
Run ID:	ICP7300DV_110306D-3962857		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.0	U	2.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	3/6/11 21:22		
Run ID:	ICP7300DV_110306D-3962867		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.0	U	2.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	3/6/11 21:34		
Run ID:	ICP7300DV_110306D-3962872		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.0	U	2.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	3/6/11 21:59		
Run ID:	ICP7300DV_110306D-3962882		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.0	U	2.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 11020727

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 3/6/11 22:18

Run ID: ICP7300DV_110306D-3962889

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.0	U	2.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	3/7/11 10:50		
Run ID:	ICP7300DV_110307A-3963187		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.0	U	2.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	3/7/11 11:43		
Run ID:	ICP7300DV_110307A-3963207		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.0	U	2.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	3/7/11 12:02		
Run ID:	ICP7300DV_110307A-3963216		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.0	U	2.0	20	P	ug/L

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICP7300DV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/06/2011 14:25			03/06/2011 14:27				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	519773	104		523531	104.7		80-120	80-120
Antimony	0	10000	7.20116	0		9787.7	97.88		-	80-120
Arsenic	0	10000	24.3	0		10101.5	101		-	80-120
Barium	0	3000	8.97629	0		2886.4	96.21		-	80-120
Beryllium	0	1000	0	0		1013.1	101.3		-	80-120
Boron	0	5000	0	0		5024.3	100.5		-	80-120
Cadmium	0	3000	0	0		3039.9	101.3		-	80-120
Calcium	500000	500000	510063	102		512607	102.5		80-120	80-120
Chromium	0	3000	0	0		2806.3	93.54		-	80-120
Cobalt	0	3000	3.80518	0		2723.6	90.79		-	80-120
Copper	0	3000	0	0		3037	101.2		-	80-120
Iron	500000	500000	485047	97.01		490472	98.09		80-120	80-120
Lead	0	10000	5.58982	0		9276.6	92.77		-	80-120
Magnesium	500000	500000	447475	89.5		445052	89.01		80-120	80-120
Manganese	0	2000	8.79129	0		1913.8	95.69		-	80-120
Molybdenum	0	3000	0	0		2916.1	97.2		-	80-120
Nickel	0	3000	0	0		2690.2	89.68		-	80-120
Potassium	0	200000	0	0		215895	107.9		-	80-120
Selenium	0	5000	0	0		4885.1	97.7		-	80-120
Silver	0	3000	4.88889	0		3448.9	115		-	80-120
Sodium	0	50000	0	0		51289.2	102.6		-	80-120
Strontium	0	500	1.37755	0		519	103.8		-	80-120
Thallium	0	10000	0	0		9168.1	91.68		-	80-120
Tin	0	500	0	0		459.8	91.96		-	80-120
Titanium	0	10000	0	0		9589.3	95.89		-	80-120
Vanadium	0	3000	0	0		2963.7	98.79		-	80-120
Zinc	0	3000	17.3091	0		2665.5	88.85		-	80-120

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICP7300DV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/06/2011 20:59			03/06/2011 21:01				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	544016	108.8		532624	106.5		80-120	80-120
Antimony	0	10000	22.2	0		9893	98.93		-	80-120
Arsenic	0	10000	33.4	0		10321.9	103.2		-	80-120
Barium	0	3000	8.7444	0		2981.4	99.38		-	80-120
Beryllium	0	1000	0	0		1041.1	104.1		-	80-120
Boron	0	5000	0	0		5187.2	103.7		-	80-120
Cadmium	0	3000	0	0		3107.1	103.6		-	80-120
Calcium	500000	500000	553514	110.7		541999	108.4		80-120	80-120
Chromium	0	3000	0	0		2893.2	96.44		-	80-120
Cobalt	0	3000	3.94733	0		2794.4	93.15		-	80-120
Copper	0	3000	0	0		3066.7	102.2		-	80-120
Iron	500000	500000	525773	105.2		515716	103.1		80-120	80-120
Lead	0	10000	9.46156	0		9591.8	95.92		-	80-120
Magnesium	500000	500000	462573	92.52		451330	90.27		80-120	80-120
Manganese	0	2000	8.77833	0		1947.9	97.39		-	80-120
Molybdenum	0	3000	0	0		2877.3	95.91		-	80-120
Nickel	0	3000	0	0		2753.6	91.79		-	80-120
Potassium	0	200000	0	0		222071	111		-	80-120
Selenium	0	5000	23.8	0		5083.8	101.7		-	80-120
Silver	0	3000	3.20356	0		3301.5	110.1		-	80-120
Sodium	0	50000	0	0		52088.2	104.2		-	80-120
Strontium	0	500	1.35287	0		532.3	106.5		-	80-120
Thallium	0	10000	0	0		9049.2	90.49		-	80-120
Tin	0	500	0	0		480.5	96.1		-	80-120
Titanium	0	10000	0	0		10114.6	101.1		-	80-120
Vanadium	0	3000	0	0		3007.8	100.3		-	80-120
Zinc	0	3000	14.7814	0		2767.1	92.24		-	80-120

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICP7300DV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/06/2011 21:36			03/06/2011 21:38				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	525309	105.1		532826	106.6		80-120	80-120
Antimony	0	10000	21.7	0		9754.7	97.55		-	80-120
Arsenic	0	10000	25.9	0		10173	101.7		-	80-120
Barium	0	3000	8.74029	0		2950.7	98.36		-	80-120
Beryllium	0	1000	0	0		1040.7	104.1		-	80-120
Boron	0	5000	0	0		5198.1	104		-	80-120
Cadmium	0	3000	0	0		3111.2	103.7		-	80-120
Calcium	500000	500000	536623	107.3		544616	108.9		80-120	80-120
Chromium	0	3000	0	0		2883.9	96.13		-	80-120
Cobalt	0	3000	4.42226	0		2734.5	91.15		-	80-120
Copper	0	3000	0	0		3076.2	102.5		-	80-120
Iron	500000	500000	507210	101.4		517602	103.5		80-120	80-120
Lead	0	10000	5.37799	0		9425.9	94.26		-	80-120
Magnesium	500000	500000	451145	90.23		450652	90.13		80-120	80-120
Manganese	0	2000	8.61446	0		1936.1	96.8		-	80-120
Molybdenum	0	3000	0	0		2824.5	94.15		-	80-120
Nickel	0	3000	0	0		2721.5	90.72		-	80-120
Potassium	0	200000	116.562	0		221963	111		-	80-120
Selenium	0	5000	21.8	0		5029.3	100.6		-	80-120
Silver	0	3000	3.58755	0		3323.3	110.8		-	80-120
Sodium	0	50000	0	0		52089.7	104.2		-	80-120
Strontium	0	500	1.33935	0		532.5	106.5		-	80-120
Thallium	0	10000	0	0		8881.3	88.81		-	80-120
Tin	0	500	0	0		472.2	94.45		-	80-120
Titanium	0	10000	0	0		9969	99.69		-	80-120
Vanadium	0	3000	0	0		2988.1	99.6		-	80-120
Zinc	0	3000	13.7751	0		2754.2	91.81		-	80-120

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICP7300DV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/06/2011 22:20			03/06/2011 22:22				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	520996	104.2		522776	104.6		80-120	80-120
Antimony	0	10000	0	0		9778.4	97.78		-	80-120
Arsenic	0	10000	25.7	0		10186.5	101.9		-	80-120
Barium	0	3000	8.25377	0		2921.3	97.38		-	80-120
Beryllium	0	1000	0	0		1038.4	103.8		-	80-120
Boron	0	5000	0	0		5206	104.1		-	80-120
Cadmium	0	3000	0	0		3107.3	103.6		-	80-120
Calcium	500000	500000	529153	105.8		532657	106.5		80-120	80-120
Chromium	0	3000	0	0		2875.4	95.85		-	80-120
Cobalt	0	3000	3.56129	0		2748.3	91.61		-	80-120
Copper	0	3000	0	0		3089.6	103		-	80-120
Iron	500000	500000	501331	100.3		508841	101.8		80-120	80-120
Lead	0	10000	0	0		9454.9	94.55		-	80-120
Magnesium	500000	500000	446562	89.31		450608	90.12		80-120	80-120
Manganese	0	2000	8.71509	0		1924.5	96.22		-	80-120
Molybdenum	0	3000	0	0		2833.8	94.46		-	80-120
Nickel	0	3000	0	0		2738.6	91.29		-	80-120
Potassium	0	200000	87.6667	0		215689	107.8		-	80-120
Selenium	0	5000	16.7701	0		5058.2	101.2		-	80-120
Silver	0	3000	4.67107	0		3327.2	110.9		-	80-120
Sodium	0	50000	143.88	0		50975.1	102		-	80-120
Strontium	0	500	1.31326	0		514.9	103		-	80-120
Thallium	0	10000	0	0		8875.9	88.76		-	80-120
Tin	0	500	0	0		476.2	95.24		-	80-120
Titanium	0	10000	0	0		9867.4	98.67		-	80-120
Vanadium	0	3000	0	0		2979.3	99.31		-	80-120
Zinc	0	3000	14.1501	0		2723.4	90.78		-	80-120

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICP7300DV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/07/2011 10:53			03/07/2011 10:54				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	541730	108.3		540874	108.2		80-120	80-120
Antimony	0	10000	4.79215	0		10361.1	103.6		-	80-120
Arsenic	0	10000	29.8	0		10816.9	108.2		-	80-120
Barium	0	3000	6.94393	0		3023.5	100.8		-	80-120
Beryllium	0	1000	0	0		1052.8	105.3		-	80-120
Boron	0	5000	0	0		5324.1	106.5		-	80-120
Cadmium	0	3000	0	0		3121.6	104.1		-	80-120
Calcium	500000	500000	520159	104		517000	103.4		80-120	80-120
Chromium	0	3000	0	0		2938.9	97.96		-	80-120
Cobalt	0	3000	2.44223	0		2811.1	93.7		-	80-120
Copper	0	3000	0	0		3240.2	108		-	80-120
Iron	500000	500000	510044	102		508047	101.6		80-120	80-120
Lead	0	10000	0	0		9815.2	98.15		-	80-120
Magnesium	500000	500000	486404	97.28		485660	97.13		80-120	80-120
Manganese	0	2000	9.59348	0		2000.3	100		-	80-120
Molybdenum	0	3000	0	0		3037.2	101.2		-	80-120
Nickel	0	3000	0	0		2749.9	91.66		-	80-120
Potassium	0	200000	0	0		232366	116.2		-	80-120
Selenium	0	5000	0	0		5382.3	107.6		-	80-120
Silver	0	3000	3.43659	0		3190.6	106.4		-	80-120
Sodium	0	50000	0	0		55023.3	110		-	80-120
Strontium	0	500	0	0		543.1	108.6		-	80-120
Thallium	0	10000	10.6304	0		9539.9	95.4		-	80-120
Tin	0	500	0	0		477	95.4		-	80-120
Titanium	0	10000	0	0		10185.2	101.9		-	80-120
Vanadium	0	3000	0	0		3101.6	103.4		-	80-120
Zinc	0	3000	0	0		2737.3	91.24		-	80-120

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICP7300DV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/07/2011 12:05			03/07/2011 12:06				
	Sol. A	Sol. AB	Sol. A Found	% R	Q	Sol. AB Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	552873	110.6		541458	108.3		80-120	80-120
Antimony	0	10000	16.3227	0		10001.5	100		-	80-120
Arsenic	0	10000	21.3	0		10367.3	103.7		-	80-120
Barium	0	3000	6.64096	0		2911.3	97.04		-	80-120
Beryllium	0	1000	0	0		1029.9	103		-	80-120
Boron	0	5000	0	0		5141	102.8		-	80-120
Cadmium	0	3000	0	0		3045	101.5		-	80-120
Calcium	500000	500000	516116	103.2		512086	102.4		80-120	80-120
Chromium	0	3000	0	0		2848.5	94.95		-	80-120
Cobalt	0	3000	2.76446	0		2724.3	90.81		-	80-120
Copper	0	3000	0	0		3159.7	105.3		-	80-120
Iron	500000	500000	509249	101.8		504654	100.9		80-120	80-120
Lead	0	10000	0	0		9429.9	94.3		-	80-120
Magnesium	500000	500000	494099	98.82		483821	96.76		80-120	80-120
Manganese	0	2000	9.44547	0		1953.1	97.65		-	80-120
Molybdenum	0	3000	0	0		2949.5	98.32		-	80-120
Nickel	0	3000	0	0		2666.8	88.89		-	80-120
Potassium	0	200000	0	0		235097	117.5		-	80-120
Selenium	0	5000	0	0		5128.3	102.6		-	80-120
Silver	0	3000	3.05568	0		3047.8	101.6		-	80-120
Sodium	0	50000	0	0		55889.6	111.8		-	80-120
Strontium	0	500	0	0		549	109.8		-	80-120
Thallium	0	10000	0	0		9232.5	92.32		-	80-120
Tin	0	500	0	0		442.7	88.55		-	80-120
Titanium	0	10000	0	0		9654.7	96.55		-	80-120
Vanadium	0	3000	0	0		3008.7	100.3		-	80-120
Zinc	0	3000	0	0		2612.5	87.08		-	80-120

LABORATORY CONTROL SAMPLE

LCS-98096

Lab Name: SPL Inc.

SDG: 11020727

Lab Code: SPLLAF

Total/Dissolved: Total

Solid LCS Source:

Aqueous LCS Source:

Analyte	M	Aqueous (mg/L) True	Found	%R	Limits	Solid (mg/kg) True	Found	C	%R	Limits
Arsenic	P	0.1	0.1135	113.5	80 - 120					

764

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

LABORATORY CONTROL SAMPLE

LCS-98097

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Total/Dissolved: Total

Solid LCS Source:

Aqueous LCS Source:

Analyte	M	Aqueous (mg/L) True	Found	%R	Limits	Solid (mg/kg) True	Found	C	%R	Limits
Arsenic	P	0.1	0.1144	114.4	80 - 120					

765

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

METHOD DETECTION LIMITS

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF

Instrument ID Number: ICP7300DV Date:

6010_W

Analyte	Wavelength (nm)	Background	PQL mg/L	MDL mg/L	M
Arsenic			0.020	0.0020	P

PREPARATION LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF

Method: SW3010A

Total/Diss.: Total

Lab Sample ID	Client Sample ID	Preparation Date	Initial Weight (gram)	Initial Volume (ml)	Final Volume (ml)
11020727-02A	BA-09	2/21/11	0	50	50
LCS-98096	LCS-98096	2/21/11	0	50	50
MBLK-98096	MBLK-98096	2/21/11	0	50	50
11020727-14A	MW-6	2/21/11	0	50	50

PREPARATION LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF

Method: SW3010A

Total/Diss.: Total

Lab Sample ID	Client Sample ID	Preparation Date	Initial Weight (gram)	Initial Volume (ml)	Final Volume (ml)
11020727-22A	BA-01	2/21/11	0	50	50
11020727-28A	BA-05	2/21/11	0	50	50
11020727-23A	DW-3	2/21/11	0	50	50
LCS-98097	LCS-98097	2/21/11	0	50	50
MBLK-98097	MBLK-98097	2/21/11	0	50	50

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Method: SW6010B

Instrument ID: ICP7300DV Total/Dissolved: Total

Start Date: 3/6/2011 End Date: 3/6/2011

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																																
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn							
ICV	ICV	1	14:12				X																														
ICB	ICB	1	14:17				X																														
CCV	CCV	1	14:19				X																														
CCB	CCB	1	14:23				X																														
ICSA	ICSA	1	14:25		X		X				X				X		X																				
ICSAB	ICSAB	1	14:27		X		X				X				X		X																				
CCV	CCV	1	20:55				X																														
CCB	CCB	1	20:57				X																														
ICSA	ICSA	1	20:59				X																														
ICSAB	ICSAB	1	21:01				X																														
MBLK-98096	MBLK-98096	1	21:08				X																														
LCS-98096	LCS-98096	1	21:10				X																														
11020727-11Z	ZZZZZZ	5	21:12																																		
11020727-11ASD	ZZZZZZ	25	21:14																																		
11020727-11AMS	ZZZZZZ	5	21:16																																		
11020727-11AMSD	ZZZZZZ	5	21:18																																		
CCV	CCV	1	21:20				X																														
CCB	CCB	1	21:22				X																														
11020727-11APDS	ZZZZZZ	25	21:24																																		
11020727-11APDSD	ZZZZZZ	25	21:26																																		
11020727-14A	MW-6	1	21:28				X																														
CCV	CCV	1	21:32				X																														
CCB	CCB	1	21:34				X																														
ICSA	ICSA	1	21:36		X		X				X				X		X																				
ICSAB	ICSAB	1	21:38		X		X				X				X		X																				
MBLK-98097	MBLK-98097	1	21:45				X																														
LCS-98097	LCS-98097	1	21:47				X																														
11020727-33Z	ZZZZZZ	5	21:49																																		
11020727-33ASD	ZZZZZZ	25	21:51																																		
11020727-33AMS	ZZZZZZ	5	21:52																																		
11020727-33AMSD	ZZZZZZ	5	21:54																																		

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Method: SW6010B

Instrument ID: ICP7300DV Total/Dissolved: Total

Start Date: 3/6/2011 End Date: 3/6/2011

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																														
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn					
CCV	CCV	1	21:56		X		X				X				X		X																		
CCB	CCB	1	21:59		X		X				X				X		X																		
11020727-33APDS	ZZZZZZ	25	22:01																																
11020727-33APDSD	ZZZZZZ	25	22:03																																
11020727-22A	BA-01	1	22:05				X																												
11020727-23A	DW-3	1	22:07				X																												
11020727-28A	BA-05	1	22:12				X																												
CCV	CCV	1	22:16				X																												
CCB	CCB	1	22:18				X																												
ICSA	ICSA	1	22:20		X		X				X				X		X																		
ICSAB	ICSAB	1	22:22		X		X				X				X		X																		

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ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Method: SW6010B

Instrument ID: ICP7300DV Total/Dissolved: Total

Start Date: 3/7/2011 End Date: 3/7/2011

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																												
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
ICV	ICV	1	10:40				X																								
ICB	ICB	1	10:44				X																								
CCV	CCV	1	10:46				X																								
CCB	CCB	1	10:50				X																								
ICSA	ICSA	1	10:53		X		X				X				X		X														
ICSAB	ICSAB	1	10:54		X		X				X				X		X														
CCV	CCV	1	11:41				X																								
CCB	CCB	1	11:43				X																								
11020727-02A	BA-09	5	11:52				X																								
CCV	CCV	1	12:00				X																								
CCB	CCB	1	12:02				X																								
ICSA	ICSA	1	12:05		X		X				X				X		X														
ICSAB	ICSAB	1	12:06		X		X				X				X		X														

METALS CLP-LIKE FORMS

COVER PAGE - INORGANICS DATA PACKAGE

Lab Name: SPL Inc.

Lab Code: SPLLAF

SDG: 11020727

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Matrix
BA-01	11020727-22	2/15/11 11:21	2/18/11 17:10	Water

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

Signature: Keran Lafleur

Date: 3/10/11

Name: Keran Lafleur

Title: Metals Supervisor

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BA-01

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	11020727-22B
		Date Received:	2/18/2011 5:10:00PM
Matrix:	Water	Total/Dissolved:	Dissolved
Level:	LOW	Prep Method:	STND
% Moisture:	0		

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00330	J	0.00197	0.02		P	mg/L

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/6/11 14:19	Sample Type:	CCV
RunID:	ICP7300DV_110306D-3962822	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	484.4	96.9	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/6/11 22:16	Sample Type:	CCV
RunID:	ICP7300DV_110306D-3962888	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	508.2	101.6	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/6/11 22:39	Sample Type:	CCV
RunID:	ICP7300DV_110306D-3962898	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	513.5	102.7	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	3/6/11 22:49	Sample Type:	CCV
RunID:	ICP7300DV_110306D-3962903	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	504.4	100.9	P	90	110

INITIAL CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	ICV
Analysis	3/6/11 14:12	Sample Type:	ICV
RunID:	ICP7300DV_110306D-3962820	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	High
Arsenic	1000	1085	108.5	P	90	110

INITIAL CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	ICB
Matrix:	Water		
Analysis Date:	3/6/11 14:17		
Run ID:	ICP7300DV_110306D-3962821		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.9	J	2.0	20	P	ug/L

METHOD BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	MBLK-98257
Matrix:	Water	Total/Dissolved:	Dissolved
Analysis Date:	3/6/11 22:27		
Run ID:	ICP7300DV_110306D-3962892		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	0.00232	J	0.00197	0.02	P	mg/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	3/6/11 14:23		
Run ID:	ICP7300DV_110306D-3962823		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.0	U	2.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	3/6/11 22:18		
Run ID:	ICP7300DV_110306D-3962889		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	2.0	U	2.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	3/6/11 22:41		
Run ID:	ICP7300DV_110306D-3962899		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	3.1	J	2.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	11020727
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	3/6/11 22:51		
Run ID:	ICP7300DV_110306D-3962904		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	4.4	J	2.0	20	P	ug/L

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICP7300DV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/06/2011 14:25			03/06/2011 14:27				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	519773	104		523531	104.7		80-120	80-120
Antimony	0	10000	7.20116	0		9787.7	97.88		-	80-120
Arsenic	0	10000	24.3	0		10101.5	101		-	80-120
Barium	0	3000	8.97629	0		2886.4	96.21		-	80-120
Beryllium	0	1000	0	0		1013.1	101.3		-	80-120
Boron	0	5000	0	0		5024.3	100.5		-	80-120
Cadmium	0	3000	0	0		3039.9	101.3		-	80-120
Calcium	500000	500000	510063	102		512607	102.5		80-120	80-120
Chromium	0	3000	0	0		2806.3	93.54		-	80-120
Cobalt	0	3000	3.80518	0		2723.6	90.79		-	80-120
Copper	0	3000	0	0		3037	101.2		-	80-120
Iron	500000	500000	485047	97.01		490472	98.09		80-120	80-120
Lead	0	10000	5.58982	0		9276.6	92.77		-	80-120
Magnesium	500000	500000	447475	89.5		445052	89.01		80-120	80-120
Manganese	0	2000	8.79129	0		1913.8	95.69		-	80-120
Molybdenum	0	3000	0	0		2916.1	97.2		-	80-120
Nickel	0	3000	0	0		2690.2	89.68		-	80-120
Potassium	0	200000	0	0		215895	107.9		-	80-120
Selenium	0	5000	0	0		4885.1	97.7		-	80-120
Silver	0	3000	4.88889	0		3448.9	115		-	80-120
Sodium	0	50000	0	0		51289.2	102.6		-	80-120
Strontium	0	500	1.37755	0		519	103.8		-	80-120
Thallium	0	10000	0	0		9168.1	91.68		-	80-120
Tin	0	500	0	0		459.8	91.96		-	80-120
Titanium	0	10000	0	0		9589.3	95.89		-	80-120
Vanadium	0	3000	0	0		2963.7	98.79		-	80-120
Zinc	0	3000	17.3091	0		2665.5	88.85		-	80-120

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICP7300DV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/06/2011 22:20			03/06/2011 22:22				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	520996	104.2		522776	104.6		80-120	80-120
Antimony	0	10000	0	0		9778.4	97.78		-	80-120
Arsenic	0	10000	25.7	0		10186.5	101.9		-	80-120
Barium	0	3000	8.25377	0		2921.3	97.38		-	80-120
Beryllium	0	1000	0	0		1038.4	103.8		-	80-120
Boron	0	5000	0	0		5206	104.1		-	80-120
Cadmium	0	3000	0	0		3107.3	103.6		-	80-120
Calcium	500000	500000	529153	105.8		532657	106.5		80-120	80-120
Chromium	0	3000	0	0		2875.4	95.85		-	80-120
Cobalt	0	3000	3.56129	0		2748.3	91.61		-	80-120
Copper	0	3000	0	0		3089.6	103		-	80-120
Iron	500000	500000	501331	100.3		508841	101.8		80-120	80-120
Lead	0	10000	0	0		9454.9	94.55		-	80-120
Magnesium	500000	500000	446562	89.31		450608	90.12		80-120	80-120
Manganese	0	2000	8.71509	0		1924.5	96.22		-	80-120
Molybdenum	0	3000	0	0		2833.8	94.46		-	80-120
Nickel	0	3000	0	0		2738.6	91.29		-	80-120
Potassium	0	200000	87.6667	0		215689	107.8		-	80-120
Selenium	0	5000	16.7701	0		5058.2	101.2		-	80-120
Silver	0	3000	4.67107	0		3327.2	110.9		-	80-120
Sodium	0	50000	143.88	0		50975.1	102		-	80-120
Strontium	0	500	1.31326	0		514.9	103		-	80-120
Thallium	0	10000	0	0		8875.9	88.76		-	80-120
Tin	0	500	0	0		476.2	95.24		-	80-120
Titanium	0	10000	0	0		9867.4	98.67		-	80-120
Vanadium	0	3000	0	0		2979.3	99.31		-	80-120
Zinc	0	3000	14.1501	0		2723.4	90.78		-	80-120

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICP7300DV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			03/06/2011 22:53			03/06/2011 22:55				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	529156	105.8		529240	105.8		80-120	80-120
Antimony	0	10000	6.83681	0		9746.3	97.46		-	80-120
Arsenic	0	10000	27.7	0		10109.2	101.1		-	80-120
Barium	0	3000	8.93978	0		2914.5	97.15		-	80-120
Beryllium	0	1000	0	0		1038.9	103.9		-	80-120
Boron	0	5000	0	0		5199.3	104		-	80-120
Cadmium	0	3000	0	0		3104.9	103.5		-	80-120
Calcium	500000	500000	537055	107.4		536294	107.3		80-120	80-120
Chromium	0	3000	0	0		2883.6	96.12		-	80-120
Cobalt	0	3000	3.88396	0		2739.5	91.32		-	80-120
Copper	0	3000	0	0		3094.5	103.2		-	80-120
Iron	500000	500000	511417	102.3		512484	102.5		80-120	80-120
Lead	0	10000	0	0		9384.5	93.84		-	80-120
Magnesium	500000	500000	451686	90.34		447590	89.52		80-120	80-120
Manganese	0	2000	8.77164	0		1924.3	96.21		-	80-120
Molybdenum	0	3000	0	0		2817.6	93.92		-	80-120
Nickel	0	3000	0	0		2729	90.97		-	80-120
Potassium	0	200000	136.121	0		216152	108.1		-	80-120
Selenium	0	5000	21.1	0		4996.8	99.94		-	80-120
Silver	0	3000	4.12038	0		3337.2	111.2		-	80-120
Sodium	0	50000	0	0		51014.9	102		-	80-120
Strontium	0	500	1.3484	0		519.4	103.9		-	80-120
Thallium	0	10000	0	0		8835	88.35		-	80-120
Tin	0	500	0	0		472.4	94.48		-	80-120
Titanium	0	10000	0	0		9830.1	98.3		-	80-120
Vanadium	0	3000	0	0		2979.4	99.31		-	80-120
Zinc	0	3000	14.4596	0		2712	90.4		-	80-120

LABORATORY CONTROL SAMPLE

LCS-98257

Lab Name: SPL Inc.

SDG: 11020727

Lab Code: SPLLAF

Total/Dissolved: Dissolved

Solid LCS Source:

Aqueous LCS Source:

Analyte	M	Aqueous (mg/L) True	Found	%R	Limits	Solid (mg/kg) True	Found	C	%R	Limits
Arsenic	P	0.1	0.1004	100.4	80 - 120					

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

METHOD DETECTION LIMITS

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF

Instrument ID Number: ICP7300DV Date:

6010_D

Analyte	Wavelength (nm)	Background	PQL mg/L	MDL mg/L	M
Arsenic			0.020	0.0020	P

PREPARATION LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF

Method: SW3005

Total/Diss.: Dissolved

Lab Sample ID	Client Sample ID	Preparation Date	Initial Weight (gram)	Initial Volume (ml)	Final Volume (ml)
11020727-22B	BA-01	2/25/11	0	100	100
LCS-98257	LCS-98257	2/25/11	0	100	100
MBLK-98257	MBLK-98257	2/25/11	0	100	100

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 11020727

Lab Code: SPLLAF Method: SW6010B

Instrument ID: ICP7300DV Total/Dissolved: Dissolved

Start Date: 3/6/2011 End Date: 3/6/2011

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																												
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
ICV	ICV	1	14:12				X																								
ICB	ICB	1	14:17				X																								
CCV	CCV	1	14:19				X																								
CCB	CCB	1	14:23				X																								
ICSA	ICSA	1	14:25		X		X				X				X		X														
ICSAB	ICSAB	1	14:27		X		X				X				X		X														
CCV	CCV	1	22:16				X																								
CCB	CCB	1	22:18				X																								
ICSA	ICSA	1	22:20		X		X				X				X		X														
ICSAB	ICSAB	1	22:22		X		X				X				X		X														
MBLK-98257	MBLK-98257	1	22:27				X																								
LCS-98257	LCS-98257	1	22:30				X																								
11020727-03Z	ZZZZZZ	5	22:31																												
11020727-03BSD	ZZZZZZ	25	22:33																												
11020727-03BMS	ZZZZZZ	5	22:35																												
11020727-03BMSD	ZZZZZZ	5	22:37																												
CCV	CCV	1	22:39				X																								
CCB	CCB	1	22:41				X																								
11020727-03BPDS	ZZZZZZ	25	22:44																												
11020727-03BPDSD	ZZZZZZ	25	22:46																												
11020727-22B	BA-01	1	22:48				X																								
CCV	CCV	1	22:49				X																								
CCB	CCB	1	22:51				X																								
ICSA	ICSA	1	22:53		X		X				X				X		X														
ICSAB	ICSAB	1	22:55		X		X				X				X		X														

METALS RAW DATA

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.	Sample ID
1	1	Calib Blank
2	2	Calib Std 1
3	3	Calib Std 2
4	4	Calib Std 3
5	5	Calib Std 4
6	6	Calib Std 5
7	7	ICV
8	101	LLICV
9	8	ICB
10	1	CCV
11	101	LLCCV
12	2	CCB
13	9	ICSA
14	10	ICSAB
15	102	RINSE BLANK
16	103	RINSE BLANK
17	104	MBLK-98363
18	105	LCS-98363
19	106	11020566-04D
20	107	11020566-04DSD
21	108	11020566-04DMS
22	109	11020566-04DMSD
23	1	CCV
24	101	LLCCV
25	2	CCB
26	110	11020566-04DDUP
27	111	11020566-04DPDS
28	112	11020566-04DPDSD
29	1	CCV
30	101	LLCCV
31	2	CCB
32	9	ICSA
33	10	ICSAB
34	124	RINSE BLANK
35	125	RINSE BLANK
36	113	11020566-05D
37	114	11020566-06D
38	115	11020566-07D
39	116	11020566-09D
40	117	11020566-10D
41	118	11020566-11D
42	1	CCV
43	101	LLCCV
44	2	CCB
45	119	11020566-12D
46	120	11020566-13D
47	121	11020566-14D
48	122	11020566-01D
49	123	11020566-03D
50	1	CCV
51	101	LLCCV
52	2	CCB
53	9	ICSA
54	10	ICSAB
55	124	RINSE BLANK
56	125	RINSE BLANK

1103061355DV
03-06-11
SW

ICP7300DV_1103061A

6010C_W_AL Ag orig

Ag orig 6010C_W_AL # 98363

Reviewed By

KL 3/7/11

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID	Status
57	312		MBLK-98365	
58	313		LCS-98365	
59	314		11020840-13D	
60	315		11020840-13DSD	
61	316		11020840-13DMS	
62	317		11020840-13DMSD	
63	1	QC	CCV	
64	101		LLCCV	
65	2	QC	CCB	
66	318		11020840-13DDUP	
67	319		11020840-13DPDS	
68	320		11020840-13DPDSD	
69	1	QC	CCV	
70	101		LLCCV	
71	2	QC	CCB	
72	9	QC	ICSA	
73	10	QC	ICSAB	
74	338		RINSE BLANK	
75	339		RINSE BLANK	
76	321		11020840-14D	
77	322		11020840-15D	
78	323		11020840-16D	
79	324		11020840-17D	
80	325		11020840-18D	
81	326		11020840-19D	
82	1	QC	CCV	
83	101		LLCCV	
84	2	QC	CCB	
85	327		11020840-01D	
86	328		11020840-02D	
87	329		11020840-03D	
88	330		11020840-04D	
89	331		11020840-05D	
90	332		11020840-07D	
91	333		11020840-08D	
92	334		11020840-09D	
93	335		11020840-10D	
94	336		11020840-11D	
95	1	QC	CCV	
96	101		LLCCV	
97	2	QC	CCB	
98	337		11020840-12D	
99	1	QC	CCV	
100	101		LLCCV	
101	2	QC	CCB	
102	9	QC	ICSA	
103	10	QC	ICSAB	
104	338		RINSE BLANK	
105	339		RINSE BLANK	
106	434		MBLK-98267	
107	435		LCS-98267	
108	436		11020876-02F	
109	437		11020876-02FSD	
110	438		11020876-02FMS	
111	439		11020876-02FMSD	
112	1	QC	CCV	

AS Ag orig

ICP7300DV_110306B

Reviewed By

KL 3/7/11

AS Ag orig 6010C_WATER #98305

6007D

Pb orig

ICP7300DV_110304C

P3-7-11

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID	Status
113	2	QC	CCB	
114	440		11020876-02FPDS Pb orig	
115	441		11020876-02FPDSD ↓	
116	1	QC	CCV	
117	2	QC	CCB	
118	9	QC	ICSA	
119	10	QC	ICSAB	
120	442		RINSE BLANK	
121	443		RINSE BLANK	
122	444		MBLK-98266 200.7D	
123	445		LCS-98266	
124	446		11020931-01C Ca Mg orig	
125	447		11020931-01CSD	
126	448		11020931-01CMS	
127	449		11020931-01CMSD	
128	1	QC	CCV	
129	2	QC	CCB	
130	450		11020931-01CPDS	
131	451		11020931-01CPDSD	
132	452		11020931-02C	
133	453		11020931-03C	
134	454		11020931-04C	
135	455		11020931-05C	
136	456		11020931-06C ↓	
137	1	QC	CCV	
138	2	QC	CCB	
139	9	QC	ICSA	
140	10	QC	ICSAB	
141	457		RINSE BLANK	
142	458		RINSE BLANK	
143	406		MBLK-98409 Q010 TCLP	
144	407		LCS-98409	
145	408		11021039-01A AsBaCdCrPbSeAg orig	ICP7300DV 110306D
146	409		11021039-01ASD	
147	410		11021039-01AMS	
148	411		11021039-01ADUP	
149	1	QC	CCV	
150	2	QC	CCB	
151	412		11021039-01APDS ↓	
152	1	QC	CCV	
153	2	QC	CCB	
154	9	QC	ICSA	
155	10	QC	ICSAB	
156	413		RINSE BLANK	
157	414		RINSE BLANK	
158	415		MBLK-98406 Q010 TCLP	
159	416		LCS-98406	
160	417		11021038-01A AsBaCdCrPbSeAg orig	
161	418		11021038-01ASD	
162	419		11021038-01AMS	
163	420		11021038-01ADUP	
164	1	QC	CCV	
165	2	QC	CCB	
166	421		11021038-01APDS ↓	
167	1	QC	CCV	
168	2	QC	CCB	

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID	Status
169	9	QC	ICSA	
170	10	QC	ICSAB	
171	422		RINSE BLANK	
172	423		RINSE BLANK	
173	424		MBLK-98424 200.7	
174	425		LCS-98424	
175	426		11021087-01C Pb orig	
176	427		11021087-01CSD	
177	428		11021087-01CMS	
178	429		11021087-01CMSD	
179	1	QC	CCV	
180	2	QC	CCB	
181	430		11021087-01CPDS	
182	431		11021087-01CPDSD	
183	1	QC	CCV	
184	2	QC	CCB	
185	9	QC	ICSA	
186	10	QC	ICSAB	
187	432		RINSE BLANK	
188	433		RINSE BLANK	
189	126		MBLK-98096 6010_W	
190	127		LCS-98096	
191	128		11020727-11A QC	
192	129		11020727-11ASD	
193	130		11020727-11AMS	
194	131		11020727-11AMSD	
195	1	QC	CCV	
196	2	QC	CCB	
197	132		11020727-11APDS	
198	133		11020727-11APDSD	
199	134		11020727-14A As orig	
200	135		11020727-02A ØAs dil	
201	3	QC	CCV	
202	4	QC	CCB	
203	9	QC	ICSA	
204	10	QC	ICSAB	
205	136		RINSE BLANK	
206	137		RINSE BLANK	
207	138		MBLK-98097 6010_W	
208	139		LCS-98097	
209	140		11020727-33A QC	
210	141		11020727-33ASD	
211	142		11020727-33AMS	
212	143		11020727-33AMSD	
213	3	QC	CCV	
214	4	QC	CCB	
215	144		11020727-33APDS	
216	145		11020727-33APDSD	
217	146		11020727-22A As orig	
218	147		11020727-23A	
219	148		11020727-25A Ø As dil	
220	149		11020727-26A	
221	150		11020727-28A As orig	
222	151		11020727-31A Ø As	
223	3	QC	CCV	
224	4	QC	CCB	

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID	Status
225	9	QC	ICSA	
226	10	QC	ICSAB	
227	152		RINSE BLANK	
228	153		RINSE BLANK	
229	154		MBLK-98257	
230	155		LCS-98257	
231	156		11020727-03B	
232	157		11020727-03BSD	
233	158		11020727-03BMS	
234	159		11020727-03BMSD	
235	3	QC	CCV	
236	4	QC	CCB	
237	160		11020727-03BPDS	
238	201		11020727-03BPDSD	
239	202		11020727-22B	
240	3	QC	CCV	
241	4	QC	CCB	
242	9	QC	ICSA	
243	10	QC	ICSAB	
244	203		RINSE BLANK	
245	204		RINSE BLANK	
246	205		MBLK-98353	
247	206		LCS-98353	
248	207		11021042-01A	
249	208		11021042-01ASD	
250	209		11021042-01AMS	
251	210		11021042-01AMSD	
252	3	QC	CCV	
253	4	QC	CCB	
254	211		11021042-01APDS	
255	212		11021042-01APDSD	
256	213		11021042-02A	
257	214		11021042-03A	
258	215		11021042-04A	
259	216		11021042-05A	
260	217		11021042-06A	
261	218		11021042-07A	
262	219		11021042-08A	
263	220		11021042-09A	
264	3	QC	CCV	
265	4	QC	CCB	
266	9	QC	ICSA	
267	10	QC	ICSAB	
268	221		RINSE BLANK	
269	222		RINSE BLANK	
270	223		MBLK-98489	
271	224		LCS-98489	
272	225		11021105-01A	
273	226		11021105-01ASD	
274	227		11021105-01AMS	
275	228		11021105-01ADUP	
276	3	QC	CCV	
277	4	QC	CCB	
278	229		11021105-01APDS	
279	230		11021106-01A	
280	231		11021107-01A	

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID	Status
281	5	QC	CCV	
282	6	QC	CCB	
283	9	QC	ICSA	
284	10	QC	ICSAB	
285	232		RINSE BLANK	
286	233		RINSE BLANK	
287	234		MBLK-98490	
288	235		LCS-98490	
289	236		11030031-20B	
290	237		11030031-20BSD	
291	238		11030031-20BMS	
292	239		11030031-20BDUP	
293	5	QC	CCV	
294	6	QC	CCB	
295	240		11030031-20BPDS	
296	5	QC	CCV	
297	6	QC	CCB	
298	9	QC	ICSA	
299	10	QC	ICSAB	
300	241		RINSE BLANK	
301	242		RINSE BLANK	
302	243		MBLK-98445	
303	244		LCS-98445	
304	245		11030036-01A	
305	246		11030036-01ASD	
306	247		11030036-01AMS	
307	248		11030036-01AMSD	
308	5	QC	CCV	
309	6	QC	CCB	
310	249		11030036-01APDS	
311	250		11030036-01APDSD	
312	5	QC	CCV	
313	6	QC	CCB	
314	9	QC	ICSA	
315	10	QC	ICSAB	
316	251		RINSE BLANK	
317	252		RINSE BLANK	
318	253		MBLK-98471	
319	254		LCS-98471	
320	255		11021082-01A	
321	256		11021082-01ASD	
322	257		11021082-01AMS	
323	258		11021082-01AMSD	
324	5	QC	CCV	
325	6	QC	CCB	
326	259		11021082-01APDS	
327	260		11021082-01APDSD	
328	301		11021082-02A	
329	302		11021082-03A	
330	303		11021082-04A	
331	304		11021082-05A	
332	305		11021082-06A	
333	306		11021082-07A	
334	307		11021082-08A	
335	308		11030081-03A	
336	5	QC	CCV	

Q010 SPLP

Pb orig

Q010-D

Pb orig

Q010 S

As Cd Cr Pb Se Ag Zn orig

ø As Ba Cd Cr Pb Se Ag Sr Zn dil

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID	Status
337	6		CCB	
338	309		11030120-01A Pborig	
339	5		CCV	
340	6		CCB	
341	9		ICSA	
342	10		ICSAB	
343	310		RINSE BLANK	
344	311		RINSE BLANK	

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Printed On: 3/6/2011 12:46:58 PM

Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Aluminum radial	Antimony	Arsenic	Barium
1	**Aluminum**	982.238	0	0	0
2	**Aluminum radial**	n/a	0	0	0
3	**Antimony**	0	n/a	0	0
4	**Argon**	0	0	0	0
5	**Arsenic**	0	0	n/a	0
8	**Boron**	0	0	0	0
9	**Cadmium**	0	0	20.764	0
10	**Calcium**	0.0396145	0	0	0
11	**Calcium radial**	0.044926	0	0	0
13	**Cobalt**	0	0	0	0
14	**Copper**	0	0	0	0
15	**Iron**	0	0	0	0
16	**Iron radial**	0.0258936	0	0	0
17	**Lead**	-0.0376837	0	0	0
19	**Magnesium**	0	0	0	0
20	**Magnesium radial**	0	0	0	0
21	**Manganese**	0	0	0	0
22	**Molybdenum**	0	0	0	0
24	**Potassium**	0.320163	15.7572	15.1682	47.647
25	**Potassium radial**	0	0	0	0
26	**Selenium**	-0.0218888	0	0	0
27	**Silver**	0	0	0	0
28	**Sodium**	0.287024	13.4588	12.9895	41.0255
30	**Stonrium radial**	0	0	0	0
31	**Strontium**	0	0	0	0
32	**Thallium**	0	0	0	0
33	**Tin**	0	0	0	0
35	**Vanadium**	0	0	0	0

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Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Beryllium	Boron	Cadmium	Calcium radial
1	**Aluminum**	0	0	0	0.056019
2	**Aluminum radial**	0	0	0	0.081805
3	**Antimony**	0	0	0	0
4	**Argon**	0	0	0	0
5	**Arsenic**	0	0	0	-0.0124911
8	**Boron**	0	**n/a**	0	0
9	**Cadmium**	0	0	**n/a**	0
10	**Calcium**	0	0	0	957.262
11	**Calcium radial**	0	0	0	**n/a**
13	**Cobalt**	0	0	0	0
14	**Copper**	0	0	0	-0.0169336
15	**Iron**	0	0	0	0.0454708
16	**Iron radial**	0	0	0	0.0373072
17	**Lead**	0	0	0	0
19	**Magnesium**	0	0	4.69161	0
20	**Magnesium radial**	0	0	4.98523	0
21	**Manganese**	0	0	0	0
22	**Molybdenum**	0	0	0	0
24	**Potassium**	142.804	28.7161	50.8791	0
25	**Potassium radial**	0	0	0	0.139088
26	**Selenium**	0	0	0	0
27	**Silver**	0	0	0	0.0298839
28	**Sodium**	122.543	24.6644	43.5615	0
30	**Stonrium radial**	0	0	0	0.0274952
31	**Strontium**	0	0	0	0.0257865
32	**Thallium**	0	0	0	0
33	**Tin**	0	0	0	-0.106529
35	**Vanadium**	0	0	0	0

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IEC File Last Saved: 3/2/2011 2:16:41 PM
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Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Chromium	Cobalt	Copper	Iron radial
1	**Aluminum**	0	0	0	0
2	**Aluminum radial**	0	0	0	-0.0273414
3	**Antimony**	18.0636	0	0	-0.0731277
4	**Argon**	0	0	0	0
5	**Arsenic**	-5.19146	0	0	0
8	**Boron**	0	0	0	-0.0471581
9	**Cadmium**	0	-4.57465	0	0
10	**Calcium**	0	0	0	0.116905
11	**Calcium radial**	0	0	0	0.132699
13	**Cobalt**	0	**n/a**	0	0
14	**Copper**	0	0	**n/a**	0
15	**Iron**	0	-5.09891	0	766.561
16	**Iron radial**	0	-4.79259	0	**n/a**
17	**Lead**	0	0	0	0
19	**Magnesium**	0	0	0	-0.650457
20	**Magnesium radial**	0	0	0	-0.325492
21	**Manganese**	0	0	0	0
22	**Molybdenum**	0	0	0	-0.0394839
24	**Potassium**	48.0563	46.9371	49.64	0
25	**Potassium radial**	0	0	0	0.094679
26	**Selenium**	0	0	0	-0.358393
27	**Silver**	0	0	0	0
28	**Sodium**	41.1399	40.4234	43.3251	0
30	**Stonrium radial**	0	0	0	0
31	**Strontium**	0	0	0	0
32	**Thallium**	0	3.4636	0	0.0442045
33	**Tin**	0	0	0	0
35	**Vanadium**	0	0	0	0.232972

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Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Lead	Magnesium	Magnesium radial	Molybdenum
1	**Aluminum**	0	0	0.0292329	25.6843
2	**Aluminum radial**	0	0	0	0
3	**Antimony**	0	0	0	0
4	**Argon**	0	0	0	0
5	**Arsenic**	0	0.0707776	0	0
8	**Boron**	0	0	0	0
9	**Cadmium**	0	0	0	0
10	**Calcium**	0	0.106862	0	0
11	**Calcium radial**	0	0.111731	0	0
13	**Cobalt**	0	0	0	0
14	**Copper**	0	0	0	0
15	**Iron**	0	0.0382268	0	0
16	**Iron radial**	0	0.0487378	0	0
17	**Lead**	**n/a**	0	0	0
19	**Magnesium**	0	**n/a**	0	0
20	**Magnesium radial**	0	0	**n/a**	0
21	**Manganese**	0	0.0407226	0	4.56907e+006
22	**Molybdenum**	0	0	0	**n/a**
24	**Potassium**	0	0	0	328185
25	**Potassium radial**	2.13797	0.199156	0	0
26	**Selenium**	0	0	0	0
27	**Silver**	0	0	0	0
28	**Sodium**	12.2109	0	0	286349
30	**Stonrium radial**	0	0	0	0
31	**Strontium**	0	0	0	0
32	**Thallium**	0	0	0	-24162.3
33	**Tin**	0	0	0	0
35	**Vanadium**	0	0.0565652	0	0

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Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Nickel	Potassium radial	Selenium	Silver
1	**Aluminum**	0	0	2.66842	0
2	**Aluminum radial**	0	0.059783	0	0
3	**Antimony**	0	0	0	0
4	**Argon**	0	0	0	0
5	**Arsenic**	0	0	0	0
8	**Boron**	0	0	0	0
9	**Cadmium**	0	0	0	0
10	**Calcium**	0	0.302601	0	0
11	**Calcium radial**	0	0.324338	0	0
13	**Cobalt**	0	0	0	0
14	**Copper**	0	0	0	0
15	**Iron**	0	0	0	0
16	**Iron radial**	0	0	0	0
17	**Lead**	0	0	0	0
19	**Magnesium**	0	0	0	0
20	**Magnesium radial**	0	0	0	0
21	**Manganese**	0	0	0	0
22	**Molybdenum**	0	0	0	0
24	**Potassium**	49.8564	0	0	0
25	**Potassium radial**	9.04148	**n/a**	6.47083	12.8343
26	**Selenium**	0	0	**n/a**	0
27	**Silver**	0	0	0	**n/a**
28	**Sodium**	42.4781	0	0	0
30	**Stonrium radial**	0	0	0	0
31	**Strontium**	0	0	0	0
32	**Thallium**	0	0	0	0
33	**Tin**	0	0	0	0
35	**Vanadium**	0	0	0	0

IEC File Last Saved: 3/2/2011 2:16:41 PM
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Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Sodium radial	Stonrium radial	Thallium	Tin
1	**Aluminum**	0	0	0	0
2	**Aluminum radial**	0	0	0	0
3	**Antimony**	0	0	0	0
4	**Argon**	0	0	0	212467
5	**Arsenic**	0	0	0	0
8	**Boron**	0	0	0	0
9	**Cadmium**	0	0	0	0
10	**Calcium**	0	0	0	0
11	**Calcium radial**	0	0	0	0
13	**Cobalt**	0	0	0	0
14	**Copper**	0	0	0	0
15	**Iron**	0	0	0	0
16	**Iron radial**	0	0	0	0
17	**Lead**	0	0	0	0
19	**Magnesium**	0	0	0	0
20	**Magnesium radial**	0	0	0	0
21	**Manganese**	0	0	0	0
22	**Molybdenum**	0	0	0	0
24	**Potassium**	0	0	0	0
25	**Potassium radial**	1.46793	182.882	1.52712	39.3189
26	**Selenium**	0	0	0	0
27	**Silver**	0	0	0	0
28	**Sodium**	0	0	0	0
30	**Stonrium radial**	0	n/a	0	0
31	**Strontium**	0	0	0	0
32	**Thallium**	0	0	n/a	0
33	**Tin**	0	0	0	n/a
35	**Vanadium**	0	0	0	0

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IEC File Last Saved: 3/2/2011 2:16:41 PM
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Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Titanium	Vanadium
1	**Aluminum**	0	0
2	**Aluminum radial**	0	0
3	**Antimony**	0	0
4	**Argon**	11282	0
5	**Arsenic**	-1.6828	0
8	**Boron**	0	0
9	**Cadmium**	0	0
10	**Calcium**	0	0
11	**Calcium radial**	0	0
13	**Cobalt**	2.01623	0
14	**Copper**	0	0
15	**Iron**	0	0
16	**Iron radial**	0	0
17	**Lead**	0	0
19	**Magnesium**	0	0
20	**Magnesium radial**	0	0
21	**Manganese**	0	0
22	**Molybdenum**	0	0
24	**Potassium**	0	0
25	**Potassium radial**	5.33277	6.00745
26	**Selenium**	0	0
27	**Silver**	0	-7.50937
28	**Sodium**	0	0
30	**Stonrium radial**	0	0
31	**Strontium**	0	0
32	**Thallium**	0	-5.67433
33	**Tin**	0	0
35	**Vanadium**	0	**n/a**

Analysis Begun

Start Time: 3/6/2011 1:54:54 PM
Plasma On Time: 3/6/2011 11:38:23 AM
Logged In Analyst: LAFMETALS
Technique: ICP Continuous
Spectrometer Model: Optima 7300 DV, S/N 077C0052103Autosampler Model: Cetac

Sample Information File: C:\pe\lafmetals\Sample Information\6010 EXTRA.sif
Batch ID:
Results Data Set: 1103061355DV
Results Library: C:\pe\lafmetals\Results\Results.mdb

Method Loaded
Method Name: spl dan 6010B.C 200
Method Last Saved: 1/24/2011 4:47:27 PM
IEC File: dan spl.iec
MSF File:
Method Description: 6010 200.7

Sequence No.: 1
Autosampler Location: 1
Sample ID: Calib Blank
Date Collected: 3/6/2011 1:55:12 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: Calib Blank

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium	681671.0	3535.78	0.52%	100.0	%
Aluminumt	-371.8	48.54	13.05%	[0.00]	mg/L
Antimonyt	12.2	4.82	39.53%	[0.00]	mg/L
Arsenict	1.3	2.17	169.66%	[0.00]	mg/L
Bariumt	-13.7	1.21	8.86%	[0.00]	mg/L
Berylliumt	-1179.4	49.44	4.19%	[0.00]	mg/L
Boront	215.2	6.58	3.06%	[0.00]	mg/L
Cadmiumt	80.0	1.72	2.15%	[0.00]	mg/L
Chromiumt	219.6	68.79	31.32%	[0.00]	mg/L
Cobaltt	-16.2	3.67	22.68%	[0.00]	mg/L
Coppert	1954.7	32.80	1.68%	[0.00]	mg/L
Lithiumt	947.8	66.04	6.97%	[0.00]	mg/L
Manganeset	174.2	17.77	10.20%	[0.00]	mg/L
Molybdenumt	22.1	7.01	31.66%	[0.00]	mg/L
Nickelt	84.6	20.52	24.24%	[0.00]	mg/L
Leadt	29.0	4.40	15.15%	[0.00]	mg/L
Seleniumt	-3.6	2.23	62.36%	[0.00]	mg/L
Silvert	-1515.7	59.76	3.94%	[0.00]	mg/L
Strontiumt	-459.1	58.61	12.77%	[0.00]	mg/L
Tint	3.1	3.87	123.35%	[0.00]	mg/L
Thalliumt	-48.6	9.20	18.93%	[0.00]	mg/L
Titaniumt	721.4	60.34	8.36%	[0.00]	mg/L
Vanadiumt	3916.1	40.26	1.03%	[0.00]	mg/L
Zinct	9.3	4.49	48.35%	[0.00]	mg/L
Sodiumt	2083.5	128.33	6.16%	[0.00]	mg/L
Magnesiumt	1009.3	37.07	3.67%	[0.00]	mg/L
Iront	99.6	11.68	11.73%	[0.00]	mg/L
Calciumt	6043.9	111.43	1.84%	[0.00]	mg/L
Potassiumt	-786.5	191.45	24.34%	[0.00]	mg/L
Aluminum radialt	-41.6	10.70	25.71%	[0.00]	mg/L
Calcium radialt	187.1	4.94	2.64%	[0.00]	mg/L
Iron radialt	30.4	3.02	9.94%	[0.00]	mg/L
Magnesium radialt	150.9	7.63	5.06%	[0.00]	mg/L
Sodium radialt	45.2	6.69	14.82%	[0.00]	mg/L
Potassium radialt	-45.4	9.85	21.71%	[0.00]	mg/L
Stonrium radialt	282.2	24.38	8.64%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Calib Std 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 3/6/2011 1:57:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Std 1

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium	688699.1	5832.90	0.85%	101.0	%
Antimony†	3.1	3.94	128.56%	[0.005]	mg/L
Arsenic†	2.3	1.23	52.79%	[0.005]	mg/L
Barium†	270.6	6.82	2.52%	[0.005]	mg/L
Beryllium†	9385.3	200.54	2.14%	[0.005]	mg/L
Boron†	121.3	6.66	5.49%	[0.005]	mg/L
Cadmium†	76.1	7.35	9.67%	[0.005]	mg/L
Chromium†	357.6	33.74	9.43%	[0.005]	mg/L
Cobalt†	71.5	2.61	3.65%	[0.005]	mg/L
Copper†	441.0	28.16	6.39%	[0.005]	mg/L
Lithium†	37905.7	432.34	1.14%	[0.005]	mg/L
Manganese†	2120.7	36.74	1.73%	[0.005]	mg/L
Molybdenum†	24.4	7.16	29.30%	[0.005]	mg/L
Nickel†	87.1	8.46	9.71%	[0.005]	mg/L
Lead†	10.1	5.25	51.78%	[0.005]	mg/L
Selenium†	1.1	3.03	268.16%	[0.005]	mg/L
Silver†	625.9	63.68	10.17%	[0.005]	mg/L
Strontium†	31428.4	388.75	1.24%	[0.0025]	mg/L
Tin†	9.0	0.75	8.30%	[0.005]	mg/L
Thallium†	8.5	5.86	68.90%	[0.005]	mg/L
Titanium†	1109.4	24.67	2.22%	[0.005]	mg/L
Vanadium†	307.6	30.79	10.01%	[0.005]	mg/L
Zinc†	79.0	4.46	5.64%	[0.005]	mg/L
Argon	5366375.7	24289.88	0.45%	[100]	mg/L
The required calibration blank has not been analyzed.					
Sodium†	10703.1	167.29	1.56%	[0.05]	mg/L
Potassium†	4220.5	151.89	3.60%	[0.05]	mg/L
Sodium radial†	161.3	8.68	5.38%	[0.05]	mg/L
Potassium radial†	45.9	56.05	122.07%	[0.05]	mg/L
Stonrium radial†	1371.6	71.97	5.25%	[0.0025]	mg/L

Sequence No.: 3
Sample ID: Calib Std 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 3/6/2011 1:58:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Std 2

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium	682119.3	8347.71	1.22%	100.1	%
Aluminum†	2596.9	113.55	4.37%	[0.05]	mg/L
Antimony†	46.5	6.36	13.68%	[0.05]	mg/L
Arsenic†	41.8	2.69	6.43%	[0.05]	mg/L
Barium†	2863.2	55.25	1.93%	[0.05]	mg/L
Beryllium†	99039.5	410.18	0.41%	[0.05]	mg/L
Boron†	1194.2	6.47	0.54%	[0.05]	mg/L
Cadmium†	881.9	19.94	2.26%	[0.05]	mg/L
Chromium†	3700.7	111.92	3.02%	[0.05]	mg/L

Cobalt†	748.3	15.71	2.10%	[0.05] mg/L
Copper†	5101.6	118.54	2.32%	[0.05] mg/L
Lithium†	406190.1	1469.22	0.36%	[0.05] mg/L
Manganese†	22794.1	364.89	1.60%	[0.05] mg/L
Molybdenum†	362.5	2.09	0.58%	[0.05] mg/L
Nickel†	806.7	20.32	2.52%	[0.05] mg/L
Lead†	100.3	2.10	2.10%	[0.05] mg/L
Selenium†	25.6	2.82	11.02%	[0.05] mg/L
Silver†	6890.0	185.97	2.70%	[0.05] mg/L
Strontium†	326456.1	3294.99	1.01%	[0.025] mg/L
Tin†	47.6	1.38	2.90%	[0.05] mg/L
Thallium†	94.4	10.08	10.68%	[0.05] mg/L
Titanium†	11502.3	248.63	2.16%	[0.05] mg/L
Vanadium†	3527.4	180.32	5.11%	[0.05] mg/L
Zinc†	673.7	10.58	1.57%	[0.05] mg/L
Sodium†	116740.5	1363.91	1.17%	[0.50] mg/L
Magnesium†	11539.5	245.50	2.13%	[0.05] mg/L
Iron†	2343.1	32.36	1.38%	[0.05] mg/L
Calcium†	15094.8	438.72	2.91%	[0.05] mg/L
Potassium†	46774.1	106.16	0.23%	[0.50] mg/L
Aluminum radial†	102.0	57.23	56.10%	[0.05] mg/L
Calcium radial†	674.3	15.98	2.37%	[0.05] mg/L
Iron radial†	90.7	2.61	2.88%	[0.05] mg/L
Magnesium radial†	485.7	6.75	1.39%	[0.05] mg/L
Sodium radial†	1848.9	62.75	3.39%	[0.50] mg/L
Potassium radial†	340.3	94.85	27.87%	[0.50] mg/L
Stonrium radial†	13239.8	440.14	3.32%	[0.025] mg/L

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: Calib Std 3 **Date Collected: 3/6/2011 2:00:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: Calib Std 3

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium	675516.1	5232.72	0.77%	99.10	%
Aluminum†	4558.2	26.68	0.59%	[0.10]	mg/L
Antimony†	85.5	5.85	6.84%	[0.10]	mg/L
Arsenic†	84.6	3.56	4.21%	[0.10]	mg/L
Barium†	5762.3	26.61	0.46%	[0.10]	mg/L
Beryllium†	196069.1	951.30	0.49%	[0.10]	mg/L
Boron†	2396.0	45.87	1.91%	[0.10]	mg/L
Cadmium†	1765.4	19.27	1.09%	[0.10]	mg/L
Chromium†	7280.8	105.17	1.44%	[0.10]	mg/L
Cobalt†	1495.6	7.46	0.50%	[0.10]	mg/L
Copper†	10179.5	78.97	0.78%	[0.10]	mg/L
Lithium†	812980.8	6805.95	0.84%	[0.10]	mg/L
Manganese†	45439.4	229.57	0.51%	[0.10]	mg/L
Molybdenum†	703.6	6.23	0.89%	[0.10]	mg/L
Nickel†	1592.3	31.45	1.98%	[0.10]	mg/L
Lead†	210.9	6.73	3.19%	[0.10]	mg/L
Selenium†	42.9	1.96	4.58%	[0.10]	mg/L
Silver†	13757.8	44.88	0.33%	[0.10]	mg/L
Strontium†	649816.2	5444.91	0.84%	[0.05]	mg/L
Tin†	94.6	4.41	4.66%	[0.10]	mg/L
Thallium†	177.9	6.53	3.67%	[0.10]	mg/L
Titanium†	22791.4	9.55	0.04%	[0.10]	mg/L
Vanadium†	7189.9	57.18	0.80%	[0.10]	mg/L
Zinc†	1320.8	19.09	1.45%	[0.10]	mg/L
Sodium†	237056.6	1719.90	0.73%	[1.00]	mg/L
Magnesium†	23007.7	159.40	0.69%	[0.10]	mg/L
Iron†	4328.9	45.40	1.05%	[0.10]	mg/L
Calcium†	14556.4	73.07	0.50%	[0.10]	mg/L

Standard intensity and concentration values are not in the same order.				
Potassium†	95533.4	805.70	0.84%	[1.00] mg/L
Aluminum radial†	119.8	32.77	27.36%	[0.10] mg/L
Calcium radial†	627.4	28.26	4.50%	[0.10] mg/L
Standard intensity and concentration values are not in the same order.				
Iron radial†	170.1	4.28	2.52%	[0.10] mg/L
Magnesium radial†	972.2	8.39	0.86%	[0.10] mg/L
Sodium radial†	3715.8	75.50	2.03%	[1.00] mg/L
Potassium radial†	732.7	48.29	6.59%	[1.00] mg/L
Stonrium radial†	26393.9	536.84	2.03%	[0.05] mg/L

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: Calib Std 4 **Date Collected: 3/6/2011 2:02:28 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: Calib Std 4

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: Calib Std 4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium	682412.8	3997.82	0.59%	100.1	%
Aluminum†	22040.5	113.51	0.52%	[0.50]	mg/L
Antimony†	417.2	10.86	2.60%	[0.50]	mg/L
Arsenic†	395.6	6.08	1.54%	[0.50]	mg/L
Barium†	28749.0	222.50	0.77%	[0.50]	mg/L
Beryllium†	987580.5	3343.12	0.34%	[0.50]	mg/L
Boron†	12027.5	112.26	0.93%	[0.50]	mg/L
Cadmium†	8738.0	44.44	0.51%	[0.50]	mg/L
Chromium†	36324.0	273.13	0.75%	[0.50]	mg/L
Cobalt†	7347.7	63.79	0.87%	[0.50]	mg/L
Copper†	50168.1	361.18	0.72%	[0.50]	mg/L
Lithium†	4018224.2	6983.97	0.17%	[0.50]	mg/L
Manganese†	225719.6	1020.88	0.45%	[0.50]	mg/L
Molybdenum†	3552.5	38.35	1.08%	[0.50]	mg/L
Nickel†	7907.5	41.44	0.52%	[0.50]	mg/L
Lead†	1031.6	8.71	0.84%	[0.50]	mg/L
Selenium†	238.3	0.65	0.27%	[0.50]	mg/L
Silver†	68410.8	391.62	0.57%	[0.50]	mg/L
Strontium†	3202924.6	3239.24	0.10%	[0.25]	mg/L
Tin†	485.5	5.32	1.10%	[0.50]	mg/L
Thallium†	859.7	4.67	0.54%	[0.50]	mg/L
Titanium†	115068.8	263.57	0.23%	[0.50]	mg/L
Vanadium†	36178.4	277.35	0.77%	[0.50]	mg/L
Zinc†	6449.4	16.44	0.25%	[0.50]	mg/L
Sodium†	1305467.8	3046.79	0.23%	[5.00]	mg/L
Magnesium†	115362.4	621.92	0.54%	[0.50]	mg/L
Iron†	21697.5	193.25	0.89%	[0.50]	mg/L
Calcium†	70118.6	480.36	0.69%	[0.50]	mg/L
Standard intensity and concentration values are not in the same order.					
Potassium†	546929.5	1173.25	0.21%	[5.00]	mg/L
Aluminum radial†	900.1	5.44	0.60%	[0.50]	mg/L
Calcium radial†	3008.6	43.59	1.45%	[0.50]	mg/L
Standard intensity and concentration values are not in the same order.					
Iron radial†	833.6	6.70	0.80%	[0.50]	mg/L
Magnesium radial†	4820.2	19.50	0.40%	[0.50]	mg/L
Sodium radial†	18372.3	56.82	0.31%	[5.00]	mg/L
Potassium radial†	3444.6	39.79	1.16%	[5.00]	mg/L
Stonrium radial†	129863.0	460.17	0.35%	[0.25]	mg/L

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: Calib Std 5 **Date Collected: 3/6/2011 2:04:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: Calib Std 5

Analyte	Back Pressure	Flow
All	163.0 kPa	0.65 L/min

Mean Data: Calib Std 5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium	683807.6	1238.61	0.18%	100.3	%
Aluminumt	43588.7	461.98	1.06%	[1.00]	mg/L
Antimonyt	816.7	2.96	0.36%	[1.00]	mg/L
Arsenict	800.2	4.99	0.62%	[1.00]	mg/L
Bariumt	56921.3	683.77	1.20%	[1.00]	mg/L
Berylliumt	1946114.2	9093.08	0.47%	[1.00]	mg/L
Boront	23971.4	244.57	1.02%	[1.00]	mg/L
Cadmiumt	17259.2	43.02	0.25%	[1.00]	mg/L
Chromiumt	71945.0	694.43	0.97%	[1.00]	mg/L
Cobaltt	14433.0	25.70	0.18%	[1.00]	mg/L
Coppert	99155.9	783.67	0.79%	[1.00]	mg/L
Lithiumt	7802171.9	94332.27	1.21%	[1.00]	mg/L
Manganeset	439582.1	4342.14	0.99%	[1.00]	mg/L
Molybdenumt	7064.5	8.56	0.12%	[1.00]	mg/L
Nickelt	15549.1	38.03	0.24%	[1.00]	mg/L
Leadt	2057.3	6.29	0.31%	[1.00]	mg/L
Seleniumt	475.7	6.31	1.33%	[1.00]	mg/L
Silvert	135446.4	1108.10	0.82%	[1.00]	mg/L
Strontiumt	6278303.1	49453.78	0.79%	[0.50]	mg/L
Tint	953.2	7.02	0.74%	[1.00]	mg/L
Thalliumt	1710.8	3.99	0.23%	[1.00]	mg/L
Titaniumt	223861.2	2390.48	1.07%	[1.00]	mg/L
Vanadiumt	72142.5	738.17	1.02%	[1.00]	mg/L
Zinct	12911.6	182.67	1.41%	[1.00]	mg/L
Sodiumt	2733027.5	17341.70	0.63%	[10.00]	mg/L
Magnesiumt	230969.8	2076.84	0.90%	[1.00]	mg/L
Iront	42890.3	374.93	0.87%	[1.00]	mg/L
Calciumt	139941.5	1691.54	1.21%	[1.00]	mg/L
Standard intensity and concentration values are not in the same order.					
Potassiumt	1150933.2	6503.05	0.57%	[10.00]	mg/L
Aluminum radialt	1781.6	13.46	0.76%	[1.00]	mg/L
Calcium radialt	5961.6	46.80	0.78%	[1.00]	mg/L
Standard intensity and concentration values are not in the same order.					
Iron radialt	1627.9	12.52	0.77%	[1.00]	mg/L
Magnesium radialt	9476.6	57.74	0.61%	[1.00]	mg/L
Sodium radialt	36167.0	276.12	0.76%	[10.00]	mg/L
Potassium radialt	6842.5	83.78	1.22%	[10.00]	mg/L
Stonrium radialt	257122.1	1433.79	0.56%	[0.50]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Aluminum	4	Lin, Calc Int	228.2	43420	0.00000	0.999961	
Antimony	5	Lin, Calc Int	2.8	817.0	0.00000	0.999930	
Arsenic	5	Lin, Calc Int	0.6	797.9	0.00000	0.999958	
Barium	5	Lin, Calc Int	42.4	56990	0.00000	0.999988	
Beryllium	5	Lin, Calc Int	1970.5	1949000	0.00000	0.999974	
Boron	5	Lin, Calc Int	2.8	23980	0.00000	0.999998	
Cadmium	5	Lin, Calc Int	20.7	17280	0.00000	0.999981	
Chromium	5	Lin, Calc Int	75.9	72000	0.00000	0.999989	
Cobalt	5	Lin, Calc Int	30.0	14450	0.00000	0.999961	
Copper	5	Lin, Calc Int	133.8	99240	0.00000	0.999982	
Lithium	5	Lin, Calc Int	21605.5	7823000	0.00000	0.999897	
Manganese	5	Lin, Calc Int	1048.1	440700	0.00000	0.999917	
Molybdenum	5	Lin, Calc Int	0.6	7072	0.00000	0.999993	
Nickel	5	Lin, Calc Int	30.0	15570	0.00000	0.999968	
Lead	5	Lin, Calc Int	0.8	2058	0.00000	0.999995	
Selenium	5	Lin, Calc Int	-0.9	476.7	0.00000	0.999934	
Silver	5	Lin, Calc Int	125.6	135600	0.00000	0.999988	
Strontium	5	Lin, Calc Int	13792.8	12580000	0.00000	0.999953	
Tin	5	Lin, Calc Int	1.7	954.4	0.00000	0.999952	

Thallium	5	Lin, Calc Int	4.1	1708	0.00000	0.999985
Titanium	5	Lin, Calc Int	447.1	224600	0.00000	0.999911
Vanadium	5	Lin, Calc Int	-29.1	72220	0.00000	0.999998
Zinc	5	Lin, Calc Int	16.8	12890	0.00000	0.999997
Argon	1	Lin, Calc Int	0.0	53660	0.00000	1.000000
Sodium	5	Lin, Calc Int	-19338.8	273100	0.00000	0.999748
Magnesium	4	Lin, Calc Int	-45.2	231000	0.00000	1.000000
Iron	4	Lin, Calc Int	108.2	42860	0.00000	0.999979
Calcium	4	Lin, Calc Int	2851.6	136600	0.00000	0.998416
Potassium	5	Lin, Calc Int	-10029.8	115100	0.00000	0.999669
Aluminum radial	4	Lin, Calc Int	-12.5	1797	0.00000	0.999306
Calcium radial	4	Lin, Calc Int	136.6	5811	0.00000	0.998166
Iron radial	4	Lin, Calc Int	7.7	1627	0.00000	0.999931
Magnesium radial	4	Lin, Calc Int	21.4	9483	0.00000	0.999964
Sodium radial	5	Lin, Calc Int	53.3	3622	0.00000	0.999969
Potassium radial	5	Lin, Calc Int	15.7	683.5	0.00000	0.999975
Stonrium radial	5	Lin, Calc Int	387.7	514400	0.00000	0.999988

Analysis Begun

Start Time: 3/6/2011 2:12:52 PM
Plasma On Time: 3/6/2011 11:38:23 AM
Logged In Analyst: LAFMETALS
Technique: ICP Continuous
Spectrometer Model: Optima 7300 DV, S/N 077C0052103Autosampler Model: Cetac

Sample Information File: C:\pe\lafmetals\Sample Information\6010 EXTRA.sif
Batch ID:
Results Data Set: 1103061355DV
Results Library: C:\pe\lafmetals\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 7
Sample ID: ICV
Date Collected: 3/6/2011 2:12:53 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	685257.5	100.5	%	0.42				0.42%
Aluminum†	43971.4	1.007	mg/L	0.0145	1.007	mg/L	0.0145	1.44%
QC value within limits for Aluminum Recovery = 100.74%								
Antimony†	822.2	0.9849	mg/L	0.01039	0.9849	mg/L	0.01039	1.06%
QC value within limits for Antimony Recovery = 98.49%								
Arsenic†	861.4	1.085	mg/L	0.0151	1.085	mg/L	0.0151	1.39%
QC value greater than the upper limit for Arsenic Recovery = 108.55%								
Barium†	57870.3	1.015	mg/L	0.0112	1.015	mg/L	0.0112	1.11%
QC value within limits for Barium Recovery = 101.48%								
Beryllium†	1979324.0	1.014	mg/L	0.0053	1.014	mg/L	0.0053	0.52%
QC value within limits for Beryllium Recovery = 101.43%								
Boron†	23826.0	0.9933	mg/L	0.00783	0.9933	mg/L	0.00783	0.79%
QC value within limits for Boron Recovery = 99.33%								
Cadmium†	17592.4	0.9992	mg/L	0.00929	0.9992	mg/L	0.00929	0.93%
QC value within limits for Cadmium Recovery = 99.92%								
Chromium†	72311.9	1.003	mg/L	0.0095	1.003	mg/L	0.0095	0.95%
QC value within limits for Chromium Recovery = 100.33%								
Cobalt†	14834.9	1.023	mg/L	0.0128	1.023	mg/L	0.0128	1.26%
QC value within limits for Cobalt Recovery = 102.25%								
Copper†	98713.4	0.9934	mg/L	0.00816	0.9934	mg/L	0.00816	0.82%
QC value within limits for Copper Recovery = 99.34%								
Lithium†	7861922.4	1.002	mg/L	0.0062	1.002	mg/L	0.0062	0.62%
QC value within limits for Lithium Recovery = 100.22%								
Manganese†	443123.7	1.003	mg/L	0.0102	1.003	mg/L	0.0102	1.02%
QC value within limits for Manganese Recovery = 100.31%								
Molybdenum†	7049.4	0.9968	mg/L	0.00774	0.9968	mg/L	0.00774	0.78%
QC value within limits for Molybdenum Recovery = 99.68%								
Nickel†	15886.3	1.019	mg/L	0.0140	1.019	mg/L	0.0140	1.38%
QC value within limits for Nickel Recovery = 101.86%								
Lead†	2106.5	1.023	mg/L	0.0090	1.023	mg/L	0.0090	0.88%
QC value within limits for Lead Recovery = 102.33%								
Selenium†	478.9	1.007	mg/L	0.0143	1.007	mg/L	0.0143	1.42%
QC value within limits for Selenium Recovery = 100.68%								
Silver†	135669.9	1.007	mg/L	0.0096	1.007	mg/L	0.0096	0.95%
QC value within limits for Silver Recovery = 100.73%								
Strontium†	6314604.0	0.5010	mg/L	0.00220	0.5010	mg/L	0.00220	0.44%
QC value within limits for Strontium Recovery = 100.20%								
Tin†	1000.2	1.046	mg/L	0.0115	1.046	mg/L	0.0115	1.10%
QC value within limits for Tin Recovery = 104.63%								
Thallium†	1765.5	1.031	mg/L	0.0161	1.031	mg/L	0.0161	1.56%
QC value within limits for Thallium Recovery = 103.13%								
Titanium†	218752.2	0.9721	mg/L	0.00622	0.9721	mg/L	0.00622	0.64%
QC value within limits for Titanium Recovery = 97.21%								

Vanadium†	72270.4	1.001 mg/L	0.0099	1.001 mg/L	0.0099	0.99%
QC value within limits for Vanadium Recovery = 100.08%						
Zinc†	13255.6	1.027 mg/L	0.0108	1.027 mg/L	0.0108	1.05%
QC value within limits for Zinc Recovery = 102.70%						
Argon	5440171.0	101.4 mg/L	0.59	101.4 mg/L	0.59	0.58%
Sodium†	2849885.8	10.51 mg/L	0.039	10.51 mg/L	0.039	0.37%
QC value greater than the upper limit for Sodium Recovery = 105.08%						
Magnesium†	233979.9	1.013 mg/L	0.0093	1.013 mg/L	0.0093	0.92%
QC value within limits for Magnesium Recovery = 101.32%						
Iron†	43385.3	1.010 mg/L	0.0104	1.010 mg/L	0.0104	1.03%
QC value within limits for Iron Recovery = 100.97%						
Calcium†	141736.1	1.016 mg/L	0.0132	1.016 mg/L	0.0132	1.30%
QC value within limits for Calcium Recovery = 101.64%						
Potassium†	1158260.1	10.15 mg/L	0.083	10.15 mg/L	0.083	0.82%
QC value within limits for Potassium Recovery = 101.52%						
Aluminum radial†	1805.1	1.011 mg/L	0.0132	1.011 mg/L	0.0132	1.31%
QC value within limits for Aluminum radial Recovery = 101.12%						
Calcium radial†	6138.1	1.033 mg/L	0.0069	1.033 mg/L	0.0069	0.67%
QC value within limits for Calcium radial Recovery = 103.27%						
Iron radial†	1671.9	1.023 mg/L	0.0061	1.023 mg/L	0.0061	0.60%
QC value within limits for Iron radial Recovery = 102.32%						
Magnesium radial†	9604.1	1.010 mg/L	0.0113	1.010 mg/L	0.0113	1.12%
QC value within limits for Magnesium radial Recovery = 101.05%						
Sodium radial†	36690.9	10.12 mg/L	0.146	10.12 mg/L	0.146	1.45%
QC value within limits for Sodium radial Recovery = 101.15%						
Potassium radial†	6930.7	10.12 mg/L	0.137	10.12 mg/L	0.137	1.35%
QC value within limits for Potassium radial Recovery = 101.17%						
Stonrium radial†	256066.1	0.4970 mg/L	0.00615	0.4970 mg/L	0.00615	1.24%
QC value within limits for Stonrium radial Recovery = 99.41%						

QC Failed. Continue with analysis.

Sequence No.: 2 **Autosampler Location: 101**
Sample ID: LLICV **Date Collected: 3/6/2011 2:14:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LLICV

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	674533.9	98.95	%	1.535				1.55%
Aluminum†	4781.3	0.1049	mg/L	0.00177	0.1049	mg/L	0.00177	1.68%
Antimony†	5.3	0.0030	mg/L	0.00463	0.0030	mg/L	0.00463	156.09%
Arsenic†	10.2	0.0118	mg/L	0.00087	0.0118	mg/L	0.00087	7.40%
Barium†	10978.1	0.1919	mg/L	0.00105	0.1919	mg/L	0.00105	0.55%
Berylliumt	172.9	-0.0009	mg/L	0.00008	-0.0009	mg/L	0.00008	8.72%
Boron†	70.2	0.0028	mg/L	0.00057	0.0028	mg/L	0.00057	20.15%
Cadmium†	160.1	0.0080	mg/L	0.00029	0.0080	mg/L	0.00029	3.55%
Chromium†	724.0	0.0090	mg/L	0.00013	0.0090	mg/L	0.00013	1.44%
Cobalt†	733.4	0.0487	mg/L	0.00067	0.0487	mg/L	0.00067	1.37%
Copper†	2595.4	0.0248	mg/L	0.00046	0.0248	mg/L	0.00046	1.86%
Lithium†	1023.9	-0.0026	mg/L	0.00007	-0.0026	mg/L	0.00007	2.49%
Manganese†	102.8	-0.0021	mg/L	0.00005	-0.0021	mg/L	0.00005	2.16%
Molybdenum†	-2.4	-0.0004	mg/L	0.00168	-0.0004	mg/L	0.00168	398.87%
Nickel†	621.6	0.0380	mg/L	0.00044	0.0380	mg/L	0.00044	1.17%
Lead†	18.7	0.0087	mg/L	0.00039	0.0087	mg/L	0.00039	4.52%
Selenium†	8.9	0.0205	mg/L	0.00082	0.0205	mg/L	0.00082	3.99%
Silver†	1349.8	0.0090	mg/L	0.00086	0.0090	mg/L	0.00086	9.55%
Strontium†	1109.7	-0.0010	mg/L	0.00003	-0.0010	mg/L	0.00003	3.24%
Tin†	1.7	0.0000	mg/L	0.00261	0.0000	mg/L	0.00261	>999.9%
Thallium†	0.4	-0.0021	mg/L	0.00585	-0.0021	mg/L	0.00585	273.58%
Titanium†	31.5	-0.0019	mg/L	0.00012	-0.0019	mg/L	0.00012	6.49%
Vanadium†	152.0	0.0024	mg/L	0.00062	0.0024	mg/L	0.00062	26.26%
Zinc†	282.2	0.0206	mg/L	0.00026	0.0206	mg/L	0.00026	1.24%
Argon	5323538.9	99.20	mg/L	0.339	99.20	mg/L	0.339	0.34%

Sodium†	1466.0	0.0762 mg/L	0.00042	0.0762 mg/L	0.00042	0.55%
Magnesium†	473711.4	2.051 mg/L	0.0129	2.051 mg/L	0.0129	0.63%
Iron†	4440.0	0.1011 mg/L	0.00090	0.1011 mg/L	0.00090	0.89%
Calcium†	28295.7	0.1862 mg/L	0.00070	0.1862 mg/L	0.00070	0.38%
Potassium†	37.7	0.0875 mg/L	0.00053	0.0875 mg/L	0.00053	0.60%
Aluminum radial†	163.0	0.0976 mg/L	0.01601	0.0976 mg/L	0.01601	16.40%
Calcium radial†	1237.3	0.1894 mg/L	0.00372	0.1894 mg/L	0.00372	1.97%
Iron radial†	180.8	0.1064 mg/L	0.00204	0.1064 mg/L	0.00204	1.92%
Magnesium radial†	20147.4	2.122 mg/L	0.0341	2.122 mg/L	0.0341	1.61%
Sodium radial†	164.0	0.0306 mg/L	0.05671	0.0306 mg/L	0.05671	185.47%
Potassium radial†	50.2	0.0506 mg/L	0.04588	0.0506 mg/L	0.04588	90.74%
Stonrium radial†	1415.8	0.0020 mg/L	0.00364	0.0020 mg/L	0.00364	181.90%

User canceled analysis.

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Analysis Begun

Start Time: 3/6/2011 2:16:59 PM **Plasma On Time: 3/6/2011 11:38:23 AM**
Logged In Analyst: LAFMETALS **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0052103Autosampler Model: Cetac

Sample Information File: C:\pe\lafmetals\Sample Information\6010 EXTRA.sif
Batch ID:
Results Data Set: 1103061355DV
Results Library: C:\pe\lafmetals\Results\Results.mdb

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Sequence No.: 3 **Autosampler Location: 8**
Sample ID: ICB **Date Collected: 3/6/2011 2:17:00 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Yttrium	659968.9	96.82	%	0.525				0.54%
Aluminum†	-71.4	-0.0069	mg/L	0.00097	-0.0069	mg/L	0.00097	14.13%
QC value within limits for Aluminum Recovery = Not calculated								
Antimony†	-0.4	-0.0039	mg/L	0.00755	-0.0039	mg/L	0.00755	191.95%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	3.0	0.0029	mg/L	0.00207	0.0029	mg/L	0.00207	71.32%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	-2.7	-0.0008	mg/L	0.00006	-0.0008	mg/L	0.00006	7.71%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	86.2	-0.0010	mg/L	0.00005	-0.0010	mg/L	0.00005	5.06%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	23.3	0.0009	mg/L	0.00009	0.0009	mg/L	0.00009	10.27%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	-7.8	-0.0017	mg/L	0.00051	-0.0017	mg/L	0.00051	29.70%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	20.5	-0.0008	mg/L	0.00029	-0.0008	mg/L	0.00029	37.22%
QC value within limits for Chromium Recovery = Not calculated								
Cobalt†	-1.4	-0.0022	mg/L	0.00038	-0.0022	mg/L	0.00038	17.63%
QC value within limits for Cobalt Recovery = Not calculated								
Copper†	-56.4	-0.0019	mg/L	0.00078	-0.0019	mg/L	0.00078	40.54%
QC value within limits for Copper Recovery = Not calculated								
Lithium†	272.1	-0.0027	mg/L	0.00001	-0.0027	mg/L	0.00001	0.52%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	15.4	-0.0023	mg/L	0.00003	-0.0023	mg/L	0.00003	1.30%
QC value within limits for Manganese Recovery = Not calculated								
Molybdenum†	-10.9	-0.0016	mg/L	0.00205	-0.0016	mg/L	0.00205	126.01%
QC value within limits for Molybdenum Recovery = Not calculated								
Nickel†	-3.9	-0.0022	mg/L	0.00064	-0.0022	mg/L	0.00064	29.13%
QC value within limits for Nickel Recovery = Not calculated								
Lead†	-4.8	-0.0027	mg/L	0.00522	-0.0027	mg/L	0.00522	193.20%

QC value within limits for Lead Recovery = Not calculated

Seleniumt	-1.6	-0.0016 mg/L	0.00946	-0.0016 mg/L	0.00946	601.73%

QC value within limits for Selenium Recovery = Not calculated

Silvert	-77.3	-0.0015 mg/L	0.00095	-0.0015 mg/L	0.00095	63.12%

QC value within limits for Silver Recovery = Not calculated

Strontiumt	18.5	-0.0011 mg/L	0.00000	-0.0011 mg/L	0.00000	0.44%

QC value within limits for Strontium Recovery = Not calculated

Tint	1.1	-0.0007 mg/L	0.00551	-0.0007 mg/L	0.00551	819.65%

QC value within limits for Tin Recovery = Not calculated

Thalliumt	7.0	0.0017 mg/L	0.00709	0.0017 mg/L	0.00709	412.53%

QC value within limits for Thallium Recovery = Not calculated

Titaniumt	-43.3	-0.0022 mg/L	0.00013	-0.0022 mg/L	0.00013	6.18%

QC value within limits for Titanium Recovery = Not calculated

Vanadiumt	-97.6	-0.0009 mg/L	0.00026	-0.0009 mg/L	0.00026	27.30%

QC value within limits for Vanadium Recovery = Not calculated

Zinct	3.5	-0.0010 mg/L	0.00076	-0.0010 mg/L	0.00076	73.27%

QC value within limits for Zinc Recovery = Not calculated

Argon	5191006.3	96.73 mg/L	0.122	96.73 mg/L	0.122	0.13%
Sodiumt	-8.3	0.0708 mg/L	0.00051	0.0708 mg/L	0.00051	0.71%

QC value within limits for Sodium Recovery = Not calculated

Magnesiumt	-32.0	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	150.51%

QC value within limits for Magnesium Recovery = Not calculated

Iront	-5.7	-0.0027 mg/L	0.00038	-0.0027 mg/L	0.00038	14.41%

QC value within limits for Iron Recovery = Not calculated

Calciumt	36.0	-0.0206 mg/L	0.00016	-0.0206 mg/L	0.00016	0.79%

QC value within limits for Calcium Recovery = Not calculated

Potassiumt	-235.9	0.0851 mg/L	0.00128	0.0851 mg/L	0.00128	1.50%

QC value within limits for Potassium Recovery = Not calculated

Aluminum radialt	-14.8	-0.0013 mg/L	0.00338	-0.0013 mg/L	0.00338	257.93%

QC value within limits for Aluminum radial Recovery = Not calculated

Calcium radialt	-9.1	-0.0251 mg/L	0.00443	-0.0251 mg/L	0.00443	17.65%

QC value within limits for Calcium radial Recovery = Not calculated

Iron radialt	2.6	-0.0031 mg/L	0.00140	-0.0031 mg/L	0.00140	44.92%

QC value within limits for Iron radial Recovery = Not calculated

Magnesium radialt	-0.6	-0.0023 mg/L	0.00076	-0.0023 mg/L	0.00076	32.65%

QC value within limits for Magnesium radial Recovery = Not calculated

Sodium radialt	-9.1	-0.0172 mg/L	0.00376	-0.0172 mg/L	0.00376	21.84%

QC value within limits for Sodium radial Recovery = Not calculated

Potassium radialt	1.0	-0.0215 mg/L	0.02505	-0.0215 mg/L	0.02505	116.48%

QC value within limits for Potassium radial Recovery = Not calculated

Stonrium radialt	0.6	-0.0008 mg/L	0.00002	-0.0008 mg/L	0.00002	3.21%

QC value within limits for Stonrium radial Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 4 **Autosampler Location: 1**
Sample ID: CCV **Date Collected: 3/6/2011 2:19:16 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	662575.2	97.20	%	1.569				1.61%
Aluminumt	21457.7	0.4889	mg/L	0.00672	0.4889	mg/L	0.00672	1.37%

QC value within limits for Aluminum Recovery = 97.79%

Antimonyt	397.8	0.4748	mg/L	0.00702	0.4748	mg/L	0.00702	1.48%

QC value within limits for Antimony Recovery = 94.95%

Arsenict	384.6	0.4844	mg/L	0.01305	0.4844	mg/L	0.01305	2.69%

QC value within limits for Arsenic Recovery = 96.89%

Bariumt	27534.9	0.4824	mg/L	0.00802	0.4824	mg/L	0.00802	1.66%

QC value within limits for Barium Recovery = 96.49%

Berylliumt	939258.7	0.4808	mg/L	0.00236	0.4808	mg/L	0.00236	0.49%

QC value within limits for Beryllium Recovery = 96.16%

Boront	11504.9	0.4796	mg/L	0.00606	0.4796	mg/L	0.00606	1.26%

QC value within limits for Boron Recovery = 95.92%					
Cadmium†	8389.0	0.4765 mg/L	0.00695	0.4765 mg/L	0.00695 1.46%
QC value within limits for Cadmium Recovery = 95.31%					
Chromium†	34909.0	0.4838 mg/L	0.00556	0.4838 mg/L	0.00556 1.15%
QC value within limits for Chromium Recovery = 96.76%					
Cobalt†	7018.6	0.4827 mg/L	0.00775	0.4827 mg/L	0.00775 1.61%
QC value within limits for Cobalt Recovery = 96.53%					
Copper†	48730.3	0.4897 mg/L	0.00534	0.4897 mg/L	0.00534 1.09%
QC value within limits for Copper Recovery = 97.94%					
Lithium†	3848705.0	0.4892 mg/L	0.00583	0.4892 mg/L	0.00583 1.19%
QC value within limits for Lithium Recovery = 97.84%					
Manganese†	214629.9	0.4846 mg/L	0.00275	0.4846 mg/L	0.00275 0.57%
QC value within limits for Manganese Recovery = 96.93%					
Molybdenum†	3424.0	0.4841 mg/L	0.00791	0.4841 mg/L	0.00791 1.63%
QC value within limits for Molybdenum Recovery = 96.82%					
Nickel†	7613.6	0.4872 mg/L	0.00757	0.4872 mg/L	0.00757 1.55%
QC value within limits for Nickel Recovery = 97.43%					
Lead†	990.7	0.4811 mg/L	0.01147	0.4811 mg/L	0.01147 2.38%
QC value within limits for Lead Recovery = 96.22%					
Selenium†	222.7	0.4693 mg/L	0.01235	0.4693 mg/L	0.01235 2.63%
QC value within limits for Selenium Recovery = 93.85%					
Silver†	66338.0	0.4920 mg/L	0.00636	0.4920 mg/L	0.00636 1.29%
QC value within limits for Silver Recovery = 98.40%					
Strontium†	3088266.3	0.2445 mg/L	0.00260	0.2445 mg/L	0.00260 1.07%
QC value within limits for Strontium Recovery = 97.79%					
Tin†	462.9	0.4833 mg/L	0.00691	0.4833 mg/L	0.00691 1.43%
QC value within limits for Tin Recovery = 96.66%					
Thallium†	836.0	0.4871 mg/L	0.01170	0.4871 mg/L	0.01170 2.40%
QC value within limits for Thallium Recovery = 97.42%					
Titanium†	107118.8	0.4750 mg/L	0.00512	0.4750 mg/L	0.00512 1.08%
QC value within limits for Titanium Recovery = 95.00%					
Vanadium†	34968.7	0.4845 mg/L	0.00552	0.4845 mg/L	0.00552 1.14%
QC value within limits for Vanadium Recovery = 96.90%					
Zinc†	6144.9	0.4754 mg/L	0.00700	0.4754 mg/L	0.00700 1.47%
QC value within limits for Zinc Recovery = 95.08%					
Argon	5130292.6	95.60 mg/L	0.344	95.60 mg/L	0.344 0.36%
Sodium†	1247670.0	4.640 mg/L	0.0186	4.640 mg/L	0.0186 0.40%
QC value within limits for Sodium Recovery = 92.80%					
Magnesium†	111520.1	0.4830 mg/L	0.00603	0.4830 mg/L	0.00603 1.25%
QC value within limits for Magnesium Recovery = 96.60%					
Iron†	20851.0	0.4840 mg/L	0.00572	0.4840 mg/L	0.00572 1.18%
QC value within limits for Iron Recovery = 96.79%					
Calcium†	67863.8	0.4758 mg/L	0.00784	0.4758 mg/L	0.00784 1.65%
QC value within limits for Calcium Recovery = 95.16%					
Potassium†	519996.3	4.606 mg/L	0.0189	4.606 mg/L	0.0189 0.41%
QC value within limits for Potassium Recovery = 92.11%					
Aluminum radial†	845.6	0.4774 mg/L	0.01400	0.4774 mg/L	0.01400 2.93%
QC value within limits for Aluminum radial Recovery = 95.48%					
Calcium radial†	2851.6	0.4672 mg/L	0.01146	0.4672 mg/L	0.01146 2.45%
QC value within limits for Calcium radial Recovery = 93.44%					
Iron radial†	786.5	0.4788 mg/L	0.00645	0.4788 mg/L	0.00645 1.35%
QC value within limits for Iron radial Recovery = 95.76%					
Magnesium radial†	4608.6	0.4837 mg/L	0.00776	0.4837 mg/L	0.00776 1.60%
QC value within limits for Magnesium radial Recovery = 96.74%					
Sodium radial†	17536.9	4.827 mg/L	0.0820	4.827 mg/L	0.0820 1.70%
QC value within limits for Sodium radial Recovery = 96.54%					
Potassium radial†	3284.4	4.782 mg/L	0.0763	4.782 mg/L	0.0763 1.60%
QC value within limits for Potassium radial Recovery = 95.65%					
Stonrium radial†	123074.8	0.2385 mg/L	0.00323	0.2385 mg/L	0.00323 1.36%
QC value within limits for Stonrium radial Recovery = 95.40%					

All analyte(s) passed QC.

Sequence No.: 5 **Autosampler Location: 101**
Sample ID: LLCCV **Date Collected: 3/6/2011 2:21:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow

All	163.0 kPa	0.65 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	678755.9	99.57	%	0.105				0.11%
Aluminumt	4693.0	0.1028	mg/L	0.00044	0.1028	mg/L	0.00044	0.43%
Antimonyt	3.4	0.0006	mg/L	0.00409	0.0006	mg/L	0.00409	722.64%
Arsenict	6.9	0.0077	mg/L	0.00220	0.0077	mg/L	0.00220	28.40%
Bariumt	10884.9	0.1903	mg/L	0.00108	0.1903	mg/L	0.00108	0.57%
Berylliumt	232.1	-0.0009	mg/L	0.00012	-0.0009	mg/L	0.00012	13.64%
Boront	35.9	0.0014	mg/L	0.00035	0.0014	mg/L	0.00035	25.29%
Cadmiumt	166.7	0.0085	mg/L	0.00038	0.0085	mg/L	0.00038	4.41%
Chromiumt	766.5	0.0096	mg/L	0.00043	0.0096	mg/L	0.00043	4.44%
Cobaltt	740.1	0.0491	mg/L	0.00024	0.0491	mg/L	0.00024	0.49%
Coppert	2507.6	0.0239	mg/L	0.00051	0.0239	mg/L	0.00051	2.13%
Lithiumt	860.8	-0.0027	mg/L	0.00007	-0.0027	mg/L	0.00007	2.82%
Manganeset	196.7	-0.0019	mg/L	0.00031	-0.0019	mg/L	0.00031	16.08%
Molybdenumt	-13.8	-0.0020	mg/L	0.00046	-0.0020	mg/L	0.00046	22.66%
Nickelt	640.7	0.0392	mg/L	0.00081	0.0392	mg/L	0.00081	2.06%
Leadt	13.3	0.0061	mg/L	0.00345	0.0061	mg/L	0.00345	56.87%
Seleniumt	9.4	0.0217	mg/L	0.00826	0.0217	mg/L	0.00826	37.97%
Silvert	1376.8	0.0092	mg/L	0.00082	0.0092	mg/L	0.00082	8.90%
Strontiumt	1200.4	-0.0010	mg/L	0.00007	-0.0010	mg/L	0.00007	6.57%
Tint	3.3	0.0016	mg/L	0.00131	0.0016	mg/L	0.00131	79.66%
Thalliumt	2.2	-0.0011	mg/L	0.00462	-0.0011	mg/L	0.00462	417.90%
Titaniumt	11.3	-0.0019	mg/L	0.00011	-0.0019	mg/L	0.00011	5.53%
Vanadiumt	24.7	0.0006	mg/L	0.00030	0.0006	mg/L	0.00030	49.12%
Zinct	278.7	0.0203	mg/L	0.00061	0.0203	mg/L	0.00061	2.99%
Argon	5180895.4	96.54	mg/L	0.062	96.54	mg/L	0.062	0.06%
Sodiumt	1285.3	0.0755	mg/L	0.00080	0.0755	mg/L	0.00080	1.06%
Magnesiumt	471495.6	2.042	mg/L	0.0085	2.042	mg/L	0.0085	0.42%
Iront	4438.0	0.1010	mg/L	0.00090	0.1010	mg/L	0.00090	0.89%
Calciumt	28208.0	0.1856	mg/L	0.00047	0.1856	mg/L	0.00047	0.26%
Potassiumt	44.8	0.0875	mg/L	0.00062	0.0875	mg/L	0.00062	0.70%
Aluminum radialt	171.6	0.1024	mg/L	0.01293	0.1024	mg/L	0.01293	12.63%
Calcium radialt	1196.6	0.1824	mg/L	0.00264	0.1824	mg/L	0.00264	1.45%
Iron radialt	178.3	0.1049	mg/L	0.00279	0.1049	mg/L	0.00279	2.66%
Magnesium radialt	19917.7	2.098	mg/L	0.0192	2.098	mg/L	0.0192	0.92%
Sodium radialt	35.6	-0.0049	mg/L	0.01028	-0.0049	mg/L	0.01028	210.68%
Potassium radialt	19.6	0.0058	mg/L	0.00998	0.0058	mg/L	0.00998	172.89%
Stonrium radialt	144.9	-0.0005	mg/L	0.00041	-0.0005	mg/L	0.00041	87.30%

Sequence No.: 6
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 3/6/2011 2:23:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	674687.7	98.98	%	2.020				2.04%
Aluminumt	-53.8	-0.0065	mg/L	0.00089	-0.0065	mg/L	0.00089	13.64%
QC value within limits for Aluminum Recovery = Not calculated								
Antimonyt	-3.4	-0.0076	mg/L	0.00552	-0.0076	mg/L	0.00552	72.47%
QC value within limits for Antimony Recovery = Not calculated								
Arsenict	1.1	0.0006	mg/L	0.00127	0.0006	mg/L	0.00127	219.98%
QC value within limits for Arsenic Recovery = Not calculated								
Bariumt	-4.8	-0.0008	mg/L	0.00012	-0.0008	mg/L	0.00012	14.03%
QC value within limits for Barium Recovery = Not calculated								
Berylliumt	24.5	-0.0010	mg/L	0.00004	-0.0010	mg/L	0.00004	3.93%
QC value within limits for Beryllium Recovery = Not calculated								
Boront	12.3	0.0004	mg/L	0.00070	0.0004	mg/L	0.00070	176.05%

QC value within limits for Boron Recovery = Not calculated

Cadmium†	-7.3	-0.0016 mg/L	0.00036	-0.0016 mg/L	0.00036	22.16%
QC value within limits for Cadmium Recovery = Not calculated						
Chromium†	3.2	-0.0010 mg/L	0.00027	-0.0010 mg/L	0.00027	26.27%
QC value within limits for Chromium Recovery = Not calculated						
Cobalt†	5.9	-0.0017 mg/L	0.00042	-0.0017 mg/L	0.00042	25.11%
QC value within limits for Cobalt Recovery = Not calculated						
Copper†	-68.6	-0.0020 mg/L	0.00121	-0.0020 mg/L	0.00121	59.19%
QC value within limits for Copper Recovery = Not calculated						
Lithium†	182.2	-0.0027 mg/L	0.00001	-0.0027 mg/L	0.00001	0.30%
QC value within limits for Lithium Recovery = Not calculated						
Manganese†	-10.9	-0.0024 mg/L	0.00003	-0.0024 mg/L	0.00003	1.26%
QC value within limits for Manganese Recovery = Not calculated						
Molybdenum†	-15.0	-0.0022 mg/L	0.00024	-0.0022 mg/L	0.00024	10.68%
QC value within limits for Molybdenum Recovery = Not calculated						
Nickel†	-1.8	-0.0020 mg/L	0.00141	-0.0020 mg/L	0.00141	68.89%
QC value within limits for Nickel Recovery = Not calculated						
Lead†	-1.8	-0.0013 mg/L	0.00237	-0.0013 mg/L	0.00237	187.96%
QC value within limits for Lead Recovery = Not calculated						
Selenium†	-4.1	-0.0067 mg/L	0.00637	-0.0067 mg/L	0.00637	95.21%
QC value within limits for Selenium Recovery = Not calculated						
Silver†	84.5	-0.0003 mg/L	0.00075	-0.0003 mg/L	0.00075	242.01%
QC value within limits for Silver Recovery = Not calculated						
Strontium†	66.4	-0.0011 mg/L	0.00000	-0.0011 mg/L	0.00000	0.14%
QC value within limits for Strontium Recovery = Not calculated						
Tin†	5.2	0.0036 mg/L	0.00143	0.0036 mg/L	0.00143	39.24%
QC value within limits for Tin Recovery = Not calculated						
Thallium†	8.8	0.0028 mg/L	0.00996	0.0028 mg/L	0.00996	358.06%
QC value within limits for Thallium Recovery = Not calculated						
Titanium†	-7.7	-0.0020 mg/L	0.00006	-0.0020 mg/L	0.00006	3.09%
QC value within limits for Titanium Recovery = Not calculated						
Vanadium†	-81.1	-0.0007 mg/L	0.00031	-0.0007 mg/L	0.00031	42.66%
QC value within limits for Vanadium Recovery = Not calculated						
Zinc†	5.2	-0.0009 mg/L	0.00027	-0.0009 mg/L	0.00027	29.89%
QC value within limits for Zinc Recovery = Not calculated						
Argon	5237164.8	97.59 mg/L	0.061	97.59 mg/L	0.061	0.06%
Sodium†	-94.4	0.0705 mg/L	0.00019	0.0705 mg/L	0.00019	0.27%
QC value within limits for Sodium Recovery = Not calculated						
Magnesium†	75.2	0.0005 mg/L	0.00017	0.0005 mg/L	0.00017	32.46%
QC value within limits for Magnesium Recovery = Not calculated						
Iron†	18.1	-0.0021 mg/L	0.00009	-0.0021 mg/L	0.00009	4.47%
QC value within limits for Iron Recovery = Not calculated						
Calcium†	-29.2	-0.0211 mg/L	0.00068	-0.0211 mg/L	0.00068	3.22%
QC value within limits for Calcium Recovery = Not calculated						
Potassium†	-216.0	0.0853 mg/L	0.00195	0.0853 mg/L	0.00195	2.29%
QC value within limits for Potassium Recovery = Not calculated						
Aluminum radial†	-21.2	-0.0048 mg/L	0.00502	-0.0048 mg/L	0.00502	103.66%
QC value within limits for Aluminum radial Recovery = Not calculated						
Calcium radial†	10.3	-0.0217 mg/L	0.00191	-0.0217 mg/L	0.00191	8.81%
QC value within limits for Calcium radial Recovery = Not calculated						
Iron radial†	5.4	-0.0014 mg/L	0.00120	-0.0014 mg/L	0.00120	85.27%
QC value within limits for Iron radial Recovery = Not calculated						
Magnesium radial†	4.9	-0.0017 mg/L	0.00126	-0.0017 mg/L	0.00126	72.46%
QC value within limits for Magnesium radial Recovery = Not calculated						
Sodium radial†	-3.5	-0.0157 mg/L	0.00136	-0.0157 mg/L	0.00136	8.66%
QC value within limits for Sodium radial Recovery = Not calculated						
Potassium radial†	17.0	0.0019 mg/L	0.02367	0.0019 mg/L	0.02367	>999.9%
QC value within limits for Potassium radial Recovery = Not calculated						
Stonrium radial†	-13.6	-0.0008 mg/L	0.00004	-0.0008 mg/L	0.00004	5.58%
QC value within limits for Stonrium radial Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 3/6/2011 2:25:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow

All 164.0 kPa 0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	624613.6	91.63	%	0.699				0.76%
Aluminumt	21463028.4	494.3	mg/L	4.33	494.3	mg/L	4.33	0.88%
Antimonyt	-20.3	0.0072	mg/L	0.00567	0.0072	mg/L	0.00567	78.79%
QC value within limits for Antimony Recovery = Not calculated								
Arsenict	33.3	0.0243	mg/L	0.00510	0.0243	mg/L	0.00510	20.98%
QC value within limits for Arsenic Recovery = Not calculated								
Bariumt	553.9	0.0090	mg/L	0.00024	0.0090	mg/L	0.00024	2.64%
QC value within limits for Barium Recovery = Not calculated								
Berylliumt	1225.2	-0.0004	mg/L	0.00007	-0.0004	mg/L	0.00007	18.06%
QC value within limits for Beryllium Recovery = Not calculated								
Boront	-363.3	0.0076	mg/L	0.00130	0.0076	mg/L	0.00130	17.06%
QC value within limits for Boron Recovery = Not calculated								
Cadmiumt	12.1	-0.0013	mg/L	0.00061	-0.0013	mg/L	0.00061	45.68%
QC value within limits for Cadmium Recovery = Not calculated								
Chromiumt	48.2	-0.0004	mg/L	0.00012	-0.0004	mg/L	0.00012	30.39%
QC value within limits for Chromium Recovery = Not calculated								
Cobaltt	84.6	0.0038	mg/L	0.00057	0.0038	mg/L	0.00057	14.85%
QC value within limits for Cobalt Recovery = Not calculated								
Coppert	-1443.8	-0.0073	mg/L	0.00014	-0.0073	mg/L	0.00014	1.94%
QC value within limits for Copper Recovery = Not calculated								
Lithiumt	3739.8	-0.0023	mg/L	0.00001	-0.0023	mg/L	0.00001	0.54%
QC value within limits for Lithium Recovery = Not calculated								
Manganeset	4922.5	0.0088	mg/L	0.00012	0.0088	mg/L	0.00012	1.42%
QC value within limits for Manganese Recovery = Not calculated								
Molybdenumt	-140.4	-0.0008	mg/L	0.00126	-0.0008	mg/L	0.00126	160.17%
QC value within limits for Molybdenum Recovery = Not calculated								
Nickelt	42.5	0.0008	mg/L	0.00056	0.0008	mg/L	0.00056	69.12%
QC value within limits for Nickel Recovery = Not calculated								
Leadt	-28.0	0.0056	mg/L	0.00284	0.0056	mg/L	0.00284	50.90%
QC value within limits for Lead Recovery = Not calculated								
Seleniumt	-91.8	-0.0055	mg/L	0.01961	-0.0055	mg/L	0.01961	359.40%
QC value within limits for Selenium Recovery = Not calculated								
Silvert	2729.9	0.0049	mg/L	0.00086	0.0049	mg/L	0.00086	17.58%
QC value within limits for Silver Recovery = Not calculated								
Strontiumt	22093.5	-0.0125	mg/L	0.00019	-0.0125	mg/L	0.00019	1.54%
QC value within limits for Strontium Recovery = Not calculated								
Tint	-63.2	-0.0137	mg/L	0.00093	-0.0137	mg/L	0.00093	6.81%
QC value within limits for Tin Recovery = Not calculated								
Thalliumt	-14.7	-0.0110	mg/L	0.00536	-0.0110	mg/L	0.00536	48.80%
QC value within limits for Thallium Recovery = Not calculated								
Titaniumt	-2500.3	-0.0131	mg/L	0.00030	-0.0131	mg/L	0.00030	2.29%
QC value within limits for Titanium Recovery = Not calculated								
Vanadiumt	8840.2	-0.0086	mg/L	0.00158	-0.0086	mg/L	0.00158	18.40%
QC value within limits for Vanadium Recovery = Not calculated								
Zinct	239.9	0.0173	mg/L	0.00076	0.0173	mg/L	0.00076	4.41%
QC value within limits for Zinc Recovery = Not calculated								
Argon	4919378.9	91.67	mg/L	0.117	91.67	mg/L	0.117	0.13%
Sodiumt	13345.2	0.1197	mg/L	0.00042	0.1197	mg/L	0.00042	0.35%
QC value within limits for Sodium Recovery = Not calculated								
Magnesiumt	75106321.0	325.2	mg/L	2.42	325.2	mg/L	2.42	0.74%
Iront	16233512.1	378.8	mg/L	3.42	378.8	mg/L	3.42	0.90%
Calciumt	65122498.2	476.6	mg/L	5.10	476.6	mg/L	5.10	1.07%
Potassiumt	1930.1	0.1039	mg/L	0.00211	0.1039	mg/L	0.00211	2.03%
Aluminum radialt	934241.5	519.8	mg/L	6.73	519.8	mg/L	6.73	1.29%
QC value within limits for Aluminum radial Recovery = 103.95%								
Calcium radialt	2964350.7	510.1	mg/L	7.26	510.1	mg/L	7.26	1.42%
QC value within limits for Calcium radial Recovery = 102.01%								
Iron radialt	788975.6	485.0	mg/L	6.82	485.0	mg/L	6.82	1.41%
QC value within limits for Iron radial Recovery = 97.01%								
Magnesium radialt	4243632.1	447.5	mg/L	5.94	447.5	mg/L	5.94	1.33%
QC value within limits for Magnesium radial Recovery = 89.49%								
Sodium radialt	95.2	0.0116	mg/L	0.02572	0.0116	mg/L	0.02572	222.41%
QC value within limits for Sodium radial Recovery = Not calculated								
Potassium radialt	57.6	0.0613	mg/L	0.05009	0.0613	mg/L	0.05009	81.74%
QC value within limits for Potassium radial Recovery = Not calculated								
Stonrium radialt	1096.3	0.0014	mg/L	0.00018	0.0014	mg/L	0.00018	12.91%

QC value within limits for Stonrium radial Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location:** 10
Sample ID: ICSAB **Date Collected:** 3/6/2011 2:27:33 PM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	621979.0	91.24	%	0.575				0.63%
Aluminum†	21064245.7	485.1	mg/L	1.45	485.1	mg/L	1.45	0.30%
Antimony†	8011.7	9.788	mg/L	0.0341	9.788	mg/L	0.0341	0.35%
QC value within limits for Antimony Recovery = 97.88%								
Arsenic†	8049.8	10.10	mg/L	0.061	10.10	mg/L	0.061	0.60%
QC value within limits for Arsenic Recovery = 101.02%								
Barium†	164528.8	2.886	mg/L	0.0222	2.886	mg/L	0.0222	0.77%
QC value within limits for Barium Recovery = 96.21%								
Beryllium†	1977016.6	1.013	mg/L	0.0062	1.013	mg/L	0.0062	0.61%
QC value within limits for Beryllium Recovery = 101.31%								
Boron†	119951.6	5.024	mg/L	0.0443	5.024	mg/L	0.0443	0.88%
QC value within limits for Boron Recovery = 100.49%								
Cadmium†	55949.7	3.040	mg/L	0.0161	3.040	mg/L	0.0161	0.53%
QC value within limits for Cadmium Recovery = 101.33%								
Chromium†	202119.8	2.806	mg/L	0.0193	2.806	mg/L	0.0193	0.69%
QC value within limits for Chromium Recovery = 93.54%								
Cobalt†	39668.1	2.724	mg/L	0.0144	2.724	mg/L	0.0144	0.53%
QC value within limits for Cobalt Recovery = 90.79%								
Copper†	300663.1	3.037	mg/L	0.0153	3.037	mg/L	0.0153	0.50%
QC value within limits for Copper Recovery = 101.23%								
Lithium†	3550.8	-0.0023	mg/L	0.00001	-0.0023	mg/L	0.00001	0.40%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	844448.5	1.914	mg/L	0.0117	1.914	mg/L	0.0117	0.61%
QC value within limits for Manganese Recovery = 95.69%								
Molybdenum†	20485.7	2.916	mg/L	0.0071	2.916	mg/L	0.0071	0.24%
QC value within limits for Molybdenum Recovery = 97.20%								
Nickel†	41907.9	2.690	mg/L	0.0089	2.690	mg/L	0.0089	0.33%
QC value within limits for Nickel Recovery = 89.67%								
Lead†	19049.2	9.277	mg/L	0.0612	9.277	mg/L	0.0612	0.66%
QC value within limits for Lead Recovery = 92.77%								
Selenium†	2238.6	4.885	mg/L	0.0192	4.885	mg/L	0.0192	0.39%
QC value within limits for Selenium Recovery = 97.70%								
Silver†	466635.9	3.449	mg/L	0.0223	3.449	mg/L	0.0223	0.65%
QC value within limits for Silver Recovery = 114.96%								
Strontium†	5967762.7	0.4602	mg/L	0.00450	0.4602	mg/L	0.00450	0.98%
QC value within limits for Strontium Recovery = 92.05%								
Tin†	388.5	0.4598	mg/L	0.00337	0.4598	mg/L	0.00337	0.73%
QC value within limits for Tin Recovery = 91.96%								
Thallium†	15663.2	9.168	mg/L	0.0270	9.168	mg/L	0.0270	0.30%
QC value within limits for Thallium Recovery = 91.68%								
Titanium†	2153846.3	9.589	mg/L	0.1035	9.589	mg/L	0.1035	1.08%
QC value within limits for Titanium Recovery = 95.89%								
Vanadium†	223573.8	2.964	mg/L	0.0213	2.964	mg/L	0.0213	0.72%
QC value within limits for Vanadium Recovery = 98.79%								
Zinc†	34376.8	2.666	mg/L	0.0214	2.666	mg/L	0.0214	0.80%
QC value within limits for Zinc Recovery = 88.85%								
Argon	4947277.7	92.19	mg/L	0.235	92.19	mg/L	0.235	0.25%
Sodium†	22179756.6	81.30	mg/L	0.588	81.30	mg/L	0.588	0.72%
Magnesium†	74727239.6	323.5	mg/L	2.81	323.5	mg/L	2.81	0.87%
Iron†	16090651.0	375.4	mg/L	3.56	375.4	mg/L	3.56	0.95%
Calcium†	64241199.0	470.1	mg/L	4.57	470.1	mg/L	4.57	0.97%
Potassium†	33430996.2	290.6	mg/L	2.87	290.6	mg/L	2.87	0.99%
Aluminum radial†	940996.3	523.5	mg/L	6.46	523.5	mg/L	6.46	1.23%

QC value within limits for Aluminum radial Recovery = 104.71%

Calcium radial†	2979135.7	512.6 mg/L	7.21	512.6 mg/L	7.21	1.41%

QC value within limits for Calcium radial Recovery = 102.52%

Iron radial†	797799.3	490.5 mg/L	7.03	490.5 mg/L	7.03	1.43%

QC value within limits for Iron radial Recovery = 98.09%

Magnesium radial†	4220651.9	445.1 mg/L	0.36	445.1 mg/L	0.36	0.08%

QC value within limits for Magnesium radial Recovery = 89.01%

Sodium radial†	185827.4	51.29 mg/L	0.377	51.29 mg/L	0.377	0.74%

QC value within limits for Sodium radial Recovery = 102.58%

Potassium radial†	147579.7	215.9 mg/L	1.89	215.9 mg/L	1.89	0.88%

QC value within limits for Potassium radial Recovery = 107.95%

Stonrium radial†	267337.6	0.5190 mg/L	0.00479	0.5190 mg/L	0.00479	0.92%

QC value within limits for Stonrium radial Recovery = 103.79%

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: RINSE BLANK
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 102
Date Collected: 3/6/2011 2:29:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: RINSE BLANK

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	699346.1	102.6	%	1.25				1.21%
Aluminum†	132194.2	3.039	mg/L	3.2305	3.039	mg/L	3.2305	106.29%
Antimony†	29.8	0.0336	mg/L	0.03368	0.0336	mg/L	0.03368	100.20%
Arsenic†	19.3	0.0234	mg/L	0.02637	0.0234	mg/L	0.02637	112.70%
Barium†	487.0	0.0078	mg/L	0.00823	0.0078	mg/L	0.00823	105.48%
Beryllium†	8932.9	0.0036	mg/L	0.00487	0.0036	mg/L	0.00487	136.46%
Boron†	708.5	0.0299	mg/L	0.02145	0.0299	mg/L	0.02145	71.75%
Cadmium†	131.0	0.0059	mg/L	0.00802	0.0059	mg/L	0.00802	135.18%
Chromium†	991.5	0.0127	mg/L	0.01418	0.0127	mg/L	0.01418	111.47%
Cobalt†	131.9	0.0070	mg/L	0.00838	0.0070	mg/L	0.00838	120.36%
Copper†	1330.1	0.0122	mg/L	0.01354	0.0122	mg/L	0.01354	110.81%
Lithium†	128.3	-0.0027	mg/L	0.00001	-0.0027	mg/L	0.00001	0.31%
Manganese†	4062.0	0.0068	mg/L	0.00967	0.0068	mg/L	0.00967	141.43%
Molybdenum†	51.6	0.0076	mg/L	0.00751	0.0076	mg/L	0.00751	98.86%
Nickel†	132.3	0.0066	mg/L	0.00800	0.0066	mg/L	0.00800	121.77%
Lead†	54.0	0.0263	mg/L	0.02784	0.0263	mg/L	0.02784	106.06%
Selenium†	4.5	0.0151	mg/L	0.00620	0.0151	mg/L	0.00620	41.09%
Silver†	11293.3	0.0822	mg/L	0.06181	0.0822	mg/L	0.06181	75.20%
Strontium†	36194.1	0.0015	mg/L	0.00306	0.0015	mg/L	0.00306	199.38%
Tin†	-0.9	-0.0017	mg/L	0.00381	-0.0017	mg/L	0.00381	218.99%
Thallium†	46.6	0.0249	mg/L	0.01697	0.0249	mg/L	0.01697	68.24%
Titanium†	9787.1	0.0416	mg/L	0.04562	0.0416	mg/L	0.04562	109.69%
Vanadium†	956.0	0.0112	mg/L	0.01646	0.0112	mg/L	0.01646	147.40%
Zinc†	130.6	0.0088	mg/L	0.00878	0.0088	mg/L	0.00878	99.47%
Argon	5374190.2	100.1	mg/L	0.29	100.1	mg/L	0.29	0.29%
Sodium†	59645.1	0.2893	mg/L	0.24697	0.2893	mg/L	0.24697	85.38%
Magnesium†	667942.5	2.892	mg/L	3.1218	2.892	mg/L	3.1218	107.94%
Iron†	129767.9	3.025	mg/L	3.2128	3.025	mg/L	3.2128	106.20%
Calcium†	397370.8	2.887	mg/L	3.1228	2.887	mg/L	3.1228	108.16%
Potassium†	92063.9	0.8872	mg/L	0.91614	0.8872	mg/L	0.91614	103.27%
Aluminum radial†	17276.8	9.619	mg/L	0.3270	9.619	mg/L	0.3270	3.40%
Calcium radial†	56067.8	9.624	mg/L	0.4238	9.624	mg/L	0.4238	4.40%
Iron radial†	16127.3	9.910	mg/L	0.3796	9.910	mg/L	0.3796	3.83%
Magnesium radial†	90341.2	9.524	mg/L	0.3751	9.524	mg/L	0.3751	3.94%
Sodium radial†	3046.3	0.8263	mg/L	0.05949	0.8263	mg/L	0.05949	7.20%
Potassium radial†	2256.0	3.278	mg/L	0.1639	3.278	mg/L	0.1639	5.00%
Stonrium radial†	4934.2	0.0088	mg/L	0.00044	0.0088	mg/L	0.00044	4.96%

Sequence No.: 10
Sample ID: RINSE BLANK

Autosampler Location: 103
Date Collected: 3/6/2011 2:31:12 PM

Molybdenum†	1502.1	0.2123 mg/L	0.00519	1.062 mg/L	0.0259	2.44%
Nickel†	3472.9	0.2212 mg/L	0.00404	1.106 mg/L	0.0202	1.82%
Lead†	463.6	0.2250 mg/L	0.00776	1.125 mg/L	0.0388	3.45%
Selenium†	104.7	0.2216 mg/L	0.00571	1.108 mg/L	0.0286	2.58%
Silver†	27944.7	0.2067 mg/L	0.00303	1.034 mg/L	0.0152	1.47%
Strontium†	1653543.1	0.1303 mg/L	0.00032	0.6513 mg/L	0.00162	0.25%
Tin†	-3.2	-0.0047 mg/L	0.00251	-0.0234 mg/L	0.01256	53.72%
Thallium†	368.3	0.2132 mg/L	0.00574	1.066 mg/L	0.0287	2.69%
Titanium†	49808.1	0.2198 mg/L	0.00249	1.099 mg/L	0.0124	1.13%
Vanadium†	15901.9	0.2204 mg/L	0.00442	1.102 mg/L	0.0221	2.01%
Zinc†	2916.7	0.2250 mg/L	0.00490	1.125 mg/L	0.0245	2.18%
Argon	5624241.4	104.8 mg/L	0.39	524.0 mg/L	1.93	0.37%
Sodium†	2124799.6	7.852 mg/L	0.0106	39.26 mg/L	0.053	0.13%
Magnesium†	520874.7	2.255 mg/L	0.0046	11.28 mg/L	0.023	0.20%
Iron†	13398.2	0.3101 mg/L	0.00409	1.550 mg/L	0.0205	1.32%
Calcium†	641717.6	4.676 mg/L	0.0017	23.38 mg/L	0.009	0.04%
Potassium†	272849.6	2.458 mg/L	0.0168	12.29 mg/L	0.084	0.68%
Aluminum radial†	691.5	0.3917 mg/L	0.00682	1.958 mg/L	0.0341	1.74%
Calcium radial†	28343.6	4.854 mg/L	0.1585	24.27 mg/L	0.793	3.27%
Iron radial†	532.2	0.3224 mg/L	0.01276	1.612 mg/L	0.0638	3.96%
Magnesium radial†	21930.5	2.310 mg/L	0.0683	11.55 mg/L	0.342	2.96%
Sodium radial†	29286.8	8.071 mg/L	0.1969	40.35 mg/L	0.985	2.44%
Potassium radial†	1747.0	2.533 mg/L	0.1520	12.66 mg/L	0.760	6.00%
Stonrium radial†	67552.4	0.1306 mg/L	0.00306	0.6528 mg/L	0.01528	2.34%

Sequence No.: 177 **Autosampler Location: 1**
Sample ID: CCV **Date Collected: 3/6/2011 8:55:29 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Yttrium	696605.1	102.2	%	1.57				1.54%
Aluminum†	21992.1	0.5012	mg/L	0.00594	0.5012	mg/L	0.00594	1.19%
QC value within limits for Aluminum Recovery = 100.25%								
Antimony†	405.3	0.4838	mg/L	0.00375	0.4838	mg/L	0.00375	0.78%
QC value within limits for Antimony Recovery = 96.75%								
Arsenic†	399.3	0.5030	mg/L	0.01612	0.5030	mg/L	0.01612	3.21%
QC value within limits for Arsenic Recovery = 100.59%								
Barium†	28300.8	0.4959	mg/L	0.00466	0.4959	mg/L	0.00466	0.94%
QC value within limits for Barium Recovery = 99.18%								
Beryllium†	973836.4	0.4985	mg/L	0.00096	0.4985	mg/L	0.00096	0.19%
QC value within limits for Beryllium Recovery = 99.71%								
Boron†	11858.6	0.4943	mg/L	0.00682	0.4943	mg/L	0.00682	1.38%
QC value within limits for Boron Recovery = 98.87%								
Cadmium†	8539.8	0.4849	mg/L	0.00554	0.4849	mg/L	0.00554	1.14%
QC value within limits for Cadmium Recovery = 96.99%								
Chromium†	35714.0	0.4950	mg/L	0.00540	0.4950	mg/L	0.00540	1.09%
QC value within limits for Chromium Recovery = 99.00%								
Cobalt†	7249.7	0.4986	mg/L	0.00704	0.4986	mg/L	0.00704	1.41%
QC value within limits for Cobalt Recovery = 99.72%								
Copper†	48005.6	0.4824	mg/L	0.00722	0.4824	mg/L	0.00722	1.50%
QC value within limits for Copper Recovery = 96.48%								
Lithium†	3835083.1	0.4874	mg/L	0.00727	0.4874	mg/L	0.00727	1.49%
QC value within limits for Lithium Recovery = 97.49%								
Manganese†	220168.0	0.4972	mg/L	0.00067	0.4972	mg/L	0.00067	0.13%
QC value within limits for Manganese Recovery = 99.44%								
Molybdenum†	3400.6	0.4808	mg/L	0.00930	0.4808	mg/L	0.00930	1.93%
QC value within limits for Molybdenum Recovery = 96.16%								
Nickel†	7861.6	0.5031	mg/L	0.00660	0.5031	mg/L	0.00660	1.31%
QC value within limits for Nickel Recovery = 100.62%								
Lead†	1045.8	0.5079	mg/L	0.01206	0.5079	mg/L	0.01206	2.38%
QC value within limits for Lead Recovery = 101.58%								

Seleniumt	233.3	0.4915 mg/L	0.01175	0.4915 mg/L	0.01175	2.39%
QC value within limits for Selenium Recovery = 98.30%						
Silvert	65648.4	0.4869 mg/L	0.00590	0.4869 mg/L	0.00590	1.21%
QC value within limits for Silver Recovery = 97.39%						
Strontiumt	3170375.7	0.2510 mg/L	0.00359	0.2510 mg/L	0.00359	1.43%
QC value within limits for Strontium Recovery = 100.40%						
Tint	498.1	0.5202 mg/L	0.01134	0.5202 mg/L	0.01134	2.18%
QC value within limits for Tin Recovery = 104.04%						
Thalliumt	835.2	0.4866 mg/L	0.01009	0.4866 mg/L	0.01009	2.07%
QC value within limits for Thallium Recovery = 97.32%						
Titaniumt	113211.2	0.5022 mg/L	0.00348	0.5022 mg/L	0.00348	0.69%
QC value within limits for Titanium Recovery = 100.43%						
Vanadiumt	35165.8	0.4872 mg/L	0.00725	0.4872 mg/L	0.00725	1.49%
QC value within limits for Vanadium Recovery = 97.44%						
Zinct	6456.8	0.4996 mg/L	0.00912	0.4996 mg/L	0.00912	1.82%
QC value within limits for Zinc Recovery = 99.92%						
Argon	5577554.3	103.9 mg/L	0.14	103.9 mg/L	0.14	0.14%
Sodiumt	1259875.7	4.685 mg/L	0.0189	4.685 mg/L	0.0189	0.40%
QC value within limits for Sodium Recovery = 93.70%						
Magnesiumt	111615.6	0.4834 mg/L	0.00657	0.4834 mg/L	0.00657	1.36%
QC value within limits for Magnesium Recovery = 96.69%						
Iront	21354.6	0.4957 mg/L	0.00688	0.4957 mg/L	0.00688	1.39%
QC value within limits for Iron Recovery = 99.14%						
Calciumt	70029.4	0.4916 mg/L	0.00662	0.4916 mg/L	0.00662	1.35%
QC value within limits for Calcium Recovery = 98.33%						
Potassiumt	525857.5	4.657 mg/L	0.0165	4.657 mg/L	0.0165	0.35%
QC value within limits for Potassium Recovery = 93.13%						
Aluminum radialt	861.6	0.4863 mg/L	0.01930	0.4863 mg/L	0.01930	3.97%
QC value within limits for Aluminum radial Recovery = 97.26%						
Calcium radialt	3139.7	0.5168 mg/L	0.01288	0.5168 mg/L	0.01288	2.49%
QC value within limits for Calcium radial Recovery = 103.35%						
Iron radialt	862.0	0.5252 mg/L	0.01123	0.5252 mg/L	0.01123	2.14%
QC value within limits for Iron radial Recovery = 105.04%						
Magnesium radialt	4826.3	0.5067 mg/L	0.01270	0.5067 mg/L	0.01270	2.51%
QC value within limits for Magnesium radial Recovery = 101.33%						
Sodium radialt	17745.9	4.885 mg/L	0.0695	4.885 mg/L	0.0695	1.42%
QC value within limits for Sodium radial Recovery = 97.69%						
Potassium radialt	3392.6	4.941 mg/L	0.0716	4.941 mg/L	0.0716	1.45%
QC value within limits for Potassium radial Recovery = 98.81%						
Stonrium radialt	128430.9	0.2489 mg/L	0.00277	0.2489 mg/L	0.00277	1.11%
QC value within limits for Stonrium radial Recovery = 99.57%						

All analyte(s) passed QC.

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Sequence No.: 178 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 3/6/2011 8:57:34 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	689621.0	101.2	%	1.32				1.31%
Aluminumt	363.4	0.0031	mg/L	0.00122	0.0031	mg/L	0.00122	39.29%
QC value within limits for Aluminum Recovery = Not calculated								
Antimonyt	9.6	0.0084	mg/L	0.00651	0.0084	mg/L	0.00651	77.45%
QC value within limits for Antimony Recovery = Not calculated								
Arsenict	-0.8	-0.0019	mg/L	0.00280	-0.0019	mg/L	0.00280	149.54%
QC value within limits for Arsenic Recovery = Not calculated								
Bariumt	8.5	-0.0006	mg/L	0.00007	-0.0006	mg/L	0.00007	12.40%
QC value within limits for Barium Recovery = Not calculated								
Berylliumt	87.5	-0.0010	mg/L	0.00004	-0.0010	mg/L	0.00004	4.35%
QC value within limits for Beryllium Recovery = Not calculated								
Boront	85.4	0.0034	mg/L	0.00046	0.0034	mg/L	0.00046	13.30%
QC value within limits for Boron Recovery = Not calculated								

Cadmium†	-0.4	-0.0012 mg/L	0.00034	-0.0012 mg/L	0.00034	28.58%
QC value within limits for Cadmium Recovery = Not calculated						
Chromium†	31.3	-0.0006 mg/L	0.00066	-0.0006 mg/L	0.00066	106.76%
QC value within limits for Chromium Recovery = Not calculated						
Cobalt†	5.3	-0.0017 mg/L	0.00046	-0.0017 mg/L	0.00046	27.02%
QC value within limits for Cobalt Recovery = Not calculated						
Copper†	58.1	-0.0008 mg/L	0.00013	-0.0008 mg/L	0.00013	17.14%
QC value within limits for Copper Recovery = Not calculated						
Lithium†	-107.9	-0.0028 mg/L	0.00002	-0.0028 mg/L	0.00002	0.76%
QC value within limits for Lithium Recovery = Not calculated						
Manganese†	27.7	-0.0023 mg/L	0.00017	-0.0023 mg/L	0.00017	7.39%
QC value within limits for Manganese Recovery = Not calculated						
Molybdenum†	2.0	0.0002 mg/L	0.00038	0.0002 mg/L	0.00038	203.17%
QC value within limits for Molybdenum Recovery = Not calculated						
Nickel†	7.5	-0.0014 mg/L	0.00014	-0.0014 mg/L	0.00014	9.39%
QC value within limits for Nickel Recovery = Not calculated						
Lead†	-6.5	-0.0035 mg/L	0.00086	-0.0035 mg/L	0.00086	24.55%
QC value within limits for Lead Recovery = Not calculated						
Selenium†	-1.8	-0.0018 mg/L	0.01005	-0.0018 mg/L	0.01005	554.11%
QC value within limits for Selenium Recovery = Not calculated						
Silver†	-144.3	-0.0020 mg/L	0.00049	-0.0020 mg/L	0.00049	24.82%
QC value within limits for Silver Recovery = Not calculated						
Strontium†	799.2	-0.0010 mg/L	0.00002	-0.0010 mg/L	0.00002	2.19%
QC value within limits for Strontium Recovery = Not calculated						
Tin†	-0.3	-0.0022 mg/L	0.00208	-0.0022 mg/L	0.00208	95.71%
QC value within limits for Tin Recovery = Not calculated						
Thallium†	-2.1	-0.0036 mg/L	0.00343	-0.0036 mg/L	0.00343	94.41%
QC value within limits for Thallium Recovery = Not calculated						
Titanium†	20.5	-0.0019 mg/L	0.00015	-0.0019 mg/L	0.00015	7.76%
QC value within limits for Titanium Recovery = Not calculated						
Vanadium†	106.5	0.0019 mg/L	0.00106	0.0019 mg/L	0.00106	56.58%
QC value within limits for Vanadium Recovery = Not calculated						
Zinc†	13.4	-0.0003 mg/L	0.00013	-0.0003 mg/L	0.00013	51.41%
QC value within limits for Zinc Recovery = Not calculated						
Argon	5527119.1	103.0 mg/L	0.25	103.0 mg/L	0.25	0.24%
Sodium†	1012.4	0.0745 mg/L	0.00017	0.0745 mg/L	0.00017	0.23%
QC value within limits for Sodium Recovery = Not calculated						
Magnesium†	103.3	0.0006 mg/L	0.00031	0.0006 mg/L	0.00031	48.84%
QC value within limits for Magnesium Recovery = Not calculated						
Iron†	32.5	-0.0018 mg/L	0.00007	-0.0018 mg/L	0.00007	3.77%
QC value within limits for Iron Recovery = Not calculated						
Calcium†	273.7	-0.0189 mg/L	0.00022	-0.0189 mg/L	0.00022	1.18%
QC value within limits for Calcium Recovery = Not calculated						
Potassium†	376.1	0.0904 mg/L	0.00106	0.0904 mg/L	0.00106	1.18%
QC value within limits for Potassium Recovery = Not calculated						
Aluminum radial†	-44.7	-0.0179 mg/L	0.00776	-0.0179 mg/L	0.00776	43.32%
QC value within limits for Aluminum radial Recovery = Not calculated						
Calcium radial†	21.4	-0.0198 mg/L	0.00376	-0.0198 mg/L	0.00376	18.95%
QC value within limits for Calcium radial Recovery = Not calculated						
Iron radial†	7.7	0.0000 mg/L	0.00062	0.0000 mg/L	0.00062	>999.9%
QC value within limits for Iron radial Recovery = Not calculated						
Magnesium radial†	-0.2	-0.0023 mg/L	0.00057	-0.0023 mg/L	0.00057	25.17%
QC value within limits for Magnesium radial Recovery = Not calculated						
Sodium radial†	53.3	0.0000 mg/L	0.00768	0.0000 mg/L	0.00768	>999.9%
QC value within limits for Sodium radial Recovery = Not calculated						
Potassium radial†	11.1	-0.0066 mg/L	0.01297	-0.0066 mg/L	0.01297	196.00%
QC value within limits for Potassium radial Recovery = Not calculated						
Stonrium radial†	35.4	-0.0007 mg/L	0.00003	-0.0007 mg/L	0.00003	5.00%
QC value within limits for Stonrium radial Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 179
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 3/6/2011 8:59:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	633920.4	93.00	%	0.789				0.85%
Aluminum†	21949351.4	505.5	mg/L	7.96	505.5	mg/L	7.96	1.58%
Antimony†	-10.5	0.0222	mg/L	0.01109	0.0222	mg/L	0.01109	49.96%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	40.5	0.0334	mg/L	0.01069	0.0334	mg/L	0.01069	32.06%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	540.7	0.0087	mg/L	0.00013	0.0087	mg/L	0.00013	1.48%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	1336.8	-0.0003	mg/L	0.00006	-0.0003	mg/L	0.00006	19.19%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	-336.3	0.0107	mg/L	0.00136	0.0107	mg/L	0.00136	12.78%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	21.4	-0.0010	mg/L	0.00024	-0.0010	mg/L	0.00024	24.12%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	43.3	-0.0005	mg/L	0.00004	-0.0005	mg/L	0.00004	8.93%
QC value within limits for Chromium Recovery = Not calculated								
Cobalt†	86.6	0.0039	mg/L	0.00057	0.0039	mg/L	0.00057	14.47%
QC value within limits for Cobalt Recovery = Not calculated								
Copper†	-1424.3	-0.0063	mg/L	0.00036	-0.0063	mg/L	0.00036	5.73%
QC value within limits for Copper Recovery = Not calculated								
Lithium†	3082.3	-0.0024	mg/L	0.00001	-0.0024	mg/L	0.00001	0.60%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	4916.7	0.0088	mg/L	0.00011	0.0088	mg/L	0.00011	1.24%
QC value within limits for Manganese Recovery = Not calculated								
Molybdenum†	-148.8	-0.0004	mg/L	0.00266	-0.0004	mg/L	0.00266	720.02%
QC value within limits for Molybdenum Recovery = Not calculated								
Nickel†	34.1	0.0003	mg/L	0.00091	0.0003	mg/L	0.00091	342.23%
QC value within limits for Nickel Recovery = Not calculated								
Lead†	-21.9	0.0095	mg/L	0.00223	0.0095	mg/L	0.00223	23.61%
QC value within limits for Lead Recovery = Not calculated								
Selenium†	-85.1	0.0238	mg/L	0.00990	0.0238	mg/L	0.00990	41.68%
QC value within limits for Selenium Recovery = Not calculated								
Silver†	2667.2	0.0032	mg/L	0.00126	0.0032	mg/L	0.00126	39.35%
QC value within limits for Silver Recovery = Not calculated								
Strontium†	22681.3	-0.0136	mg/L	0.00003	-0.0136	mg/L	0.00003	0.25%
QC value within limits for Strontium Recovery = Not calculated								
Tin†	-67.5	-0.0136	mg/L	0.00652	-0.0136	mg/L	0.00652	47.98%
QC value within limits for Tin Recovery = Not calculated								
Thallium†	-0.6	-0.0027	mg/L	0.00627	-0.0027	mg/L	0.00627	229.96%
QC value within limits for Thallium Recovery = Not calculated								
Titanium†	-2413.3	-0.0127	mg/L	0.00010	-0.0127	mg/L	0.00010	0.79%
QC value within limits for Titanium Recovery = Not calculated								
Vanadium†	9571.2	-0.0083	mg/L	0.00169	-0.0083	mg/L	0.00169	20.21%
QC value within limits for Vanadium Recovery = Not calculated								
Zinc†	207.3	0.0148	mg/L	0.00071	0.0148	mg/L	0.00071	4.82%
QC value within limits for Zinc Recovery = Not calculated								
Argon	5163632.1	96.22	mg/L	0.202	96.22	mg/L	0.202	0.21%
Sodium†	13322.8	0.1196	mg/L	0.00018	0.1196	mg/L	0.00018	0.15%
QC value within limits for Sodium Recovery = Not calculated								
Magnesium†	76722534.3	332.2	mg/L	3.85	332.2	mg/L	3.85	1.16%
Iron†	16769173.7	391.3	mg/L	5.29	391.3	mg/L	5.29	1.35%
Calcium†	67820956.3	496.3	mg/L	7.11	496.3	mg/L	7.11	1.43%
Potassium†	2195.3	0.1062	mg/L	0.00151	0.1062	mg/L	0.00151	1.42%
Aluminum radial†	977817.4	544.0	mg/L	2.52	544.0	mg/L	2.52	0.46%
QC value within limits for Aluminum radial Recovery = 108.80%								
Calcium radial†	3216864.1	553.5	mg/L	1.51	553.5	mg/L	1.51	0.27%
QC value within limits for Calcium radial Recovery = 110.70%								
Iron radial†	855220.4	525.8	mg/L	1.86	525.8	mg/L	1.86	0.35%
QC value within limits for Iron radial Recovery = 105.15%								
Magnesium radial†	4386817.7	462.6	mg/L	1.63	462.6	mg/L	1.63	0.35%
QC value within limits for Magnesium radial Recovery = 92.51%								
Sodium radial†	133.4	0.0221	mg/L	0.01258	0.0221	mg/L	0.01258	56.87%
QC value within limits for Sodium radial Recovery = Not calculated								
Potassium radial†	43.8	0.0411	mg/L	0.06657	0.0411	mg/L	0.06657	161.84%
QC value within limits for Potassium radial Recovery = Not calculated								
Stonrium radial†	1083.6	0.0014	mg/L	0.00002	0.0014	mg/L	0.00002	1.18%
QC value within limits for Stonrium radial Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 180 **Autosampler Location: 10**
Sample ID: ICSAB **Date Collected: 3/6/2011 9:01:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	629110.9	92.29	%	0.603				0.65%
Aluminum†	21531927.8	495.9	mg/L	6.31	495.9	mg/L	6.31	1.27%
Antimony†	8097.5	9.893	mg/L	0.0363	9.893	mg/L	0.0363	0.37%
QC value within limits for Antimony Recovery = 98.93%								
Arsenic†	8224.7	10.32	mg/L	0.033	10.32	mg/L	0.033	0.32%
QC value within limits for Arsenic Recovery = 103.22%								
Barium†	169941.5	2.981	mg/L	0.0041	2.981	mg/L	0.0041	0.14%
QC value within limits for Barium Recovery = 99.38%								
Beryllium†	2031478.5	1.041	mg/L	0.0016	1.041	mg/L	0.0016	0.16%
QC value within limits for Beryllium Recovery = 104.11%								
Boron†	123828.4	5.187	mg/L	0.0041	5.187	mg/L	0.0041	0.08%
QC value within limits for Boron Recovery = 103.74%								
Cadmium†	57183.9	3.107	mg/L	0.0060	3.107	mg/L	0.0060	0.19%
QC value within limits for Cadmium Recovery = 103.57%								
Chromium†	208375.8	2.893	mg/L	0.0069	2.893	mg/L	0.0069	0.24%
QC value within limits for Chromium Recovery = 96.44%								
Cobalt†	40705.7	2.794	mg/L	0.0051	2.794	mg/L	0.0051	0.18%
QC value within limits for Cobalt Recovery = 93.15%								
Copper†	303568.2	3.067	mg/L	0.0015	3.067	mg/L	0.0015	0.05%
QC value within limits for Copper Recovery = 102.22%								
Lithium†	2801.6	-0.0024	mg/L	0.00002	-0.0024	mg/L	0.00002	0.79%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	859476.6	1.948	mg/L	0.0025	1.948	mg/L	0.0025	0.13%
QC value within limits for Manganese Recovery = 97.39%								
Molybdenum†	20204.1	2.877	mg/L	0.0056	2.877	mg/L	0.0056	0.19%
QC value within limits for Molybdenum Recovery = 95.91%								
Nickel†	42894.5	2.754	mg/L	0.0025	2.754	mg/L	0.0025	0.09%
QC value within limits for Nickel Recovery = 91.79%								
Lead†	19697.0	9.592	mg/L	0.0267	9.592	mg/L	0.0267	0.28%
QC value within limits for Lead Recovery = 95.92%								
Selenium†	2329.0	5.084	mg/L	0.0299	5.084	mg/L	0.0299	0.59%
QC value within limits for Selenium Recovery = 101.68%								
Silver†	446722.7	3.302	mg/L	0.0163	3.302	mg/L	0.0163	0.49%
QC value within limits for Silver Recovery = 110.05%								
Strontium†	6090133.7	0.4692	mg/L	0.00612	0.4692	mg/L	0.00612	1.30%
QC value within limits for Strontium Recovery = 93.84%								
Tin†	405.2	0.4805	mg/L	0.00636	0.4805	mg/L	0.00636	1.32%
QC value within limits for Tin Recovery = 96.10%								
Thallium†	15460.2	9.049	mg/L	0.0369	9.049	mg/L	0.0369	0.41%
QC value within limits for Thallium Recovery = 90.49%								
Titanium†	2271802.5	10.11	mg/L	0.007	10.11	mg/L	0.007	0.07%
QC value within limits for Titanium Recovery = 101.15%								
Vanadium†	227209.6	3.008	mg/L	0.0028	3.008	mg/L	0.0028	0.09%
QC value within limits for Vanadium Recovery = 100.26%								
Zinc†	35686.3	2.767	mg/L	0.0058	2.767	mg/L	0.0058	0.21%
QC value within limits for Zinc Recovery = 92.24%								
Argon	5170612.2	96.35	mg/L	0.476	96.35	mg/L	0.476	0.49%
Sodium†	22395086.8	82.09	mg/L	2.429	82.09	mg/L	2.429	2.96%
Magnesium†	76184205.9	329.8	mg/L	2.99	329.8	mg/L	2.99	0.91%
Iron†	16540248.3	385.9	mg/L	4.00	385.9	mg/L	4.00	1.04%
Calcium†	66583116.1	487.3	mg/L	5.36	487.3	mg/L	5.36	1.10%
Potassium†	33953882.9	295.1	mg/L	3.27	295.1	mg/L	3.27	1.11%
Aluminum radial†	957340.0	532.6	mg/L	3.73	532.6	mg/L	3.73	0.70%
QC value within limits for Aluminum radial Recovery = 106.52%								

Calcium radial†	3149941.2	542.0 mg/L	3.36	542.0 mg/L	3.36	0.62%
QC value within limits for Calcium radial Recovery = 108.40%						
Iron radial†	838860.7	515.7 mg/L	3.18	515.7 mg/L	3.18	0.62%
QC value within limits for Iron radial Recovery = 103.14%						
Magnesium radial†	4280191.5	451.3 mg/L	2.61	451.3 mg/L	2.61	0.58%
QC value within limits for Magnesium radial Recovery = 90.27%						
Sodium radial†	188721.3	52.09 mg/L	0.312	52.09 mg/L	0.312	0.60%
QC value within limits for Sodium radial Recovery = 104.18%						
Potassium radial†	151800.9	222.1 mg/L	1.20	222.1 mg/L	1.20	0.54%
QC value within limits for Potassium radial Recovery = 111.04%						
Stonrium radial†	274204.6	0.5323 mg/L	0.00382	0.5323 mg/L	0.00382	0.72%
QC value within limits for Stonrium radial Recovery = 106.46%						

All analyte(s) passed QC.

Sequence No.: 181
Sample ID: RINSE BLANK
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 432
Date Collected: 3/6/2011 9:03:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: RINSE BLANK

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	695284.1	102.0	%	1.20				1.18%
Aluminum†	893.3	0.0153	mg/L	0.00439	0.0153	mg/L	0.00439	28.69%
Antimony†	8.1	0.0065	mg/L	0.00239	0.0065	mg/L	0.00239	36.70%
Arsenic†	2.1	0.0018	mg/L	0.00574	0.0018	mg/L	0.00574	318.89%
Barium†	28.6	-0.0002	mg/L	0.00013	-0.0002	mg/L	0.00013	54.79%
Beryllium†	44.6	-0.0010	mg/L	0.00005	-0.0010	mg/L	0.00005	5.35%
Boron†	238.1	0.0098	mg/L	0.00035	0.0098	mg/L	0.00035	3.59%
Cadmium†	-2.2	-0.0014	mg/L	0.00035	-0.0014	mg/L	0.00035	25.54%
Chromium†	-16.3	-0.0013	mg/L	0.00033	-0.0013	mg/L	0.00033	25.48%
Cobalt†	-1.1	-0.0021	mg/L	0.00018	-0.0021	mg/L	0.00018	8.51%
Copper†	58.8	-0.0008	mg/L	0.00058	-0.0008	mg/L	0.00058	76.71%
Lithium†	-521.8	-0.0028	mg/L	0.00001	-0.0028	mg/L	0.00001	0.35%
Manganese†	-27.9	-0.0024	mg/L	0.00003	-0.0024	mg/L	0.00003	1.20%
Molybdenum†	-10.1	-0.0015	mg/L	0.00091	-0.0015	mg/L	0.00091	60.09%
Nickel†	3.8	-0.0017	mg/L	0.00011	-0.0017	mg/L	0.00011	6.36%
Lead†	0.3	-0.0002	mg/L	0.00143	-0.0002	mg/L	0.00143	623.22%
Selenium†	0.7	0.0033	mg/L	0.00819	0.0033	mg/L	0.00819	249.31%
Silver†	1227.4	0.0081	mg/L	0.00310	0.0081	mg/L	0.00310	38.12%
Strontium†	801.6	-0.0010	mg/L	0.00000	-0.0010	mg/L	0.00000	0.46%
Tin†	-0.8	-0.0026	mg/L	0.00182	-0.0026	mg/L	0.00182	69.17%
Thallium†	-1.2	-0.0031	mg/L	0.00225	-0.0031	mg/L	0.00225	72.87%
Titanium†	41.5	-0.0018	mg/L	0.00010	-0.0018	mg/L	0.00010	5.31%
Vanadium†	78.6	0.0015	mg/L	0.00090	0.0015	mg/L	0.00090	60.45%
Zinc†	42.7	0.0020	mg/L	0.00045	0.0020	mg/L	0.00045	22.20%
Argon	5564848.5	103.7	mg/L	0.14	103.7	mg/L	0.14	0.14%
Sodium†	389.3	0.0723	mg/L	0.00023	0.0723	mg/L	0.00023	0.32%
Magnesium†	1098.9	0.0050	mg/L	0.00168	0.0050	mg/L	0.00168	33.87%
Iron†	491.4	0.0089	mg/L	0.01126	0.0089	mg/L	0.01126	125.89%
Calcium†	885.8	-0.0144	mg/L	0.00151	-0.0144	mg/L	0.00151	10.51%
Potassium†	568.2	0.0921	mg/L	0.00156	0.0921	mg/L	0.00156	1.70%
Aluminum radial†	-8.3	0.0023	mg/L	0.01199	0.0023	mg/L	0.01199	521.24%
Calcium radial†	72.8	-0.0110	mg/L	0.00920	-0.0110	mg/L	0.00920	83.76%
Iron radial†	24.0	0.0100	mg/L	0.00704	0.0100	mg/L	0.00704	70.30%
Magnesium radial†	101.1	0.0084	mg/L	0.00619	0.0084	mg/L	0.00619	73.59%
Sodium radial†	36.6	-0.0046	mg/L	0.00219	-0.0046	mg/L	0.00219	47.58%
Potassium radial†	47.3	0.0463	mg/L	0.00613	0.0463	mg/L	0.00613	13.26%
Stonrium radial†	4.0	-0.0007	mg/L	0.00003	-0.0007	mg/L	0.00003	4.22%

Sequence No.: 182
Sample ID: RINSE BLANK
Analyst:

Autosampler Location: 433
Date Collected: 3/6/2011 9:05:53 PM
Data Type: Original

Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: RINSE BLANK

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	701352.9	102.9	%	1.39				1.35%
Aluminumt	1145.5	0.0211	mg/L	0.00077	0.0211	mg/L	0.00077	3.66%
Antimonyt	-1.2	-0.0049	mg/L	0.00238	-0.0049	mg/L	0.00238	48.85%
Arsenict	4.0	0.0042	mg/L	0.00517	0.0042	mg/L	0.00517	124.43%
Bariumt	-2.0	-0.0008	mg/L	0.00014	-0.0008	mg/L	0.00014	18.24%
Berylliumt	-13.1	-0.0010	mg/L	0.00005	-0.0010	mg/L	0.00005	5.28%
Boront	166.2	0.0068	mg/L	0.00078	0.0068	mg/L	0.00078	11.39%
Cadmiumt	-4.5	-0.0015	mg/L	0.00033	-0.0015	mg/L	0.00033	21.52%
Chromiumt	2.4	-0.0010	mg/L	0.00021	-0.0010	mg/L	0.00021	20.29%
Cobaltt	7.2	-0.0016	mg/L	0.00042	-0.0016	mg/L	0.00042	26.81%
Coppert	57.9	-0.0008	mg/L	0.00029	-0.0008	mg/L	0.00029	38.35%
Lithiumt	-460.2	-0.0028	mg/L	0.00000	-0.0028	mg/L	0.00000	0.11%
Manganeset	-8.4	-0.0024	mg/L	0.00002	-0.0024	mg/L	0.00002	0.97%
Molybdenumt	-7.0	-0.0011	mg/L	0.00025	-0.0011	mg/L	0.00025	23.39%
Nickelt	3.6	-0.0017	mg/L	0.00054	-0.0017	mg/L	0.00054	32.08%
Leadt	-2.0	-0.0014	mg/L	0.00148	-0.0014	mg/L	0.00148	108.84%
Seleniumt	-3.4	-0.0052	mg/L	0.00662	-0.0052	mg/L	0.00662	127.27%
Silvert	77.6	-0.0004	mg/L	0.00041	-0.0004	mg/L	0.00041	117.64%
Strontiumt	601.7	-0.0010	mg/L	0.00000	-0.0010	mg/L	0.00000	0.16%
Tint	2.7	0.0010	mg/L	0.00059	0.0010	mg/L	0.00059	56.42%
Thalliumt	7.2	0.0018	mg/L	0.00331	0.0018	mg/L	0.00331	182.06%
Titaniumt	-36.0	-0.0022	mg/L	0.00006	-0.0022	mg/L	0.00006	2.64%
Vanadiumt	-10.2	0.0003	mg/L	0.00142	0.0003	mg/L	0.00142	541.70%
Zinct	25.2	0.0007	mg/L	0.00027	0.0007	mg/L	0.00027	41.79%
Argon	5555730.9	103.5	mg/L	0.18	103.5	mg/L	0.18	0.17%
Sodiumt	267.6	0.0718	mg/L	0.00041	0.0718	mg/L	0.00041	0.57%
Magnesiumt	183.1	0.0010	mg/L	0.00014	0.0010	mg/L	0.00014	14.43%
Iront	174.0	0.0015	mg/L	0.00011	0.0015	mg/L	0.00011	7.24%
Calciumt	533.1	-0.0170	mg/L	0.00029	-0.0170	mg/L	0.00029	1.68%
Potassiumt	386.7	0.0905	mg/L	0.00022	0.0905	mg/L	0.00022	0.24%
Aluminum radialt	-9.5	0.0016	mg/L	0.00521	0.0016	mg/L	0.00521	316.96%
Calcium radialt	14.8	-0.0210	mg/L	0.00086	-0.0210	mg/L	0.00086	4.09%
Iron radialt	11.9	0.0026	mg/L	0.00283	0.0026	mg/L	0.00283	108.37%
Magnesium radialt	11.1	-0.0011	mg/L	0.00075	-0.0011	mg/L	0.00075	69.01%
Sodium radialt	11.0	-0.0117	mg/L	0.00152	-0.0117	mg/L	0.00152	12.98%
Potassium radialt	8.5	-0.0105	mg/L	0.01508	-0.0105	mg/L	0.01508	143.46%
Stonrium radialt	-0.5	-0.0008	mg/L	0.00006	-0.0008	mg/L	0.00006	7.56%

Sequence No.: 183 Autosampler Location: 126
Sample ID: MBLK-98096 Date Collected: 3/6/2011 9:08:09 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: MBLK-98096

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: MBLK-98096

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	697183.9	102.3	%	1.55				1.52%
Aluminumt	1232.5	0.0231	mg/L	0.00179	0.0231	mg/L	0.00179	7.75%
Antimonyt	6.4	0.0044	mg/L	0.00343	0.0044	mg/L	0.00343	77.26%
Arsenict	1.9	0.0015	mg/L	0.00367	0.0015	mg/L	0.00367	243.42%
Bariumt	49.6	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	92.82%
Berylliumt	-24.6	-0.0010	mg/L	0.00005	-0.0010	mg/L	0.00005	4.63%

Boron†	286.7	0.0118 mg/L	0.00049	0.0118 mg/L	0.00049	4.13%
Cadmium†	-5.9	-0.0016 mg/L	0.00035	-0.0016 mg/L	0.00035	22.33%
Chromium†	18.9	-0.0008 mg/L	0.00077	-0.0008 mg/L	0.00077	97.22%
Cobalt†	4.6	-0.0018 mg/L	0.00037	-0.0018 mg/L	0.00037	21.20%
Copper†	43.8	-0.0009 mg/L	0.00046	-0.0009 mg/L	0.00046	51.18%
Lithium†	-332.3	-0.0028 mg/L	0.00001	-0.0028 mg/L	0.00001	0.43%
Manganese†	29.9	-0.0023 mg/L	0.00004	-0.0023 mg/L	0.00004	1.55%
Molybdenum†	4.1	0.0005 mg/L	0.00121	0.0005 mg/L	0.00121	244.17%
Nickel†	9.8	-0.0013 mg/L	0.00096	-0.0013 mg/L	0.00096	73.89%
Lead†	0.3	-0.0002 mg/L	0.00253	-0.0002 mg/L	0.00253	>999.9%
Selenium†	-1.4	-0.0010 mg/L	0.00781	-0.0010 mg/L	0.00781	789.30%
Silver†	-142.4	-0.0020 mg/L	0.00041	-0.0020 mg/L	0.00041	20.70%
Strontium†	3388.8	-0.0008 mg/L	0.00000	-0.0008 mg/L	0.00000	0.52%
Tin†	0.8	-0.0010 mg/L	0.00130	-0.0010 mg/L	0.00130	128.18%
Thallium†	-2.3	-0.0038 mg/L	0.00623	-0.0038 mg/L	0.00623	166.05%
Titanium†	10.9	-0.0019 mg/L	0.00027	-0.0019 mg/L	0.00027	13.70%
Vanadium†	9.8	0.0005 mg/L	0.00056	0.0005 mg/L	0.00056	104.48%
Zinc†	94.5	0.0060 mg/L	0.00056	0.0060 mg/L	0.00056	9.22%
Argon	5567615.0	103.8 mg/L	0.13	103.8 mg/L	0.13	0.12%
Sodium†	2838.8	0.0812 mg/L	0.00029	0.0812 mg/L	0.00029	0.36%
Magnesium†	476.3	0.0023 mg/L	0.00013	0.0023 mg/L	0.00013	5.86%
Iron†	206.3	0.0023 mg/L	0.00013	0.0023 mg/L	0.00013	5.63%
Calcium†	5546.6	0.0197 mg/L	0.00073	0.0197 mg/L	0.00073	3.68%
Potassium†	861.8	0.0946 mg/L	0.00019	0.0946 mg/L	0.00019	0.20%
Aluminum radial†	8.7	0.0118 mg/L	0.01300	0.0118 mg/L	0.01300	110.58%
Calcium radial†	231.4	0.0163 mg/L	0.00094	0.0163 mg/L	0.00094	5.79%
Iron radial†	11.8	0.0025 mg/L	0.00198	0.0025 mg/L	0.00198	79.06%
Magnesium radial†	17.0	-0.0005 mg/L	0.00047	-0.0005 mg/L	0.00047	102.28%
Sodium radial†	63.8	0.0029 mg/L	0.00301	0.0029 mg/L	0.00301	103.24%
Potassium radial†	23.7	0.0118 mg/L	0.00337	0.0118 mg/L	0.00337	28.61%
Stonrium radial†	114.2	-0.0005 mg/L	0.00002	-0.0005 mg/L	0.00002	3.81%

Sequence No.: 184
Sample ID: LCS-98096
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 127
Date Collected: 3/6/2011 9:10:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCS-98096

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: LCS-98096

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	687841.6	100.9	%	0.94				0.93%
Aluminum†	238674.9	5.492	mg/L	0.0052	5.492	mg/L	0.0052	0.09%
Antimony†	95.8	0.1124	mg/L	0.00451	0.1124	mg/L	0.00451	4.02%
Arsenic†	90.9	0.1135	mg/L	0.00170	0.1135	mg/L	0.00170	1.50%
Barium†	5944.3	0.1036	mg/L	0.00173	0.1036	mg/L	0.00173	1.67%
Beryllium†	209497.3	0.1065	mg/L	0.00014	0.1065	mg/L	0.00014	0.13%
Boron†	2790.5	0.1165	mg/L	0.00235	0.1165	mg/L	0.00235	2.02%
Cadmium†	1836.3	0.1032	mg/L	0.00030	0.1032	mg/L	0.00030	0.29%
Chromium†	7728.7	0.1063	mg/L	0.00188	0.1063	mg/L	0.00188	1.77%
Cobalt†	1543.4	0.1045	mg/L	0.00088	0.1045	mg/L	0.00088	0.84%
Copper†	10577.6	0.1053	mg/L	0.00173	0.1053	mg/L	0.00173	1.64%
Lithium†	788460.8	0.0980	mg/L	0.00049	0.0980	mg/L	0.00049	0.50%
Manganese†	47024.4	0.1043	mg/L	0.00195	0.1043	mg/L	0.00195	1.87%
Molybdenum†	707.2	0.1001	mg/L	0.00028	0.1001	mg/L	0.00028	0.28%
Nickel†	1683.6	0.1062	mg/L	0.00082	0.1062	mg/L	0.00082	0.78%
Lead†	224.6	0.1090	mg/L	0.00095	0.1090	mg/L	0.00095	0.88%
Selenium†	258.7	0.5467	mg/L	0.00650	0.5467	mg/L	0.00650	1.19%
Silver†	13737.1	0.1011	mg/L	0.00166	0.1011	mg/L	0.00166	1.64%
Strontium†	1323582.3	0.1040	mg/L	0.00114	0.1040	mg/L	0.00114	1.10%
Tin†	97.2	0.1006	mg/L	0.00047	0.1006	mg/L	0.00047	0.47%
Thallium†	179.3	0.1026	mg/L	0.00140	0.1026	mg/L	0.00140	1.36%
Titanium†	24070.8	0.1052	mg/L	0.00170	0.1052	mg/L	0.00170	1.61%
Vanadium†	8078.2	0.1107	mg/L	0.00255	0.1107	mg/L	0.00255	2.30%
Zinc†	1427.7	0.1095	mg/L	0.00023	0.1095	mg/L	0.00023	0.21%

Argon	5551143.2	103.4 mg/L	0.18	103.4 mg/L	0.18	0.17%
Sodium†	1376013.7	5.110 mg/L	0.0606	5.110 mg/L	0.0606	1.18%
Magnesium†	1224455.2	5.301 mg/L	0.0043	5.301 mg/L	0.0043	0.08%
Iron†	227765.0	5.312 mg/L	0.0073	5.312 mg/L	0.0073	0.14%
Calcium†	747720.4	5.451 mg/L	0.0096	5.451 mg/L	0.0096	0.18%
Potassium†	585348.5	5.174 mg/L	0.0182	5.174 mg/L	0.0182	0.35%
Aluminum radial†	9660.1	5.381 mg/L	0.1126	5.381 mg/L	0.1126	2.09%
Calcium radial†	32533.7	5.575 mg/L	0.1339	5.575 mg/L	0.1339	2.40%
Iron radial†	8966.8	5.508 mg/L	0.1317	5.508 mg/L	0.1317	2.39%
Magnesium radial†	50939.7	5.369 mg/L	0.1016	5.369 mg/L	0.1016	1.89%
Sodium radial†	18952.8	5.218 mg/L	0.0971	5.218 mg/L	0.0971	1.86%
Potassium radial†	3610.3	5.259 mg/L	0.1493	5.259 mg/L	0.1493	2.84%
Stonrium radial†	54206.5	0.1046 mg/L	0.00015	0.1046 mg/L	0.00015	0.14%

Sequence No.: 185
Sample ID: 11020727-11A
Analyst:
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 128
Date Collected: 3/6/2011 9:12:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-11A

Analyte	Back Pressure	Flow
All	166.0 kPa	0.65 L/min

Mean Data: 11020727-11A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	692887.2	101.6	%	1.14				1.12%
Aluminum†	2105.7	0.0432	mg/L	0.00131	0.2162	mg/L	0.00654	3.02%
Antimony†	6.8	0.0050	mg/L	0.00676	0.0249	mg/L	0.03378	135.86%
Arsenic†	3.3	0.0026	mg/L	0.00396	0.0128	mg/L	0.01982	155.20%
Barium†	14191.8	0.2483	mg/L	0.00585	1.241	mg/L	0.0293	2.36%
Beryllium†	50.6	-0.0010	mg/L	0.00008	-0.0049	mg/L	0.00038	7.69%
Boron†	375.1	0.0155	mg/L	0.00069	0.0776	mg/L	0.00344	4.43%
Cadmium†	-8.2	-0.0017	mg/L	0.00085	-0.0087	mg/L	0.00424	48.54%
Chromium†	48.5	-0.0004	mg/L	0.00049	-0.0019	mg/L	0.00246	129.61%
Cobalt†	-3.8	-0.0023	mg/L	0.00033	-0.0117	mg/L	0.00167	14.32%
Copper†	-57.2	-0.0016	mg/L	0.00064	-0.0080	mg/L	0.00322	40.36%
Lithium†	79645.0	0.0074	mg/L	0.00000	0.0371	mg/L	0.00002	0.05%
Manganese†	225.7	-0.0019	mg/L	0.00001	-0.0093	mg/L	0.00005	0.59%
Molybdenum†	-2.3	-0.0004	mg/L	0.00088	-0.0020	mg/L	0.00438	214.18%
Nickel†	-8.1	-0.0024	mg/L	0.00031	-0.0122	mg/L	0.00155	12.65%
Lead†	-4.0	-0.0023	mg/L	0.00323	-0.0117	mg/L	0.01613	137.95%
Selenium†	-2.1	-0.0026	mg/L	0.00922	-0.0128	mg/L	0.04612	359.65%
Silver†	-169.9	-0.0026	mg/L	0.00098	-0.0131	mg/L	0.00488	37.14%
Strontium†	1937747.2	0.1525	mg/L	0.00193	0.7625	mg/L	0.00963	1.26%
Tin†	-9.1	-0.0093	mg/L	0.00104	-0.0463	mg/L	0.00520	11.24%
Thallium†	-3.0	-0.0042	mg/L	0.00310	-0.0208	mg/L	0.01548	74.60%
Titanium†	-79.8	-0.0023	mg/L	0.00017	-0.0117	mg/L	0.00083	7.05%
Vanadium†	1257.1	0.0170	mg/L	0.00096	0.0850	mg/L	0.00481	5.65%
Zinc†	49.0	0.0025	mg/L	0.00035	0.0125	mg/L	0.00173	13.84%
Argon	5576148.7	103.9	mg/L	0.28	519.5	mg/L	1.38	0.27%
Sodium†	Saturated3							
Magnesium†	3311697.3	14.34	mg/L	0.022	71.69	mg/L	0.111	0.15%
Iron†	170.2	0.0014	mg/L	0.00074	0.0072	mg/L	0.00369	51.10%
Calcium†	2609602.7	19.08	mg/L	0.016	95.39	mg/L	0.079	0.08%
Potassium†	62749.5	0.6324	mg/L	0.00107	3.162	mg/L	0.0054	0.17%
Aluminum radial†	28.7	0.0229	mg/L	0.00374	0.1144	mg/L	0.01868	16.32%
Calcium radial†	113260.0	19.47	mg/L	0.551	97.33	mg/L	2.754	2.83%
Iron radial†	11.7	0.0025	mg/L	0.00036	0.0125	mg/L	0.00180	14.43%
Magnesium radial†	131071.3	13.82	mg/L	0.362	69.09	mg/L	1.812	2.62%
Sodium radial†	322616.4	89.05	mg/L	2.279	445.3	mg/L	11.40	2.56%
Potassium radial†	311.9	0.4334	mg/L	0.05457	2.167	mg/L	0.2729	12.59%
Stonrium radial†	79418.0	0.1536	mg/L	0.00386	0.7682	mg/L	0.01930	2.51%

Sequence No.: 186
Sample ID: 11020727-11ASD
Analyst:

Autosampler Location: 129
Date Collected: 3/6/2011 9:14:12 PM
Data Type: Original

Initial Sample Wt: Initial Sample Vol:
Dilution: 25X Sample Prep Vol:

Nebulizer Parameters: 11020727-11ASD

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-11ASD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	692903.3	101.6	%	1.67				1.64%
Aluminumt	3247.9	0.0695	mg/L	0.00156	1.739	mg/L	0.0390	2.24%
Antimonyt	3.6	0.0010	mg/L	0.00773	0.0241	mg/L	0.19333	803.47%
Arsenict	1.9	0.0014	mg/L	0.00460	0.0352	mg/L	0.11506	326.74%
Bariumt	2460.9	0.0424	mg/L	0.00028	1.061	mg/L	0.0070	0.66%
Berylliumt	27.3	-0.0010	mg/L	0.00002	-0.0249	mg/L	0.00046	1.86%
Boront	126.5	0.0052	mg/L	0.00031	0.1289	mg/L	0.00775	6.01%
Cadmiumt	-12.8	-0.0020	mg/L	0.00069	-0.0494	mg/L	0.01714	34.66%
Chromiumt	23.0	-0.0007	mg/L	0.00028	-0.0184	mg/L	0.00688	37.48%
Cobaltt	1.2	-0.0020	mg/L	0.00047	-0.0497	mg/L	0.01171	23.59%
Coppert	44.7	-0.0008	mg/L	0.00116	-0.0210	mg/L	0.02894	137.69%
Lithiumt	14032.1	-0.0010	mg/L	0.00002	-0.0242	mg/L	0.00044	1.82%
Manganeset	24.8	-0.0023	mg/L	0.00003	-0.0580	mg/L	0.00075	1.29%
Molybdenumt	-3.4	-0.0006	mg/L	0.00211	-0.0142	mg/L	0.05285	372.63%
Nickelt	-11.2	-0.0027	mg/L	0.00059	-0.0663	mg/L	0.01464	22.10%
Leadt	-0.6	-0.0007	mg/L	0.00303	-0.0170	mg/L	0.07564	445.03%
Seleniumt	-2.5	-0.0033	mg/L	0.00954	-0.0813	mg/L	0.23851	293.19%
Silvert	-169.1	-0.0022	mg/L	0.00089	-0.0559	mg/L	0.02236	40.00%
Strontiumt	341577.0	0.0260	mg/L	0.00001	0.6494	mg/L	0.00031	0.05%
Tint	-3.2	-0.0048	mg/L	0.00445	-0.1201	mg/L	0.11117	92.60%
Thalliumt	7.4	0.0020	mg/L	0.00498	0.0488	mg/L	0.12440	254.76%
Titaniumt	-35.2	-0.0021	mg/L	0.00029	-0.0537	mg/L	0.00732	13.63%
Vanadiumt	355.6	0.0052	mg/L	0.00060	0.1298	mg/L	0.01508	11.62%
Zinct	50.6	0.0026	mg/L	0.00025	0.0657	mg/L	0.00631	9.61%
Argon	5575442.5	103.9	mg/L	0.05	2597	mg/L	1.3	0.05%
Sodiumt	4353620.1	16.02	mg/L	0.294	400.4	mg/L	7.36	1.84%
Magnesiumt	558659.1	2.419	mg/L	0.0058	60.47	mg/L	0.144	0.24%
Iront	41.4	-0.0016	mg/L	0.00029	-0.0390	mg/L	0.00721	18.49%
Calciumt	454895.1	3.308	mg/L	0.0096	82.71	mg/L	0.240	0.29%
Potassiumt	9040.1	0.1657	mg/L	0.00080	4.143	mg/L	0.0199	0.48%
Aluminum radialt	95.7	0.0602	mg/L	0.00856	1.505	mg/L	0.2139	14.21%
Calcium radialt	20021.4	3.422	mg/L	0.0767	85.54	mg/L	1.918	2.24%
Iron radialt	5.1	-0.0016	mg/L	0.00107	-0.0395	mg/L	0.02666	67.47%
Magnesium radialt	23455.3	2.471	mg/L	0.0556	61.78	mg/L	1.389	2.25%
Sodium radialt	58120.6	16.03	mg/L	0.382	400.8	mg/L	9.55	2.38%
Potassium radialt	96.9	0.1189	mg/L	0.01640	2.972	mg/L	0.4101	13.80%
Stonrium radialt	14276.3	0.0270	mg/L	0.00061	0.6750	mg/L	0.01536	2.28%

Sequence No.: 187 Autosampler Location: 130
Sample ID: 11020727-11AMS Date Collected: 3/6/2011 9:16:11 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: 5X Sample Prep Vol:

Nebulizer Parameters: 11020727-11AMS

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-11AMS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	688744.9	101.0	%	1.88				1.86%
Aluminumt	49786.1	1.141	mg/L	0.0039	5.707	mg/L	0.0194	0.34%
Antimonyt	14.5	0.0141	mg/L	0.00968	0.0705	mg/L	0.04839	68.68%
Arsenict	18.7	0.0219	mg/L	0.00548	0.1096	mg/L	0.02740	25.01%
Bariumt	14674.6	0.2568	mg/L	0.00479	1.284	mg/L	0.0239	1.86%
Berylliumt	42894.2	0.0210	mg/L	0.00043	0.1050	mg/L	0.00214	2.04%

Boron†	870.7	0.0362 mg/L	0.00058	0.1812 mg/L	0.00291	1.61%
Cadmium†	369.5	0.0198 mg/L	0.00063	0.0990 mg/L	0.00316	3.19%
Chromium†	1544.3	0.0204 mg/L	0.00040	0.1020 mg/L	0.00202	1.98%
Cobalt†	304.7	0.0190 mg/L	0.00010	0.0949 mg/L	0.00049	0.52%
Copper†	2073.6	0.0199 mg/L	0.00143	0.0994 mg/L	0.00715	7.19%
Lithium†	226282.2	0.0262 mg/L	0.00003	0.1308 mg/L	0.00015	0.12%
Manganese†	9294.6	0.0187 mg/L	0.00020	0.0936 mg/L	0.00102	1.09%
Molybdenum†	138.4	0.0195 mg/L	0.00102	0.0976 mg/L	0.00510	5.22%
Nickel†	348.9	0.0205 mg/L	0.00018	0.1024 mg/L	0.00089	0.87%
Lead†	39.5	0.0188 mg/L	0.00178	0.0942 mg/L	0.00892	9.47%
Selenium†	46.6	0.1000 mg/L	0.01110	0.5002 mg/L	0.05548	11.09%
Silver†	2612.9	0.0180 mg/L	0.00157	0.0902 mg/L	0.00783	8.68%
Strontium†	2101779.9	0.1655 mg/L	0.00374	0.8276 mg/L	0.01869	2.26%
Tin†	4.8	0.0053 mg/L	0.00287	0.0267 mg/L	0.01434	53.68%
Thallium†	28.6	0.0144 mg/L	0.00190	0.0718 mg/L	0.00950	13.22%
Titanium†	4697.3	0.0189 mg/L	0.00046	0.0946 mg/L	0.00230	2.43%
Vanadium†	2797.5	0.0380 mg/L	0.00104	0.1902 mg/L	0.00519	2.73%
Zinc†	315.1	0.0231 mg/L	0.00021	0.1157 mg/L	0.00107	0.93%
Argon	5562095.0	103.6 mg/L	0.28	518.2 mg/L	1.40	0.27%
Sodium†	Saturated2					
Magnesium†	3415569.3	14.79 mg/L	0.008	73.94 mg/L	0.041	0.05%
Iron†	45474.8	1.058 mg/L	0.0175	5.292 mg/L	0.0875	1.65%
Calcium†	2629697.1	19.22 mg/L	0.029	96.12 mg/L	0.145	0.15%
Potassium†	210393.9	1.915 mg/L	0.0046	9.577 mg/L	0.0232	0.24%
Aluminum radial†	2039.5	1.142 mg/L	0.0346	5.708 mg/L	0.1731	3.03%
Calcium radial†	116370.5	20.00 mg/L	0.497	100.0 mg/L	2.48	2.48%
Iron radial†	1851.5	1.134 mg/L	0.0341	5.668 mg/L	0.1703	3.01%
Magnesium radial†	137987.3	14.55 mg/L	0.327	72.74 mg/L	1.637	2.25%
Sodium radial†	318808.3	88.00 mg/L	1.810	440.0 mg/L	9.05	2.06%
Potassium radial†	1039.8	1.498 mg/L	0.0258	7.492 mg/L	0.1292	1.72%
Stonrium radial†	88345.2	0.1710 mg/L	0.00352	0.8550 mg/L	0.01761	2.06%

Sequence No.: 188
Sample ID: 11020727-11AMSD
Analyst:
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 131
Date Collected: 3/6/2011 9:18:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-11AMSD

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-11AMSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Yttrium	691732.5	101.5	%	0.13				0.12%
Aluminum†	47534.4	1.089	mg/L	0.0030	5.447	mg/L	0.0151	0.28%
Antimony†	17.1	0.0172	mg/L	0.00913	0.0862	mg/L	0.04567	52.99%
Arsenic†	20.3	0.0240	mg/L	0.00433	0.1199	mg/L	0.02166	18.06%
Barium†	14533.0	0.2543	mg/L	0.00236	1.271	mg/L	0.0118	0.93%
Beryllium†	42149.1	0.0206	mg/L	0.00019	0.1031	mg/L	0.00094	0.91%
Boron†	836.5	0.0348	mg/L	0.00035	0.1741	mg/L	0.00173	0.99%
Cadmium†	350.3	0.0187	mg/L	0.00045	0.0933	mg/L	0.00225	2.42%
Chromium†	1537.2	0.0203	mg/L	0.00060	0.1015	mg/L	0.00298	2.94%
Cobalt†	291.0	0.0180	mg/L	0.00039	0.0901	mg/L	0.00194	2.15%
Copper†	2074.3	0.0199	mg/L	0.00122	0.0994	mg/L	0.00612	6.15%
Lithium†	218613.1	0.0252	mg/L	0.00007	0.1259	mg/L	0.00036	0.29%
Manganese†	9129.3	0.0183	mg/L	0.00019	0.0917	mg/L	0.00096	1.05%
Molybdenum†	140.0	0.0197	mg/L	0.00075	0.0987	mg/L	0.00375	3.80%
Nickel†	331.2	0.0193	mg/L	0.00046	0.0967	mg/L	0.00232	2.40%
Lead†	43.0	0.0206	mg/L	0.00343	0.1029	mg/L	0.01716	16.67%
Selenium†	45.7	0.0982	mg/L	0.00158	0.4911	mg/L	0.00791	1.61%
Silver†	2598.0	0.0180	mg/L	0.00071	0.0898	mg/L	0.00354	3.94%
Strontium†	2050543.8	0.1615	mg/L	0.00088	0.8073	mg/L	0.00438	0.54%
Tin†	9.7	0.0104	mg/L	0.00149	0.0520	mg/L	0.00744	14.32%
Thallium†	29.9	0.0151	mg/L	0.00294	0.0757	mg/L	0.01472	19.46%
Titanium†	4571.1	0.0184	mg/L	0.00020	0.0918	mg/L	0.00100	1.09%
Vanadium†	2805.8	0.0382	mg/L	0.00067	0.1909	mg/L	0.00336	1.76%
Zinc†	313.8	0.0230	mg/L	0.00027	0.1152	mg/L	0.00134	1.16%

Argon	5565629.7	103.7 mg/L	0.16	518.6 mg/L	0.82	0.16%
Sodium†	Saturated3					
Magnesium†	3307000.4	14.32 mg/L	0.020	71.59 mg/L	0.101	0.14%
Iron†	44731.8	1.041 mg/L	0.0078	5.206 mg/L	0.0392	0.75%
Calcium†	2549508.2	18.64 mg/L	0.032	93.19 mg/L	0.161	0.17%
Potassium†	202309.4	1.845 mg/L	0.0012	9.226 mg/L	0.0061	0.07%
Aluminum radial†	1952.7	1.093 mg/L	0.0115	5.467 mg/L	0.0573	1.05%
Calcium radial†	112725.3	19.37 mg/L	0.078	96.87 mg/L	0.392	0.40%
Iron radial†	1789.1	1.095 mg/L	0.0136	5.476 mg/L	0.0679	1.24%
Magnesium radial†	133903.9	14.12 mg/L	0.030	70.59 mg/L	0.151	0.21%
Sodium radial†	307993.9	85.02 mg/L	0.143	425.1 mg/L	0.72	0.17%
Potassium radial†	996.9	1.436 mg/L	0.0407	7.178 mg/L	0.2035	2.83%
Stonrium radial†	85366.7	0.1652 mg/L	0.00025	0.8260 mg/L	0.00123	0.15%

Sequence No.: 189 **Autosampler Location: 1**
Sample ID: CCV **Date Collected: 3/6/2011 9:20:11 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	701080.3	102.8	%	0.83				0.80%
Aluminum†	22050.8	0.5026	mg/L	0.01058	0.5026	mg/L	0.01058	2.10%
QC value within limits for Aluminum Recovery = 100.52%								
Antimony†	402.2	0.4800	mg/L	0.00538	0.4800	mg/L	0.00538	1.12%
QC value within limits for Antimony Recovery = 95.99%								
Arsenic†	398.9	0.5025	mg/L	0.00242	0.5025	mg/L	0.00242	0.48%
QC value within limits for Arsenic Recovery = 100.50%								
Barium†	27924.4	0.4893	mg/L	0.01171	0.4893	mg/L	0.01171	2.39%
QC value within limits for Barium Recovery = 97.86%								
Beryllium†	973678.9	0.4984	mg/L	0.00198	0.4984	mg/L	0.00198	0.40%
QC value within limits for Beryllium Recovery = 99.69%								
Boron†	11770.9	0.4907	mg/L	0.01118	0.4907	mg/L	0.01118	2.28%
QC value within limits for Boron Recovery = 98.14%								
Cadmium†	8495.7	0.4824	mg/L	0.01083	0.4824	mg/L	0.01083	2.25%
QC value within limits for Cadmium Recovery = 96.48%								
Chromium†	35566.7	0.4930	mg/L	0.01121	0.4930	mg/L	0.01121	2.27%
QC value within limits for Chromium Recovery = 98.59%								
Cobalt†	7204.0	0.4954	mg/L	0.01061	0.4954	mg/L	0.01061	2.14%
QC value within limits for Cobalt Recovery = 99.09%								
Copper†	47984.2	0.4822	mg/L	0.01158	0.4822	mg/L	0.01158	2.40%
QC value within limits for Copper Recovery = 96.43%								
Lithium†	3817724.5	0.4852	mg/L	0.00109	0.4852	mg/L	0.00109	0.22%
QC value within limits for Lithium Recovery = 97.04%								
Manganese†	218826.9	0.4942	mg/L	0.00229	0.4942	mg/L	0.00229	0.46%
QC value within limits for Manganese Recovery = 98.83%								
Molybdenum†	3363.3	0.4755	mg/L	0.00801	0.4755	mg/L	0.00801	1.69%
QC value within limits for Molybdenum Recovery = 95.10%								
Nickel†	7815.1	0.5001	mg/L	0.01060	0.5001	mg/L	0.01060	2.12%
QC value within limits for Nickel Recovery = 100.02%								
Lead†	1027.8	0.4991	mg/L	0.00145	0.4991	mg/L	0.00145	0.29%
QC value within limits for Lead Recovery = 99.82%								
Selenium†	233.3	0.4915	mg/L	0.00675	0.4915	mg/L	0.00675	1.37%
QC value within limits for Selenium Recovery = 98.30%								
Silver†	65685.1	0.4872	mg/L	0.00990	0.4872	mg/L	0.00990	2.03%
QC value within limits for Silver Recovery = 97.44%								
Strontium†	3143326.1	0.2488	mg/L	0.00053	0.2488	mg/L	0.00053	0.21%
QC value within limits for Strontium Recovery = 99.54%								
Tin†	488.2	0.5098	mg/L	0.00941	0.5098	mg/L	0.00941	1.85%
QC value within limits for Tin Recovery = 101.96%								
Thallium†	823.5	0.4798	mg/L	0.01087	0.4798	mg/L	0.01087	2.27%
QC value within limits for Thallium Recovery = 95.95%								
Titanium†	112408.8	0.4986	mg/L	0.00319	0.4986	mg/L	0.00319	0.64%

QC value within limits for Titanium Recovery = 99.72%

Vanadium†	34979.0	0.4846 mg/L	0.01184	0.4846 mg/L	0.01184	2.44%

QC value within limits for Vanadium Recovery = 96.92%

Zinc†	6422.7	0.4969 mg/L	0.01216	0.4969 mg/L	0.01216	2.45%

QC value within limits for Zinc Recovery = 99.39%

Argon	5556067.5	103.5 mg/L	0.30	103.5 mg/L	0.30	0.29%
Sodium†	1249298.7	4.646 mg/L	0.0485	4.646 mg/L	0.0485	1.04%

QC value within limits for Sodium Recovery = 92.92%

Magnesium†	111094.0	0.4812 mg/L	0.01082	0.4812 mg/L	0.01082	2.25%

QC value within limits for Magnesium Recovery = 96.24%

Iron†	21193.9	0.4920 mg/L	0.01310	0.4920 mg/L	0.01310	2.66%

QC value within limits for Iron Recovery = 98.39%

Calcium†	69613.6	0.4886 mg/L	0.01276	0.4886 mg/L	0.01276	2.61%

QC value within limits for Calcium Recovery = 97.72%

Potassium†	526554.3	4.663 mg/L	0.0225	4.663 mg/L	0.0225	0.48%

QC value within limits for Potassium Recovery = 93.25%

Aluminum radial†	864.2	0.4877 mg/L	0.01327	0.4877 mg/L	0.01327	2.72%

QC value within limits for Aluminum radial Recovery = 97.55%

Calcium radial†	3075.0	0.5056 mg/L	0.00612	0.5056 mg/L	0.00612	1.21%

QC value within limits for Calcium radial Recovery = 101.12%

Iron radial†	858.0	0.5227 mg/L	0.00650	0.5227 mg/L	0.00650	1.24%

QC value within limits for Iron radial Recovery = 104.55%

Magnesium radial†	4800.3	0.5039 mg/L	0.00571	0.5039 mg/L	0.00571	1.13%

QC value within limits for Magnesium radial Recovery = 100.79%

Sodium radial†	17858.1	4.916 mg/L	0.0806	4.916 mg/L	0.0806	1.64%

QC value within limits for Sodium radial Recovery = 98.31%

Potassium radial†	3318.0	4.832 mg/L	0.0472	4.832 mg/L	0.0472	0.98%

QC value within limits for Potassium radial Recovery = 96.63%

Stonrium radial†	128401.3	0.2489 mg/L	0.00444	0.2489 mg/L	0.00444	1.79%

QC value within limits for Stonrium radial Recovery = 99.54%

All analyte(s) passed QC.

Sequence No.: 190
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 3/6/2011 9:22:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	683845.5	100.3	%	0.77				0.77%
Aluminum†	362.5	0.0031	mg/L	0.00089	0.0031	mg/L	0.00089	28.76%
QC value within limits for Aluminum Recovery = Not calculated								
Antimony†	3.9	0.0013	mg/L	0.00752	0.0013	mg/L	0.00752	573.10%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	1.2	0.0007	mg/L	0.00198	0.0007	mg/L	0.00198	284.65%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	3.4	-0.0007	mg/L	0.00012	-0.0007	mg/L	0.00012	17.14%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	112.0	-0.0010	mg/L	0.00008	-0.0010	mg/L	0.00008	8.40%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	70.9	0.0028	mg/L	0.00014	0.0028	mg/L	0.00014	5.10%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	-3.7	-0.0014	mg/L	0.00013	-0.0014	mg/L	0.00013	9.25%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	74.2	0.0000	mg/L	0.00065	0.0000	mg/L	0.00065	>999.9%
QC value within limits for Chromium Recovery = Not calculated								
Cobalt†	4.2	-0.0018	mg/L	0.00063	-0.0018	mg/L	0.00063	35.19%
QC value within limits for Cobalt Recovery = Not calculated								
Copper†	97.5	-0.0004	mg/L	0.00050	-0.0004	mg/L	0.00050	137.41%
QC value within limits for Copper Recovery = Not calculated								
Lithium†	-239.1	-0.0028	mg/L	0.00005	-0.0028	mg/L	0.00005	1.80%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	44.7	-0.0023	mg/L	0.00013	-0.0023	mg/L	0.00013	5.68%

QC value within limits for Manganese Recovery = Not calculated

Molybdenum†	-5.0	-0.0008 mg/L	0.00179	-0.0008 mg/L	0.00179	226.67%

QC value within limits for Molybdenum Recovery = Not calculated

Nickel†	6.4	-0.0015 mg/L	0.00049	-0.0015 mg/L	0.00049	32.05%

QC value within limits for Nickel Recovery = Not calculated

Lead†	0.9	0.0001 mg/L	0.00165	0.0001 mg/L	0.00165	>999.9%

QC value within limits for Lead Recovery = Not calculated

Selenium†	1.1	0.0042 mg/L	0.00479	0.0042 mg/L	0.00479	115.19%

QC value within limits for Selenium Recovery = Not calculated

Silver†	-287.1	-0.0030 mg/L	0.00056	-0.0030 mg/L	0.00056	18.35%

QC value within limits for Silver Recovery = Not calculated

Strontium†	930.0	-0.0010 mg/L	0.00004	-0.0010 mg/L	0.00004	4.30%

QC value within limits for Strontium Recovery = Not calculated

Tin†	-0.5	-0.0023 mg/L	0.00277	-0.0023 mg/L	0.00277	119.13%

QC value within limits for Tin Recovery = Not calculated

Thallium†	-0.4	-0.0026 mg/L	0.00406	-0.0026 mg/L	0.00406	154.12%

QC value within limits for Thallium Recovery = Not calculated

Titanium†	40.5	-0.0018 mg/L	0.00005	-0.0018 mg/L	0.00005	2.99%

QC value within limits for Titanium Recovery = Not calculated

Vanadium†	43.1	0.0010 mg/L	0.00074	0.0010 mg/L	0.00074	73.87%

QC value within limits for Vanadium Recovery = Not calculated

Zinc†	11.0	-0.0005 mg/L	0.00033	-0.0005 mg/L	0.00033	72.92%

QC value within limits for Zinc Recovery = Not calculated

Argon	5532300.3	103.1 mg/L	0.36	103.1 mg/L	0.36	0.35%
Sodium†	970.1	0.0744 mg/L	0.00041	0.0744 mg/L	0.00041	0.55%

QC value within limits for Sodium Recovery = Not calculated

Magnesium†	120.7	0.0007 mg/L	0.00011	0.0007 mg/L	0.00011	14.86%

QC value within limits for Magnesium Recovery = Not calculated

Iron†	33.3	-0.0017 mg/L	0.00036	-0.0017 mg/L	0.00036	20.81%

QC value within limits for Iron Recovery = Not calculated

Calcium†	226.9	-0.0192 mg/L	0.00153	-0.0192 mg/L	0.00153	7.97%

QC value within limits for Calcium Recovery = Not calculated

Potassium†	426.9	0.0909 mg/L	0.00031	0.0909 mg/L	0.00031	0.34%

QC value within limits for Potassium Recovery = Not calculated

Aluminum radial†	-41.6	-0.0162 mg/L	0.00969	-0.0162 mg/L	0.00969	59.82%

QC value within limits for Aluminum radial Recovery = Not calculated

Calcium radial†	21.7	-0.0198 mg/L	0.00165	-0.0198 mg/L	0.00165	8.37%

QC value within limits for Calcium radial Recovery = Not calculated

Iron radial†	6.8	-0.0005 mg/L	0.00182	-0.0005 mg/L	0.00182	333.67%

QC value within limits for Iron radial Recovery = Not calculated

Magnesium radial†	5.8	-0.0016 mg/L	0.00133	-0.0016 mg/L	0.00133	81.00%

QC value within limits for Magnesium radial Recovery = Not calculated

Sodium radial†	56.3	0.0008 mg/L	0.00235	0.0008 mg/L	0.00235	277.70%

QC value within limits for Sodium radial Recovery = Not calculated

Potassium radial†	5.3	-0.0152 mg/L	0.01324	-0.0152 mg/L	0.01324	87.38%

QC value within limits for Potassium radial Recovery = Not calculated

Stonrium radial†	27.6	-0.0007 mg/L	0.00005	-0.0007 mg/L	0.00005	7.45%

QC value within limits for Stonrium radial Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 191
Sample ID: 11020727-11APDS
Analyst:
Initial Sample Wt:
Dilution: 25X

Autosampler Location: 132
Date Collected: 3/6/2011 9:24:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-11APDS

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-11APDS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	688362.6	101.0	%	1.28				1.27%
Aluminum†	10996.2	0.2480	mg/L	0.00238	6.200	mg/L	0.0596	0.96%
Antimony†	175.0	0.2069	mg/L	0.00607	5.174	mg/L	0.1518	2.93%
Arsenic†	174.9	0.2197	mg/L	0.00888	5.491	mg/L	0.2220	4.04%
Barium†	14571.0	0.2549	mg/L	0.00071	6.374	mg/L	0.0176	0.28%
Beryllium†	422609.4	0.2158	mg/L	0.00068	5.394	mg/L	0.0171	0.32%

Boron†	5219.8	0.2175 mg/L	0.00087	5.438 mg/L	0.0217	0.40%
Cadmium†	3693.6	0.2090 mg/L	0.00371	5.225 mg/L	0.0928	1.78%
Chromium†	15370.7	0.2124 mg/L	0.00139	5.311 mg/L	0.0348	0.66%
Cobalt†	3082.7	0.2108 mg/L	0.00381	5.270 mg/L	0.0952	1.81%
Copper†	20789.6	0.2082 mg/L	0.00119	5.205 mg/L	0.0298	0.57%
Lithium†	1650047.6	0.2081 mg/L	0.00615	5.204 mg/L	0.1536	2.95%
Manganese†	93244.5	0.2092 mg/L	0.00062	5.230 mg/L	0.0156	0.30%
Molybdenum†	1459.7	0.2063 mg/L	0.00446	5.158 mg/L	0.1114	2.16%
Nickel†	3339.1	0.2126 mg/L	0.00509	5.314 mg/L	0.1272	2.39%
Lead†	445.8	0.2163 mg/L	0.00522	5.407 mg/L	0.1305	2.41%
Selenium†	101.9	0.2158 mg/L	0.00630	5.395 mg/L	0.1576	2.92%
Silver†	27929.3	0.2066 mg/L	0.00093	5.164 mg/L	0.0233	0.45%
Strontium†	1712413.2	0.1350 mg/L	0.00382	3.374 mg/L	0.0954	2.83%
Tin†	-0.3	-0.0018 mg/L	0.00327	-0.0441 mg/L	0.08184	185.70%
Thallium†	346.8	0.2006 mg/L	0.00335	5.016 mg/L	0.0836	1.67%
Titanium†	48427.5	0.2137 mg/L	0.00134	5.342 mg/L	0.0336	0.63%
Vanadium†	15473.4	0.2145 mg/L	0.00101	5.361 mg/L	0.0253	0.47%
Zinc†	2776.0	0.2140 mg/L	0.00423	5.351 mg/L	0.1058	1.98%
Argon	5591021.6	104.2 mg/L	0.39	2605 mg/L	9.7	0.37%
Sodium†	5165365.6	18.99 mg/L	0.565	474.7 mg/L	14.13	2.98%
Magnesium†	625786.5	2.710 mg/L	0.0094	67.74 mg/L	0.235	0.35%
Iron†	9174.8	0.2115 mg/L	0.00083	5.288 mg/L	0.0207	0.39%
Calcium†	499376.3	3.634 mg/L	0.0143	90.85 mg/L	0.358	0.39%
Potassium†	253426.2	2.289 mg/L	0.0153	57.23 mg/L	0.382	0.67%
Aluminum radial†	403.9	0.2316 mg/L	0.00552	5.791 mg/L	0.1379	2.38%
Calcium radial†	21946.8	3.753 mg/L	0.0571	93.82 mg/L	1.427	1.52%
Iron radial†	364.3	0.2192 mg/L	0.00327	5.481 mg/L	0.0817	1.49%
Magnesium radial†	26159.1	2.756 mg/L	0.0278	68.90 mg/L	0.694	1.01%
Sodium radial†	67097.6	18.51 mg/L	0.152	462.7 mg/L	3.80	0.82%
Potassium radial†	1508.0	2.183 mg/L	0.0800	54.59 mg/L	2.000	3.66%
Stonrium radial†	69643.7	0.1346 mg/L	0.00140	3.366 mg/L	0.0349	1.04%

Sequence No.: 192
Sample ID: 11020727-11APDSD
Analyst:
Initial Sample Wt:
Dilution: 25X

Autosampler Location: 133
Date Collected: 3/6/2011 9:26:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-11APDSD

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-11APDSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	694234.7	101.8	%	1.08				1.06%
Aluminum†	14558.7	0.3300	mg/L	0.00235	8.251	mg/L	0.0586	0.71%
Antimony†	181.8	0.2153	mg/L	0.01057	5.382	mg/L	0.2642	4.91%
Arsenic†	176.5	0.2217	mg/L	0.00418	5.542	mg/L	0.1045	1.89%
Barium†	14636.4	0.2561	mg/L	0.00204	6.402	mg/L	0.0511	0.80%
Beryllium†	418353.3	0.2136	mg/L	0.00028	5.340	mg/L	0.0071	0.13%
Boron†	5295.8	0.2207	mg/L	0.00129	5.517	mg/L	0.0323	0.59%
Cadmium†	3675.8	0.2079	mg/L	0.00233	5.198	mg/L	0.0583	1.12%
Chromium†	15423.4	0.2132	mg/L	0.00235	5.329	mg/L	0.0588	1.10%
Cobalt†	3071.5	0.2100	mg/L	0.00221	5.251	mg/L	0.0551	1.05%
Copper†	20765.2	0.2080	mg/L	0.00141	5.199	mg/L	0.0353	0.68%
Lithium†	1620696.3	0.2044	mg/L	0.00087	5.110	mg/L	0.0218	0.43%
Manganese†	93353.3	0.2094	mg/L	0.00170	5.236	mg/L	0.0424	0.81%
Molybdenum†	1453.5	0.2055	mg/L	0.00311	5.136	mg/L	0.0776	1.51%
Nickel†	3333.7	0.2122	mg/L	0.00130	5.306	mg/L	0.0325	0.61%
Lead†	437.5	0.2123	mg/L	0.00180	5.307	mg/L	0.0450	0.85%
Selenium†	103.3	0.2187	mg/L	0.01196	5.468	mg/L	0.2989	5.47%
Silver†	27821.4	0.2058	mg/L	0.00192	5.145	mg/L	0.0480	0.93%
Strontium†	1685109.1	0.1328	mg/L	0.00052	3.320	mg/L	0.0130	0.39%
Tin†	-1.4	-0.0029	mg/L	0.00224	-0.0724	mg/L	0.05592	77.21%
Thallium†	352.8	0.2042	mg/L	0.00522	5.104	mg/L	0.1306	2.56%
Titanium†	48394.3	0.2135	mg/L	0.00182	5.338	mg/L	0.0456	0.85%
Vanadium†	15578.1	0.2159	mg/L	0.00154	5.398	mg/L	0.0384	0.71%
Zinc†	2779.9	0.2144	mg/L	0.00213	5.359	mg/L	0.0534	1.00%

Argon	5614992.1	104.6 mg/L	0.14	2616 mg/L	3.6	0.14%
Sodium†	5158326.3	18.96 mg/L	0.252	474.1 mg/L	6.31	1.33%
Magnesium†	632600.7	2.739 mg/L	0.0018	68.48 mg/L	0.046	0.07%
Iron†	9142.3	0.2108 mg/L	0.00091	5.270 mg/L	0.0228	0.43%
Calcium†	504865.6	3.674 mg/L	0.0072	91.85 mg/L	0.180	0.20%
Potassium†	251744.8	2.275 mg/L	0.0067	56.87 mg/L	0.167	0.29%
Aluminum radial†	550.0	0.3129 mg/L	0.00477	7.823 mg/L	0.1191	1.52%
Calcium radial†	21828.5	3.733 mg/L	0.0379	93.32 mg/L	0.947	1.01%
Iron radial†	365.9	0.2202 mg/L	0.00212	5.505 mg/L	0.0531	0.96%
Magnesium radial†	26074.2	2.747 mg/L	0.0199	68.68 mg/L	0.498	0.72%
Sodium radial†	66883.7	18.45 mg/L	0.154	461.3 mg/L	3.86	0.84%
Potassium radial†	1467.7	2.124 mg/L	0.0201	53.11 mg/L	0.502	0.95%
Stonrium radial†	68686.6	0.1328 mg/L	0.00147	3.319 mg/L	0.0368	1.11%

Sequence No.: 193
Sample ID: 11020727-14A
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 134
Date Collected: 3/6/2011 9:28:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-14A

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-14A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	811826.3	119.1	%	1.66				1.40%
Aluminum†	957023.2	22.04	mg/L	0.078	22.04	mg/L	0.078	0.36%
Antimony†	1.0	-0.0022	mg/L	0.00015	-0.0022	mg/L	0.00015	7.01%
Arsenic†	3.1	0.0024	mg/L	0.00364	0.0024	mg/L	0.00364	151.13%
Barium†	977.7	0.0164	mg/L	0.00029	0.0164	mg/L	0.00029	1.79%
Beryllium†	13099.7	0.0057	mg/L	0.00012	0.0057	mg/L	0.00012	2.10%
Boron†	803.2	0.0334	mg/L	0.00187	0.0334	mg/L	0.00187	5.61%
Cadmium†	1217.1	0.0696	mg/L	0.00102	0.0696	mg/L	0.00102	1.46%
Chromium†	185.9	0.0015	mg/L	0.00050	0.0015	mg/L	0.00050	32.81%
Cobalt†	1305.7	0.0883	mg/L	0.00113	0.0883	mg/L	0.00113	1.28%
Copper†	1398.8	0.0134	mg/L	0.00087	0.0134	mg/L	0.00087	6.47%
Lithium†	177840.2	0.0200	mg/L	0.00004	0.0200	mg/L	0.00004	0.20%
Manganese†	1357624.8	3.078	mg/L	0.0059	3.078	mg/L	0.0059	0.19%
Molybdenum†	-12.3	-0.0018	mg/L	0.00084	-0.0018	mg/L	0.00084	46.42%
Nickel†	574.9	0.0350	mg/L	0.00077	0.0350	mg/L	0.00077	2.19%
Lead†	-5.0	-0.0020	mg/L	0.00054	-0.0020	mg/L	0.00054	27.79%
Selenium†	-2.6	-0.0030	mg/L	0.00207	-0.0030	mg/L	0.00207	69.70%
Silver†	183.5	-0.0007	mg/L	0.00053	-0.0007	mg/L	0.00053	76.24%
Strontium†	2645154.4	0.2082	mg/L	0.00293	0.2082	mg/L	0.00293	1.41%
Tin†	-22.4	-0.0210	mg/L	0.00211	-0.0210	mg/L	0.00211	10.03%
Thallium†	-49.7	-0.0315	mg/L	0.00565	-0.0315	mg/L	0.00565	17.93%
Titanium†	-210.5	-0.0029	mg/L	0.00018	-0.0029	mg/L	0.00018	6.07%
Vanadium†	805.5	0.0106	mg/L	0.00124	0.0106	mg/L	0.00124	11.66%
Zinc†	1899.6	0.1461	mg/L	0.00225	0.1461	mg/L	0.00225	1.54%
Argon	5617309.6	104.7	mg/L	0.26	104.7	mg/L	0.26	0.25%
Sodium†	13001963.9	47.69	mg/L	0.591	47.69	mg/L	0.591	1.24%
Magnesium†	3775805.0	16.35	mg/L	0.015	16.35	mg/L	0.015	0.09%
Iron†	5367.8	0.1227	mg/L	0.00176	0.1227	mg/L	0.00176	1.43%
Calcium†	5267402.6	38.53	mg/L	0.092	38.53	mg/L	0.092	0.24%
Potassium†	119229.7	1.123	mg/L	0.0036	1.123	mg/L	0.0036	0.32%
Aluminum radial†	39745.4	22.12	mg/L	0.345	22.12	mg/L	0.345	1.56%
Calcium radial†	234894.5	40.40	mg/L	0.682	40.40	mg/L	0.682	1.69%
Iron radial†	218.8	0.1298	mg/L	0.00129	0.1298	mg/L	0.00129	0.99%
Magnesium radial†	153932.7	16.23	mg/L	0.269	16.23	mg/L	0.269	1.66%
Sodium radial†	147415.0	40.68	mg/L	0.759	40.68	mg/L	0.759	1.86%
Potassium radial†	683.1	0.9766	mg/L	0.02336	0.9766	mg/L	0.02336	2.39%
Stonrium radial†	110055.9	0.2132	mg/L	0.00369	0.2132	mg/L	0.00369	1.73%

Sequence No.: 194
Sample ID: 11020727-02A
Analyst:

Autosampler Location: 135
Date Collected: 3/6/2011 9:30:46 PM
Data Type: Original

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: 11020727-02A

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-02A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	989691.3	145.2	%	2.61				1.79%
Internal Standard Check greater than the upper limit for Yttrium. Recovery = 145.2%								
Aluminum†	3588245.1	82.63	mg/L	1.423	82.63	mg/L	1.423	1.72%
Antimony†	-9.5	-0.0095	mg/L	0.00486	-0.0095	mg/L	0.00486	51.42%
Arsenic†	18.3	0.0197	mg/L	0.00023	0.0197	mg/L	0.00023	1.18%
Barium†	766.1	0.0127	mg/L	0.00018	0.0127	mg/L	0.00018	1.43%
Beryllium†	29770.2	0.0143	mg/L	0.00015	0.0143	mg/L	0.00015	1.06%
Boron†	3289.9	0.1410	mg/L	0.00175	0.1410	mg/L	0.00175	1.24%
Cadmium†	-15.7	-0.0021	mg/L	0.00044	-0.0021	mg/L	0.00044	21.18%
Chromium†	2443.8	0.0329	mg/L	0.00085	0.0329	mg/L	0.00085	2.60%
Cobalt†	1500.3	0.1018	mg/L	0.00239	0.1018	mg/L	0.00239	2.34%
Copper†	-770.9	-0.0084	mg/L	0.00062	-0.0084	mg/L	0.00062	7.35%
Lithium†	863923.8	0.1077	mg/L	0.00018	0.1077	mg/L	0.00018	0.17%
Manganese†	939188.2	2.129	mg/L	0.0041	2.129	mg/L	0.0041	0.19%
Molybdenum†	-36.1	-0.0019	mg/L	0.00046	-0.0019	mg/L	0.00046	24.30%
Nickel†	1847.7	0.1168	mg/L	0.00263	0.1168	mg/L	0.00263	2.25%
Lead†	-15.0	-0.0045	mg/L	0.00047	-0.0045	mg/L	0.00047	10.51%
Selenium†	-12.8	0.0069	mg/L	0.01109	0.0069	mg/L	0.01109	160.86%
Silver†	305.4	0.0006	mg/L	0.00025	0.0006	mg/L	0.00025	40.43%
Strontium†	5538665.3	0.4382	mg/L	0.00756	0.4382	mg/L	0.00756	1.73%
Tin†	-15.7	-0.0137	mg/L	0.00294	-0.0137	mg/L	0.00294	21.45%
Thallium†	-23.7	-0.0162	mg/L	0.00398	-0.0162	mg/L	0.00398	24.52%
Titanium†	-172.5	-0.0028	mg/L	0.00012	-0.0028	mg/L	0.00012	4.38%
Vanadium†	5612.2	0.0561	mg/L	0.00144	0.0561	mg/L	0.00144	2.57%
Zinc†	2407.7	0.1855	mg/L	0.00339	0.1855	mg/L	0.00339	1.83%
Argon	5528389.5	103.0	mg/L	0.19	103.0	mg/L	0.19	0.19%
Sodium†	Saturated3							
Magnesium†	10247212.1	44.37	mg/L	0.806	44.37	mg/L	0.806	1.82%
Iron†	3240173.7	75.60	mg/L	0.130	75.60	mg/L	0.130	0.17%
Calcium†	5609626.7	41.03	mg/L	0.103	41.03	mg/L	0.103	0.25%
Potassium†	552937.0	4.892	mg/L	0.0156	4.892	mg/L	0.0156	0.32%
Aluminum radial†	150327.9	83.64	mg/L	0.841	83.64	mg/L	0.841	1.00%
Calcium radial†	250262.4	43.04	mg/L	0.402	43.04	mg/L	0.402	0.93%
Iron radial†	136420.6	83.86	mg/L	0.803	83.86	mg/L	0.803	0.96%
Magnesium radial†	410511.9	43.28	mg/L	0.488	43.28	mg/L	0.488	1.13%
Sodium radial†	676857.4	186.9	mg/L	1.13	186.9	mg/L	1.13	0.60%
Potassium radial†	2141.0	3.110	mg/L	0.0449	3.110	mg/L	0.0449	1.44%
Stonrium radial†	241804.5	0.4693	mg/L	0.00220	0.4693	mg/L	0.00220	0.47%
Internal Standard Check failed. Continue with analysis.								

Sequence No.: 195 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 3/6/2011 9:32:29 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	687007.0	100.8	%	0.34				0.34%
Aluminum†	24450.1	0.5578	mg/L	0.00147	0.5578	mg/L	0.00147	0.26%
QC value greater than the upper limit for Aluminum Recovery = 111.57%								
Antimony†	414.6	0.4947	mg/L	0.00164	0.4947	mg/L	0.00164	0.33%

QC value within limits for Antimony Recovery = 98.94%

Arsenic†	413.9	0.5214 mg/L	0.01394	0.5214 mg/L	0.01394	2.67%

QC value within limits for Arsenic Recovery = 104.29%

Barium†	29323.7	0.5138 mg/L	0.00134	0.5138 mg/L	0.00134	0.26%

QC value within limits for Barium Recovery = 102.77%

Beryllium†	995198.5	0.5095 mg/L	0.00039	0.5095 mg/L	0.00039	0.08%

QC value within limits for Beryllium Recovery = 101.90%

Boron†	12414.7	0.5175 mg/L	0.00205	0.5175 mg/L	0.00205	0.40%

QC value within limits for Boron Recovery = 103.51%

Cadmium†	8926.6	0.5070 mg/L	0.00254	0.5070 mg/L	0.00254	0.50%

QC value within limits for Cadmium Recovery = 101.41%

Chromium†	37310.8	0.5172 mg/L	0.00133	0.5172 mg/L	0.00133	0.26%

QC value within limits for Chromium Recovery = 103.44%

Cobalt†	7481.8	0.5146 mg/L	0.00338	0.5146 mg/L	0.00338	0.66%

QC value within limits for Cobalt Recovery = 102.93%

Copper†	51300.7	0.5156 mg/L	0.00125	0.5156 mg/L	0.00125	0.24%

QC value within limits for Copper Recovery = 103.12%

Lithium†	3955313.6	0.5028 mg/L	0.00466	0.5028 mg/L	0.00466	0.93%

QC value within limits for Lithium Recovery = 100.56%

Manganese†	224198.2	0.5063 mg/L	0.00019	0.5063 mg/L	0.00019	0.04%

QC value within limits for Manganese Recovery = 101.27%

Molybdenum†	3492.2	0.4938 mg/L	0.00540	0.4938 mg/L	0.00540	1.09%

QC value within limits for Molybdenum Recovery = 98.75%

Nickel†	8359.1	0.5351 mg/L	0.00319	0.5351 mg/L	0.00319	0.60%

QC value within limits for Nickel Recovery = 107.01%

Lead†	1068.0	0.5187 mg/L	0.00531	0.5187 mg/L	0.00531	1.02%

QC value within limits for Lead Recovery = 103.74%

Selenium†	242.6	0.5110 mg/L	0.00200	0.5110 mg/L	0.00200	0.39%

QC value within limits for Selenium Recovery = 102.20%

Silver†	68530.7	0.5084 mg/L	0.00031	0.5084 mg/L	0.00031	0.06%

QC value within limits for Silver Recovery = 101.67%

Strontium†	3233787.8	0.2560 mg/L	0.00208	0.2560 mg/L	0.00208	0.81%

QC value within limits for Strontium Recovery = 102.42%

Tin†	497.9	0.5200 mg/L	0.00490	0.5200 mg/L	0.00490	0.94%

QC value within limits for Tin Recovery = 104.00%

Thallium†	839.5	0.4891 mg/L	0.00617	0.4891 mg/L	0.00617	1.26%

QC value within limits for Thallium Recovery = 97.83%

Titanium†	114441.2	0.5076 mg/L	0.00239	0.5076 mg/L	0.00239	0.47%

QC value within limits for Titanium Recovery = 101.53%

Vanadium†	36721.8	0.5087 mg/L	0.00042	0.5087 mg/L	0.00042	0.08%

QC value within limits for Vanadium Recovery = 101.74%

Zinc†	7006.3	0.5422 mg/L	0.00303	0.5422 mg/L	0.00303	0.56%

QC value within limits for Zinc Recovery = 108.44%

Argon	5571257.4	103.8 mg/L	0.30	103.8 mg/L	0.30	0.29%
Sodium†	1303054.7	4.843 mg/L	0.0474	4.843 mg/L	0.0474	0.98%

QC value within limits for Sodium Recovery = 96.86%

Magnesium†	117653.4	0.5096 mg/L	0.00137	0.5096 mg/L	0.00137	0.27%

QC value within limits for Magnesium Recovery = 101.92%

Iron†	28933.5	0.6725 mg/L	0.00333	0.6725 mg/L	0.00333	0.49%

QC value greater than the upper limit for Iron Recovery = 134.51%

Calcium†	85095.8	0.6019 mg/L	0.00313	0.6019 mg/L	0.00313	0.52%

QC value greater than the upper limit for Calcium Recovery = 120.38%

Potassium†	541323.3	4.791 mg/L	0.0305	4.791 mg/L	0.0305	0.64%

QC value within limits for Potassium Recovery = 95.82%

Aluminum radial†	947.4	0.5340 mg/L	0.00147	0.5340 mg/L	0.00147	0.28%

QC value within limits for Aluminum radial Recovery = 106.81%

Calcium radial†	3749.3	0.6217 mg/L	0.00955	0.6217 mg/L	0.00955	1.54%

QC value greater than the upper limit for Calcium radial Recovery = 124.33%

Iron radial†	1153.4	0.7044 mg/L	0.00648	0.7044 mg/L	0.00648	0.92%

QC value greater than the upper limit for Iron radial Recovery = 140.88%

Magnesium radial†	5038.2	0.5290 mg/L	0.00399	0.5290 mg/L	0.00399	0.75%

QC value within limits for Magnesium radial Recovery = 105.80%

Sodium radial†	18790.4	5.173 mg/L	0.0630	5.173 mg/L	0.0630	1.22%

QC value within limits for Sodium radial Recovery = 103.46%

Potassium radial†	3562.1	5.189 mg/L	0.1154	5.189 mg/L	0.1154	2.22%

QC value within limits for Potassium radial Recovery = 103.77%

Stonrium radial†	133769.3	0.2593 mg/L	0.00326	0.2593 mg/L	0.00326	1.26%

QC value within limits for Stonrium radial Recovery = 103.72%

QC Failed. Continue with analysis.

Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 3/6/2011 9:34:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	691928.8	101.5	%	0.16				0.16%
Aluminum†	583.3	0.0082	mg/L	0.00175	0.0082	mg/L	0.00175	21.36%
QC value within limits for Aluminum Recovery = Not calculated								
Antimony†	5.1	0.0028	mg/L	0.00349	0.0028	mg/L	0.00349	124.97%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	1.6	0.0012	mg/L	0.00103	0.0012	mg/L	0.00103	86.07%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	-4.2	-0.0008	mg/L	0.00009	-0.0008	mg/L	0.00009	11.55%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	-125.1	-0.0011	mg/L	0.00007	-0.0011	mg/L	0.00007	6.29%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	77.0	0.0031	mg/L	0.00048	0.0031	mg/L	0.00048	15.58%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	-3.9	-0.0015	mg/L	0.00035	-0.0015	mg/L	0.00035	23.85%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	36.0	-0.0006	mg/L	0.00042	-0.0006	mg/L	0.00042	75.89%
QC value within limits for Chromium Recovery = Not calculated								
Cobalt†	5.1	-0.0017	mg/L	0.00036	-0.0017	mg/L	0.00036	21.24%
QC value within limits for Cobalt Recovery = Not calculated								
Copper†	65.0	-0.0007	mg/L	0.00047	-0.0007	mg/L	0.00047	67.74%
QC value within limits for Copper Recovery = Not calculated								
Lithium†	-293.4	-0.0028	mg/L	0.00002	-0.0028	mg/L	0.00002	0.72%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	-10.2	-0.0024	mg/L	0.00009	-0.0024	mg/L	0.00009	3.74%
QC value within limits for Manganese Recovery = Not calculated								
Molybdenum†	-9.7	-0.0015	mg/L	0.00043	-0.0015	mg/L	0.00043	29.57%
QC value within limits for Molybdenum Recovery = Not calculated								
Nickel†	13.0	-0.0011	mg/L	0.00013	-0.0011	mg/L	0.00013	12.16%
QC value within limits for Nickel Recovery = Not calculated								
Lead†	4.1	0.0016	mg/L	0.00253	0.0016	mg/L	0.00253	156.75%
QC value within limits for Lead Recovery = Not calculated								
Selenium†	-4.0	-0.0066	mg/L	0.01406	-0.0066	mg/L	0.01406	214.40%
QC value within limits for Selenium Recovery = Not calculated								
Silver†	-258.0	-0.0028	mg/L	0.00085	-0.0028	mg/L	0.00085	30.04%
QC value within limits for Silver Recovery = Not calculated								
Strontium†	519.7	-0.0011	mg/L	0.00000	-0.0011	mg/L	0.00000	0.34%
QC value within limits for Strontium Recovery = Not calculated								
Tin†	0.2	-0.0016	mg/L	0.00116	-0.0016	mg/L	0.00116	73.54%
QC value within limits for Tin Recovery = Not calculated								
Thallium†	1.7	-0.0014	mg/L	0.00271	-0.0014	mg/L	0.00271	191.13%
QC value within limits for Thallium Recovery = Not calculated								
Titanium†	-6.0	-0.0020	mg/L	0.00010	-0.0020	mg/L	0.00010	4.82%
QC value within limits for Titanium Recovery = Not calculated								
Vanadium†	18.0	0.0007	mg/L	0.00037	0.0007	mg/L	0.00037	56.28%
QC value within limits for Vanadium Recovery = Not calculated								
Zinc†	7.4	-0.0007	mg/L	0.00016	-0.0007	mg/L	0.00016	21.78%
QC value within limits for Zinc Recovery = Not calculated								
Argon	5556211.3	103.5	mg/L	0.03	103.5	mg/L	0.03	0.03%
Sodium†	888.1	0.0741	mg/L	0.00049	0.0741	mg/L	0.00049	0.67%
QC value within limits for Sodium Recovery = Not calculated								
Magnesium†	37.8	0.0004	mg/L	0.00022	0.0004	mg/L	0.00022	60.28%
QC value within limits for Magnesium Recovery = Not calculated								
Iron†	20.6	-0.0020	mg/L	0.00018	-0.0020	mg/L	0.00018	8.81%
QC value within limits for Iron Recovery = Not calculated								
Calcium†	23.7	-0.0207	mg/L	0.00077	-0.0207	mg/L	0.00077	3.73%
QC value within limits for Calcium Recovery = Not calculated								
Potassium†	330.1	0.0900	mg/L	0.00111	0.0900	mg/L	0.00111	1.24%
QC value within limits for Potassium Recovery = Not calculated								

Aluminum radial†	-39.9	-0.0153 mg/L	0.00213	-0.0153 mg/L	0.00213	13.95%
QC value within limits for Aluminum radial Recovery = Not calculated						
Calcium radial†	-16.3	-0.0263 mg/L	0.00361	-0.0263 mg/L	0.00361	13.72%
QC value within limits for Calcium radial Recovery = Not calculated						
Iron radial†	5.5	-0.0014 mg/L	0.00057	-0.0014 mg/L	0.00057	41.77%
QC value within limits for Iron radial Recovery = Not calculated						
Magnesium radial†	3.3	-0.0019 mg/L	0.00068	-0.0019 mg/L	0.00068	35.42%
QC value within limits for Magnesium radial Recovery = Not calculated						
Sodium radial†	106.5	0.0147 mg/L	0.00320	0.0147 mg/L	0.00320	21.74%
QC value within limits for Sodium radial Recovery = Not calculated						
Potassium radial†	2.7	-0.0190 mg/L	0.01244	-0.0190 mg/L	0.01244	65.39%
QC value within limits for Potassium radial Recovery = Not calculated						
Stonrium radial†	9.4	-0.0007 mg/L	0.00004	-0.0007 mg/L	0.00004	5.36%
QC value within limits for Stonrium radial Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 197 **Autosampler Location: 9**
Sample ID: ICSA **Date Collected: 3/6/2011 9:36:50 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	644685.0	94.57	%	1.291				1.37%
Aluminum†	21774708.4	501.5	mg/L	2.05	501.5	mg/L	2.05	0.41%
Antimony†	-9.8	0.0217	mg/L	0.00452	0.0217	mg/L	0.00452	20.81%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	34.5	0.0259	mg/L	0.01292	0.0259	mg/L	0.01292	49.80%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	540.5	0.0087	mg/L	0.00025	0.0087	mg/L	0.00025	2.82%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	1256.8	-0.0004	mg/L	0.00005	-0.0004	mg/L	0.00005	14.46%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	-313.5	0.0107	mg/L	0.00034	0.0107	mg/L	0.00034	3.18%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	21.1	-0.0008	mg/L	0.00030	-0.0008	mg/L	0.00030	36.30%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	28.9	-0.0007	mg/L	0.00001	-0.0007	mg/L	0.00001	0.94%
QC value within limits for Chromium Recovery = Not calculated								
Cobalt†	93.5	0.0044	mg/L	0.00035	0.0044	mg/L	0.00035	8.01%
QC value within limits for Cobalt Recovery = Not calculated								
Copper†	-1441.9	-0.0068	mg/L	0.00064	-0.0068	mg/L	0.00064	9.40%
QC value within limits for Copper Recovery = Not calculated								
Lithium†	3203.0	-0.0024	mg/L	0.00001	-0.0024	mg/L	0.00001	0.37%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	4844.5	0.0086	mg/L	0.00005	0.0086	mg/L	0.00005	0.55%
QC value within limits for Manganese Recovery = Not calculated								
Molybdenum†	-152.1	-0.0016	mg/L	0.00323	-0.0016	mg/L	0.00323	206.12%
QC value within limits for Molybdenum Recovery = Not calculated								
Nickel†	53.8	0.0015	mg/L	0.00052	0.0015	mg/L	0.00052	33.72%
QC value within limits for Nickel Recovery = Not calculated								
Lead†	-28.9	0.0054	mg/L	0.00330	0.0054	mg/L	0.00330	61.43%
QC value within limits for Lead Recovery = Not calculated								
Selenium†	-82.7	0.0218	mg/L	0.02661	0.0218	mg/L	0.02661	122.30%
QC value within limits for Selenium Recovery = Not calculated								
Silver†	2650.5	0.0036	mg/L	0.00052	0.0036	mg/L	0.00052	14.50%
QC value within limits for Silver Recovery = Not calculated								
Strontium†	22305.2	-0.0132	mg/L	0.00014	-0.0132	mg/L	0.00014	1.04%
QC value within limits for Strontium Recovery = Not calculated								
Tin†	-56.4	-0.0038	mg/L	0.00379	-0.0038	mg/L	0.00379	100.18%
QC value within limits for Tin Recovery = Not calculated								
Thallium†	-2.3	-0.0037	mg/L	0.00512	-0.0037	mg/L	0.00512	137.32%
QC value within limits for Thallium Recovery = Not calculated								

Titaniumt	-2470.2	-0.0130 mg/L	0.00011	-0.0130 mg/L	0.00011	0.85%
QC value within limits for Titanium Recovery = Not calculated						
Vanadiumt	9592.8	-0.0035 mg/L	0.00108	-0.0035 mg/L	0.00108	31.24%
QC value within limits for Vanadium Recovery = Not calculated						
Zinct	194.3	0.0138 mg/L	0.00111	0.0138 mg/L	0.00111	8.02%
QC value within limits for Zinc Recovery = Not calculated						
Argon	5209640.4	97.08 mg/L	0.110	97.08 mg/L	0.110	0.11%
Sodiumt	13270.4	0.1194 mg/L	0.00039	0.1194 mg/L	0.00039	0.33%
QC value within limits for Sodium Recovery = Not calculated						
Magnesiumt	75689584.0	327.7 mg/L	2.68	327.7 mg/L	2.68	0.82%
Iront	16495827.1	384.9 mg/L	2.61	384.9 mg/L	2.61	0.68%
Calciumt	67196231.3	491.8 mg/L	2.99	491.8 mg/L	2.99	0.61%
Potassiumt	2120.2	0.1056 mg/L	0.00038	0.1056 mg/L	0.00038	0.36%
Aluminum radialt	944191.7	525.3 mg/L	5.62	525.3 mg/L	5.62	1.07%
QC value within limits for Aluminum radial Recovery = 105.06%						
Calcium radialt	3118699.6	536.6 mg/L	5.35	536.6 mg/L	5.35	1.00%
QC value within limits for Calcium radial Recovery = 107.32%						
Iron radialt	825026.0	507.2 mg/L	5.23	507.2 mg/L	5.23	1.03%
QC value within limits for Iron radial Recovery = 101.44%						
Magnesium radialt	4278435.1	451.1 mg/L	4.08	451.1 mg/L	4.08	0.90%
QC value within limits for Magnesium radial Recovery = 90.23%						
Sodium radialt	211.0	0.0436 mg/L	0.01109	0.0436 mg/L	0.01109	25.46%
QC value within limits for Sodium radial Recovery = Not calculated						
Potassium radialt	95.3	0.1166 mg/L	0.06568	0.1166 mg/L	0.06568	56.35%
QC value within limits for Potassium radial Recovery = Not calculated						
Stonrium radialt	1076.6	0.0013 mg/L	0.00006	0.0013 mg/L	0.00006	4.75%
QC value within limits for Stonrium radial Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 198 **Autosampler Location: 10**
Sample ID: ICSAB **Date Collected: 3/6/2011 9:38:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	638435.7	93.66	%	0.477				0.51%
Aluminumt	21491865.7	495.0	mg/L	1.33	495.0	mg/L	1.33	0.27%
Antimonyt	7984.3	9.755	mg/L	0.1190	9.755	mg/L	0.1190	1.22%
QC value within limits for Antimony Recovery = 97.55%								
Arsenict	8105.9	10.17	mg/L	0.126	10.17	mg/L	0.126	1.24%
QC value within limits for Arsenic Recovery = 101.73%								
Bariumt	168192.3	2.951	mg/L	0.0053	2.951	mg/L	0.0053	0.18%
QC value within limits for Barium Recovery = 98.36%								
Berylliumt	2030785.5	1.041	mg/L	0.0011	1.041	mg/L	0.0011	0.11%
QC value within limits for Beryllium Recovery = 104.07%								
Boront	124087.5	5.198	mg/L	0.0085	5.198	mg/L	0.0085	0.16%
QC value within limits for Boron Recovery = 103.96%								
Cadmiumt	57205.8	3.111	mg/L	0.0105	3.111	mg/L	0.0105	0.34%
QC value within limits for Cadmium Recovery = 103.71%								
Chromiumt	207706.2	2.884	mg/L	0.0029	2.884	mg/L	0.0029	0.10%
QC value within limits for Chromium Recovery = 96.13%								
Cobaltt	39836.5	2.735	mg/L	0.0248	2.735	mg/L	0.0248	0.91%
QC value within limits for Cobalt Recovery = 91.15%								
Coppert	304499.3	3.076	mg/L	0.0074	3.076	mg/L	0.0074	0.24%
QC value within limits for Copper Recovery = 102.54%								
Lithiumt	2889.0	-0.0024	mg/L	0.00001	-0.0024	mg/L	0.00001	0.34%
QC value within limits for Lithium Recovery = Not calculated								
Manganeset	854287.3	1.936	mg/L	0.0014	1.936	mg/L	0.0014	0.07%
QC value within limits for Manganese Recovery = 96.80%								
Molybdenumt	19830.5	2.824	mg/L	0.0260	2.824	mg/L	0.0260	0.92%
QC value within limits for Molybdenum Recovery = 94.15%								
Nickelt	42394.1	2.721	mg/L	0.0303	2.721	mg/L	0.0303	1.11%

QC value within limits for Nickel Recovery = 90.72%

Lead†	19355.6	9.426 mg/L	0.1159	9.426 mg/L	0.1159	1.23%

QC value within limits for Lead Recovery = 94.26%

Selenium†	2302.6	5.029 mg/L	0.0376	5.029 mg/L	0.0376	0.75%

QC value within limits for Selenium Recovery = 100.59%

Silver†	449702.2	3.323 mg/L	0.0074	3.323 mg/L	0.0074	0.22%

QC value within limits for Silver Recovery = 110.78%

Strontium†	6050435.0	0.4660 mg/L	0.00300	0.4660 mg/L	0.00300	0.64%

QC value within limits for Strontium Recovery = 93.20%

Tin†	397.1	0.4722 mg/L	0.00505	0.4722 mg/L	0.00505	1.07%

QC value within limits for Tin Recovery = 94.45%

Thallium†	15173.4	8.881 mg/L	0.0930	8.881 mg/L	0.0930	1.05%

QC value within limits for Thallium Recovery = 88.81%

Titanium†	2239116.1	9.969 mg/L	0.0287	9.969 mg/L	0.0287	0.29%

QC value within limits for Titanium Recovery = 99.69%

Vanadium†	225813.3	2.988 mg/L	0.0054	2.988 mg/L	0.0054	0.18%

QC value within limits for Vanadium Recovery = 99.60%

Zinc†	35519.8	2.754 mg/L	0.0149	2.754 mg/L	0.0149	0.54%

QC value within limits for Zinc Recovery = 91.81%

Argon	5210572.3	97.10 mg/L	0.445	97.10 mg/L	0.445	0.46%
Sodium†	21973952.5	80.55 mg/L	1.198	80.55 mg/L	1.198	1.49%
Magnesium†	75599652.9	327.3 mg/L	1.91	327.3 mg/L	1.91	0.58%
Iron†	16411830.1	382.9 mg/L	2.37	382.9 mg/L	2.37	0.62%
Calcium†	66481106.2	486.5 mg/L	3.08	486.5 mg/L	3.08	0.63%
Potassium†	33819859.5	294.0 mg/L	1.69	294.0 mg/L	1.69	0.58%
Aluminum radial†	957703.4	532.8 mg/L	5.79	532.8 mg/L	5.79	1.09%

QC value within limits for Aluminum radial Recovery = 106.57%

Calcium radial†	3165154.3	544.6 mg/L	8.97	544.6 mg/L	8.97	1.65%

QC value within limits for Calcium radial Recovery = 108.92%

Iron radial†	841929.5	517.6 mg/L	8.01	517.6 mg/L	8.01	1.55%

QC value within limits for Iron radial Recovery = 103.52%

Magnesium radial†	4273758.6	450.7 mg/L	4.50	450.7 mg/L	4.50	1.00%

QC value within limits for Magnesium radial Recovery = 90.13%

Sodium radial†	188726.9	52.09 mg/L	0.599	52.09 mg/L	0.599	1.15%

QC value within limits for Sodium radial Recovery = 104.18%

Potassium radial†	151727.2	222.0 mg/L	2.68	222.0 mg/L	2.68	1.21%

QC value within limits for Potassium radial Recovery = 110.98%

Stonrium radial†	274305.9	0.5325 mg/L	0.00664	0.5325 mg/L	0.00664	1.25%

QC value within limits for Stonrium radial Recovery = 106.50%

All analyte(s) passed QC.

Sequence No.: 199
Sample ID: RINSE BLANK
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 136
Date Collected: 3/6/2011 9:40:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: RINSE BLANK

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	692935.7	101.7	%	2.33				2.29%
Aluminum†	1047.6	0.0189	mg/L	0.01013	0.0189	mg/L	0.01013	53.67%
Antimony†	1.5	-0.0016	mg/L	0.00771	-0.0016	mg/L	0.00771	485.41%
Arsenic†	3.1	0.0030	mg/L	0.00201	0.0030	mg/L	0.00201	66.49%
Barium†	-4.8	-0.0008	mg/L	0.00017	-0.0008	mg/L	0.00017	20.41%
Beryllium†	-38.7	-0.0010	mg/L	0.00004	-0.0010	mg/L	0.00004	3.83%
Boron†	234.9	0.0097	mg/L	0.00100	0.0097	mg/L	0.00100	10.35%
Cadmium†	-3.8	-0.0015	mg/L	0.00025	-0.0015	mg/L	0.00025	16.92%
Chromium†	50.1	-0.0004	mg/L	0.00076	-0.0004	mg/L	0.00076	212.61%
Cobalt†	-0.6	-0.0021	mg/L	0.00054	-0.0021	mg/L	0.00054	25.48%
Copper†	45.8	-0.0009	mg/L	0.00013	-0.0009	mg/L	0.00013	14.96%
Lithium†	-290.8	-0.0028	mg/L	0.00000	-0.0028	mg/L	0.00000	0.11%
Manganese†	10.3	-0.0024	mg/L	0.00007	-0.0024	mg/L	0.00007	2.79%
Molybdenum†	-4.2	-0.0007	mg/L	0.00031	-0.0007	mg/L	0.00031	44.89%
Nickel†	20.5	-0.0006	mg/L	0.00083	-0.0006	mg/L	0.00083	136.55%

Leadt	-3.0	-0.0019 mg/L	0.00154	-0.0019 mg/L	0.00154	82.92%
Seleniumt	-1.7	-0.0017 mg/L	0.00670	-0.0017 mg/L	0.00670	400.97%
Silvert	1413.5	0.0095 mg/L	0.00270	0.0095 mg/L	0.00270	28.39%
Strontiumt	517.8	-0.0011 mg/L	0.00001	-0.0011 mg/L	0.00001	0.62%
Tint	3.5	0.0018 mg/L	0.00350	0.0018 mg/L	0.00350	193.19%
Thalliumt	4.1	0.0000 mg/L	0.00311	0.0000 mg/L	0.00311	>999.9%
Titaniumt	98.0	-0.0016 mg/L	0.00016	-0.0016 mg/L	0.00016	10.15%
Vanadiumt	99.7	0.0018 mg/L	0.00070	0.0018 mg/L	0.00070	39.18%
Zinct	41.5	0.0019 mg/L	0.00061	0.0019 mg/L	0.00061	31.89%
Argon	5576719.1	103.9 mg/L	0.23	103.9 mg/L	0.23	0.22%
Sodiumt	438.4	0.0724 mg/L	0.00008	0.0724 mg/L	0.00008	0.11%
Magnesiumt	1799.7	0.0080 mg/L	0.00607	0.0080 mg/L	0.00607	75.95%
Iront	897.4	0.0184 mg/L	0.02379	0.0184 mg/L	0.02379	129.19%
Calciumt	1001.8	-0.0135 mg/L	0.00559	-0.0135 mg/L	0.00559	41.32%
Potassiumt	652.4	0.0928 mg/L	0.00041	0.0928 mg/L	0.00041	0.44%
Aluminum radialt	9.0	0.0119 mg/L	0.00625	0.0119 mg/L	0.00625	52.40%
Calcium radialt	61.5	-0.0129 mg/L	0.00546	-0.0129 mg/L	0.00546	42.21%
Iron radialt	24.2	0.0101 mg/L	0.00779	0.0101 mg/L	0.00779	76.90%
Magnesium radialt	115.4	0.0099 mg/L	0.00801	0.0099 mg/L	0.00801	80.79%
Sodium radialt	74.2	0.0058 mg/L	0.00534	0.0058 mg/L	0.00534	92.42%
Potassium radialt	44.6	0.0423 mg/L	0.02817	0.0423 mg/L	0.02817	66.54%
Stonrium radialt	4.5	-0.0007 mg/L	0.00004	-0.0007 mg/L	0.00004	5.28%

Sequence No.: 200
Sample ID: RINSE BLANK
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 137
Date Collected: 3/6/2011 9:42:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: RINSE BLANK

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	689467.4	101.1	%	0.48				0.47%
Aluminumt	696.6	0.0108	mg/L	0.00148	0.0108	mg/L	0.00148	13.76%
Antimonyt	1.7	-0.0013	mg/L	0.00153	-0.0013	mg/L	0.00153	114.15%
Arsenict	1.8	0.0014	mg/L	0.00127	0.0014	mg/L	0.00127	91.65%
Bariumt	-11.1	-0.0009	mg/L	0.00017	-0.0009	mg/L	0.00017	18.27%
Berylliumt	1.2	-0.0010	mg/L	0.00005	-0.0010	mg/L	0.00005	4.57%
Boront	314.9	0.0130	mg/L	0.00080	0.0130	mg/L	0.00080	6.18%
Cadmiumt	0.0	-0.0012	mg/L	0.00009	-0.0012	mg/L	0.00009	7.61%
Chromiumt	7.7	-0.0009	mg/L	0.00057	-0.0009	mg/L	0.00057	59.92%
Cobaltt	2.1	-0.0019	mg/L	0.00020	-0.0019	mg/L	0.00020	10.16%
Coppert	20.3	-0.0011	mg/L	0.00072	-0.0011	mg/L	0.00072	62.66%
Lithiumt	-420.3	-0.0028	mg/L	0.00002	-0.0028	mg/L	0.00002	0.59%
Manganeset	-19.2	-0.0024	mg/L	0.00006	-0.0024	mg/L	0.00006	2.61%
Molybdenumt	-4.0	-0.0007	mg/L	0.00060	-0.0007	mg/L	0.00060	91.44%
Nickelt	-2.3	-0.0021	mg/L	0.00069	-0.0021	mg/L	0.00069	33.44%
Leadt	3.5	0.0013	mg/L	0.00137	0.0013	mg/L	0.00137	103.67%
Seleniumt	-0.8	0.0001	mg/L	0.00424	0.0001	mg/L	0.00424	>999.9%
Silvert	-108.6	-0.0017	mg/L	0.00076	-0.0017	mg/L	0.00076	44.19%
Strontiumt	540.2	-0.0011	mg/L	0.00001	-0.0011	mg/L	0.00001	0.80%
Tint	0.1	-0.0017	mg/L	0.00090	-0.0017	mg/L	0.00090	52.06%
Thalliumt	5.1	0.0006	mg/L	0.00098	0.0006	mg/L	0.00098	171.41%
Titaniumt	2.8	-0.0020	mg/L	0.00001	-0.0020	mg/L	0.00001	0.60%
Vanadiumt	62.2	0.0013	mg/L	0.00056	0.0013	mg/L	0.00056	44.28%
Zinct	237.4	0.0171	mg/L	0.00038	0.0171	mg/L	0.00038	2.20%
Argon	5565801.7	103.7	mg/L	0.10	103.7	mg/L	0.10	0.09%
Sodiumt	363.3	0.0722	mg/L	0.00018	0.0722	mg/L	0.00018	0.26%
Magnesiumt	201.4	0.0011	mg/L	0.00003	0.0011	mg/L	0.00003	2.50%
Iront	55.6	-0.0012	mg/L	0.00007	-0.0012	mg/L	0.00007	5.98%
Calciumt	139.9	-0.0198	mg/L	0.00074	-0.0198	mg/L	0.00074	3.72%
Potassiumt	459.7	0.0912	mg/L	0.00020	0.0912	mg/L	0.00020	0.22%
Aluminum radialt	-23.8	-0.0063	mg/L	0.01109	-0.0063	mg/L	0.01109	175.11%
Calcium radialt	7.6	-0.0222	mg/L	0.00287	-0.0222	mg/L	0.00287	12.91%
Iron radialt	12.3	0.0029	mg/L	0.00182	0.0029	mg/L	0.00182	63.61%

Magnesium radial†	19.0	-0.0003 mg/L	0.00137	-0.0003 mg/L	0.00137	536.33%
Sodium radial†	57.5	0.0012 mg/L	0.00519	0.0012 mg/L	0.00519	442.13%
Potassium radial†	35.3	0.0287 mg/L	0.01430	0.0287 mg/L	0.01430	49.86%
Stonrium radial†	-7.7	-0.0008 mg/L	0.00002	-0.0008 mg/L	0.00002	2.19%

Sequence No.: 201
Sample ID: MBLK-98097
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 138
Date Collected: 3/6/2011 9:45:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MBLK-98097

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: MBLK-98097

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Yttrium	694533.3	101.9	%	0.58				0.56%
Aluminum†	1027.1	0.0184	mg/L	0.00032	0.0184	mg/L	0.00032	1.73%
Antimony†	11.3	0.0104	mg/L	0.00264	0.0104	mg/L	0.00264	25.35%
Arsenic†	2.8	0.0027	mg/L	0.00136	0.0027	mg/L	0.00136	50.34%
Barium†	15.7	-0.0005	mg/L	0.00003	-0.0005	mg/L	0.00003	7.20%
Beryllium†	-25.6	-0.0010	mg/L	0.00003	-0.0010	mg/L	0.00003	3.34%
Boron†	304.7	0.0126	mg/L	0.00055	0.0126	mg/L	0.00055	4.37%
Cadmium†	-3.4	-0.0015	mg/L	0.00032	-0.0015	mg/L	0.00032	22.21%
Chromium†	81.4	0.0001	mg/L	0.00011	0.0001	mg/L	0.00011	140.27%
Cobalt†	-1.0	-0.0021	mg/L	0.00046	-0.0021	mg/L	0.00046	21.65%
Copper†	17.9	-0.0012	mg/L	0.00038	-0.0012	mg/L	0.00038	32.37%
Lithium†	-164.2	-0.0028	mg/L	0.00000	-0.0028	mg/L	0.00000	0.17%
Manganese†	43.7	-0.0023	mg/L	0.00005	-0.0023	mg/L	0.00005	2.38%
Molybdenum†	-8.4	-0.0013	mg/L	0.00055	-0.0013	mg/L	0.00055	43.15%
Nickel†	6.7	-0.0015	mg/L	0.00096	-0.0015	mg/L	0.00096	64.10%
Lead†	-1.6	-0.0011	mg/L	0.00308	-0.0011	mg/L	0.00308	272.72%
Selenium†	-2.2	-0.0027	mg/L	0.00573	-0.0027	mg/L	0.00573	211.39%
Silver†	-195.3	-0.0024	mg/L	0.00099	-0.0024	mg/L	0.00099	42.06%
Strontium†	3191.6	-0.0008	mg/L	0.00001	-0.0008	mg/L	0.00001	1.09%
Tin†	1.9	0.0002	mg/L	0.00387	0.0002	mg/L	0.00387	>999.9%
Thallium†	3.0	-0.0006	mg/L	0.00286	-0.0006	mg/L	0.00286	456.14%
Titanium†	-12.3	-0.0020	mg/L	0.00018	-0.0020	mg/L	0.00018	8.66%
Vanadium†	34.3	0.0009	mg/L	0.00078	0.0009	mg/L	0.00078	89.42%
Zinc†	41.2	0.0019	mg/L	0.00002	0.0019	mg/L	0.00002	1.25%
Argon	5596481.9	104.3	mg/L	0.14	104.3	mg/L	0.14	0.13%
Sodium†	1784.0	0.0774	mg/L	0.00044	0.0774	mg/L	0.00044	0.57%
Magnesium†	684.1	0.0032	mg/L	0.00025	0.0032	mg/L	0.00025	7.91%
Iron†	277.4	0.0039	mg/L	0.00032	0.0039	mg/L	0.00032	8.06%
Calcium†	6711.0	0.0282	mg/L	0.00075	0.0282	mg/L	0.00075	2.64%
Potassium†	525.7	0.0917	mg/L	0.00016	0.0917	mg/L	0.00016	0.17%
Aluminum radial†	3.7	0.0090	mg/L	0.00780	0.0090	mg/L	0.00780	86.67%
Calcium radial†	283.3	0.0252	mg/L	0.00360	0.0252	mg/L	0.00360	14.27%
Iron radial†	13.5	0.0036	mg/L	0.00066	0.0036	mg/L	0.00066	18.64%
Magnesium radial†	36.2	0.0016	mg/L	0.00039	0.0016	mg/L	0.00039	24.92%
Sodium radial†	57.2	0.0011	mg/L	0.00656	0.0011	mg/L	0.00656	611.96%
Potassium radial†	27.7	0.0176	mg/L	0.02641	0.0176	mg/L	0.02641	149.89%
Stonrium radial†	143.6	-0.0005	mg/L	0.00002	-0.0005	mg/L	0.00002	5.00%

Sequence No.: 202
Sample ID: LCS-98097
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 139
Date Collected: 3/6/2011 9:47:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCS-98097

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: LCS-98097

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	696560.8	102.2	%	3.29				3.22%
Aluminumt	239308.2	5.506	mg/L	0.0235	5.506	mg/L	0.0235	0.43%
Antimonyt	88.0	0.1028	mg/L	0.00223	0.1028	mg/L	0.00223	2.17%
Arsenict	91.6	0.1144	mg/L	0.00972	0.1144	mg/L	0.00972	8.50%
Bariumt	6095.8	0.1062	mg/L	0.00052	0.1062	mg/L	0.00052	0.49%
Berylliumt	212586.6	0.1080	mg/L	0.00020	0.1080	mg/L	0.00020	0.19%
Boront	2783.2	0.1162	mg/L	0.00105	0.1162	mg/L	0.00105	0.91%
Cadmiumt	1864.8	0.1048	mg/L	0.00485	0.1048	mg/L	0.00485	4.62%
Chromiumt	7723.8	0.1062	mg/L	0.00114	0.1062	mg/L	0.00114	1.07%
Cobaltt	1558.1	0.1055	mg/L	0.00431	0.1055	mg/L	0.00431	4.09%
Coppert	10625.1	0.1058	mg/L	0.00180	0.1058	mg/L	0.00180	1.70%
Lithiumt	797885.8	0.0992	mg/L	0.00025	0.0992	mg/L	0.00025	0.25%
Manganeset	46753.1	0.1037	mg/L	0.00110	0.1037	mg/L	0.00110	1.06%
Molybdenumt	709.2	0.1004	mg/L	0.00436	0.1004	mg/L	0.00436	4.35%
Nickelt	1682.4	0.1062	mg/L	0.00461	0.1062	mg/L	0.00461	4.34%
Leadt	218.3	0.1059	mg/L	0.00237	0.1059	mg/L	0.00237	2.23%
Seleniumt	252.9	0.5345	mg/L	0.01356	0.5345	mg/L	0.01356	2.54%
Silvert	13951.6	0.1026	mg/L	0.00110	0.1026	mg/L	0.00110	1.07%
Strontiumt	1332071.9	0.1047	mg/L	0.00385	0.1047	mg/L	0.00385	3.68%
Tint	98.2	0.1017	mg/L	0.00750	0.1017	mg/L	0.00750	7.38%
Thalliumt	174.7	0.0999	mg/L	0.00541	0.0999	mg/L	0.00541	5.42%
Titaniumt	23806.8	0.1040	mg/L	0.00117	0.1040	mg/L	0.00117	1.12%
Vanadiumt	8060.3	0.1104	mg/L	0.00253	0.1104	mg/L	0.00253	2.29%
Zinct	1450.5	0.1112	mg/L	0.00502	0.1112	mg/L	0.00502	4.51%
Argon	5587694.2	104.1	mg/L	0.14	104.1	mg/L	0.14	0.13%
Sodiumt	1387349.0	5.152	mg/L	0.1585	5.152	mg/L	0.1585	3.08%
Magnesiumt	1240562.5	5.371	mg/L	0.0046	5.371	mg/L	0.0046	0.09%
Iront	230064.4	5.365	mg/L	0.0156	5.365	mg/L	0.0156	0.29%
Calciumt	762343.3	5.558	mg/L	0.0177	5.558	mg/L	0.0177	0.32%
Potassiumt	594553.1	5.254	mg/L	0.0353	5.254	mg/L	0.0353	0.67%
Aluminum radialt	9848.8	5.486	mg/L	0.2553	5.486	mg/L	0.2553	4.65%
Calcium radialt	33965.0	5.821	mg/L	0.2604	5.821	mg/L	0.2604	4.47%
Iron radialt	9313.5	5.721	mg/L	0.2519	5.721	mg/L	0.2519	4.40%
Magnesium radialt	52825.6	5.568	mg/L	0.2416	5.568	mg/L	0.2416	4.34%
Sodium radialt	19521.7	5.375	mg/L	0.2522	5.375	mg/L	0.2522	4.69%
Potassium radialt	3721.1	5.421	mg/L	0.2564	5.421	mg/L	0.2564	4.73%
Stonrium radialt	54619.8	0.1054	mg/L	0.00378	0.1054	mg/L	0.00378	3.59%

Sequence No.: 203
Sample ID: 11020727-33A
Analyst:
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 140
Date Collected: 3/6/2011 9:49:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-33A

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-33A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	703300.7	103.2	%	0.61				0.59%
Aluminumt	74174.5	1.703	mg/L	0.0074	8.515	mg/L	0.0368	0.43%
Antimonyt	4.7	0.0022	mg/L	0.00180	0.0109	mg/L	0.00902	82.56%
Arsenict	0.7	0.0000	mg/L	0.00392	0.0002	mg/L	0.01962	>999.9%
Bariumt	353.1	0.0055	mg/L	0.00005	0.0273	mg/L	0.00024	0.87%
Berylliumt	394.9	-0.0008	mg/L	0.00008	-0.0040	mg/L	0.00041	10.18%
Boront	436.2	0.0181	mg/L	0.00071	0.0904	mg/L	0.00356	3.94%
Cadmiumt	195.8	0.0101	mg/L	0.00021	0.0507	mg/L	0.00106	2.08%
Chromiumt	807.0	0.0102	mg/L	0.00025	0.0508	mg/L	0.00123	2.42%
Cobaltt	71.8	0.0029	mg/L	0.00064	0.0145	mg/L	0.00318	21.95%
Coppert	650.1	0.0053	mg/L	0.00066	0.0263	mg/L	0.00332	12.62%
Lithiumt	21678.2	0.0000	mg/L	0.00001	0.0000	mg/L	0.00006	126.73%
Manganeset	67862.7	0.1516	mg/L	0.00300	0.7580	mg/L	0.01501	1.98%
Molybdenumt	0.5	0.0000	mg/L	0.00090	-0.0001	mg/L	0.00451	>999.9%
Nickelt	203.3	0.0111	mg/L	0.00109	0.0557	mg/L	0.00545	9.79%

Lead†	17.0	0.0080 mg/L	0.00099	0.0398 mg/L	0.00496	12.45%
Selenium†	-2.1	-0.0024 mg/L	0.01332	-0.0122 mg/L	0.06659	547.85%
Silver†	-246.5	-0.0028 mg/L	0.00071	-0.0142 mg/L	0.00354	24.97%
Strontium†	233335.9	0.0174 mg/L	0.00010	0.0868 mg/L	0.00048	0.55%
Tin†	-1.9	-0.0034 mg/L	0.00516	-0.0170 mg/L	0.02580	151.80%
Thallium†	-3.2	-0.0043 mg/L	0.00524	-0.0213 mg/L	0.02618	122.96%
Titanium†	99.7	-0.0015 mg/L	0.00007	-0.0077 mg/L	0.00037	4.82%
Vanadium†	211.1	0.0032 mg/L	0.00110	0.0161 mg/L	0.00549	34.12%
Zinc†	1731.7	0.1330 mg/L	0.00080	0.6652 mg/L	0.00399	0.60%
Argon	5591848.6	104.2 mg/L	0.30	521.0 mg/L	1.50	0.29%
Sodium†	2133480.9	7.884 mg/L	0.0613	39.42 mg/L	0.307	0.78%
Magnesium†	343604.5	1.488 mg/L	0.0034	7.439 mg/L	0.0169	0.23%
Iron†	3842.1	0.0871 mg/L	0.00098	0.4356 mg/L	0.00491	1.13%
Calcium†	500480.2	3.642 mg/L	0.0094	18.21 mg/L	0.047	0.26%
Potassium†	70601.6	0.7007 mg/L	0.00445	3.503 mg/L	0.0223	0.64%
Aluminum radial†	2996.4	1.674 mg/L	0.0118	8.370 mg/L	0.0589	0.70%
Calcium radial†	22095.7	3.779 mg/L	0.0530	18.89 mg/L	0.265	1.40%
Iron radial†	158.9	0.0930 mg/L	0.00236	0.4648 mg/L	0.01180	2.54%
Magnesium radial†	14681.1	1.546 mg/L	0.0157	7.729 mg/L	0.0784	1.01%
Sodium radial†	30782.8	8.484 mg/L	0.1012	42.42 mg/L	0.506	1.19%
Potassium radial†	469.5	0.6640 mg/L	0.01765	3.320 mg/L	0.0883	2.66%
Stonrium radial†	9670.9	0.0180 mg/L	0.00009	0.0902 mg/L	0.00045	0.50%

Sequence No.: 204
Sample ID: 11020727-33ASD
Analyst:
Initial Sample Wt:
Dilution: 25X

Autosampler Location: 141
Date Collected: 3/6/2011 9:51:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-33ASD

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-33ASD

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	699550.1	102.6	%	0.23				0.22%
Aluminum†	12991.9	0.2940	mg/L	0.00363	7.349	mg/L	0.0908	1.24%
Antimony†	1.3	-0.0019	mg/L	0.00205	-0.0467	mg/L	0.05124	109.75%
Arsenic†	4.5	0.0049	mg/L	0.00486	0.1213	mg/L	0.12138	100.04%
Barium†	53.3	0.0002	mg/L	0.00002	0.0048	mg/L	0.00047	9.88%
Beryllium†	104.0	-0.0010	mg/L	0.00006	-0.0239	mg/L	0.00140	5.83%
Boron†	100.6	0.0041	mg/L	0.00046	0.1020	mg/L	0.01153	11.30%
Cadmium†	26.6	0.0002	mg/L	0.00018	0.0059	mg/L	0.00454	76.62%
Chromium†	17.9	-0.0008	mg/L	0.00055	-0.0201	mg/L	0.01376	68.37%
Cobalt†	9.7	-0.0014	mg/L	0.00071	-0.0350	mg/L	0.01774	50.77%
Copper†	116.0	-0.0002	mg/L	0.00104	-0.0042	mg/L	0.02598	615.72%
Lithium†	3390.0	-0.0023	mg/L	0.00001	-0.0582	mg/L	0.00023	0.40%
Manganese†	11657.6	0.0241	mg/L	0.00029	0.6018	mg/L	0.00719	1.19%
Molybdenum†	-7.5	-0.0011	mg/L	0.00070	-0.0286	mg/L	0.01750	61.29%
Nickel†	30.3	0.0000	mg/L	0.00015	0.0005	mg/L	0.00384	703.16%
Lead†	2.1	0.0006	mg/L	0.00222	0.0162	mg/L	0.05548	342.21%
Selenium†	-1.4	-0.0011	mg/L	0.01225	-0.0282	mg/L	0.30635	>999.9%
Silver†	-185.2	-0.0023	mg/L	0.00068	-0.0575	mg/L	0.01693	29.45%
Strontium†	41713.2	0.0022	mg/L	0.00001	0.0551	mg/L	0.00015	0.27%
Tin†	0.3	-0.0015	mg/L	0.00379	-0.0373	mg/L	0.09484	254.05%
Thallium†	1.1	-0.0018	mg/L	0.00391	-0.0442	mg/L	0.09784	221.57%
Titanium†	41.4	-0.0018	mg/L	0.00014	-0.0452	mg/L	0.00362	8.01%
Vanadium†	81.0	0.0015	mg/L	0.00069	0.0377	mg/L	0.01735	46.01%
Zinc†	104.3	0.0068	mg/L	0.00045	0.1697	mg/L	0.01119	6.59%
Argon	5599765.6	104.3	mg/L	0.14	2609	mg/L	3.5	0.13%
Sodium†	339231.3	1.313	mg/L	0.0050	32.83	mg/L	0.125	0.38%
Magnesium†	58947.1	0.2554	mg/L	0.00260	6.385	mg/L	0.0651	1.02%
Iron†	371.2	0.0061	mg/L	0.00002	0.1534	mg/L	0.00043	0.28%
Calcium†	86081.0	0.6091	mg/L	0.00790	15.23	mg/L	0.197	1.30%
Potassium†	11089.0	0.1835	mg/L	0.00015	4.588	mg/L	0.0039	0.08%
Aluminum radial†	461.7	0.2638	mg/L	0.02230	6.595	mg/L	0.5576	8.46%
Calcium radial†	3829.6	0.6355	mg/L	0.01134	15.89	mg/L	0.283	1.78%
Iron radial†	18.7	0.0068	mg/L	0.00284	0.1700	mg/L	0.07092	41.72%

Magnesium radial†	2587.8	0.2706 mg/L	0.00041	6.765 mg/L	0.0104	0.15%
Sodium radial†	5353.1	1.463 mg/L	0.0388	36.58 mg/L	0.970	2.65%
Potassium radial†	143.6	0.1872 mg/L	0.02878	4.681 mg/L	0.7195	15.37%
Stonrium radial†	1757.8	0.0027 mg/L	0.00015	0.0666 mg/L	0.00375	5.62%

Sequence No.: 205
Sample ID: 11020727-33AMS
Analyst:
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 142
Date Collected: 3/6/2011 9:52:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-33AMS

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-33AMS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	707011.7	103.7	%	1.56				1.50%
Aluminum†	131272.8	3.018	mg/L	0.0077	15.09	mg/L	0.038	0.25%
Antimony†	17.6	0.0178	mg/L	0.00446	0.0890	mg/L	0.02230	25.05%
Arsenic†	19.4	0.0235	mg/L	0.00500	0.1173	mg/L	0.02501	21.32%
Barium†	1543.9	0.0263	mg/L	0.00036	0.1317	mg/L	0.00181	1.37%
Beryllium†	42962.7	0.0210	mg/L	0.00018	0.1051	mg/L	0.00090	0.86%
Boron†	971.7	0.0405	mg/L	0.00104	0.2023	mg/L	0.00522	2.58%
Cadmium†	575.9	0.0318	mg/L	0.00057	0.1588	mg/L	0.00284	1.79%
Chromium†	1521.0	0.0201	mg/L	0.00025	0.1004	mg/L	0.00124	1.23%
Cobalt†	360.5	0.0228	mg/L	0.00105	0.1142	mg/L	0.00523	4.58%
Copper†	2736.1	0.0263	mg/L	0.00081	0.1316	mg/L	0.00403	3.06%
Lithium†	188205.4	0.0213	mg/L	0.00008	0.1065	mg/L	0.00040	0.38%
Manganese†	88921.8	0.1994	mg/L	0.00188	0.9970	mg/L	0.00940	0.94%
Molybdenum†	131.3	0.0185	mg/L	0.00143	0.0926	mg/L	0.00715	7.72%
Nickel†	445.8	0.0267	mg/L	0.00149	0.1336	mg/L	0.00744	5.57%
Lead†	56.2	0.0270	mg/L	0.00257	0.1352	mg/L	0.01283	9.49%
Selenium†	49.1	0.1053	mg/L	0.00789	0.5264	mg/L	0.03947	7.50%
Silver†	2684.4	0.0189	mg/L	0.00049	0.0945	mg/L	0.00247	2.62%
Strontium†	535745.7	0.0414	mg/L	0.00011	0.2068	mg/L	0.00054	0.26%
Tin†	17.7	0.0173	mg/L	0.00284	0.0863	mg/L	0.01419	16.45%
Thallium†	27.4	0.0136	mg/L	0.00072	0.0681	mg/L	0.00359	5.27%
Titanium†	4767.9	0.0192	mg/L	0.00007	0.0962	mg/L	0.00036	0.37%
Vanadium†	1733.7	0.0240	mg/L	0.00046	0.1199	mg/L	0.00230	1.92%
Zinc†	737.6	0.0559	mg/L	0.00080	0.2796	mg/L	0.00402	1.44%
Argon	5593799.7	104.2	mg/L	0.20	521.2	mg/L	0.99	0.19%
Sodium†	2960794.3	10.91	mg/L	0.226	54.57	mg/L	1.128	2.07%
Magnesium†	644070.9	2.789	mg/L	0.0030	13.94	mg/L	0.015	0.11%
Iron†	47979.4	1.117	mg/L	0.0100	5.585	mg/L	0.0502	0.90%
Calcium†	725739.4	5.291	mg/L	0.0060	26.45	mg/L	0.030	0.11%
Potassium†	194076.6	1.774	mg/L	0.0089	8.868	mg/L	0.0447	0.50%
Aluminum radial†	5319.9	2.967	mg/L	0.0432	14.83	mg/L	0.216	1.46%
Calcium radial†	31244.2	5.353	mg/L	0.0918	26.76	mg/L	0.459	1.72%
Iron radial†	1909.0	1.169	mg/L	0.0200	5.845	mg/L	0.1000	1.71%
Magnesium radial†	26862.5	2.830	mg/L	0.0500	14.15	mg/L	0.250	1.77%
Sodium radial†	40207.7	11.09	mg/L	0.163	55.43	mg/L	0.817	1.47%
Potassium radial†	1203.1	1.737	mg/L	0.0217	8.687	mg/L	0.1087	1.25%
Stonrium radial†	21926.1	0.0419	mg/L	0.00057	0.2094	mg/L	0.00287	1.37%

Sequence No.: 206
Sample ID: 11020727-33AMSD
Analyst:
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 143
Date Collected: 3/6/2011 9:54:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-33AMSD

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-33AMSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	701166.5	102.9	%	0.18				0.17%
Aluminumt	127780.9	2.938	mg/L	0.0102	14.69	mg/L	0.051	0.35%
Antimonyt	19.8	0.0206	mg/L	0.01020	0.1028	mg/L	0.05098	49.59%
Arsenict	20.8	0.0253	mg/L	0.00301	0.1263	mg/L	0.01506	11.92%
Bariumt	1540.1	0.0263	mg/L	0.00030	0.1314	mg/L	0.00152	1.16%
Berylliumt	43246.4	0.0212	mg/L	0.00024	0.1059	mg/L	0.00122	1.16%
Boront	959.2	0.0399	mg/L	0.00022	0.1996	mg/L	0.00112	0.56%
Cadmiumt	599.9	0.0331	mg/L	0.00034	0.1655	mg/L	0.00171	1.03%
Chromiumt	1609.3	0.0213	mg/L	0.00039	0.1065	mg/L	0.00194	1.82%
Cobaltt	360.9	0.0229	mg/L	0.00042	0.1143	mg/L	0.00212	1.86%
Coppert	2846.9	0.0274	mg/L	0.00109	0.1371	mg/L	0.00545	3.97%
Lithiumt	186043.8	0.0210	mg/L	0.00008	0.1051	mg/L	0.00042	0.40%
Manganeset	89510.6	0.2007	mg/L	0.00259	1.004	mg/L	0.0130	1.29%
Molybdenumt	137.6	0.0194	mg/L	0.00073	0.0971	mg/L	0.00367	3.78%
Nickelt	441.3	0.0264	mg/L	0.00034	0.1321	mg/L	0.00170	1.29%
Leadt	61.7	0.0297	mg/L	0.00033	0.1485	mg/L	0.00165	1.11%
Seleniumt	49.3	0.1057	mg/L	0.00411	0.5286	mg/L	0.02057	3.89%
Silvert	2580.1	0.0181	mg/L	0.00123	0.0907	mg/L	0.00615	6.78%
Strontiumt	530264.5	0.0409	mg/L	0.00005	0.2047	mg/L	0.00023	0.11%
Tint	19.4	0.0190	mg/L	0.00266	0.0951	mg/L	0.01332	14.01%
Thalliumt	32.3	0.0165	mg/L	0.00330	0.0824	mg/L	0.01648	19.99%
Titaniumt	4755.5	0.0192	mg/L	0.00030	0.0959	mg/L	0.00148	1.54%
Vanadiumt	1859.2	0.0257	mg/L	0.00165	0.1286	mg/L	0.00824	6.41%
Zinct	751.8	0.0570	mg/L	0.00056	0.2851	mg/L	0.00281	0.98%
Argon	5591341.1	104.2	mg/L	0.45	521.0	mg/L	2.24	0.43%
Sodiumt	2948626.7	10.87	mg/L	0.045	54.35	mg/L	0.225	0.41%
Magnesiumt	636613.0	2.756	mg/L	0.0051	13.78	mg/L	0.025	0.18%
Iront	48277.9	1.124	mg/L	0.0150	5.619	mg/L	0.0750	1.33%
Calciumt	715961.7	5.219	mg/L	0.0063	26.09	mg/L	0.031	0.12%
Potassiumt	191793.9	1.754	mg/L	0.0059	8.769	mg/L	0.0295	0.34%
Aluminum radialt	5233.8	2.919	mg/L	0.0094	14.59	mg/L	0.047	0.32%
Calcium radialt	31333.5	5.368	mg/L	0.0155	26.84	mg/L	0.077	0.29%
Iron radialt	1914.8	1.172	mg/L	0.0026	5.862	mg/L	0.0132	0.23%
Magnesium radialt	26882.9	2.832	mg/L	0.0027	14.16	mg/L	0.013	0.09%
Sodium radialt	39747.5	10.96	mg/L	0.010	54.79	mg/L	0.052	0.09%
Potassium radialt	1207.2	1.743	mg/L	0.0449	8.716	mg/L	0.2243	2.57%
Stonrium radialt	21723.8	0.0415	mg/L	0.00028	0.2074	mg/L	0.00142	0.69%

Sequence No.: 207 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 3/6/2011 9:56:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	688993.9	101.1	%	1.41				1.40%
Aluminumt	24327.6	0.5550	mg/L	0.01180	0.5550	mg/L	0.01180	2.13%
QC value greater than the upper limit for Aluminum Recovery = 111.01%								
Antimonyt	413.2	0.4930	mg/L	0.00971	0.4930	mg/L	0.00971	1.97%
QC value within limits for Antimony Recovery = 98.60%								
Arsenict	409.0	0.5152	mg/L	0.01360	0.5152	mg/L	0.01360	2.64%
QC value within limits for Arsenic Recovery = 103.05%								
Bariumt	29142.8	0.5107	mg/L	0.00767	0.5107	mg/L	0.00767	1.50%
QC value within limits for Barium Recovery = 102.13%								
Berylliumt	993824.2	0.5088	mg/L	0.00196	0.5088	mg/L	0.00196	0.39%
QC value within limits for Beryllium Recovery = 101.76%								
Boront	12449.3	0.5190	mg/L	0.01088	0.5190	mg/L	0.01088	2.10%
QC value within limits for Boron Recovery = 103.80%								
Cadmiumt	8903.8	0.5058	mg/L	0.00668	0.5058	mg/L	0.00668	1.32%
QC value within limits for Cadmium Recovery = 101.17%								

Chromium†	37186.0	0.5154 mg/L	0.01043	0.5154 mg/L	0.01043	2.02%
QC value within limits for Chromium Recovery = 103.09%						
Cobalt†	7470.6	0.5139 mg/L	0.00923	0.5139 mg/L	0.00923	1.80%
QC value within limits for Cobalt Recovery = 102.78%						
Copper†	51442.2	0.5170 mg/L	0.00919	0.5170 mg/L	0.00919	1.78%
QC value within limits for Copper Recovery = 103.40%						
Lithium†	3899030.3	0.4956 mg/L	0.00446	0.4956 mg/L	0.00446	0.90%
QC value within limits for Lithium Recovery = 99.12%						
Manganese†	222949.0	0.5035 mg/L	0.00188	0.5035 mg/L	0.00188	0.37%
QC value within limits for Manganese Recovery = 100.70%						
Molybdenum†	3466.5	0.4901 mg/L	0.00809	0.4901 mg/L	0.00809	1.65%
QC value within limits for Molybdenum Recovery = 98.02%						
Nickel†	8331.4	0.5333 mg/L	0.01123	0.5333 mg/L	0.01123	2.11%
QC value within limits for Nickel Recovery = 106.66%						
Lead†	1066.9	0.5181 mg/L	0.01128	0.5181 mg/L	0.01128	2.18%
QC value within limits for Lead Recovery = 103.62%						
Selenium†	238.0	0.5014 mg/L	0.00971	0.5014 mg/L	0.00971	1.94%
QC value within limits for Selenium Recovery = 100.28%						
Silver†	68605.1	0.5089 mg/L	0.00827	0.5089 mg/L	0.00827	1.63%
QC value within limits for Silver Recovery = 101.78%						
Strontium†	3201966.8	0.2535 mg/L	0.00180	0.2535 mg/L	0.00180	0.71%
QC value within limits for Strontium Recovery = 101.40%						
Tin†	495.5	0.5174 mg/L	0.01409	0.5174 mg/L	0.01409	2.72%
QC value within limits for Tin Recovery = 103.49%						
Thallium†	831.7	0.4846 mg/L	0.00915	0.4846 mg/L	0.00915	1.89%
QC value within limits for Thallium Recovery = 96.91%						
Titanium†	113360.8	0.5028 mg/L	0.00314	0.5028 mg/L	0.00314	0.63%
QC value within limits for Titanium Recovery = 100.56%						
Vanadium†	36620.7	0.5073 mg/L	0.01002	0.5073 mg/L	0.01002	1.98%
QC value within limits for Vanadium Recovery = 101.46%						
Zinc†	6921.1	0.5356 mg/L	0.01009	0.5356 mg/L	0.01009	1.88%
QC value within limits for Zinc Recovery = 107.12%						
Argon	5572815.5	103.8 mg/L	0.07	103.8 mg/L	0.07	0.07%
Sodium†	1279730.4	4.758 mg/L	0.0195	4.758 mg/L	0.0195	0.41%
QC value within limits for Sodium Recovery = 95.15%						
Magnesium†	117254.1	0.5078 mg/L	0.00947	0.5078 mg/L	0.00947	1.86%
QC value within limits for Magnesium Recovery = 101.57%						
Iron†	28699.1	0.6671 mg/L	0.01271	0.6671 mg/L	0.01271	1.91%
QC value greater than the upper limit for Iron Recovery = 133.42%						
Calcium†	84974.5	0.6010 mg/L	0.01295	0.6010 mg/L	0.01295	2.15%
QC value greater than the upper limit for Calcium Recovery = 120.20%						
Potassium†	540619.1	4.785 mg/L	0.0258	4.785 mg/L	0.0258	0.54%
QC value within limits for Potassium Recovery = 95.70%						
Aluminum radial†	944.8	0.5326 mg/L	0.00411	0.5326 mg/L	0.00411	0.77%
QC value within limits for Aluminum radial Recovery = 106.51%						
Calcium radial†	3743.3	0.6206 mg/L	0.01052	0.6206 mg/L	0.01052	1.70%
QC value greater than the upper limit for Calcium radial Recovery = 124.12%						
Iron radial†	1142.5	0.6977 mg/L	0.00123	0.6977 mg/L	0.00123	0.18%
QC value greater than the upper limit for Iron radial Recovery = 139.54%						
Magnesium radial†	4997.2	0.5247 mg/L	0.00711	0.5247 mg/L	0.00711	1.36%
QC value within limits for Magnesium radial Recovery = 104.94%						
Sodium radial†	18405.2	5.067 mg/L	0.0726	5.067 mg/L	0.0726	1.43%
QC value within limits for Sodium radial Recovery = 101.33%						
Potassium radial†	3483.6	5.074 mg/L	0.0171	5.074 mg/L	0.0171	0.34%
QC value within limits for Potassium radial Recovery = 101.48%						
Stonrium radial†	132183.6	0.2562 mg/L	0.00306	0.2562 mg/L	0.00306	1.19%
QC value within limits for Stonrium radial Recovery = 102.49%						

QC Failed. Continue with analysis.

Sequence No.: 208 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 3/6/2011 9:59:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	694053.0	101.8	%	0.66				0.65%
Aluminum†	564.1	0.0077	mg/L	0.00038	0.0077	mg/L	0.00038	4.89%
QC value within limits for Aluminum Recovery = Not calculated								
Antimony†	1.8	-0.0012	mg/L	0.00416	-0.0012	mg/L	0.00416	340.52%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	1.1	0.0006	mg/L	0.00779	0.0006	mg/L	0.00779	>999.9%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	2.6	-0.0007	mg/L	0.00017	-0.0007	mg/L	0.00017	23.88%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	-80.2	-0.0011	mg/L	0.00003	-0.0011	mg/L	0.00003	3.11%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	73.2	0.0029	mg/L	0.00034	0.0029	mg/L	0.00034	11.59%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	-7.1	-0.0016	mg/L	0.00043	-0.0016	mg/L	0.00043	26.34%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	32.1	-0.0006	mg/L	0.00032	-0.0006	mg/L	0.00032	52.08%
QC value within limits for Chromium Recovery = Not calculated								
Cobalt†	3.9	-0.0018	mg/L	0.00027	-0.0018	mg/L	0.00027	15.02%
QC value within limits for Cobalt Recovery = Not calculated								
Copper†	-11.6	-0.0015	mg/L	0.00052	-0.0015	mg/L	0.00052	35.80%
QC value within limits for Copper Recovery = Not calculated								
Lithium†	-369.8	-0.0028	mg/L	0.00001	-0.0028	mg/L	0.00001	0.43%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	-13.5	-0.0024	mg/L	0.00005	-0.0024	mg/L	0.00005	2.03%
QC value within limits for Manganese Recovery = Not calculated								
Molybdenum†	-3.2	-0.0005	mg/L	0.00033	-0.0005	mg/L	0.00033	60.99%
QC value within limits for Molybdenum Recovery = Not calculated								
Nickel†	10.4	-0.0013	mg/L	0.00081	-0.0013	mg/L	0.00081	64.50%
QC value within limits for Nickel Recovery = Not calculated								
Lead†	-0.0	-0.0004	mg/L	0.00364	-0.0004	mg/L	0.00364	944.71%
QC value within limits for Lead Recovery = Not calculated								
Selenium†	-1.9	-0.0021	mg/L	0.00297	-0.0021	mg/L	0.00297	140.53%
QC value within limits for Selenium Recovery = Not calculated								
Silver†	-69.9	-0.0014	mg/L	0.00090	-0.0014	mg/L	0.00090	63.26%
QC value within limits for Silver Recovery = Not calculated								
Strontium†	570.9	-0.0011	mg/L	0.00001	-0.0011	mg/L	0.00001	0.51%
QC value within limits for Strontium Recovery = Not calculated								
Tin†	-1.0	-0.0028	mg/L	0.00188	-0.0028	mg/L	0.00188	66.41%
QC value within limits for Tin Recovery = Not calculated								
Thallium†	-3.9	-0.0047	mg/L	0.00186	-0.0047	mg/L	0.00186	39.59%
QC value within limits for Thallium Recovery = Not calculated								
Titanium†	15.0	-0.0019	mg/L	0.00021	-0.0019	mg/L	0.00021	10.78%
QC value within limits for Titanium Recovery = Not calculated								
Vanadium†	97.0	0.0017	mg/L	0.00051	0.0017	mg/L	0.00051	28.95%
QC value within limits for Vanadium Recovery = Not calculated								
Zinc†	3.7	-0.0010	mg/L	0.00025	-0.0010	mg/L	0.00025	24.27%
QC value within limits for Zinc Recovery = Not calculated								
Argon	5573882.9	103.9	mg/L	0.47	103.9	mg/L	0.47	0.45%
Sodium†	261.2	0.0718	mg/L	0.00025	0.0718	mg/L	0.00025	0.35%
QC value within limits for Sodium Recovery = Not calculated								
Magnesium†	29.5	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	10.10%
QC value within limits for Magnesium Recovery = Not calculated								
Iron†	9.7	-0.0023	mg/L	0.00024	-0.0023	mg/L	0.00024	10.27%
QC value within limits for Iron Recovery = Not calculated								
Calcium†	17.0	-0.0207	mg/L	0.00083	-0.0207	mg/L	0.00083	4.02%
QC value within limits for Calcium Recovery = Not calculated								
Potassium†	379.4	0.0905	mg/L	0.00057	0.0905	mg/L	0.00057	0.63%
QC value within limits for Potassium Recovery = Not calculated								
Aluminum radial†	-30.8	-0.0102	mg/L	0.00564	-0.0102	mg/L	0.00564	55.30%
QC value within limits for Aluminum radial Recovery = Not calculated								
Calcium radial†	12.9	-0.0213	mg/L	0.00267	-0.0213	mg/L	0.00267	12.57%
QC value within limits for Calcium radial Recovery = Not calculated								
Iron radial†	2.9	-0.0029	mg/L	0.00217	-0.0029	mg/L	0.00217	74.07%
QC value within limits for Iron radial Recovery = Not calculated								
Magnesium radial†	7.4	-0.0015	mg/L	0.00037	-0.0015	mg/L	0.00037	24.88%
QC value within limits for Magnesium radial Recovery = Not calculated								
Sodium radial†	33.2	-0.0055	mg/L	0.00269	-0.0055	mg/L	0.00269	48.54%
QC value within limits for Sodium radial Recovery = Not calculated								
Potassium radial†	-4.0	-0.0288	mg/L	0.04639	-0.0288	mg/L	0.04639	161.17%

QC value within limits for Potassium radial Recovery = Not calculated

Stonrium radial†	-2.7	-0.0008 mg/L	0.00006	-0.0008 mg/L	0.00006	8.10%

QC value within limits for Stonrium radial Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 209
Sample ID: 11020727-33APDS
Analyst:
Initial Sample Wt:
Dilution: 25X

Autosampler Location: 144
Date Collected: 3/6/2011 10:01:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-33APDS

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-33APDS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	699056.8	102.6	%	0.52				0.51%
Aluminum†	23165.3	0.5283	mg/L	0.00889	13.21	mg/L	0.222	1.68%
Antimony†	172.9	0.2044	mg/L	0.00795	5.109	mg/L	0.1989	3.89%
Arsenic†	171.5	0.2155	mg/L	0.00262	5.387	mg/L	0.0655	1.22%
Barium†	11932.2	0.2086	mg/L	0.00254	5.216	mg/L	0.0634	1.22%
Beryllium†	415346.8	0.2120	mg/L	0.00056	5.301	mg/L	0.0139	0.26%
Boron†	5152.0	0.2147	mg/L	0.00488	5.368	mg/L	0.1219	2.27%
Cadmium†	3689.6	0.2089	mg/L	0.00103	5.222	mg/L	0.0257	0.49%
Chromium†	15358.6	0.2123	mg/L	0.00390	5.307	mg/L	0.0975	1.84%
Cobalt†	3092.3	0.2115	mg/L	0.00095	5.287	mg/L	0.0238	0.45%
Copper†	20834.2	0.2086	mg/L	0.00350	5.215	mg/L	0.0874	1.68%
Lithium†	1652379.5	0.2084	mg/L	0.00302	5.211	mg/L	0.0754	1.45%
Manganese†	105386.7	0.2368	mg/L	0.00296	5.919	mg/L	0.0739	1.25%
Molybdenum†	1434.6	0.2028	mg/L	0.00154	5.070	mg/L	0.0386	0.76%
Nickel†	3354.3	0.2136	mg/L	0.00099	5.339	mg/L	0.0248	0.46%
Lead†	446.2	0.2165	mg/L	0.00236	5.412	mg/L	0.0589	1.09%
Selenium†	98.3	0.2082	mg/L	0.00711	5.204	mg/L	0.1777	3.41%
Silver†	28294.0	0.2093	mg/L	0.00215	5.233	mg/L	0.0538	1.03%
Strontium†	1386186.9	0.1091	mg/L	0.00108	2.728	mg/L	0.0271	0.99%
Tin†	1.8	0.0001	mg/L	0.00437	0.0029	mg/L	0.10930	>999.9%
Thallium†	341.8	0.1977	mg/L	0.00588	4.943	mg/L	0.1469	2.97%
Titanium†	46945.3	0.2071	mg/L	0.00332	5.177	mg/L	0.0831	1.61%
Vanadium†	15044.7	0.2086	mg/L	0.00374	5.216	mg/L	0.0934	1.79%
Zinc†	2935.1	0.2264	mg/L	0.00141	5.660	mg/L	0.0354	0.62%
Argon	5589904.9	104.2	mg/L	0.12	2604	mg/L	3.0	0.11%
Sodium†	897205.4	3.357	mg/L	0.0187	83.92	mg/L	0.466	0.56%
Magnesium†	111241.3	0.4818	mg/L	0.00584	12.05	mg/L	0.146	1.21%
Iron†	9686.6	0.2235	mg/L	0.00371	5.587	mg/L	0.0926	1.66%
Calcium†	122446.2	0.8753	mg/L	0.01186	21.88	mg/L	0.297	1.36%
Potassium†	226507.4	2.055	mg/L	0.0144	51.39	mg/L	0.360	0.70%
Aluminum radial†	905.3	0.5106	mg/L	0.00620	12.77	mg/L	0.155	1.21%
Calcium radial†	5430.3	0.9109	mg/L	0.00524	22.77	mg/L	0.131	0.58%
Iron radial†	393.3	0.2370	mg/L	0.00098	5.926	mg/L	0.0246	0.41%
Magnesium radial†	4822.1	0.5062	mg/L	0.00186	12.66	mg/L	0.046	0.37%
Sodium radial†	13393.0	3.683	mg/L	0.0254	92.07	mg/L	0.634	0.69%
Potassium radial†	1591.3	2.305	mg/L	0.0980	57.63	mg/L	2.451	4.25%
Stonrium radial†	56635.9	0.1093	mg/L	0.00040	2.734	mg/L	0.0100	0.37%

Sequence No.: 210
Sample ID: 11020727-33APDSD
Analyst:
Initial Sample Wt:
Dilution: 25X

Autosampler Location: 145
Date Collected: 3/6/2011 10:03:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-33APDSD

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-33APDSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	693222.2	101.7	%	0.80				0.79%
Aluminumt	24971.9	0.5699	mg/L	0.00204	14.25	mg/L	0.051	0.36%
Antimonyt	175.6	0.2077	mg/L	0.00393	5.191	mg/L	0.0983	1.89%
Arsenict	171.5	0.2155	mg/L	0.00104	5.388	mg/L	0.0260	0.48%
Bariumt	12086.4	0.2114	mg/L	0.00055	5.284	mg/L	0.0139	0.26%
Berylliumt	412679.5	0.2107	mg/L	0.00022	5.267	mg/L	0.0055	0.10%
Boront	5241.3	0.2184	mg/L	0.00110	5.461	mg/L	0.0274	0.50%
Cadmiumt	3689.8	0.2089	mg/L	0.00095	5.222	mg/L	0.0238	0.45%
Chromiumt	15646.3	0.2163	mg/L	0.00065	5.407	mg/L	0.0162	0.30%
Cobaltt	3093.9	0.2116	mg/L	0.00162	5.290	mg/L	0.0406	0.77%
Coppert	21097.2	0.2113	mg/L	0.00179	5.281	mg/L	0.0448	0.85%
Lithiumt	1647855.1	0.2079	mg/L	0.00166	5.197	mg/L	0.0416	0.80%
Manganeset	107374.5	0.2413	mg/L	0.00034	6.032	mg/L	0.0085	0.14%
Molybdenumt	1443.3	0.2040	mg/L	0.00107	5.100	mg/L	0.0267	0.52%
Nickelt	3376.4	0.2150	mg/L	0.00080	5.374	mg/L	0.0201	0.37%
Leadt	443.8	0.2153	mg/L	0.00175	5.383	mg/L	0.0437	0.81%
Seleniumt	99.6	0.2109	mg/L	0.00394	5.273	mg/L	0.0986	1.87%
Silvert	28633.9	0.2118	mg/L	0.00018	5.296	mg/L	0.0046	0.09%
Strontiumt	1384505.8	0.1090	mg/L	0.00078	2.724	mg/L	0.0196	0.72%
Tint	0.6	-0.0011	mg/L	0.00499	-0.0269	mg/L	0.12479	463.58%
Thalliumt	353.4	0.2045	mg/L	0.00628	5.113	mg/L	0.1571	3.07%
Titaniumt	47595.9	0.2100	mg/L	0.00083	5.249	mg/L	0.0208	0.40%
Vanadiumt	15317.2	0.2124	mg/L	0.00138	5.310	mg/L	0.0345	0.65%
Zinct	3524.7	0.2721	mg/L	0.00047	6.803	mg/L	0.0116	0.17%
Argon	5584737.7	104.1	mg/L	0.39	2602	mg/L	9.8	0.38%
Sodiumt	912747.5	3.414	mg/L	0.0050	85.34	mg/L	0.125	0.15%
Magnesiumt	115288.2	0.4993	mg/L	0.00124	12.48	mg/L	0.031	0.25%
Iront	10026.0	0.2314	mg/L	0.00022	5.785	mg/L	0.0055	0.10%
Calciumt	128501.9	0.9196	mg/L	0.00161	22.99	mg/L	0.040	0.17%
Potassiumt	225453.2	2.046	mg/L	0.0042	51.16	mg/L	0.104	0.20%
Aluminum radialt	996.2	0.5612	mg/L	0.02342	14.03	mg/L	0.586	4.17%
Calcium radialt	5727.7	0.9621	mg/L	0.01759	24.05	mg/L	0.440	1.83%
Iron radialt	403.9	0.2436	mg/L	0.00228	6.089	mg/L	0.0570	0.94%
Magnesium radialt	4920.2	0.5166	mg/L	0.00331	12.91	mg/L	0.083	0.64%
Sodium radialt	13735.4	3.777	mg/L	0.0784	94.44	mg/L	1.960	2.08%
Potassium radialt	1522.0	2.204	mg/L	0.0692	55.10	mg/L	1.729	3.14%
Stonrium radialt	57355.6	0.1107	mg/L	0.00273	2.769	mg/L	0.0683	2.47%

Sequence No.: 211
Sample ID: 11020727-22A
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 146
Date Collected: 3/6/2011 10:05:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-22A

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-22A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	783913.8	115.0	%	0.66				0.57%
Aluminumt	25906.9	0.5914	mg/L	0.00145	0.5914	mg/L	0.00145	0.25%
Antimonyt	-6.9	-0.0106	mg/L	0.00698	-0.0106	mg/L	0.00698	65.69%
Arsenict	6.0	0.0024	mg/L	0.00293	0.0024	mg/L	0.00293	121.45%
Bariumt	2688.1	0.0464	mg/L	0.00009	0.0464	mg/L	0.00009	0.20%
Berylliumt	10781.1	0.0045	mg/L	0.00005	0.0045	mg/L	0.00005	1.02%
Boront	1726.9	0.0727	mg/L	0.00064	0.0727	mg/L	0.00064	0.88%
Cadmiumt	-12.8	-0.0019	mg/L	0.00050	-0.0019	mg/L	0.00050	26.30%
Chromiumt	55.1	-0.0003	mg/L	0.00022	-0.0003	mg/L	0.00022	76.09%
Cobaltt	542.0	0.0354	mg/L	0.00057	0.0354	mg/L	0.00057	1.61%
Coppert	-445.3	-0.0036	mg/L	0.00015	-0.0036	mg/L	0.00015	4.11%
Lithiumt	505568.0	0.0619	mg/L	0.00019	0.0619	mg/L	0.00019	0.31%
Manganeset	553550.1	1.254	mg/L	0.0012	1.254	mg/L	0.0012	0.10%
Molybdenumt	-15.4	-0.0016	mg/L	0.00177	-0.0016	mg/L	0.00177	110.38%
Nickelt	725.7	0.0447	mg/L	0.00078	0.0447	mg/L	0.00078	1.74%

Leadt	-7.3	-0.0039 mg/L	0.00150	-0.0039 mg/L	0.00150	38.46%
Seleniumt	-5.4	-0.0034 mg/L	0.00674	-0.0034 mg/L	0.00674	195.74%
Silvert	609.6	0.0001 mg/L	0.00037	0.0001 mg/L	0.00037	527.21%
Strontiumt	12756563.0	1.010 mg/L	0.0136	1.010 mg/L	0.0136	1.35%
Tint	-36.9	-0.0266 mg/L	0.00401	-0.0266 mg/L	0.00401	15.09%
Thalliumt	-22.2	-0.0154 mg/L	0.00529	-0.0154 mg/L	0.00529	34.40%
Titaniumt	-760.6	-0.0054 mg/L	0.00012	-0.0054 mg/L	0.00012	2.30%
Vanadiumt	3923.4	0.0461 mg/L	0.00102	0.0461 mg/L	0.00102	2.20%
Zinct	750.1	0.0569 mg/L	0.00045	0.0569 mg/L	0.00045	0.79%
Argon	5562251.0	103.7 mg/L	0.22	103.7 mg/L	0.22	0.21%
Sodiumt	Saturated3					
Magnesiumt	19347448.2	83.77 mg/L	1.201	83.77 mg/L	1.201	1.43%
Iront	656202.8	15.31 mg/L	0.017	15.31 mg/L	0.017	0.11%
Calciumt	17282299.5	126.5 mg/L	2.10	126.5 mg/L	2.10	1.66%
Potassiumt	578742.1	5.116 mg/L	0.0039	5.116 mg/L	0.0039	0.08%
Aluminum radialt	1236.2	0.6947 mg/L	0.01936	0.6947 mg/L	0.01936	2.79%
Calcium radialt	760560.6	130.8 mg/L	3.09	130.8 mg/L	3.09	2.36%
Iron radialt	27031.4	16.61 mg/L	0.258	16.61 mg/L	0.258	1.55%
Magnesium radialt	796295.8	83.96 mg/L	1.630	83.96 mg/L	1.630	1.94%
Sodium radialt	763944.9	210.9 mg/L	3.79	210.9 mg/L	3.79	1.80%
Potassium radialt	2300.6	3.343 mg/L	0.0978	3.343 mg/L	0.0978	2.93%
Stonrium radialt	549504.3	1.067 mg/L	0.0229	1.067 mg/L	0.0229	2.14%

Sequence No.: 212
Sample ID: 11020727-23A
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 147
Date Collected: 3/6/2011 10:07:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-23A

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-23A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	793959.2	116.5	%	1.34				1.15%
Aluminumt	1105825.3	25.46	mg/L	0.044	25.46	mg/L	0.044	0.17%
Antimonyt	32.3	0.0381	mg/L	0.00656	0.0381	mg/L	0.00656	17.25%
Arsenict	12.4	0.0139	mg/L	0.00386	0.0139	mg/L	0.00386	27.73%
Bariumt	2625.4	0.0453	mg/L	0.00052	0.0453	mg/L	0.00052	1.15%
Berylliumt	9466.9	0.0038	mg/L	0.00012	0.0038	mg/L	0.00012	3.08%
Boront	1339.3	0.0571	mg/L	0.00136	0.0571	mg/L	0.00136	2.38%
Cadmiumt	3946.7	0.2271	mg/L	0.00258	0.2271	mg/L	0.00258	1.13%
Chromiumt	657.7	0.0081	mg/L	0.00059	0.0081	mg/L	0.00059	7.36%
Cobaltt	484.3	0.0314	mg/L	0.00043	0.0314	mg/L	0.00043	1.37%
Coppert	11992.5	0.1200	mg/L	0.00223	0.1200	mg/L	0.00223	1.86%
Lithiumt	299270.0	0.0355	mg/L	0.00009	0.0355	mg/L	0.00009	0.25%
Manganeset	442982.0	1.003	mg/L	0.0165	1.003	mg/L	0.0165	1.65%
Molybdenumt	-18.7	-0.0016	mg/L	0.00134	-0.0016	mg/L	0.00134	83.96%
Nickelt	742.6	0.0458	mg/L	0.00163	0.0458	mg/L	0.00163	3.56%
Leadt	781.0	0.3801	mg/L	0.00674	0.3801	mg/L	0.00674	1.77%
Seleniumt	-6.5	-0.0009	mg/L	0.00513	-0.0009	mg/L	0.00513	564.05%
Silvert	97.3	-0.0009	mg/L	0.00043	-0.0009	mg/L	0.00043	47.94%
Strontiumt	2094402.9	0.1647	mg/L	0.00051	0.1647	mg/L	0.00051	0.31%
Tint	-17.1	-0.0165	mg/L	0.00553	-0.0165	mg/L	0.00553	33.45%
Thalliumt	-16.6	-0.0121	mg/L	0.00149	-0.0121	mg/L	0.00149	12.35%
Titaniumt	230.9	-0.0010	mg/L	0.00003	-0.0010	mg/L	0.00003	2.83%
Vanadiumt	2075.7	0.0215	mg/L	0.00119	0.0215	mg/L	0.00119	5.54%
Zinct	1269.3	0.0972	mg/L	0.00191	0.0972	mg/L	0.00191	1.96%
Argon	5652198.8	105.3	mg/L	0.22	105.3	mg/L	0.22	0.21%
Sodiumt	14247824.7	52.25	mg/L	0.657	52.25	mg/L	0.657	1.26%
Magnesiumt	3846405.8	16.65	mg/L	0.008	16.65	mg/L	0.008	0.05%
Iront	1150358.7	26.84	mg/L	0.026	26.84	mg/L	0.026	0.10%
Calciumt	3961782.9	28.97	mg/L	0.030	28.97	mg/L	0.030	0.10%
Potassiumt	600436.9	5.305	mg/L	0.0113	5.305	mg/L	0.0113	0.21%
Aluminum radialt	45567.7	25.36	mg/L	0.226	25.36	mg/L	0.226	0.89%
Calcium radialt	175495.7	30.17	mg/L	0.303	30.17	mg/L	0.303	1.00%
Iron radialt	46718.9	28.72	mg/L	0.347	28.72	mg/L	0.347	1.21%

Magnesium radial†	156407.2	16.49 mg/L	0.146	16.49 mg/L	0.146	0.89%
Sodium radial†	160703.0	44.35 mg/L	0.441	44.35 mg/L	0.441	0.99%
Potassium radial†	2980.8	4.338 mg/L	0.0803	4.338 mg/L	0.0803	1.85%
Stonrium radial†	88156.3	0.1706 mg/L	0.00182	0.1706 mg/L	0.00182	1.07%

Sequence No.: 213
Sample ID: 11020727-25A
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 148
Date Collected: 3/6/2011 10:08:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-25A

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: 11020727-25A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	1511190.3	221.7	%	3.26				1.47%
Internal Standard Check greater than the upper limit for Yttrium. Recovery = 221.7%								
Aluminum†	Saturated2							
Antimony†	-6.8	-0.0020	mg/L	0.00676	-0.0020	mg/L	0.00676	338.69%
Arsenic†	36.3	0.0404	mg/L	0.00196	0.0404	mg/L	0.00196	4.86%
Barium†	414.3	0.0065	mg/L	0.00009	0.0065	mg/L	0.00009	1.39%
Beryllium†	54853.9	0.0271	mg/L	0.00049	0.0271	mg/L	0.00049	1.81%
Boron†	17794.5	0.7492	mg/L	0.01208	0.7492	mg/L	0.01208	1.61%
Cadmium†	135.7	0.0070	mg/L	0.00008	0.0070	mg/L	0.00008	1.19%
Chromium†	6483.7	0.0890	mg/L	0.00119	0.0890	mg/L	0.00119	1.34%
Cobalt†	4193.1	0.2881	mg/L	0.00367	0.2881	mg/L	0.00367	1.27%
Copper†	-1219.2	-0.0118	mg/L	0.00029	-0.0118	mg/L	0.00029	2.45%
Lithium†	1944016.6	0.2457	mg/L	0.00226	0.2457	mg/L	0.00226	0.92%
Manganese†	3369552.0	7.643	mg/L	0.0045	7.643	mg/L	0.0045	0.06%
Molybdenum†	-64.9	-0.0031	mg/L	0.00019	-0.0031	mg/L	0.00019	6.16%
Nickel†	6036.8	0.3859	mg/L	0.00565	0.3859	mg/L	0.00565	1.46%
Lead†	-17.0	0.0031	mg/L	0.00240	0.0031	mg/L	0.00240	77.43%
Selenium†	-28.0	0.0056	mg/L	0.00415	0.0056	mg/L	0.00415	73.92%
Silver†	749.9	0.0025	mg/L	0.00050	0.0025	mg/L	0.00050	20.22%
Strontium†	6812155.1	0.5379	mg/L	0.00533	0.5379	mg/L	0.00533	0.99%
Tin†	-17.8	-0.0091	mg/L	0.00290	-0.0091	mg/L	0.00290	31.86%
Thallium†	-107.2	-0.0651	mg/L	0.00212	-0.0651	mg/L	0.00212	3.26%
Titanium†	936.6	0.0022	mg/L	0.00001	0.0022	mg/L	0.00001	0.40%
Vanadium†	10016.6	0.0980	mg/L	0.00267	0.0980	mg/L	0.00267	2.72%
Zinc†	13650.8	1.058	mg/L	0.0164	1.058	mg/L	0.0164	1.55%
Argon	5307687.5	98.91	mg/L	0.205	98.91	mg/L	0.205	0.21%
Sodium†	Saturated3							
Magnesium†	19668815.8	85.16	mg/L	0.921	85.16	mg/L	0.921	1.08%
Iron†	5319727.1	124.1	mg/L	1.38	124.1	mg/L	1.38	1.11%
Calcium†	13510691.0	98.86	mg/L	1.096	98.86	mg/L	1.096	1.11%
Potassium†	537260.0	4.756	mg/L	0.0167	4.756	mg/L	0.0167	0.35%
Aluminum radial†	559019.3	311.0	mg/L	6.61	311.0	mg/L	6.61	2.12%
Calcium radial†	618709.6	106.4	mg/L	2.63	106.4	mg/L	2.63	2.47%
Iron radial†	253060.4	155.6	mg/L	2.56	155.6	mg/L	2.56	1.65%
Magnesium radial†	903285.3	95.25	mg/L	1.955	95.25	mg/L	1.955	2.05%
Sodium radial†	844803.3	233.2	mg/L	4.72	233.2	mg/L	4.72	2.02%
Potassium radial†	1786.7	2.591	mg/L	0.0567	2.591	mg/L	0.0567	2.19%
Stonrium radial†	308973.2	0.5999	mg/L	0.01341	0.5999	mg/L	0.01341	2.24%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 214
Sample ID: 11020727-26A
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 149
Date Collected: 3/6/2011 10:10:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-26A

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-26A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	1538210.2	225.7	%	2.10				0.93%
Internal Standard Check greater than the upper limit for Yttrium. Recovery = 225.7%								
Aluminumt	Saturated3							
Antimonyt	-10.6	-0.0067	mg/L	0.00630	-0.0067	mg/L	0.00630	93.93%
Arsenict	37.4	0.0419	mg/L	0.00188	0.0419	mg/L	0.00188	4.48%
Bariumt	431.0	0.0068	mg/L	0.00019	0.0068	mg/L	0.00019	2.85%
Berylliumt	55420.3	0.0274	mg/L	0.00056	0.0274	mg/L	0.00056	2.04%
Boront	18067.4	0.7604	mg/L	0.01695	0.7604	mg/L	0.01695	2.23%
Cadmiumt	135.4	0.0070	mg/L	0.00017	0.0070	mg/L	0.00017	2.39%
Chromiumt	6467.4	0.0888	mg/L	0.00066	0.0888	mg/L	0.00066	0.74%
Cobaltt	4196.3	0.2883	mg/L	0.00246	0.2883	mg/L	0.00246	0.85%
Coppert	-1325.9	-0.0129	mg/L	0.00009	-0.0129	mg/L	0.00009	0.67%
Lithiumt	1920930.5	0.2428	mg/L	0.00184	0.2428	mg/L	0.00184	0.76%
Manganeset	3370931.9	7.647	mg/L	0.0014	7.647	mg/L	0.0014	0.02%
Molybdenumt	-75.7	-0.0047	mg/L	0.00044	-0.0047	mg/L	0.00044	9.40%
Nickelt	6017.5	0.3846	mg/L	0.00202	0.3846	mg/L	0.00202	0.52%
Leadt	-20.5	0.0014	mg/L	0.00196	0.0014	mg/L	0.00196	142.46%
Seleniumt	-27.3	0.0065	mg/L	0.00692	0.0065	mg/L	0.00692	106.19%
Silvert	689.5	0.0020	mg/L	0.00026	0.0020	mg/L	0.00026	12.59%
Strontiumt	6750331.1	0.5329	mg/L	0.00396	0.5329	mg/L	0.00396	0.74%
Tint	-15.7	-0.0070	mg/L	0.00344	-0.0070	mg/L	0.00344	49.36%
Thalliumt	-112.2	-0.0681	mg/L	0.01219	-0.0681	mg/L	0.01219	17.92%
Titaniumt	963.6	0.0023	mg/L	0.00013	0.0023	mg/L	0.00013	5.60%
Vanadiumt	10092.1	0.0995	mg/L	0.00341	0.0995	mg/L	0.00341	3.43%
Zinct	13879.7	1.075	mg/L	0.0290	1.075	mg/L	0.0290	2.70%
Argon	5318355.8	99.11	mg/L	0.282	99.11	mg/L	0.282	0.28%
Sodiumt	Saturated3							
Magnesiumt	19447594.9	84.20	mg/L	0.605	84.20	mg/L	0.605	0.72%
Iront	5288285.9	123.4	mg/L	1.03	123.4	mg/L	1.03	0.83%
Calciumt	13397719.3	98.03	mg/L	0.767	98.03	mg/L	0.767	0.78%
Potassiumt	545795.9	4.830	mg/L	0.0134	4.830	mg/L	0.0134	0.28%
Aluminum radialt	558412.9	310.7	mg/L	1.55	310.7	mg/L	1.55	0.50%
Calcium radialt	618984.8	106.5	mg/L	0.55	106.5	mg/L	0.55	0.51%
Iron radialt	250317.9	153.9	mg/L	1.31	153.9	mg/L	1.31	0.85%
Magnesium radialt	902147.7	95.13	mg/L	0.482	95.13	mg/L	0.482	0.51%
Sodium radialt	842806.2	232.7	mg/L	0.84	232.7	mg/L	0.84	0.36%
Potassium radialt	1750.8	2.539	mg/L	0.0408	2.539	mg/L	0.0408	1.61%
Stonrium radialt	308652.5	0.5993	mg/L	0.00277	0.5993	mg/L	0.00277	0.46%
Internal Standard Check failed. Continue with analysis.								

Sequence No.: 215
Sample ID: 11020727-28A
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 150
Date Collected: 3/6/2011 10:12:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-28A

Analyte	Back Pressure	Flow
All	167.0 kPa	0.65 L/min

Mean Data: 11020727-28A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	706412.6	103.6	%	0.77				0.74%
Aluminumt	13908.3	0.3151	mg/L	0.00461	0.3151	mg/L	0.00461	1.46%
Antimonyt	-6.8	-0.0092	mg/L	0.01086	-0.0092	mg/L	0.01086	118.10%
Arsenict	21.7	0.0162	mg/L	0.00766	0.0162	mg/L	0.00766	47.39%
Bariumt	1457.5	0.0248	mg/L	0.00032	0.0248	mg/L	0.00032	1.30%
Berylliumt	5786.0	0.0020	mg/L	0.00004	0.0020	mg/L	0.00004	2.08%
Boront	2565.8	0.1086	mg/L	0.00028	0.1086	mg/L	0.00028	0.26%
Cadmiumt	-5.9	-0.0014	mg/L	0.00022	-0.0014	mg/L	0.00022	15.27%
Chromiumt	578.5	0.0070	mg/L	0.00082	0.0070	mg/L	0.00082	11.80%
Cobaltt	2172.7	0.1483	mg/L	0.00229	0.1483	mg/L	0.00229	1.54%
Coppert	-644.6	-0.0017	mg/L	0.00069	-0.0017	mg/L	0.00069	39.46%

Lithium†	618378.4	0.0763 mg/L	0.00021	0.0763 mg/L	0.00021	0.27%
Manganese†	8396381.0	19.05 mg/L	0.013	19.05 mg/L	0.013	0.07%
Molybdenum†	-47.7	-0.0054 mg/L	0.00030	-0.0054 mg/L	0.00030	5.55%
Nickel†	1431.1	0.0900 mg/L	0.00123	0.0900 mg/L	0.00123	1.37%
Lead†	-5.4	-0.0030 mg/L	0.00198	-0.0030 mg/L	0.00198	66.27%
Selenium†	-9.0	-0.0037 mg/L	0.00891	-0.0037 mg/L	0.00891	243.30%
Silver†	2236.7	0.0055 mg/L	0.00081	0.0055 mg/L	0.00081	14.75%
Strontium†	Saturated3					
Tin†	-45.2	-0.0108 mg/L	0.00420	-0.0108 mg/L	0.00420	39.06%
Thallium†	-287.0	-0.1705 mg/L	0.00363	-0.1705 mg/L	0.00363	2.13%
Titanium†	-1918.7	-0.0105 mg/L	0.00014	-0.0105 mg/L	0.00014	1.31%
Vanadium†	6401.9	0.0686 mg/L	0.00080	0.0686 mg/L	0.00080	1.17%
Zinc†	174.5	0.0122 mg/L	0.00053	0.0122 mg/L	0.00053	4.36%
Argon	5355629.7	99.80 mg/L	0.328	99.80 mg/L	0.328	0.33%
Sodium†	Saturated3					
Magnesium†	48212457.1	208.7 mg/L	0.92	208.7 mg/L	0.92	0.44%
Iron†	1427198.3	33.30 mg/L	0.030	33.30 mg/L	0.030	0.09%
Calcium†	44703792.4	327.1 mg/L	1.51	327.1 mg/L	1.51	0.46%
Potassium†	312266.9	2.801 mg/L	0.0054	2.801 mg/L	0.0054	0.19%
Aluminum radial†	1291.2	0.7253 mg/L	0.01412	0.7253 mg/L	0.01412	1.95%
Calcium radial†	2094051.7	360.3 mg/L	5.06	360.3 mg/L	5.06	1.40%
Iron radial†	60361.4	37.10 mg/L	0.206	37.10 mg/L	0.206	0.55%
Magnesium radial†	2332912.9	246.0 mg/L	3.45	246.0 mg/L	3.45	1.40%
Sodium radial†	2940429.2	811.8 mg/L	13.74	811.8 mg/L	13.74	1.69%
Potassium radial†	1064.9	1.535 mg/L	0.0556	1.535 mg/L	0.0556	3.63%
Stonrium radial†	1270648.4	2.469 mg/L	0.0429	2.469 mg/L	0.0429	1.74%

Sequence No.: 216 **Autosampler Location: 151**
Sample ID: 11020727-31A **Date Collected: 3/6/2011 10:14:11 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: 11020727-31A

Analyte	Back Pressure	Flow
All	169.0 kPa	0.65 L/min

Mean Data: 11020727-31A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	1386354.5	203.4	%	0.76				0.37%
Internal Standard Check greater than the upper limit for Yttrium. Recovery = 203.4%								
Aluminum†	3930944.0	90.53	mg/L	0.435	90.53	mg/L	0.435	0.48%
Antimony†	-11.6	-0.0067	mg/L	0.00380	-0.0067	mg/L	0.00380	56.75%
Arsenic†	31.6	0.0360	mg/L	0.00366	0.0360	mg/L	0.00366	10.19%
Barium†	657.1	0.0108	mg/L	0.00006	0.0108	mg/L	0.00006	0.60%
Beryllium†	35275.0	0.0171	mg/L	0.00019	0.0171	mg/L	0.00019	1.13%
Boron†	4598.9	0.1990	mg/L	0.00298	0.1990	mg/L	0.00298	1.50%
Cadmium†	15.4	-0.0006	mg/L	0.00044	-0.0006	mg/L	0.00044	75.43%
Chromium†	2367.9	0.0318	mg/L	0.00024	0.0318	mg/L	0.00024	0.76%
Cobalt†	1704.8	0.1159	mg/L	0.00086	0.1159	mg/L	0.00086	0.74%
Copper†	-1232.5	-0.0126	mg/L	0.00018	-0.0126	mg/L	0.00018	1.46%
Lithium†	956288.8	0.1195	mg/L	0.00041	0.1195	mg/L	0.00041	0.34%
Manganese†	1423208.2	3.227	mg/L	0.0016	3.227	mg/L	0.0016	0.05%
Molybdenum†	-68.0	-0.0035	mg/L	0.00066	-0.0035	mg/L	0.00066	18.88%
Nickel†	2122.7	0.1344	mg/L	0.00071	0.1344	mg/L	0.00071	0.53%
Lead†	-15.1	-0.0042	mg/L	0.00151	-0.0042	mg/L	0.00151	35.99%
Selenium†	-23.2	0.0114	mg/L	0.00106	0.0114	mg/L	0.00106	9.31%
Silver†	522.1	0.0015	mg/L	0.00032	0.0015	mg/L	0.00032	20.72%
Strontium†	7305331.0	0.5781	mg/L	0.00288	0.5781	mg/L	0.00288	0.50%
Tin†	-17.5	-0.0129	mg/L	0.00133	-0.0129	mg/L	0.00133	10.27%
Thallium†	-34.9	-0.0228	mg/L	0.00518	-0.0228	mg/L	0.00518	22.70%
Titanium†	3695.6	0.0145	mg/L	0.00029	0.0145	mg/L	0.00029	2.00%
Vanadium†	6025.1	0.0443	mg/L	0.00070	0.0443	mg/L	0.00070	1.58%
Zinc†	2259.3	0.1740	mg/L	0.00097	0.1740	mg/L	0.00097	0.56%
Argon	5447647.0	101.5	mg/L	0.18	101.5	mg/L	0.18	0.18%
Sodium†	Saturated3							
Magnesium†	12736903.9	55.14	mg/L	0.176	55.14	mg/L	0.176	0.32%
Iron†	5436786.0	126.8	mg/L	0.41	126.8	mg/L	0.41	0.33%

Calciumt	8749763.7	64.02 mg/L	0.198	64.02 mg/L	0.198	0.31%
Potassiumt	1212663.2	10.62 mg/L	0.049	10.62 mg/L	0.049	0.46%
Aluminum radialt	168475.1	93.74 mg/L	1.438	93.74 mg/L	1.438	1.53%
Calcium radialt	394858.6	67.92 mg/L	0.406	67.92 mg/L	0.406	0.60%
Iron radialt	254574.5	156.5 mg/L	0.99	156.5 mg/L	0.99	0.63%
Magnesium radialt	541658.8	57.11 mg/L	0.763	57.11 mg/L	0.763	1.34%
Sodium radialt	928749.2	256.4 mg/L	3.39	256.4 mg/L	3.39	1.32%
Potassium radialt	3982.9	5.804 mg/L	0.0227	5.804 mg/L	0.0227	0.39%
Stonrium radialt	331090.7	0.6429 mg/L	0.01000	0.6429 mg/L	0.01000	1.56%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 217
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 3/6/2011 10:16:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	694201.1	101.8	%	0.44				0.43%
Aluminumt	24087.9	0.5495	mg/L	0.00706	0.5495	mg/L	0.00706	1.29%
QC value within limits for Aluminum Recovery = 109.90%								
Antimonyt	408.1	0.4871	mg/L	0.00839	0.4871	mg/L	0.00839	1.72%
QC value within limits for Antimony Recovery = 97.41%								
Arsenict	403.4	0.5082	mg/L	0.00479	0.5082	mg/L	0.00479	0.94%
QC value within limits for Arsenic Recovery = 101.64%								
Bariumt	28594.1	0.5010	mg/L	0.00541	0.5010	mg/L	0.00541	1.08%
QC value within limits for Barium Recovery = 100.21%								
Berylliumt	994556.5	0.5092	mg/L	0.00198	0.5092	mg/L	0.00198	0.39%
QC value within limits for Beryllium Recovery = 101.83%								
Boront	12226.7	0.5097	mg/L	0.00710	0.5097	mg/L	0.00710	1.39%
QC value within limits for Boron Recovery = 101.94%								
Cadmiumt	8737.5	0.4963	mg/L	0.00306	0.4963	mg/L	0.00306	0.62%
QC value within limits for Cadmium Recovery = 99.26%								
Chromiumt	36423.5	0.5049	mg/L	0.00605	0.5049	mg/L	0.00605	1.20%
QC value within limits for Chromium Recovery = 100.97%								
Cobaltt	7302.0	0.5022	mg/L	0.00692	0.5022	mg/L	0.00692	1.38%
QC value within limits for Cobalt Recovery = 100.44%								
Coppert	50432.3	0.5068	mg/L	0.00455	0.5068	mg/L	0.00455	0.90%
QC value within limits for Copper Recovery = 101.37%								
Lithiumt	3936162.1	0.5004	mg/L	0.00364	0.5004	mg/L	0.00364	0.73%
QC value within limits for Lithium Recovery = 100.07%								
Manganeset	222856.9	0.5033	mg/L	0.00215	0.5033	mg/L	0.00215	0.43%
QC value within limits for Manganese Recovery = 100.66%								
Molybdenumt	3416.7	0.4831	mg/L	0.00330	0.4831	mg/L	0.00330	0.68%
QC value within limits for Molybdenum Recovery = 96.62%								
Nickelt	8202.3	0.5250	mg/L	0.00222	0.5250	mg/L	0.00222	0.42%
QC value within limits for Nickel Recovery = 105.00%								
Leadt	1048.4	0.5091	mg/L	0.00306	0.5091	mg/L	0.00306	0.60%
QC value within limits for Lead Recovery = 101.82%								
Seleniumt	239.8	0.5051	mg/L	0.00583	0.5051	mg/L	0.00583	1.15%
QC value within limits for Selenium Recovery = 101.02%								
Silvert	67478.2	0.5005	mg/L	0.00446	0.5005	mg/L	0.00446	0.89%
QC value within limits for Silver Recovery = 100.10%								
Strontiumt	3228232.6	0.2556	mg/L	0.00195	0.2556	mg/L	0.00195	0.76%
QC value within limits for Strontium Recovery = 102.24%								
Tint	490.9	0.5126	mg/L	0.00202	0.5126	mg/L	0.00202	0.39%
QC value within limits for Tin Recovery = 102.51%								
Thalliumt	822.6	0.4792	mg/L	0.00700	0.4792	mg/L	0.00700	1.46%
QC value within limits for Thallium Recovery = 95.84%								
Titaniumt	113510.8	0.5035	mg/L	0.00195	0.5035	mg/L	0.00195	0.39%
QC value within limits for Titanium Recovery = 100.70%								
Vanadiumt	35795.9	0.4959	mg/L	0.00474	0.4959	mg/L	0.00474	0.96%
QC value within limits for Vanadium Recovery = 99.18%								

Zinc†	6780.6	0.5247 mg/L	0.00655	0.5247 mg/L	0.00655	1.25%
QC value within limits for Zinc Recovery = 104.94%						
Argon	5577134.5	103.9 mg/L	0.27	103.9 mg/L	0.27	0.26%
Sodium†	1301656.0	4.838 mg/L	0.0286	4.838 mg/L	0.0286	0.59%
QC value within limits for Sodium Recovery = 96.76%						
Magnesium†	115437.5	0.5000 mg/L	0.00500	0.5000 mg/L	0.00500	1.00%
QC value within limits for Magnesium Recovery = 100.00%						
Iron†	28228.0	0.6561 mg/L	0.00585	0.6561 mg/L	0.00585	0.89%
QC value greater than the upper limit for Iron Recovery = 131.22%						
Calcium†	83447.5	0.5898 mg/L	0.00557	0.5898 mg/L	0.00557	0.94%
QC value greater than the upper limit for Calcium Recovery = 117.97%						
Potassium†	541424.1	4.792 mg/L	0.0254	4.792 mg/L	0.0254	0.53%
QC value within limits for Potassium Recovery = 95.84%						
Aluminum radial†	967.1	0.5450 mg/L	0.00977	0.5450 mg/L	0.00977	1.79%
QC value within limits for Aluminum radial Recovery = 109.00%						
Calcium radial†	3705.8	0.6142 mg/L	0.00667	0.6142 mg/L	0.00667	1.09%
QC value greater than the upper limit for Calcium radial Recovery = 122.83%						
Iron radial†	1150.6	0.7027 mg/L	0.01151	0.7027 mg/L	0.01151	1.64%
QC value greater than the upper limit for Iron radial Recovery = 140.53%						
Magnesium radial†	5009.9	0.5260 mg/L	0.00595	0.5260 mg/L	0.00595	1.13%
QC value within limits for Magnesium radial Recovery = 105.20%						
Sodium radial†	18970.8	5.223 mg/L	0.0788	5.223 mg/L	0.0788	1.51%
QC value within limits for Sodium radial Recovery = 104.46%						
Potassium radial†	3458.7	5.037 mg/L	0.0552	5.037 mg/L	0.0552	1.09%
QC value within limits for Potassium radial Recovery = 100.75%						
Stonrium radial†	130434.1	0.2528 mg/L	0.00270	0.2528 mg/L	0.00270	1.07%
QC value within limits for Stonrium radial Recovery = 101.13%						

QC Failed. Continue with analysis.

Sequence No.: 218 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 3/6/2011 10:18:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	678562.8	99.54	%	0.936				0.94%
Aluminum†	560.5	0.0077	mg/L	0.00166	0.0077	mg/L	0.00166	21.63%
QC value within limits for Aluminum Recovery = Not calculated								
Antimony†	0.7	-0.0025	mg/L	0.00882	-0.0025	mg/L	0.00882	350.37%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	-0.4	-0.0013	mg/L	0.00299	-0.0013	mg/L	0.00299	226.00%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	3.2	-0.0007	mg/L	0.00006	-0.0007	mg/L	0.00006	8.53%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	-25.3	-0.0010	mg/L	0.00006	-0.0010	mg/L	0.00006	6.15%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	80.4	0.0032	mg/L	0.00029	0.0032	mg/L	0.00029	8.96%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	2.4	-0.0010	mg/L	0.00015	-0.0010	mg/L	0.00015	13.95%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	18.1	-0.0008	mg/L	0.00078	-0.0008	mg/L	0.00078	96.61%
QC value within limits for Chromium Recovery = Not calculated								
Cobalt†	-3.5	-0.0023	mg/L	0.00022	-0.0023	mg/L	0.00022	9.40%
QC value within limits for Cobalt Recovery = Not calculated								
Copper†	71.1	-0.0006	mg/L	0.00043	-0.0006	mg/L	0.00043	67.52%
QC value within limits for Copper Recovery = Not calculated								
Lithium†	-246.2	-0.0028	mg/L	0.00001	-0.0028	mg/L	0.00001	0.20%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	8.1	-0.0024	mg/L	0.00005	-0.0024	mg/L	0.00005	2.14%
QC value within limits for Manganese Recovery = Not calculated								
Molybdenum†	-8.8	-0.0013	mg/L	0.00059	-0.0013	mg/L	0.00059	44.61%
QC value within limits for Molybdenum Recovery = Not calculated								

Nickel†	-10.7	-0.0026 mg/L	0.00145	-0.0026 mg/L	0.00145	55.25%
QC value within limits for Nickel Recovery = Not calculated						
Lead†	-6.0	-0.0033 mg/L	0.00123	-0.0033 mg/L	0.00123	37.19%
QC value within limits for Lead Recovery = Not calculated						
Selenium†	-2.7	-0.0037 mg/L	0.00440	-0.0037 mg/L	0.00440	118.08%
QC value within limits for Selenium Recovery = Not calculated						
Silver†	-190.4	-0.0023 mg/L	0.00074	-0.0023 mg/L	0.00074	32.01%
QC value within limits for Silver Recovery = Not calculated						
Strontium†	598.4	-0.0010 mg/L	0.00000	-0.0010 mg/L	0.00000	0.45%
QC value within limits for Strontium Recovery = Not calculated						
Tin†	0.8	-0.0010 mg/L	0.00437	-0.0010 mg/L	0.00437	432.81%
QC value within limits for Tin Recovery = Not calculated						
Thallium†	5.8	0.0010 mg/L	0.00908	0.0010 mg/L	0.00908	886.58%
QC value within limits for Thallium Recovery = Not calculated						
Titanium†	-1.1	-0.0020 mg/L	0.00017	-0.0020 mg/L	0.00017	8.57%
QC value within limits for Titanium Recovery = Not calculated						
Vanadium†	109.7	0.0019 mg/L	0.00096	0.0019 mg/L	0.00096	50.15%
QC value within limits for Vanadium Recovery = Not calculated						
Zinc†	7.4	-0.0007 mg/L	0.00016	-0.0007 mg/L	0.00016	21.60%
QC value within limits for Zinc Recovery = Not calculated						
Argon	5575022.8	103.9 mg/L	0.22	103.9 mg/L	0.22	0.21%
Sodium†	2178.0	0.0788 mg/L	0.00024	0.0788 mg/L	0.00024	0.30%
QC value within limits for Sodium Recovery = Not calculated						
Magnesium†	128.6	0.0008 mg/L	0.00017	0.0008 mg/L	0.00017	22.80%
QC value within limits for Magnesium Recovery = Not calculated						
Iron†	67.8	-0.0009 mg/L	0.00087	-0.0009 mg/L	0.00087	91.86%
QC value within limits for Iron Recovery = Not calculated						
Calcium†	21.7	-0.0207 mg/L	0.00033	-0.0207 mg/L	0.00033	1.60%
QC value within limits for Calcium Recovery = Not calculated						
Potassium†	473.2	0.0913 mg/L	0.00069	0.0913 mg/L	0.00069	0.76%
QC value within limits for Potassium Recovery = Not calculated						
Aluminum radial†	-54.6	-0.0234 mg/L	0.00225	-0.0234 mg/L	0.00225	9.61%
QC value within limits for Aluminum radial Recovery = Not calculated						
Calcium radial†	-8.0	-0.0249 mg/L	0.00233	-0.0249 mg/L	0.00233	9.39%
QC value within limits for Calcium radial Recovery = Not calculated						
Iron radial†	8.3	0.0004 mg/L	0.00193	0.0004 mg/L	0.00193	485.42%
QC value within limits for Iron radial Recovery = Not calculated						
Magnesium radial†	15.3	-0.0006 mg/L	0.00123	-0.0006 mg/L	0.00123	191.51%
QC value within limits for Magnesium radial Recovery = Not calculated						
Sodium radial†	521.3	0.1292 mg/L	0.00925	0.1292 mg/L	0.00925	7.16%
QC value within limits for Sodium radial Recovery = Not calculated						
Potassium radial†	40.0	0.0355 mg/L	0.02399	0.0355 mg/L	0.02399	67.51%
QC value within limits for Potassium radial Recovery = Not calculated						
Stonrium radial†	17.2	-0.0007 mg/L	0.00002	-0.0007 mg/L	0.00002	2.36%
QC value within limits for Stonrium radial Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 219 **Autosampler Location: 9**
Sample ID: ICSA **Date Collected: 3/6/2011 10:20:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	645874.5	94.75	%	0.379				0.40%
Aluminum†	21732954.6	500.5	mg/L	3.27	500.5	mg/L	3.27	0.65%
Antimony†	-31.0	-0.0047	mg/L	0.01048	-0.0047	mg/L	0.01048	223.54%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	34.4	0.0257	mg/L	0.00239	0.0257	mg/L	0.00239	9.30%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	512.8	0.0083	mg/L	0.00024	0.0083	mg/L	0.00024	2.96%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	1273.1	-0.0004	mg/L	0.00003	-0.0004	mg/L	0.00003	8.20%

QC value within limits for Beryllium Recovery = Not calculated

Boron†	-263.0	0.0126 mg/L	0.00222	0.0126 mg/L	0.00222	17.67%

QC value within limits for Boron Recovery = Not calculated

Cadmium†	12.0	-0.0014 mg/L	0.00038	-0.0014 mg/L	0.00038	27.98%

QC value within limits for Cadmium Recovery = Not calculated

Chromium†	36.8	-0.0005 mg/L	0.00047	-0.0005 mg/L	0.00047	86.44%

QC value within limits for Chromium Recovery = Not calculated

Cobalt†	81.1	0.0036 mg/L	0.00032	0.0036 mg/L	0.00032	9.08%

QC value within limits for Cobalt Recovery = Not calculated

Copper†	-1482.9	-0.0073 mg/L	0.00013	-0.0073 mg/L	0.00013	1.78%

QC value within limits for Copper Recovery = Not calculated

Lithium†	3073.7	-0.0024 mg/L	0.00001	-0.0024 mg/L	0.00001	0.58%

QC value within limits for Lithium Recovery = Not calculated

Manganese†	4888.9	0.0087 mg/L	0.00009	0.0087 mg/L	0.00009	1.09%

QC value within limits for Manganese Recovery = Not calculated

Molybdenum†	-144.0	-0.0007 mg/L	0.00172	-0.0007 mg/L	0.00172	263.57%

QC value within limits for Molybdenum Recovery = Not calculated

Nickel†	27.2	-0.0002 mg/L	0.00137	-0.0002 mg/L	0.00137	762.29%

QC value within limits for Nickel Recovery = Not calculated

Lead†	-36.4	0.0016 mg/L	0.00238	0.0016 mg/L	0.00238	152.34%

QC value within limits for Lead Recovery = Not calculated

Selenium†	-84.0	0.0168 mg/L	0.01708	0.0168 mg/L	0.01708	101.83%

QC value within limits for Selenium Recovery = Not calculated

Silver†	2768.6	0.0047 mg/L	0.00098	0.0047 mg/L	0.00098	20.92%

QC value within limits for Silver Recovery = Not calculated

Strontium†	22067.6	-0.0130 mg/L	0.00007	-0.0130 mg/L	0.00007	0.53%

QC value within limits for Strontium Recovery = Not calculated

Tin†	-51.5	0.0006 mg/L	0.00319	0.0006 mg/L	0.00319	514.74%

QC value within limits for Tin Recovery = Not calculated

Thallium†	-4.1	-0.0048 mg/L	0.01158	-0.0048 mg/L	0.01158	242.12%

QC value within limits for Thallium Recovery = Not calculated

Titanium†	-2375.4	-0.0126 mg/L	0.00020	-0.0126 mg/L	0.00020	1.61%

QC value within limits for Titanium Recovery = Not calculated

Vanadium†	9483.6	-0.0035 mg/L	0.00197	-0.0035 mg/L	0.00197	55.75%

QC value within limits for Vanadium Recovery = Not calculated

Zinc†	199.2	0.0142 mg/L	0.00093	0.0142 mg/L	0.00093	6.54%

QC value within limits for Zinc Recovery = Not calculated

Argon	5194522.8	96.80 mg/L	0.260	96.80 mg/L	0.260	0.27%
Sodium†	14820.0	0.1251 mg/L	0.00039	0.1251 mg/L	0.00039	0.31%

QC value within limits for Sodium Recovery = Not calculated

Magnesium†	75348209.5	326.2 mg/L	1.95	326.2 mg/L	1.95	0.60%
Iron†	16384907.3	382.3 mg/L	2.36	382.3 mg/L	2.36	0.62%
Calcium†	66944136.1	489.9 mg/L	3.20	489.9 mg/L	3.20	0.65%
Potassium†	2118.6	0.1056 mg/L	0.00116	0.1056 mg/L	0.00116	1.09%
Aluminum radial†	936440.7	521.0 mg/L	1.55	521.0 mg/L	1.55	0.30%

QC value within limits for Aluminum radial Recovery = 104.20%

Calcium radial†	3075290.6	529.2 mg/L	2.09	529.2 mg/L	2.09	0.39%

QC value within limits for Calcium radial Recovery = 105.83%

Iron radial†	815462.2	501.3 mg/L	1.63	501.3 mg/L	1.63	0.33%

QC value within limits for Iron radial Recovery = 100.27%

Magnesium radial†	4234978.5	446.6 mg/L	0.77	446.6 mg/L	0.77	0.17%

QC value within limits for Magnesium radial Recovery = 89.31%

Sodium radial†	574.4	0.1439 mg/L	0.01422	0.1439 mg/L	0.01422	9.88%

QC value within limits for Sodium radial Recovery = Not calculated

Potassium radial†	75.6	0.0877 mg/L	0.02991	0.0877 mg/L	0.02991	34.11%

QC value within limits for Potassium radial Recovery = Not calculated

Stonrium radial†	1063.2	0.0013 mg/L	0.00006	0.0013 mg/L	0.00006	4.68%

QC value within limits for Stonrium radial Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 220
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 3/6/2011 10:22:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	633252.3	92.90	%	1.109				1.19%
Aluminum†	21252854.9	489.5	mg/L	3.46	489.5	mg/L	3.46	0.71%
Antimony†	8004.0	9.778	mg/L	0.1408	9.778	mg/L	0.1408	1.44%
QC value within limits for Antimony Recovery = 97.78%								
Arsenic†	8117.0	10.19	mg/L	0.156	10.19	mg/L	0.156	1.53%
QC value within limits for Arsenic Recovery = 101.87%								
Barium†	166513.7	2.921	mg/L	0.0133	2.921	mg/L	0.0133	0.46%
QC value within limits for Barium Recovery = 97.38%								
Beryllium†	2026200.0	1.038	mg/L	0.0034	1.038	mg/L	0.0034	0.33%
QC value within limits for Beryllium Recovery = 103.84%								
Boron†	124287.6	5.206	mg/L	0.0256	5.206	mg/L	0.0256	0.49%
QC value within limits for Boron Recovery = 104.12%								
Cadmium†	57142.5	3.107	mg/L	0.0080	3.107	mg/L	0.0080	0.26%
QC value within limits for Cadmium Recovery = 103.58%								
Chromium†	207095.2	2.875	mg/L	0.0131	2.875	mg/L	0.0131	0.45%
QC value within limits for Chromium Recovery = 95.85%								
Cobalt†	40032.6	2.748	mg/L	0.0364	2.748	mg/L	0.0364	1.32%
QC value within limits for Cobalt Recovery = 91.61%								
Copper†	305848.5	3.090	mg/L	0.0135	3.090	mg/L	0.0135	0.44%
QC value within limits for Copper Recovery = 102.99%								
Lithium†	2924.4	-0.0024	mg/L	0.00002	-0.0024	mg/L	0.00002	0.75%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	849179.6	1.924	mg/L	0.0063	1.924	mg/L	0.0063	0.33%
QC value within limits for Manganese Recovery = 96.22%								
Molybdenum†	19898.5	2.834	mg/L	0.0357	2.834	mg/L	0.0357	1.26%
QC value within limits for Molybdenum Recovery = 94.46%								
Nickel†	42661.4	2.739	mg/L	0.0344	2.739	mg/L	0.0344	1.25%
QC value within limits for Nickel Recovery = 91.29%								
Lead†	19416.0	9.455	mg/L	0.1327	9.455	mg/L	0.1327	1.40%
QC value within limits for Lead Recovery = 94.55%								
Selenium†	2318.1	5.058	mg/L	0.0729	5.058	mg/L	0.0729	1.44%
QC value within limits for Selenium Recovery = 101.16%								
Silver†	450192.9	3.327	mg/L	0.0147	3.327	mg/L	0.0147	0.44%
QC value within limits for Silver Recovery = 110.91%								
Strontium†	6010891.0	0.4632	mg/L	0.00313	0.4632	mg/L	0.00313	0.68%
QC value within limits for Strontium Recovery = 92.63%								
Tin†	402.1	0.4762	mg/L	0.00906	0.4762	mg/L	0.00906	1.90%
QC value within limits for Tin Recovery = 95.24%								
Thallium†	15164.2	8.876	mg/L	0.1219	8.876	mg/L	0.1219	1.37%
QC value within limits for Thallium Recovery = 88.76%								
Titanium†	2216287.4	9.867	mg/L	0.0641	9.867	mg/L	0.0641	0.65%
QC value within limits for Titanium Recovery = 98.67%								
Vanadium†	225032.0	2.979	mg/L	0.0077	2.979	mg/L	0.0077	0.26%
QC value within limits for Vanadium Recovery = 99.31%								
Zinc†	35123.0	2.723	mg/L	0.0125	2.723	mg/L	0.0125	0.46%
QC value within limits for Zinc Recovery = 90.78%								
Argon	5167767.1	96.30	mg/L	0.100	96.30	mg/L	0.100	0.10%
Sodium†	22018140.4	80.71	mg/L	0.929	80.71	mg/L	0.929	1.15%
Magnesium†	75657600.6	327.6	mg/L	2.73	327.6	mg/L	2.73	0.83%
Iron†	16351926.6	381.5	mg/L	3.19	381.5	mg/L	3.19	0.84%
Calcium†	66352414.1	485.6	mg/L	3.56	485.6	mg/L	3.56	0.73%
Potassium†	33738072.8	293.3	mg/L	0.97	293.3	mg/L	0.97	0.33%
Aluminum radial†	939639.3	522.8	mg/L	2.56	522.8	mg/L	2.56	0.49%
QC value within limits for Aluminum radial Recovery = 104.56%								
Calcium radial†	3095655.3	532.7	mg/L	3.83	532.7	mg/L	3.83	0.72%
QC value within limits for Calcium radial Recovery = 106.53%								
Iron radial†	827678.5	508.8	mg/L	3.36	508.8	mg/L	3.36	0.66%
QC value within limits for Iron radial Recovery = 101.77%								
Magnesium radial†	4273344.4	450.6	mg/L	3.87	450.6	mg/L	3.87	0.86%
QC value within limits for Magnesium radial Recovery = 90.12%								
Sodium radial†	184689.5	50.98	mg/L	0.169	50.98	mg/L	0.169	0.33%
QC value within limits for Sodium radial Recovery = 101.95%								
Potassium radial†	147438.5	215.7	mg/L	0.61	215.7	mg/L	0.61	0.28%
QC value within limits for Potassium radial Recovery = 107.84%								
Stonrium radial†	265227.3	0.5149	mg/L	0.00174	0.5149	mg/L	0.00174	0.34%
QC value within limits for Stonrium radial Recovery = 102.97%								

All analyte(s) passed QC.

Sequence No.: 221
Sample ID: RINSE BLANK
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 152
Date Collected: 3/6/2011 10:24:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: RINSE BLANK

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	695576.7	102.0	%	0.22				0.22%
Aluminumt	104478.0	2.401	mg/L	2.6705	2.401	mg/L	2.6705	111.23%
Antimonyt	28.4	0.0317	mg/L	0.02048	0.0317	mg/L	0.02048	64.56%
Arsenict	14.9	0.0180	mg/L	0.01876	0.0180	mg/L	0.01876	104.48%
Bariumt	381.5	0.0060	mg/L	0.00734	0.0060	mg/L	0.00734	123.41%
Berylliumt	7949.1	0.0031	mg/L	0.00465	0.0031	mg/L	0.00465	151.69%
Boront	745.2	0.0313	mg/L	0.02198	0.0313	mg/L	0.02198	70.25%
Cadmiumt	108.1	0.0047	mg/L	0.00735	0.0047	mg/L	0.00735	156.01%
Chromiumt	868.2	0.0110	mg/L	0.01408	0.0110	mg/L	0.01408	127.95%
Cobaltt	107.2	0.0053	mg/L	0.00762	0.0053	mg/L	0.00762	144.51%
Coppert	1109.6	0.0100	mg/L	0.01217	0.0100	mg/L	0.01217	122.30%
Lithiumt	-649.3	-0.0028	mg/L	0.00002	-0.0028	mg/L	0.00002	0.68%
Manganeset	3428.0	0.0054	mg/L	0.00894	0.0054	mg/L	0.00894	165.62%
Molybdenumt	46.7	0.0068	mg/L	0.00795	0.0068	mg/L	0.00795	117.03%
Nickelt	118.5	0.0057	mg/L	0.00747	0.0057	mg/L	0.00747	131.35%
Leadt	42.8	0.0207	mg/L	0.02470	0.0207	mg/L	0.02470	119.48%
Seleniumt	1.9	0.0086	mg/L	0.01082	0.0086	mg/L	0.01082	125.72%
Silvert	6381.1	0.0461	mg/L	0.03095	0.0461	mg/L	0.03095	67.21%
Strontiumt	28313.1	0.0010	mg/L	0.00253	0.0010	mg/L	0.00253	259.82%
Tint	0.3	-0.0008	mg/L	0.00274	-0.0008	mg/L	0.00274	351.33%
Thalliumt	26.8	0.0133	mg/L	0.01776	0.0133	mg/L	0.01776	133.56%
Titaniumt	8664.9	0.0366	mg/L	0.04350	0.0366	mg/L	0.04350	118.86%
Vanadiumt	1138.8	0.0144	mg/L	0.01588	0.0144	mg/L	0.01588	110.44%
Zinct	134.9	0.0092	mg/L	0.00727	0.0092	mg/L	0.00727	79.40%
Argon	5555429.7	103.5	mg/L	0.08	103.5	mg/L	0.08	0.08%
Sodiumt	45590.6	0.2378	mg/L	0.19595	0.2378	mg/L	0.19595	82.40%
Magnesiumt	519472.5	2.249	mg/L	2.5634	2.249	mg/L	2.5634	113.97%
Iront	101874.3	2.374	mg/L	2.6721	2.374	mg/L	2.6721	112.54%
Calciumt	318898.5	2.313	mg/L	2.6547	2.313	mg/L	2.6547	114.77%
Potassiumt	69681.6	0.6927	mg/L	0.71613	0.6927	mg/L	0.71613	103.39%
Aluminum radialt	12040.8	6.706	mg/L	0.2307	6.706	mg/L	0.2307	3.44%
Calcium radialt	40822.0	7.001	mg/L	0.2884	7.001	mg/L	0.2884	4.12%
Iron radialt	11639.4	7.151	mg/L	0.2191	7.151	mg/L	0.2191	3.06%
Magnesium radialt	64822.9	6.833	mg/L	0.2549	6.833	mg/L	0.2549	3.73%
Sodium radialt	2311.7	0.6235	mg/L	0.03066	0.6235	mg/L	0.03066	4.92%
Potassium radialt	1586.9	2.299	mg/L	0.1767	2.299	mg/L	0.1767	7.69%
Stonrium radialt	3419.4	0.0059	mg/L	0.00026	0.0059	mg/L	0.00026	4.44%

Sequence No.: 222
Sample ID: RINSE BLANK
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 153
Date Collected: 3/6/2011 10:25:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: RINSE BLANK

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	689750.9	101.2	%	1.06				1.05%
Aluminumt	586.5	0.0083	mg/L	0.00276	0.0083	mg/L	0.00276	33.40%

Antimony†	4.5	0.0021 mg/L	0.00877	0.0021 mg/L	0.00877	425.22%
Arsenic†	1.7	0.0013 mg/L	0.00330	0.0013 mg/L	0.00330	258.22%
Barium†	9.1	-0.0006 mg/L	0.00009	-0.0006 mg/L	0.00009	16.06%
Beryllium†	-61.3	-0.0010 mg/L	0.00005	-0.0010 mg/L	0.00005	4.60%
Boron†	163.6	0.0067 mg/L	0.00089	0.0067 mg/L	0.00089	13.30%
Cadmium†	-6.7	-0.0016 mg/L	0.00069	-0.0016 mg/L	0.00069	42.60%
Chromium†	-4.0	-0.0011 mg/L	0.00069	-0.0011 mg/L	0.00069	62.11%
Cobalt†	-5.4	-0.0024 mg/L	0.00023	-0.0024 mg/L	0.00023	9.27%
Copper†	41.2	-0.0009 mg/L	0.00059	-0.0009 mg/L	0.00059	63.70%
Lithium†	-384.5	-0.0028 mg/L	0.00000	-0.0028 mg/L	0.00000	0.14%
Manganese†	-0.2	-0.0024 mg/L	0.00003	-0.0024 mg/L	0.00003	1.34%
Molybdenum†	0.2	-0.0001 mg/L	0.00084	-0.0001 mg/L	0.00084	>999.9%
Nickel†	2.0	-0.0018 mg/L	0.00168	-0.0018 mg/L	0.00168	93.63%
Lead†	3.8	0.0015 mg/L	0.00017	0.0015 mg/L	0.00017	11.96%
Selenium†	1.3	0.0047 mg/L	0.00571	0.0047 mg/L	0.00571	121.58%
Silver†	1.0	-0.0009 mg/L	0.00033	-0.0009 mg/L	0.00033	36.73%
Strontium†	391.0	-0.0011 mg/L	0.00001	-0.0011 mg/L	0.00001	1.02%
Tin†	-2.8	-0.0047 mg/L	0.00274	-0.0047 mg/L	0.00274	58.09%
Thallium†	7.7	0.0021 mg/L	0.00120	0.0021 mg/L	0.00120	55.85%
Titanium†	41.1	-0.0018 mg/L	0.00009	-0.0018 mg/L	0.00009	4.74%
Vanadium†	111.9	0.0019 mg/L	0.00028	0.0019 mg/L	0.00028	14.19%
Zinc†	32.7	0.0012 mg/L	0.00012	0.0012 mg/L	0.00012	9.98%
Argon	5558510.1	103.6 mg/L	0.16	103.6 mg/L	0.16	0.16%
Sodium†	597.1	0.0730 mg/L	0.00017	0.0730 mg/L	0.00017	0.23%
Magnesium†	1372.3	0.0061 mg/L	0.00089	0.0061 mg/L	0.00089	14.49%
Iron†	265.5	0.0037 mg/L	0.00089	0.0037 mg/L	0.00089	24.13%
Calcium†	790.1	-0.0151 mg/L	0.00130	-0.0151 mg/L	0.00130	8.60%
Potassium†	518.0	0.0917 mg/L	0.00025	0.0917 mg/L	0.00025	0.27%
Aluminum radial†	3.6	0.0089 mg/L	0.00776	0.0089 mg/L	0.00776	87.00%
Calcium radial†	59.0	-0.0133 mg/L	0.00619	-0.0133 mg/L	0.00619	46.35%
Iron radial†	21.8	0.0087 mg/L	0.00473	0.0087 mg/L	0.00473	54.65%
Magnesium radial†	104.2	0.0087 mg/L	0.00278	0.0087 mg/L	0.00278	31.85%
Sodium radial†	181.0	0.0353 mg/L	0.00847	0.0353 mg/L	0.00847	24.03%
Potassium radial†	8.1	-0.0111 mg/L	0.02795	-0.0111 mg/L	0.02795	250.75%
Stonrium radial†	10.1	-0.0007 mg/L	0.00000	-0.0007 mg/L	0.00000	0.47%

Sequence No.: 223
Sample ID: MBLK-98257
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 154
Date Collected: 3/6/2011 10:27:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MBLK-98257

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: MBLK-98257

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	695858.9	102.1	%	1.63				1.59%
Aluminum†	1673.4	0.0333	mg/L	0.00035	0.0333	mg/L	0.00035	1.05%
Antimony†	4.3	0.0019	mg/L	0.00603	0.0019	mg/L	0.00603	316.61%
Arsenic†	2.5	0.0023	mg/L	0.00330	0.0023	mg/L	0.00330	142.32%
Barium†	118.7	0.0013	mg/L	0.00015	0.0013	mg/L	0.00015	10.88%
Beryllium†	-109.4	-0.0011	mg/L	0.00003	-0.0011	mg/L	0.00003	3.03%
Boron†	133.9	0.0055	mg/L	0.00017	0.0055	mg/L	0.00017	3.16%
Cadmium†	-8.3	-0.0017	mg/L	0.00079	-0.0017	mg/L	0.00079	45.83%
Chromium†	83.3	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	134.08%
Cobalt†	4.8	-0.0017	mg/L	0.00030	-0.0017	mg/L	0.00030	17.19%
Copper†	39.1	-0.0010	mg/L	0.00091	-0.0010	mg/L	0.00091	95.55%
Lithium†	-267.4	-0.0028	mg/L	0.00001	-0.0028	mg/L	0.00001	0.53%
Manganese†	25.3	-0.0023	mg/L	0.00003	-0.0023	mg/L	0.00003	1.39%
Molybdenum†	-3.1	-0.0005	mg/L	0.00056	-0.0005	mg/L	0.00056	108.37%
Nickel†	55.0	0.0016	mg/L	0.00085	0.0016	mg/L	0.00085	53.04%
Lead†	2.5	0.0009	mg/L	0.00274	0.0009	mg/L	0.00274	320.41%
Selenium†	-5.4	-0.0093	mg/L	0.00971	-0.0093	mg/L	0.00971	104.03%
Silver†	-139.7	-0.0019	mg/L	0.00019	-0.0019	mg/L	0.00019	9.90%
Strontium†	1546.8	-0.0010	mg/L	0.00001	-0.0010	mg/L	0.00001	0.86%
Tin†	0.0	-0.0018	mg/L	0.00240	-0.0018	mg/L	0.00240	134.93%

Thallium†	4.0	-0.0001 mg/L	0.00426	-0.0001 mg/L	0.00426	>999.9%
Titanium†	13.2	-0.0019 mg/L	0.00005	-0.0019 mg/L	0.00005	2.48%
Vanadium†	61.3	0.0012 mg/L	0.00091	0.0012 mg/L	0.00091	72.49%
Zinc†	155.9	0.0108 mg/L	0.00022	0.0108 mg/L	0.00022	2.07%
Argon	5603098.6	104.4 mg/L	0.42	104.4 mg/L	0.42	0.40%
Sodium†	1100.2	0.0749 mg/L	0.00015	0.0749 mg/L	0.00015	0.20%
Magnesium†	963.0	0.0044 mg/L	0.00043	0.0044 mg/L	0.00043	9.86%
Iron†	442.0	0.0078 mg/L	0.00018	0.0078 mg/L	0.00018	2.37%
Calcium†	2354.7	-0.0036 mg/L	0.00103	-0.0036 mg/L	0.00103	28.21%
Potassium†	535.0	0.0918 mg/L	0.00028	0.0918 mg/L	0.00028	0.30%
Aluminum radial†	22.9	0.0197 mg/L	0.00309	0.0197 mg/L	0.00309	15.71%
Calcium radial†	101.7	-0.0060 mg/L	0.00085	-0.0060 mg/L	0.00085	14.21%
Iron radial†	25.0	0.0106 mg/L	0.00080	0.0106 mg/L	0.00080	7.57%
Magnesium radial†	52.1	0.0032 mg/L	0.00057	0.0032 mg/L	0.00057	17.55%
Sodium radial†	154.3	0.0279 mg/L	0.00365	0.0279 mg/L	0.00365	13.11%
Potassium radial†	0.3	-0.0224 mg/L	0.04874	-0.0224 mg/L	0.04874	217.29%
Stonrium radial†	54.3	-0.0006 mg/L	0.00002	-0.0006 mg/L	0.00002	3.27%

Sequence No.: 224
Sample ID: LCS-98257
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 155
Date Collected: 3/6/2011 10:30:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCS-98257

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: LCS-98257

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Yttrium	682856.6	100.2	%	1.04				1.04%
Aluminum†	232324.9	5.345	mg/L	0.0220	5.345	mg/L	0.0220	0.41%
Antimony†	77.8	0.0904	mg/L	0.00603	0.0904	mg/L	0.00603	6.66%
Arsenic†	80.4	0.1004	mg/L	0.00163	0.1004	mg/L	0.00163	1.62%
Barium†	5470.7	0.0953	mg/L	0.00105	0.0953	mg/L	0.00105	1.10%
Beryllium†	197393.7	0.1002	mg/L	0.00028	0.1002	mg/L	0.00028	0.28%
Boron†	2527.0	0.1055	mg/L	0.00119	0.1055	mg/L	0.00119	1.13%
Cadmium†	1726.4	0.0971	mg/L	0.00167	0.0971	mg/L	0.00167	1.72%
Chromium†	7098.3	0.0975	mg/L	0.00119	0.0975	mg/L	0.00119	1.22%
Cobalt†	1430.3	0.0967	mg/L	0.00176	0.0967	mg/L	0.00176	1.82%
Copper†	9765.6	0.0971	mg/L	0.00127	0.0971	mg/L	0.00127	1.30%
Lithium†	730464.7	0.0906	mg/L	0.00030	0.0906	mg/L	0.00030	0.33%
Manganese†	42851.9	0.0949	mg/L	0.00109	0.0949	mg/L	0.00109	1.15%
Molybdenum†	644.9	0.0913	mg/L	0.00158	0.0913	mg/L	0.00158	1.73%
Nickel†	1580.4	0.0996	mg/L	0.00153	0.0996	mg/L	0.00153	1.53%
Lead†	202.6	0.0983	mg/L	0.00206	0.0983	mg/L	0.00206	2.10%
Selenium†	249.4	0.5271	mg/L	0.01065	0.5271	mg/L	0.01065	2.02%
Silver†	13173.9	0.0969	mg/L	0.00133	0.0969	mg/L	0.00133	1.38%
Strontium†	1248343.8	0.0980	mg/L	0.00050	0.0980	mg/L	0.00050	0.51%
Tin†	93.7	0.0970	mg/L	0.00640	0.0970	mg/L	0.00640	6.60%
Thallium†	159.2	0.0908	mg/L	0.00802	0.0908	mg/L	0.00802	8.83%
Titanium†	21574.9	0.0941	mg/L	0.00094	0.0941	mg/L	0.00094	1.00%
Vanadium†	7431.1	0.1017	mg/L	0.00198	0.1017	mg/L	0.00198	1.95%
Zinc†	1322.8	0.1013	mg/L	0.00187	0.1013	mg/L	0.00187	1.85%
Argon	5599691.3	104.3	mg/L	0.40	104.3	mg/L	0.40	0.39%
Sodium†	1299919.2	4.832	mg/L	0.0120	4.832	mg/L	0.0120	0.25%
Magnesium†	1191322.2	5.158	mg/L	0.0115	5.158	mg/L	0.0115	0.22%
Iron†	217669.3	5.076	mg/L	0.0180	5.076	mg/L	0.0180	0.35%
Calcium†	720433.3	5.252	mg/L	0.0212	5.252	mg/L	0.0212	0.40%
Potassium†	578136.6	5.111	mg/L	0.0056	5.111	mg/L	0.0056	0.11%
Aluminum radial†	9510.6	5.298	mg/L	0.0610	5.298	mg/L	0.0610	1.15%
Calcium radial†	31891.7	5.464	mg/L	0.0880	5.464	mg/L	0.0880	1.61%
Iron radial†	8853.1	5.438	mg/L	0.0982	5.438	mg/L	0.0982	1.81%
Magnesium radial†	50753.1	5.349	mg/L	0.0850	5.349	mg/L	0.0850	1.59%
Sodium radial†	18738.7	5.159	mg/L	0.0797	5.159	mg/L	0.0797	1.55%
Potassium radial†	3542.4	5.160	mg/L	0.1186	5.160	mg/L	0.1186	2.30%
Stonrium radial†	51233.6	0.0988	mg/L	0.00127	0.0988	mg/L	0.00127	1.28%

Sequence No.: 225
Sample ID: 11020727-03B
Analyst:
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 156
Date Collected: 3/6/2011 10:31:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-03B

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: 11020727-03B

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	700334.9	102.7	%	1.92				1.87%
Aluminumt	779.3	0.0127	mg/L	0.00103	0.0635	mg/L	0.00516	8.13%
Antimonyt	2.9	0.0001	mg/L	0.00557	0.0007	mg/L	0.02783	>999.9%
Arsenict	1.2	0.0006	mg/L	0.00153	0.0030	mg/L	0.00763	257.79%
Bariumt	1301.0	0.0221	mg/L	0.00039	0.1104	mg/L	0.00194	1.75%
Berylliumt	-58.3	-0.0010	mg/L	0.00002	-0.0052	mg/L	0.00010	1.87%
Boront	240.4	0.0099	mg/L	0.00051	0.0495	mg/L	0.00254	5.13%
Cadmiumt	-11.2	-0.0019	mg/L	0.00036	-0.0093	mg/L	0.00178	19.05%
Chromiumt	40.2	-0.0005	mg/L	0.00052	-0.0025	mg/L	0.00261	105.17%
Cobaltt	9.5	-0.0014	mg/L	0.00042	-0.0071	mg/L	0.00212	29.98%
Coppert	13.1	-0.0012	mg/L	0.00082	-0.0059	mg/L	0.00409	69.48%
Lithiumt	32381.7	0.0014	mg/L	0.00002	0.0069	mg/L	0.00012	1.72%
Manganeset	-2.1	-0.0024	mg/L	0.00002	-0.0119	mg/L	0.00010	0.80%
Molybdenumt	-6.9	-0.0011	mg/L	0.00096	-0.0053	mg/L	0.00481	90.63%
Nickelt	3.3	-0.0017	mg/L	0.00108	-0.0086	mg/L	0.00540	62.90%
Leadt	-1.1	-0.0009	mg/L	0.00054	-0.0045	mg/L	0.00269	59.87%
Seleniumt	-1.6	-0.0014	mg/L	0.00188	-0.0071	mg/L	0.00942	132.32%
Silvert	-125.4	-0.0019	mg/L	0.00080	-0.0094	mg/L	0.00399	42.20%
Strontiumt	190041.0	0.0140	mg/L	0.00007	0.0698	mg/L	0.00035	0.50%
Tint	-2.7	-0.0045	mg/L	0.00171	-0.0223	mg/L	0.00853	38.28%
Thalliumt	7.0	0.0017	mg/L	0.00161	0.0086	mg/L	0.00804	94.00%
Titaniumt	-33.5	-0.0021	mg/L	0.00002	-0.0107	mg/L	0.00010	0.91%
Vanadiumt	272.6	0.0041	mg/L	0.00088	0.0206	mg/L	0.00440	21.36%
Zinct	34.7	0.0014	mg/L	0.00016	0.0070	mg/L	0.00082	11.83%
Argon	5580472.5	104.0	mg/L	0.27	519.9	mg/L	1.36	0.26%
Sodiumt	2361016.5	8.718	mg/L	0.1701	43.59	mg/L	0.851	1.95%
Magnesiumt	227243.6	0.9840	mg/L	0.00144	4.920	mg/L	0.0072	0.15%
Iront	103.0	-0.0001	mg/L	0.00017	-0.0006	mg/L	0.00083	136.82%
Calciumt	311143.3	2.256	mg/L	0.0042	11.28	mg/L	0.021	0.19%
Potassiumt	14065.5	0.2094	mg/L	0.00082	1.047	mg/L	0.0041	0.39%
Aluminum radialt	-36.5	-0.0133	mg/L	0.00284	-0.0667	mg/L	0.01419	21.26%
Calcium radialt	13504.7	2.300	mg/L	0.0556	11.50	mg/L	0.278	2.42%
Iron radialt	10.9	0.0020	mg/L	0.00324	0.0099	mg/L	0.01621	163.45%
Magnesium radialt	9601.7	1.010	mg/L	0.0220	5.051	mg/L	0.1098	2.17%
Sodium radialt	34007.8	9.374	mg/L	0.2364	46.87	mg/L	1.182	2.52%
Potassium radialt	145.1	0.1894	mg/L	0.01192	0.9471	mg/L	0.05958	6.29%
Stonrium radialt	7767.9	0.0143	mg/L	0.00040	0.0717	mg/L	0.00202	2.82%

Sequence No.: 226
Sample ID: 11020727-03BSD
Analyst:
Initial Sample Wt:
Dilution: 25X

Autosampler Location: 157
Date Collected: 3/6/2011 10:33:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-03BSD

Analyte	Back Pressure	Flow
All	169.0 kPa	0.65 L/min

Mean Data: 11020727-03BSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	694859.9	101.9	%	0.56				0.55%
Aluminumt	462.6	0.0054	mg/L	0.00064	0.1350	mg/L	0.01589	11.77%

Antimony†	2.4	-0.0004 mg/L	0.00749	-0.0108 mg/L	0.18736	>999.9%
Arsenic†	0.8	0.0002 mg/L	0.00358	0.0054 mg/L	0.08947	>999.9%
Barium†	222.9	0.0032 mg/L	0.00008	0.0792 mg/L	0.00204	2.57%
Beryllium†	-60.3	-0.0010 mg/L	0.00003	-0.0260 mg/L	0.00078	2.98%
Boron†	88.9	0.0036 mg/L	0.00048	0.0898 mg/L	0.01196	13.33%
Cadmium†	-4.6	-0.0015 mg/L	0.00048	-0.0368 mg/L	0.01202	32.64%
Chromium†	12.1	-0.0009 mg/L	0.00040	-0.0221 mg/L	0.01008	45.51%
Cobalt†	12.5	-0.0012 mg/L	0.00058	-0.0301 mg/L	0.01458	48.40%
Copper†	22.1	-0.0011 mg/L	0.00029	-0.0280 mg/L	0.00730	26.09%
Lithium†	4971.9	-0.0021 mg/L	0.00000	-0.0532 mg/L	0.00006	0.12%
Manganese†	-27.9	-0.0024 mg/L	0.00001	-0.0610 mg/L	0.00029	0.48%
Molybdenum†	1.2	0.0001 mg/L	0.00110	0.0022 mg/L	0.02748	>999.9%
Nickel†	4.5	-0.0016 mg/L	0.00074	-0.0410 mg/L	0.01857	45.29%
Lead†	1.9	0.0005 mg/L	0.00180	0.0132 mg/L	0.04494	339.37%
Selenium†	-2.2	-0.0028 mg/L	0.00860	-0.0692 mg/L	0.21497	310.49%
Silver†	-71.7	-0.0014 mg/L	0.00067	-0.0362 mg/L	0.01665	45.94%
Strontium†	32484.0	0.0015 mg/L	0.00001	0.0369 mg/L	0.00025	0.67%
Tin†	1.4	-0.0003 mg/L	0.00138	-0.0083 mg/L	0.03452	413.48%
Thallium†	-0.9	-0.0029 mg/L	0.00448	-0.0734 mg/L	0.11199	152.52%
Titanium†	11.5	-0.0019 mg/L	0.00011	-0.0485 mg/L	0.00278	5.72%
Vanadium†	129.1	0.0022 mg/L	0.00083	0.0545 mg/L	0.02087	38.27%
Zinc†	34.2	0.0014 mg/L	0.00073	0.0338 mg/L	0.01825	54.05%
Argon	5602576.6	104.4 mg/L	0.30	2610 mg/L	7.5	0.29%
Sodium†	364239.3	1.405 mg/L	0.0039	35.12 mg/L	0.096	0.27%
Magnesium†	37755.3	0.1637 mg/L	0.00118	4.091 mg/L	0.0295	0.72%
Iron†	39.0	-0.0016 mg/L	0.00012	-0.0404 mg/L	0.00293	7.25%
Calcium†	52011.2	0.3598 mg/L	0.00450	8.994 mg/L	0.1124	1.25%
Potassium†	2602.9	0.1098 mg/L	0.00127	2.744 mg/L	0.0318	1.16%
Aluminum radial†	-42.2	-0.0166 mg/L	0.00567	-0.4143 mg/L	0.14175	34.22%
Calcium radial†	2255.5	0.3646 mg/L	0.00349	9.115 mg/L	0.0871	0.96%
Iron radial†	5.7	-0.0012 mg/L	0.00183	-0.0306 mg/L	0.04574	149.32%
Magnesium radial†	1645.6	0.1713 mg/L	0.00130	4.282 mg/L	0.0324	0.76%
Sodium radial†	5967.0	1.633 mg/L	0.0214	40.82 mg/L	0.536	1.31%
Potassium radial†	34.5	0.0275 mg/L	0.02259	0.6877 mg/L	0.56464	82.11%
Stonrium radial†	1338.0	0.0018 mg/L	0.00004	0.0462 mg/L	0.00095	2.06%

Sequence No.: 227
Sample ID: 11020727-03BMS
Analyst:
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 158
Date Collected: 3/6/2011 10:35:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-03BMS

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: 11020727-03BMS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	700181.3	102.7	%	2.30				2.24%
Aluminum†	51276.7	1.176	mg/L	0.0059	5.878	mg/L	0.0297	0.50%
Antimony†	22.4	0.0238	mg/L	0.00814	0.1190	mg/L	0.04072	34.23%
Arsenic†	17.6	0.0213	mg/L	0.00502	0.1066	mg/L	0.02510	23.54%
Barium†	2352.9	0.0405	mg/L	0.00130	0.2027	mg/L	0.00649	3.20%
Beryllium†	39632.5	0.0193	mg/L	0.00050	0.0966	mg/L	0.00252	2.61%
Boron†	697.4	0.0290	mg/L	0.00130	0.1451	mg/L	0.00652	4.49%
Cadmium†	343.8	0.0183	mg/L	0.00030	0.0917	mg/L	0.00151	1.64%
Chromium†	1404.7	0.0185	mg/L	0.00047	0.0923	mg/L	0.00234	2.53%
Cobalt†	285.4	0.0176	mg/L	0.00037	0.0882	mg/L	0.00186	2.11%
Copper†	1952.2	0.0184	mg/L	0.00099	0.0919	mg/L	0.00495	5.38%
Lithium†	180839.6	0.0204	mg/L	0.00010	0.1018	mg/L	0.00048	0.47%
Manganese†	8617.8	0.0172	mg/L	0.00053	0.0859	mg/L	0.00263	3.06%
Molybdenum†	129.5	0.0183	mg/L	0.00108	0.0913	mg/L	0.00540	5.91%
Nickel†	324.8	0.0189	mg/L	0.00097	0.0947	mg/L	0.00485	5.12%
Lead†	41.1	0.0197	mg/L	0.00246	0.0983	mg/L	0.01229	12.50%
Selenium†	42.9	0.0923	mg/L	0.00995	0.4613	mg/L	0.04975	10.78%
Silver†	2478.6	0.0174	mg/L	0.00017	0.0872	mg/L	0.00083	0.95%
Strontium†	423635.7	0.0325	mg/L	0.00019	0.1625	mg/L	0.00093	0.57%
Tin†	17.0	0.0163	mg/L	0.00423	0.0817	mg/L	0.02115	25.88%

Thallium†	30.5	0.0155 mg/L	0.00530	0.0773 mg/L	0.02650	34.27%
Titanium†	4291.4	0.0171 mg/L	0.00046	0.0856 mg/L	0.00231	2.70%
Vanadium†	1653.4	0.0229 mg/L	0.00217	0.1146 mg/L	0.01087	9.48%
Zinc†	284.4	0.0208 mg/L	0.00014	0.1038 mg/L	0.00072	0.69%
Argon	5602639.2	104.4 mg/L	0.21	522.0 mg/L	1.04	0.20%
Sodium†	2578386.4	9.514 mg/L	0.2138	47.57 mg/L	1.069	2.25%
Magnesium†	462873.7	2.004 mg/L	0.0036	10.02 mg/L	0.018	0.18%
Iron†	46040.6	1.072 mg/L	0.0265	5.358 mg/L	0.1325	2.47%
Calcium†	444477.1	3.232 mg/L	0.0102	16.16 mg/L	0.051	0.32%
Potassium†	126379.2	1.185 mg/L	0.0039	5.927 mg/L	0.0194	0.33%
Aluminum radial†	2046.6	1.146 mg/L	0.0298	5.728 mg/L	0.1491	2.60%
Calcium radial†	19354.8	3.307 mg/L	0.0500	16.53 mg/L	0.250	1.51%
Iron radial†	1868.1	1.144 mg/L	0.0163	5.719 mg/L	0.0816	1.43%
Magnesium radial†	19621.9	2.067 mg/L	0.0394	10.33 mg/L	0.197	1.90%
Sodium radial†	36244.2	9.992 mg/L	0.2538	49.96 mg/L	1.269	2.54%
Potassium radial†	790.0	1.133 mg/L	0.0369	5.665 mg/L	0.1844	3.26%
Stonrium radial†	17662.1	0.0336 mg/L	0.00081	0.1679 mg/L	0.00405	2.41%

Sequence No.: 228
Sample ID: 11020727-03BMSD
Analyst:
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 159
Date Collected: 3/6/2011 10:37:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-03BMSD

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: 11020727-03BMSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	688483.3	101.0	%	1.48				1.47%
Aluminum†	48166.7	1.104	mg/L	0.0033	5.520	mg/L	0.0163	0.29%
Antimony†	16.4	0.0164	mg/L	0.01026	0.0819	mg/L	0.05129	62.61%
Arsenic†	16.1	0.0193	mg/L	0.00330	0.0967	mg/L	0.01648	17.04%
Barium†	2343.7	0.0404	mg/L	0.00073	0.2019	mg/L	0.00367	1.82%
Beryllium†	39679.9	0.0193	mg/L	0.00052	0.0967	mg/L	0.00258	2.67%
Boron†	684.2	0.0285	mg/L	0.00124	0.1423	mg/L	0.00621	4.36%
Cadmium†	333.1	0.0178	mg/L	0.00020	0.0888	mg/L	0.00101	1.14%
Chromium†	1485.0	0.0196	mg/L	0.00123	0.0979	mg/L	0.00615	6.29%
Cobalt†	290.3	0.0180	mg/L	0.00028	0.0899	mg/L	0.00139	1.54%
Copper†	2016.0	0.0190	mg/L	0.00137	0.0951	mg/L	0.00686	7.21%
Lithium†	179931.8	0.0202	mg/L	0.00010	0.1012	mg/L	0.00049	0.48%
Manganese†	8625.3	0.0172	mg/L	0.00038	0.0860	mg/L	0.00190	2.21%
Molybdenum†	123.7	0.0175	mg/L	0.00139	0.0873	mg/L	0.00695	7.96%
Nickel†	307.8	0.0178	mg/L	0.00113	0.0892	mg/L	0.00566	6.34%
Lead†	40.2	0.0192	mg/L	0.00303	0.0961	mg/L	0.01515	15.77%
Selenium†	46.4	0.0997	mg/L	0.00849	0.4986	mg/L	0.04244	8.51%
Silver†	2460.3	0.0173	mg/L	0.00022	0.0865	mg/L	0.00112	1.29%
Strontium†	422081.7	0.0324	mg/L	0.00018	0.1619	mg/L	0.00088	0.55%
Tin†	18.6	0.0180	mg/L	0.00499	0.0902	mg/L	0.02493	27.64%
Thallium†	37.4	0.0195	mg/L	0.00584	0.0974	mg/L	0.02918	29.95%
Titanium†	4336.6	0.0173	mg/L	0.00060	0.0866	mg/L	0.00298	3.44%
Vanadium†	1745.2	0.0242	mg/L	0.00134	0.1210	mg/L	0.00672	5.56%
Zinc†	284.8	0.0208	mg/L	0.00052	0.1039	mg/L	0.00258	2.48%
Argon	5601659.2	104.4	mg/L	0.15	521.9	mg/L	0.73	0.14%
Sodium†	2550937.9	9.413	mg/L	0.2297	47.07	mg/L	1.148	2.44%
Magnesium†	459033.9	1.988	mg/L	0.0011	9.938	mg/L	0.0053	0.05%
Iron†	46189.6	1.075	mg/L	0.0240	5.376	mg/L	0.1200	2.23%
Calcium†	439941.1	3.199	mg/L	0.0086	15.99	mg/L	0.043	0.27%
Potassium†	125432.2	1.177	mg/L	0.0048	5.886	mg/L	0.0238	0.40%
Aluminum radial†	1927.1	1.079	mg/L	0.0133	5.395	mg/L	0.0667	1.24%
Calcium radial†	19355.4	3.307	mg/L	0.0346	16.54	mg/L	0.173	1.05%
Iron radial†	1858.0	1.138	mg/L	0.0136	5.688	mg/L	0.0681	1.20%
Magnesium radial†	19650.5	2.070	mg/L	0.0251	10.35	mg/L	0.126	1.21%
Sodium radial†	35806.8	9.871	mg/L	0.2311	49.35	mg/L	1.156	2.34%
Potassium radial†	788.1	1.130	mg/L	0.0215	5.650	mg/L	0.1076	1.90%
Stonrium radial†	17414.8	0.0331	mg/L	0.00083	0.1655	mg/L	0.00417	2.52%

Sequence No.: 229
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 3/6/2011 10:39:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	692264.2	101.6	%	1.06				1.05%
Aluminum†	24159.1	0.5511	mg/L	0.00944	0.5511	mg/L	0.00944	1.71%
QC value greater than the upper limit for Aluminum Recovery = 110.23%								
Antimony†	406.2	0.4846	mg/L	0.01203	0.4846	mg/L	0.01203	2.48%
QC value within limits for Antimony Recovery = 96.92%								
Arsenic†	407.6	0.5135	mg/L	0.00600	0.5135	mg/L	0.00600	1.17%
QC value within limits for Arsenic Recovery = 102.70%								
Barium†	28658.6	0.5022	mg/L	0.00957	0.5022	mg/L	0.00957	1.91%
QC value within limits for Barium Recovery = 100.43%								
Beryllium†	992573.1	0.5081	mg/L	0.00239	0.5081	mg/L	0.00239	0.47%
QC value within limits for Beryllium Recovery = 101.63%								
Boron†	12326.9	0.5139	mg/L	0.01078	0.5139	mg/L	0.01078	2.10%
QC value within limits for Boron Recovery = 102.78%								
Cadmium†	8797.5	0.4997	mg/L	0.01040	0.4997	mg/L	0.01040	2.08%
QC value within limits for Cadmium Recovery = 99.94%								
Chromium†	36809.4	0.5102	mg/L	0.00915	0.5102	mg/L	0.00915	1.79%
QC value within limits for Chromium Recovery = 102.04%								
Cobalt†	7402.8	0.5092	mg/L	0.01117	0.5092	mg/L	0.01117	2.19%
QC value within limits for Cobalt Recovery = 101.84%								
Copper†	50872.0	0.5113	mg/L	0.00874	0.5113	mg/L	0.00874	1.71%
QC value within limits for Copper Recovery = 102.25%								
Lithium†	3947440.2	0.5018	mg/L	0.00962	0.5018	mg/L	0.00962	1.92%
QC value within limits for Lithium Recovery = 100.36%								
Manganese†	221834.3	0.5010	mg/L	0.00227	0.5010	mg/L	0.00227	0.45%
QC value within limits for Manganese Recovery = 100.20%								
Molybdenum†	3429.5	0.4849	mg/L	0.00489	0.4849	mg/L	0.00489	1.01%
QC value within limits for Molybdenum Recovery = 96.98%								
Nickel†	8293.0	0.5308	mg/L	0.01509	0.5308	mg/L	0.01509	2.84%
QC value within limits for Nickel Recovery = 106.16%								
Lead†	1049.4	0.5096	mg/L	0.00258	0.5096	mg/L	0.00258	0.51%
QC value within limits for Lead Recovery = 101.93%								
Selenium†	240.4	0.5065	mg/L	0.00651	0.5065	mg/L	0.00651	1.29%
QC value within limits for Selenium Recovery = 101.30%								
Silver†	68031.0	0.5046	mg/L	0.00874	0.5046	mg/L	0.00874	1.73%
QC value within limits for Silver Recovery = 100.92%								
Strontium†	3219465.2	0.2549	mg/L	0.00386	0.2549	mg/L	0.00386	1.52%
QC value within limits for Strontium Recovery = 101.96%								
Tin†	489.9	0.5115	mg/L	0.00992	0.5115	mg/L	0.00992	1.94%
QC value within limits for Tin Recovery = 102.30%								
Thallium†	825.6	0.4810	mg/L	0.01011	0.4810	mg/L	0.01011	2.10%
QC value within limits for Thallium Recovery = 96.20%								
Titanium†	112804.3	0.5003	mg/L	0.00261	0.5003	mg/L	0.00261	0.52%
QC value within limits for Titanium Recovery = 100.07%								
Vanadium†	36048.3	0.4994	mg/L	0.00969	0.4994	mg/L	0.00969	1.94%
QC value within limits for Vanadium Recovery = 99.87%								
Zinc†	6869.4	0.5316	mg/L	0.00940	0.5316	mg/L	0.00940	1.77%
QC value within limits for Zinc Recovery = 106.32%								
Argon	5593321.5	104.2	mg/L	0.14	104.2	mg/L	0.14	0.13%
Sodium†	1273713.9	4.736	mg/L	0.0317	4.736	mg/L	0.0317	0.67%
QC value within limits for Sodium Recovery = 94.71%								
Magnesium†	115915.1	0.5021	mg/L	0.00807	0.5021	mg/L	0.00807	1.61%
QC value within limits for Magnesium Recovery = 100.41%								
Iron†	28237.8	0.6563	mg/L	0.01146	0.6563	mg/L	0.01146	1.75%
QC value greater than the upper limit for Iron Recovery = 131.26%								
Calcium†	84026.5	0.5941	mg/L	0.01060	0.5941	mg/L	0.01060	1.78%
QC value greater than the upper limit for Calcium Recovery = 118.82%								

Potassium†	541022.7	4.788 mg/L	0.0372	4.788 mg/L	0.0372	0.78%
QC value within limits for Potassium Recovery = 95.77%						
Aluminum radial†	947.8	0.5343 mg/L	0.01686	0.5343 mg/L	0.01686	3.16%
QC value within limits for Aluminum radial Recovery = 106.85%						
Calcium radial†	3695.4	0.6124 mg/L	0.00883	0.6124 mg/L	0.00883	1.44%
QC value greater than the upper limit for Calcium radial Recovery = 122.47%						
Iron radial†	1138.1	0.6950 mg/L	0.00880	0.6950 mg/L	0.00880	1.27%
QC value greater than the upper limit for Iron radial Recovery = 138.99%						
Magnesium radial†	4978.5	0.5227 mg/L	0.00703	0.5227 mg/L	0.00703	1.35%
QC value within limits for Magnesium radial Recovery = 104.54%						
Sodium radial†	18355.9	5.053 mg/L	0.0616	5.053 mg/L	0.0616	1.22%
QC value within limits for Sodium radial Recovery = 101.06%						
Potassium radial†	3460.6	5.040 mg/L	0.0307	5.040 mg/L	0.0307	0.61%
QC value within limits for Potassium radial Recovery = 100.80%						
Stonrium radial†	131140.0	0.2542 mg/L	0.00336	0.2542 mg/L	0.00336	1.32%
QC value within limits for Stonrium radial Recovery = 101.67%						

QC Failed. Continue with analysis.

Sequence No.: 230 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 3/6/2011 10:41:44 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Yttrium	693409.1	101.7	%	0.94				0.93%
Aluminum†	532.0	0.0070	mg/L	0.00055	0.0070	mg/L	0.00055	7.83%
QC value within limits for Aluminum Recovery = Not calculated								
Antimony†	2.4	-0.0005	mg/L	0.00692	-0.0005	mg/L	0.00692	>999.9%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	3.1	0.0031	mg/L	0.00181	0.0031	mg/L	0.00181	58.81%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	5.8	-0.0006	mg/L	0.00010	-0.0006	mg/L	0.00010	16.08%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	-22.1	-0.0010	mg/L	0.00004	-0.0010	mg/L	0.00004	4.02%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	69.5	0.0028	mg/L	0.00063	0.0028	mg/L	0.00063	22.54%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	-3.2	-0.0015	mg/L	0.00061	-0.0015	mg/L	0.00061	42.12%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	35.2	-0.0006	mg/L	0.00021	-0.0006	mg/L	0.00021	37.74%
QC value within limits for Chromium Recovery = Not calculated								
Cobalt†	1.4	-0.0020	mg/L	0.00042	-0.0020	mg/L	0.00042	21.47%
QC value within limits for Cobalt Recovery = Not calculated								
Copper†	26.2	-0.0011	mg/L	0.00059	-0.0011	mg/L	0.00059	54.03%
QC value within limits for Copper Recovery = Not calculated								
Lithium†	-381.5	-0.0028	mg/L	0.00001	-0.0028	mg/L	0.00001	0.39%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	-2.0	-0.0024	mg/L	0.00007	-0.0024	mg/L	0.00007	3.15%
QC value within limits for Manganese Recovery = Not calculated								
Molybdenum†	-3.5	-0.0006	mg/L	0.00085	-0.0006	mg/L	0.00085	146.97%
QC value within limits for Molybdenum Recovery = Not calculated								
Nickel†	25.7	-0.0003	mg/L	0.00015	-0.0003	mg/L	0.00015	54.46%
QC value within limits for Nickel Recovery = Not calculated								
Lead†	1.3	0.0003	mg/L	0.00185	0.0003	mg/L	0.00185	729.37%
QC value within limits for Lead Recovery = Not calculated								
Selenium†	-0.8	0.0002	mg/L	0.00952	0.0002	mg/L	0.00952	>999.9%
QC value within limits for Selenium Recovery = Not calculated								
Silver†	-319.8	-0.0033	mg/L	0.00082	-0.0033	mg/L	0.00082	25.17%
QC value within limits for Silver Recovery = Not calculated								
Strontium†	507.2	-0.0011	mg/L	0.00000	-0.0011	mg/L	0.00000	0.16%
QC value within limits for Strontium Recovery = Not calculated								
Tin†	1.8	0.0000	mg/L	0.00307	0.0000	mg/L	0.00307	>999.9%

QC value within limits for Tin Recovery = Not calculated						
Thallium†	2.5	-0.0009 mg/L	0.00167	-0.0009 mg/L	0.00167	179.39%
QC value within limits for Thallium Recovery = Not calculated						
Titanium†	7.4	-0.0020 mg/L	0.00010	-0.0020 mg/L	0.00010	5.03%
QC value within limits for Titanium Recovery = Not calculated						
Vanadium†	73.3	0.0014 mg/L	0.00074	0.0014 mg/L	0.00074	52.26%
QC value within limits for Vanadium Recovery = Not calculated						
Zinc†	6.9	-0.0008 mg/L	0.00072	-0.0008 mg/L	0.00072	93.26%
QC value within limits for Zinc Recovery = Not calculated						
Argon	5561171.4	103.6 mg/L	0.39	103.6 mg/L	0.39	0.37%
Sodium†	498.1	0.0726 mg/L	0.00030	0.0726 mg/L	0.00030	0.41%
QC value within limits for Sodium Recovery = Not calculated						
Magnesium†	19.0	0.0003 mg/L	0.00029	0.0003 mg/L	0.00029	104.72%
QC value within limits for Magnesium Recovery = Not calculated						
Iron†	10.6	-0.0023 mg/L	0.00008	-0.0023 mg/L	0.00008	3.69%
QC value within limits for Iron Recovery = Not calculated						
Calcium†	-54.8	-0.0213 mg/L	0.00041	-0.0213 mg/L	0.00041	1.94%
QC value within limits for Calcium Recovery = Not calculated						
Potassium†	394.3	0.0906 mg/L	0.00066	0.0906 mg/L	0.00066	0.73%
QC value within limits for Potassium Recovery = Not calculated						
Aluminum radial†	-28.1	-0.0087 mg/L	0.00945	-0.0087 mg/L	0.00945	108.72%
QC value within limits for Aluminum radial Recovery = Not calculated						
Calcium radial†	8.6	-0.0220 mg/L	0.00368	-0.0220 mg/L	0.00368	16.71%
QC value within limits for Calcium radial Recovery = Not calculated						
Iron radial†	4.5	-0.0020 mg/L	0.00135	-0.0020 mg/L	0.00135	68.51%
QC value within limits for Iron radial Recovery = Not calculated						
Magnesium radial†	9.1	-0.0013 mg/L	0.00130	-0.0013 mg/L	0.00130	100.30%
QC value within limits for Magnesium radial Recovery = Not calculated						
Sodium radial†	99.4	0.0127 mg/L	0.01066	0.0127 mg/L	0.01066	83.65%
QC value within limits for Sodium radial Recovery = Not calculated						
Potassium radial†	12.2	-0.0051 mg/L	0.02409	-0.0051 mg/L	0.02409	473.00%
QC value within limits for Potassium radial Recovery = Not calculated						
Stonrium radial†	184.9	-0.0004 mg/L	0.00050	-0.0004 mg/L	0.00050	126.96%
QC value within limits for Stonrium radial Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 231
Sample ID: 11020727-03BPDS
Analyst:
Initial Sample Wt:
Dilution: 25X

Autosampler Location: 160
Date Collected: 3/6/2011 10:44:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-03BPDS

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: 11020727-03BPDS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	689574.6	101.2	%	1.29				1.27%
Aluminum†	10905.9	0.2459	mg/L	0.00445	6.148	mg/L	0.1112	1.81%
Antimony†	176.0	0.2082	mg/L	0.00331	5.206	mg/L	0.0826	1.59%
Arsenic†	172.3	0.2165	mg/L	0.00631	5.412	mg/L	0.1576	2.91%
Barium†	11986.9	0.2096	mg/L	0.00302	5.240	mg/L	0.0755	1.44%
Beryllium†	413790.0	0.2112	mg/L	0.00056	5.281	mg/L	0.0139	0.26%
Boron†	5132.6	0.2139	mg/L	0.00201	5.347	mg/L	0.0502	0.94%
Cadmium†	3682.2	0.2084	mg/L	0.00454	5.210	mg/L	0.1134	2.18%
Chromium†	15188.2	0.2099	mg/L	0.00194	5.248	mg/L	0.0484	0.92%
Cobalt†	3095.8	0.2117	mg/L	0.00419	5.293	mg/L	0.1047	1.98%
Copper†	20624.7	0.2065	mg/L	0.00210	5.162	mg/L	0.0524	1.02%
Lithium†	1642353.7	0.2072	mg/L	0.00025	5.179	mg/L	0.0062	0.12%
Manganese†	92285.9	0.2070	mg/L	0.00249	5.176	mg/L	0.0623	1.20%
Molybdenum†	1432.0	0.2024	mg/L	0.00353	5.060	mg/L	0.0883	1.74%
Nickel†	3362.0	0.2140	mg/L	0.00361	5.351	mg/L	0.0902	1.69%
Lead†	444.3	0.2155	mg/L	0.00355	5.388	mg/L	0.0887	1.65%
Selenium†	97.2	0.2060	mg/L	0.01035	5.149	mg/L	0.2587	5.02%
Silver†	28236.4	0.2089	mg/L	0.00247	5.222	mg/L	0.0618	1.18%
Strontium†	1401269.6	0.1103	mg/L	0.00328	2.758	mg/L	0.0821	2.98%
Tin†	1.1	-0.0006	mg/L	0.00311	-0.0159	mg/L	0.07784	488.72%

Thallium†	345.9	0.2001 mg/L	0.00160	5.004 mg/L	0.0400	0.80%
Titanium†	46680.5	0.2059 mg/L	0.00232	5.147 mg/L	0.0579	1.12%
Vanadium†	14994.4	0.2080 mg/L	0.00479	5.199 mg/L	0.1198	2.30%
Zinc†	2745.3	0.2117 mg/L	0.00443	5.292 mg/L	0.1108	2.09%
Argon	5599468.4	104.3 mg/L	0.19	2609 mg/L	4.7	0.18%
Sodium†	920620.4	3.442 mg/L	0.0184	86.06 mg/L	0.460	0.53%
Magnesium†	87415.5	0.3787 mg/L	0.00481	9.467 mg/L	0.1202	1.27%
Iron†	9033.8	0.2083 mg/L	0.00267	5.206 mg/L	0.0668	1.28%
Calcium†	84388.9	0.5967 mg/L	0.00666	14.92 mg/L	0.166	1.12%
Potassium†	215237.7	1.957 mg/L	0.0041	48.94 mg/L	0.101	0.21%
Aluminum radial†	405.2	0.2324 mg/L	0.00257	5.809 mg/L	0.0642	1.11%
Calcium radial†	3750.1	0.6218 mg/L	0.00669	15.54 mg/L	0.167	1.08%
Iron radial†	368.1	0.2216 mg/L	0.00579	5.540 mg/L	0.1447	2.61%
Magnesium radial†	3838.2	0.4025 mg/L	0.00553	10.06 mg/L	0.138	1.37%
Sodium radial†	13909.0	3.825 mg/L	0.0784	95.63 mg/L	1.959	2.05%
Potassium radial†	1473.8	2.133 mg/L	0.0585	53.33 mg/L	1.462	2.74%
Stonrium radial†	56150.8	0.1084 mg/L	0.00201	2.710 mg/L	0.0503	1.86%

Sequence No.: 232
Sample ID: 11020727-03BPDSD
Analyst:
Initial Sample Wt:
Dilution: 25X

Autosampler Location: 201
Date Collected: 3/6/2011 10:46:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-03BPDSD

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: 11020727-03BPDSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	693649.0	101.8	%	1.09				1.07%
Aluminum†	9768.2	0.2197	mg/L	0.00352	5.493	mg/L	0.0879	1.60%
Antimony†	171.0	0.2021	mg/L	0.00231	5.052	mg/L	0.0579	1.15%
Arsenic†	171.2	0.2151	mg/L	0.00081	5.378	mg/L	0.0203	0.38%
Barium†	12094.4	0.2115	mg/L	0.00243	5.287	mg/L	0.0608	1.15%
Beryllium†	412560.3	0.2106	mg/L	0.00161	5.265	mg/L	0.0404	0.77%
Boron†	5153.4	0.2148	mg/L	0.00305	5.369	mg/L	0.0761	1.42%
Cadmium†	3645.5	0.2063	mg/L	0.00204	5.157	mg/L	0.0509	0.99%
Chromium†	15352.6	0.2122	mg/L	0.00256	5.305	mg/L	0.0641	1.21%
Cobalt†	3033.8	0.2074	mg/L	0.00257	5.186	mg/L	0.0642	1.24%
Copper†	20797.5	0.2082	mg/L	0.00189	5.206	mg/L	0.0473	0.91%
Lithium†	1656354.5	0.2090	mg/L	0.00195	5.224	mg/L	0.0487	0.93%
Manganese†	92778.9	0.2081	mg/L	0.00271	5.204	mg/L	0.0678	1.30%
Molybdenum†	1411.9	0.1996	mg/L	0.00211	4.989	mg/L	0.0527	1.06%
Nickel†	3306.8	0.2105	mg/L	0.00245	5.263	mg/L	0.0612	1.16%
Lead†	432.0	0.2096	mg/L	0.00384	5.240	mg/L	0.0959	1.83%
Selenium†	95.4	0.2022	mg/L	0.01132	5.054	mg/L	0.2829	5.60%
Silver†	28494.3	0.2108	mg/L	0.00198	5.270	mg/L	0.0496	0.94%
Strontium†	1371294.2	0.1079	mg/L	0.00105	2.698	mg/L	0.0263	0.98%
Tin†	-1.1	-0.0029	mg/L	0.00295	-0.0717	mg/L	0.07376	102.86%
Thallium†	344.6	0.1993	mg/L	0.00292	4.984	mg/L	0.0729	1.46%
Titanium†	46964.6	0.2071	mg/L	0.00298	5.179	mg/L	0.0744	1.44%
Vanadium†	15052.2	0.2088	mg/L	0.00278	5.219	mg/L	0.0695	1.33%
Zinc†	2750.0	0.2120	mg/L	0.00258	5.301	mg/L	0.0644	1.22%
Argon	5593823.0	104.2	mg/L	0.23	2606	mg/L	5.7	0.22%
Sodium†	947290.0	3.540	mg/L	0.0279	88.50	mg/L	0.699	0.79%
Magnesium†	90976.1	0.3941	mg/L	0.00470	9.852	mg/L	0.1175	1.19%
Iron†	9070.1	0.2091	mg/L	0.00324	5.227	mg/L	0.0809	1.55%
Calcium†	89238.0	0.6322	mg/L	0.00870	15.81	mg/L	0.217	1.38%
Potassium†	214064.8	1.947	mg/L	0.0160	48.68	mg/L	0.400	0.82%
Aluminum radial†	362.9	0.2088	mg/L	0.01832	5.221	mg/L	0.4580	8.77%
Calcium radial†	3936.1	0.6538	mg/L	0.02011	16.34	mg/L	0.503	3.08%
Iron radial†	370.0	0.2227	mg/L	0.00582	5.568	mg/L	0.1456	2.61%
Magnesium radial†	3917.8	0.4109	mg/L	0.00859	10.27	mg/L	0.215	2.09%
Sodium radial†	14353.1	3.948	mg/L	0.0878	98.70	mg/L	2.194	2.22%
Potassium radial†	1511.3	2.188	mg/L	0.0598	54.71	mg/L	1.495	2.73%
Stonrium radial†	56183.9	0.1085	mg/L	0.00252	2.712	mg/L	0.0630	2.32%

Sequence No.: 233
Sample ID: 11020727-22B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 202
Date Collected: 3/6/2011 10:48:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-22B

Analyte	Back Pressure	Flow
All	168.0 kPa	0.65 L/min

Mean Data: 11020727-22B

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Yttrium	747834.7	109.7	%	0.80				0.73%
Aluminumt	19408.3	0.4417	mg/L	0.00163	0.4417	mg/L	0.00163	0.37%
Antimonyt	-10.0	-0.0148	mg/L	0.01028	-0.0148	mg/L	0.01028	69.70%
Arsenict	6.4	0.0033	mg/L	0.00763	0.0033	mg/L	0.00763	231.16%
Bariumt	2404.1	0.0414	mg/L	0.00079	0.0414	mg/L	0.00079	1.91%
Berylliumt	8549.7	0.0034	mg/L	0.00004	0.0034	mg/L	0.00004	1.18%
Boront	1473.8	0.0619	mg/L	0.00059	0.0619	mg/L	0.00059	0.96%
Cadmiumt	-10.1	-0.0018	mg/L	0.00028	-0.0018	mg/L	0.00028	15.80%
Chromiumt	56.5	-0.0003	mg/L	0.00017	-0.0003	mg/L	0.00017	62.25%
Cobaltt	470.5	0.0305	mg/L	0.00065	0.0305	mg/L	0.00065	2.12%
Coppert	-328.4	-0.0026	mg/L	0.00036	-0.0026	mg/L	0.00036	13.52%
Lithiumt	462652.4	0.0564	mg/L	0.00029	0.0564	mg/L	0.00029	0.52%
Manganeset	492559.5	1.115	mg/L	0.0029	1.115	mg/L	0.0029	0.26%
Molybdenumt	-19.1	-0.0023	mg/L	0.00025	-0.0023	mg/L	0.00025	10.93%
Nickelt	625.8	0.0383	mg/L	0.00101	0.0383	mg/L	0.00101	2.63%
Leadt	-3.8	-0.0022	mg/L	0.00087	-0.0022	mg/L	0.00087	39.41%
Seleniumt	-7.8	-0.0102	mg/L	0.00180	-0.0102	mg/L	0.00180	17.66%
Silvert	513.0	-0.0003	mg/L	0.00011	-0.0003	mg/L	0.00011	38.63%
Strontiumt	11242630.0	0.8898	mg/L	0.00381	0.8898	mg/L	0.00381	0.43%
Tint	-36.0	-0.0269	mg/L	0.00599	-0.0269	mg/L	0.00599	22.31%
Thalliumt	-19.9	-0.0140	mg/L	0.00195	-0.0140	mg/L	0.00195	13.91%
Titaniumt	-679.6	-0.0050	mg/L	0.00010	-0.0050	mg/L	0.00010	1.99%
Vanadiumt	3876.6	0.0470	mg/L	0.00153	0.0470	mg/L	0.00153	3.26%
Zinct	634.3	0.0479	mg/L	0.00054	0.0479	mg/L	0.00054	1.12%
Argon	5540855.6	103.3	mg/L	0.25	103.3	mg/L	0.25	0.24%
Sodiumt	Saturated3							
Magnesiumt	17470482.2	75.64	mg/L	0.151	75.64	mg/L	0.151	0.20%
Iront	481239.9	11.23	mg/L	0.031	11.23	mg/L	0.031	0.27%
Calciumt	15388671.4	112.6	mg/L	0.51	112.6	mg/L	0.51	0.46%
Potassiumt	514221.0	4.556	mg/L	0.0242	4.556	mg/L	0.0242	0.53%
Aluminum radialt	922.4	0.5201	mg/L	0.03118	0.5201	mg/L	0.03118	5.99%
Calcium radialt	692450.4	119.1	mg/L	1.39	119.1	mg/L	1.39	1.17%
Iron radialt	19539.2	12.01	mg/L	0.286	12.01	mg/L	0.286	2.38%
Magnesium radialt	732433.6	77.23	mg/L	0.862	77.23	mg/L	0.862	1.12%
Sodium radialt	701314.3	193.6	mg/L	1.95	193.6	mg/L	1.95	1.01%
Potassium radialt	2031.9	2.950	mg/L	0.0824	2.950	mg/L	0.0824	2.79%
Stonrium radialt	497929.8	0.9672	mg/L	0.00964	0.9672	mg/L	0.00964	1.00%

Sequence No.: 234
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 3/6/2011 10:49:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	169.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Yttrium	699450.7	102.6	%	1.43				1.39%
Aluminumt	23857.7	0.5442	mg/L	0.00940	0.5442	mg/L	0.00940	1.73%

QC value within limits for Aluminum Recovery = 108.84%
Antimony† 399.2 0.4761 mg/L 0.01487 0.4761 mg/L 0.01487 3.12%
QC value within limits for Antimony Recovery = 95.23%
Arsenic† 400.4 0.5044 mg/L 0.00383 0.5044 mg/L 0.00383 0.76%
QC value within limits for Arsenic Recovery = 100.87%
Barium† 28412.7 0.4978 mg/L 0.00975 0.4978 mg/L 0.00975 1.96%
QC value within limits for Barium Recovery = 99.57%
Beryllium† 991746.5 0.5077 mg/L 0.00231 0.5077 mg/L 0.00231 0.46%
QC value within limits for Beryllium Recovery = 101.54%
Boron† 12153.9 0.5067 mg/L 0.00894 0.5067 mg/L 0.00894 1.76%
QC value within limits for Boron Recovery = 101.33%
Cadmium† 8734.1 0.4962 mg/L 0.00960 0.4962 mg/L 0.00960 1.94%
QC value within limits for Cadmium Recovery = 99.23%
Chromium† 36453.5 0.5053 mg/L 0.00972 0.5053 mg/L 0.00972 1.92%
QC value within limits for Chromium Recovery = 101.06%
Cobalt† 7282.2 0.5008 mg/L 0.00909 0.5008 mg/L 0.00909 1.82%
QC value within limits for Cobalt Recovery = 100.17%
Copper† 50345.6 0.5060 mg/L 0.00965 0.5060 mg/L 0.00965 1.91%
QC value within limits for Copper Recovery = 101.19%
Lithium† 3899361.2 0.4957 mg/L 0.00902 0.4957 mg/L 0.00902 1.82%
QC value within limits for Lithium Recovery = 99.13%
Manganese† 221525.6 0.5003 mg/L 0.00248 0.5003 mg/L 0.00248 0.50%
QC value within limits for Manganese Recovery = 100.06%
Molybdenum† 3404.7 0.4814 mg/L 0.00617 0.4814 mg/L 0.00617 1.28%
QC value within limits for Molybdenum Recovery = 96.28%
Nickel† 8186.3 0.5240 mg/L 0.01181 0.5240 mg/L 0.01181 2.25%
QC value within limits for Nickel Recovery = 104.79%
Lead† 1045.3 0.5076 mg/L 0.00425 0.5076 mg/L 0.00425 0.84%
QC value within limits for Lead Recovery = 101.52%
Selenium† 240.5 0.5066 mg/L 0.01020 0.5066 mg/L 0.01020 2.01%
QC value within limits for Selenium Recovery = 101.31%
Silver† 67485.1 0.5005 mg/L 0.00832 0.5005 mg/L 0.00832 1.66%
QC value within limits for Silver Recovery = 100.11%
Strontium† 3176382.5 0.2515 mg/L 0.00479 0.2515 mg/L 0.00479 1.91%
QC value within limits for Strontium Recovery = 100.59%
Tin† 486.2 0.5077 mg/L 0.00892 0.5077 mg/L 0.00892 1.76%
QC value within limits for Tin Recovery = 101.53%
Thallium† 816.7 0.4758 mg/L 0.01347 0.4758 mg/L 0.01347 2.83%
QC value within limits for Thallium Recovery = 95.15%
Titanium† 112344.6 0.4983 mg/L 0.00330 0.4983 mg/L 0.00330 0.66%
QC value within limits for Titanium Recovery = 99.66%
Vanadium† 35769.1 0.4955 mg/L 0.00918 0.4955 mg/L 0.00918 1.85%
QC value within limits for Vanadium Recovery = 99.10%
Zinc† 6765.2 0.5235 mg/L 0.00631 0.5235 mg/L 0.00631 1.21%
QC value within limits for Zinc Recovery = 104.70%
Argon 5582378.1 104.0 mg/L 0.05 104.0 mg/L 0.05 0.04%
Sodium† 1274586.5 4.739 mg/L 0.0882 4.739 mg/L 0.0882 1.86%
QC value within limits for Sodium Recovery = 94.77%
Magnesium† 115297.3 0.4994 mg/L 0.00838 0.4994 mg/L 0.00838 1.68%
QC value within limits for Magnesium Recovery = 99.88%
Iron† 28008.0 0.6510 mg/L 0.01266 0.6510 mg/L 0.01266 1.95%
QC value greater than the upper limit for Iron Recovery = 130.19%
Calcium† 83571.2 0.5908 mg/L 0.01027 0.5908 mg/L 0.01027 1.74%
QC value greater than the upper limit for Calcium Recovery = 118.15%
Potassium† 538313.3 4.765 mg/L 0.0386 4.765 mg/L 0.0386 0.81%
QC value within limits for Potassium Recovery = 95.30%
Aluminum radial† 930.2 0.5244 mg/L 0.01669 0.5244 mg/L 0.01669 3.18%
QC value within limits for Aluminum radial Recovery = 104.89%
Calcium radial† 3756.2 0.6228 mg/L 0.00156 0.6228 mg/L 0.00156 0.25%
QC value greater than the upper limit for Calcium radial Recovery = 124.57%
Iron radial† 1135.4 0.6933 mg/L 0.01722 0.6933 mg/L 0.01722 2.48%
QC value greater than the upper limit for Iron radial Recovery = 138.66%
Magnesium radial† 5041.4 0.5293 mg/L 0.00542 0.5293 mg/L 0.00542 1.02%
QC value within limits for Magnesium radial Recovery = 105.87%
Sodium radial† 18275.8 5.031 mg/L 0.1039 5.031 mg/L 0.1039 2.07%
QC value within limits for Sodium radial Recovery = 100.62%
Potassium radial† 3428.0 4.992 mg/L 0.1288 4.992 mg/L 0.1288 2.58%
QC value within limits for Potassium radial Recovery = 99.85%
Stonrium radial† 130060.9 0.2521 mg/L 0.00538 0.2521 mg/L 0.00538 2.13%
QC value within limits for Stonrium radial Recovery = 100.83%
QC Failed. Continue with analysis.

Sequence No.: 235
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 3/6/2011 10:51:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	683776.5	100.3	%	0.82				0.82%
Aluminum†	530.7	0.0070	mg/L	0.00168	0.0070	mg/L	0.00168	24.17%
QC value within limits for Aluminum Recovery = Not calculated								
Antimony†	2.9	0.0001	mg/L	0.00830	0.0001	mg/L	0.00830	>999.9%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	4.2	0.0044	mg/L	0.00194	0.0044	mg/L	0.00194	43.84%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	-3.8	-0.0008	mg/L	0.00017	-0.0008	mg/L	0.00017	20.80%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	93.4	-0.0010	mg/L	0.00002	-0.0010	mg/L	0.00002	2.38%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	89.0	0.0036	mg/L	0.00038	0.0036	mg/L	0.00038	10.46%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	-1.3	-0.0014	mg/L	0.00054	-0.0014	mg/L	0.00054	39.65%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	25.1	-0.0007	mg/L	0.00034	-0.0007	mg/L	0.00034	47.86%
QC value within limits for Chromium Recovery = Not calculated								
Cobalt†	6.7	-0.0016	mg/L	0.00059	-0.0016	mg/L	0.00059	36.85%
QC value within limits for Cobalt Recovery = Not calculated								
Copper†	74.3	-0.0006	mg/L	0.00167	-0.0006	mg/L	0.00167	278.01%
QC value within limits for Copper Recovery = Not calculated								
Lithium†	-68.3	-0.0028	mg/L	0.00002	-0.0028	mg/L	0.00002	0.65%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	20.7	-0.0023	mg/L	0.00005	-0.0023	mg/L	0.00005	2.30%
QC value within limits for Manganese Recovery = Not calculated								
Molybdenum†	-4.8	-0.0008	mg/L	0.00043	-0.0008	mg/L	0.00043	56.74%
QC value within limits for Molybdenum Recovery = Not calculated								
Nickel†	-1.8	-0.0020	mg/L	0.00081	-0.0020	mg/L	0.00081	39.84%
QC value within limits for Nickel Recovery = Not calculated								
Lead†	3.1	0.0012	mg/L	0.00369	0.0012	mg/L	0.00369	319.82%
QC value within limits for Lead Recovery = Not calculated								
Selenium†	-0.1	0.0018	mg/L	0.00964	0.0018	mg/L	0.00964	549.38%
QC value within limits for Selenium Recovery = Not calculated								
Silver†	-175.5	-0.0022	mg/L	0.00080	-0.0022	mg/L	0.00080	36.50%
QC value within limits for Silver Recovery = Not calculated								
Strontium†	648.0	-0.0010	mg/L	0.00002	-0.0010	mg/L	0.00002	1.70%
QC value within limits for Strontium Recovery = Not calculated								
Tin†	1.2	-0.0005	mg/L	0.00140	-0.0005	mg/L	0.00140	254.52%
QC value within limits for Tin Recovery = Not calculated								
Thallium†	3.1	-0.0006	mg/L	0.00119	-0.0006	mg/L	0.00119	196.60%
QC value within limits for Thallium Recovery = Not calculated								
Titanium†	5.0	-0.0020	mg/L	0.00016	-0.0020	mg/L	0.00016	7.90%
QC value within limits for Titanium Recovery = Not calculated								
Vanadium†	124.2	0.0021	mg/L	0.00047	0.0021	mg/L	0.00047	22.37%
QC value within limits for Vanadium Recovery = Not calculated								
Zinc†	8.9	-0.0006	mg/L	0.00051	-0.0006	mg/L	0.00051	83.37%
QC value within limits for Zinc Recovery = Not calculated								
Argon	5569963.4	103.8	mg/L	0.59	103.8	mg/L	0.59	0.57%
Sodium†	670.0	0.0733	mg/L	0.00035	0.0733	mg/L	0.00035	0.48%
QC value within limits for Sodium Recovery = Not calculated								
Magnesium†	106.4	0.0007	mg/L	0.00020	0.0007	mg/L	0.00020	30.38%
QC value within limits for Magnesium Recovery = Not calculated								
Iron†	26.9	-0.0019	mg/L	0.00030	-0.0019	mg/L	0.00030	15.90%
QC value within limits for Iron Recovery = Not calculated								
Calcium†	57.0	-0.0205	mg/L	0.00016	-0.0205	mg/L	0.00016	0.78%
QC value within limits for Calcium Recovery = Not calculated								

Potassium†	278.1	0.0896 mg/L	0.00047	0.0896 mg/L	0.00047	0.52%
QC value within limits for Potassium Recovery = Not calculated						
Aluminum radial†	-28.0	-0.0086 mg/L	0.00335	-0.0086 mg/L	0.00335	38.88%
QC value within limits for Aluminum radial Recovery = Not calculated						
Calcium radial†	7.0	-0.0223 mg/L	0.00261	-0.0223 mg/L	0.00261	11.70%
QC value within limits for Calcium radial Recovery = Not calculated						
Iron radial†	4.8	-0.0017 mg/L	0.00244	-0.0017 mg/L	0.00244	139.56%
QC value within limits for Iron radial Recovery = Not calculated						
Magnesium radial†	14.7	-0.0007 mg/L	0.00116	-0.0007 mg/L	0.00116	164.04%
QC value within limits for Magnesium radial Recovery = Not calculated						
Sodium radial†	141.2	0.0243 mg/L	0.01934	0.0243 mg/L	0.01934	79.70%
QC value within limits for Sodium radial Recovery = Not calculated						
Potassium radial†	3.7	-0.0176 mg/L	0.01541	-0.0176 mg/L	0.01541	87.62%
QC value within limits for Potassium radial Recovery = Not calculated						
Stonrium radial†	280.1	-0.0002 mg/L	0.00080	-0.0002 mg/L	0.00080	384.33%
QC value within limits for Stonrium radial Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 236 **Autosampler Location: 9**
Sample ID: ICSA **Date Collected: 3/6/2011 10:53:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	169.0 kPa	0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	633581.3	92.95	%	0.974				1.05%
Aluminum†	21986599.1	506.4	mg/L	10.82	506.4	mg/L	10.82	2.14%
Antimony†	-22.2	0.0068	mg/L	0.00895	0.0068	mg/L	0.00895	130.93%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	35.9	0.0277	mg/L	0.00695	0.0277	mg/L	0.00695	25.12%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	551.9	0.0089	mg/L	0.00052	0.0089	mg/L	0.00052	5.84%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	1185.9	-0.0004	mg/L	0.00002	-0.0004	mg/L	0.00002	4.23%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	-324.1	0.0105	mg/L	0.00202	0.0105	mg/L	0.00202	19.25%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	25.5	-0.0006	mg/L	0.00105	-0.0006	mg/L	0.00105	168.94%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	61.4	-0.0002	mg/L	0.00060	-0.0002	mg/L	0.00060	298.57%
QC value within limits for Chromium Recovery = Not calculated								
Cobalt†	85.7	0.0039	mg/L	0.00046	0.0039	mg/L	0.00046	11.73%
QC value within limits for Cobalt Recovery = Not calculated								
Copper†	-1447.4	-0.0068	mg/L	0.00024	-0.0068	mg/L	0.00024	3.57%
QC value within limits for Copper Recovery = Not calculated								
Lithium†	3305.3	-0.0023	mg/L	0.00002	-0.0023	mg/L	0.00002	1.06%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	4913.8	0.0088	mg/L	0.00017	0.0088	mg/L	0.00017	1.95%
QC value within limits for Manganese Recovery = Not calculated								
Molybdenum†	-139.7	0.0003	mg/L	0.00308	0.0003	mg/L	0.00308	883.22%
QC value within limits for Molybdenum Recovery = Not calculated								
Nickel†	26.8	-0.0002	mg/L	0.00062	-0.0002	mg/L	0.00062	300.67%
QC value within limits for Nickel Recovery = Not calculated								
Lead†	-37.9	0.0012	mg/L	0.00185	0.0012	mg/L	0.00185	160.53%
QC value within limits for Lead Recovery = Not calculated								
Selenium†	-83.8	0.0211	mg/L	0.00959	0.0211	mg/L	0.00959	45.51%
QC value within limits for Selenium Recovery = Not calculated								
Silver†	2723.7	0.0041	mg/L	0.00063	0.0041	mg/L	0.00063	15.41%
QC value within limits for Silver Recovery = Not calculated								
Strontium†	22237.4	-0.0132	mg/L	0.00027	-0.0132	mg/L	0.00027	2.02%
QC value within limits for Strontium Recovery = Not calculated								
Tin†	-56.3	-0.0036	mg/L	0.00394	-0.0036	mg/L	0.00394	110.21%
QC value within limits for Tin Recovery = Not calculated								

Thallium†	-16.2	-0.0119 mg/L	0.00408	-0.0119 mg/L	0.00408	34.35%
QC value within limits for Thallium Recovery = Not calculated						
Titanium†	-2421.3	-0.0128 mg/L	0.00015	-0.0128 mg/L	0.00015	1.14%
QC value within limits for Titanium Recovery = Not calculated						
Vanadium†	9648.7	-0.0037 mg/L	0.00165	-0.0037 mg/L	0.00165	44.28%
QC value within limits for Vanadium Recovery = Not calculated						
Zinc†	203.2	0.0145 mg/L	0.00082	0.0145 mg/L	0.00082	5.69%
QC value within limits for Zinc Recovery = Not calculated						
Argon	5163977.1	96.23 mg/L	0.218	96.23 mg/L	0.218	0.23%
Sodium†	13010.6	0.1185 mg/L	0.00096	0.1185 mg/L	0.00096	0.81%
QC value within limits for Sodium Recovery = Not calculated						
Magnesium†	75918864.8	328.7 mg/L	5.78	328.7 mg/L	5.78	1.76%
Iron†	16399626.2	382.6 mg/L	7.88	382.6 mg/L	7.88	2.06%
Calcium†	67039206.1	490.6 mg/L	10.89	490.6 mg/L	10.89	2.22%
Potassium†	2036.8	0.1049 mg/L	0.00122	0.1049 mg/L	0.00122	1.16%
Aluminum radial†	951107.3	529.2 mg/L	10.96	529.2 mg/L	10.96	2.07%
QC value within limits for Aluminum radial Recovery = 105.83%						
Calcium radial†	3121212.9	537.1 mg/L	10.89	537.1 mg/L	10.89	2.03%
QC value within limits for Calcium radial Recovery = 107.41%						
Iron radial†	831868.3	511.4 mg/L	10.38	511.4 mg/L	10.38	2.03%
QC value within limits for Iron radial Recovery = 102.28%						
Magnesium radial†	4283570.7	451.7 mg/L	8.41	451.7 mg/L	8.41	1.86%
QC value within limits for Magnesium radial Recovery = 90.34%						
Sodium radial†	227.3	0.0480 mg/L	0.00545	0.0480 mg/L	0.00545	11.34%
QC value within limits for Sodium radial Recovery = Not calculated						
Potassium radial†	108.7	0.1361 mg/L	0.03151	0.1361 mg/L	0.03151	23.15%
QC value within limits for Potassium radial Recovery = Not calculated						
Stonrium radial†	1081.3	0.0013 mg/L	0.00016	0.0013 mg/L	0.00016	11.71%
QC value within limits for Stonrium radial Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 237 **Autosampler Location: 10**
Sample ID: ICSAB **Date Collected: 3/6/2011 10:55:38 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	631147.9	92.59	%	1.212				1.31%
Aluminum†	21631780.6	498.2	mg/L	3.04	498.2	mg/L	3.04	0.61%
Antimony†	7977.7	9.746	mg/L	0.0843	9.746	mg/L	0.0843	0.86%
QC value within limits for Antimony Recovery = 97.46%								
Arsenic†	8055.2	10.11	mg/L	0.109	10.11	mg/L	0.109	1.08%
QC value within limits for Arsenic Recovery = 101.09%								
Barium†	166130.0	2.915	mg/L	0.0185	2.915	mg/L	0.0185	0.63%
QC value within limits for Barium Recovery = 97.15%								
Beryllium†	2027279.1	1.039	mg/L	0.0042	1.039	mg/L	0.0042	0.41%
QC value within limits for Beryllium Recovery = 103.89%								
Boron†	124123.4	5.199	mg/L	0.0345	5.199	mg/L	0.0345	0.66%
QC value within limits for Boron Recovery = 103.99%								
Cadmium†	57073.0	3.105	mg/L	0.0181	3.105	mg/L	0.0181	0.58%
QC value within limits for Cadmium Recovery = 103.50%								
Chromium†	207682.0	2.884	mg/L	0.0122	2.884	mg/L	0.0122	0.42%
QC value within limits for Chromium Recovery = 96.12%								
Cobalt†	39904.1	2.739	mg/L	0.0253	2.739	mg/L	0.0253	0.93%
QC value within limits for Cobalt Recovery = 91.32%								
Copper†	306334.6	3.095	mg/L	0.0166	3.095	mg/L	0.0166	0.54%
QC value within limits for Copper Recovery = 103.15%								
Lithium†	3015.8	-0.0024	mg/L	0.00000	-0.0024	mg/L	0.00000	0.14%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	849078.7	1.924	mg/L	0.0072	1.924	mg/L	0.0072	0.38%
QC value within limits for Manganese Recovery = 96.21%								
Molybdenum†	19783.1	2.818	mg/L	0.0287	2.818	mg/L	0.0287	1.02%

QC value within limits for Molybdenum Recovery = 93.92%

Nickel†	42511.6	2.729 mg/L	0.0311	2.729 mg/L	0.0311	1.14%

QC value within limits for Nickel Recovery = 90.97%

Lead†	19270.8	9.385 mg/L	0.1120	9.385 mg/L	0.1120	1.19%

QC value within limits for Lead Recovery = 93.85%

Selenium†	2288.1	4.997 mg/L	0.0566	4.997 mg/L	0.0566	1.13%

QC value within limits for Selenium Recovery = 99.94%

Silver†	451560.9	3.337 mg/L	0.0165	3.337 mg/L	0.0165	0.49%

QC value within limits for Silver Recovery = 111.24%

Strontium†	6009246.9	0.4629 mg/L	0.00185	0.4629 mg/L	0.00185	0.40%

QC value within limits for Strontium Recovery = 92.59%

Tin†	398.1	0.4724 mg/L	0.00379	0.4724 mg/L	0.00379	0.80%

QC value within limits for Tin Recovery = 94.48%

Thallium†	15094.2	8.835 mg/L	0.1204	8.835 mg/L	0.1204	1.36%

QC value within limits for Thallium Recovery = 88.35%

Titanium†	2207926.4	9.830 mg/L	0.0854	9.830 mg/L	0.0854	0.87%

QC value within limits for Titanium Recovery = 98.30%

Vanadium†	225089.0	2.979 mg/L	0.0140	2.979 mg/L	0.0140	0.47%

QC value within limits for Vanadium Recovery = 99.31%

Zinc†	34975.8	2.712 mg/L	0.0113	2.712 mg/L	0.0113	0.42%

QC value within limits for Zinc Recovery = 90.40%

Argon	5129603.5	95.59 mg/L	0.401	95.59 mg/L	0.401	0.42%
Sodium†	21847606.2	80.08 mg/L	0.212	80.08 mg/L	0.212	0.26%
Magnesium†	75331487.5	326.1 mg/L	3.78	326.1 mg/L	3.78	1.16%
Iron†	16233885.1	378.8 mg/L	4.15	378.8 mg/L	4.15	1.09%
Calcium†	65866974.8	482.0 mg/L	4.99	482.0 mg/L	4.99	1.04%
Potassium†	33690121.6	292.8 mg/L	1.05	292.8 mg/L	1.05	0.36%
Aluminum radial†	951257.7	529.2 mg/L	6.78	529.2 mg/L	6.78	1.28%

QC value within limits for Aluminum radial Recovery = 105.85%

Calcium radial†	3116790.8	536.3 mg/L	8.75	536.3 mg/L	8.75	1.63%

QC value within limits for Calcium radial Recovery = 107.26%

Iron radial†	833603.3	512.5 mg/L	7.98	512.5 mg/L	7.98	1.56%

QC value within limits for Iron radial Recovery = 102.50%

Magnesium radial†	4244721.6	447.6 mg/L	5.91	447.6 mg/L	5.91	1.32%

QC value within limits for Magnesium radial Recovery = 89.52%

Sodium radial†	184833.7	51.01 mg/L	0.474	51.01 mg/L	0.474	0.93%

QC value within limits for Sodium radial Recovery = 102.03%

Potassium radial†	147755.5	216.2 mg/L	2.17	216.2 mg/L	2.17	1.01%

QC value within limits for Potassium radial Recovery = 108.08%

Stonrium radial†	267562.1	0.5194 mg/L	0.00505	0.5194 mg/L	0.00505	0.97%

QC value within limits for Stonrium radial Recovery = 103.88%

All analyte(s) passed QC.

==========

Sequence No.: 238
Sample ID: RINSE BLANK
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 203
Date Collected: 3/6/2011 10:57:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: RINSE BLANK

Analyte	Back Pressure	Flow
All	169.0 kPa	0.65 L/min

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	689889.8	101.2	%	0.58				0.57%
Aluminum†	106668.6	2.451	mg/L	2.7537	2.451	mg/L	2.7537	112.33%
Antimony†	25.0	0.0275	mg/L	0.02101	0.0275	mg/L	0.02101	76.32%
Arsenic†	14.7	0.0177	mg/L	0.01947	0.0177	mg/L	0.01947	110.05%
Barium†	382.2	0.0060	mg/L	0.00687	0.0060	mg/L	0.00687	115.26%
Beryllium†	7914.2	0.0030	mg/L	0.00451	0.0030	mg/L	0.00451	148.08%
Boron†	686.6	0.0289	mg/L	0.02169	0.0289	mg/L	0.02169	75.15%
Cadmium†	114.3	0.0051	mg/L	0.00673	0.0051	mg/L	0.00673	132.69%
Chromium†	937.0	0.0120	mg/L	0.01358	0.0120	mg/L	0.01358	113.53%
Cobalt†	100.0	0.0048	mg/L	0.00717	0.0048	mg/L	0.00717	150.20%
Copper†	1150.2	0.0104	mg/L	0.01192	0.0104	mg/L	0.01192	114.97%
Lithium†	-559.7	-0.0028	mg/L	0.00001	-0.0028	mg/L	0.00001	0.30%
Manganese†	3434.3	0.0054	mg/L	0.00869	0.0054	mg/L	0.00869	160.46%

Molybdenumt	39.2	0.0058 mg/L	0.00588	0.0058 mg/L	0.00588	102.11%
Nickelt	115.7	0.0055 mg/L	0.00691	0.0055 mg/L	0.00691	125.57%
Leadt	41.5	0.0200 mg/L	0.02318	0.0200 mg/L	0.02318	115.67%
Seleniumt	4.5	0.0141 mg/L	0.00984	0.0141 mg/L	0.00984	69.66%
Silvert	6887.6	0.0498 mg/L	0.03522	0.0498 mg/L	0.03522	70.77%
Strontiumt	29280.9	0.0010 mg/L	0.00260	0.0010 mg/L	0.00260	249.53%
Tint	0.2	-0.0009 mg/L	0.00242	-0.0009 mg/L	0.00242	275.37%
Thalliumt	28.7	0.0144 mg/L	0.02003	0.0144 mg/L	0.02003	139.08%
Titaniumt	8607.7	0.0363 mg/L	0.04267	0.0363 mg/L	0.04267	117.41%
Vanadiumt	1089.4	0.0136 mg/L	0.01487	0.0136 mg/L	0.01487	109.29%
Zinct	155.8	0.0108 mg/L	0.00689	0.0108 mg/L	0.00689	63.91%
Argon	5521345.3	102.9 mg/L	0.13	102.9 mg/L	0.13	0.13%
Sodiumt	46774.8	0.2421 mg/L	0.20110	0.2421 mg/L	0.20110	83.06%
Magnesiumt	530642.2	2.298 mg/L	2.6113	2.298 mg/L	2.6113	113.65%
Iront	103786.9	2.419 mg/L	2.7233	2.419 mg/L	2.7233	112.58%
Calciumt	324918.1	2.357 mg/L	2.6911	2.357 mg/L	2.6911	114.17%
Potassiumt	71918.8	0.7121 mg/L	0.73691	0.7121 mg/L	0.73691	103.48%
Aluminum radialt	12744.6	7.097 mg/L	0.3256	7.097 mg/L	0.3256	4.59%
Calcium radialt	42952.2	7.367 mg/L	0.4277	7.367 mg/L	0.4277	5.81%
Iron radialt	12215.1	7.505 mg/L	0.3841	7.505 mg/L	0.3841	5.12%
Magnesium radialt	68404.0	7.211 mg/L	0.3722	7.211 mg/L	0.3722	5.16%
Sodium radialt	2360.9	0.6371 mg/L	0.03694	0.6371 mg/L	0.03694	5.80%
Potassium radialt	1739.8	2.522 mg/L	0.2155	2.522 mg/L	0.2155	8.54%
Stonrium radialt	3634.6	0.0063 mg/L	0.00039	0.0063 mg/L	0.00039	6.19%

Sequence No.: 239 **Autosampler Location: 204**
Sample ID: RINSE BLANK **Date Collected: 3/6/2011 10:59:12 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: RINSE BLANK

Analyte	Back Pressure	Flow
All	169.0 kPa	0.65 L/min

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Yttrium	690065.4	101.2	%	1.70				1.68%
Aluminumt	666.8	0.0101	mg/L	0.00151	0.0101	mg/L	0.00151	14.94%
Antimonyt	5.7	0.0036	mg/L	0.00463	0.0036	mg/L	0.00463	129.31%
Arsenict	0.4	-0.0004	mg/L	0.00267	-0.0004	mg/L	0.00267	716.63%
Bariumt	4.9	-0.0007	mg/L	0.00008	-0.0007	mg/L	0.00008	12.41%
Berylliumt	-86.4	-0.0011	mg/L	0.00002	-0.0011	mg/L	0.00002	2.26%
Boront	152.3	0.0062	mg/L	0.00014	0.0062	mg/L	0.00014	2.23%
Cadmiumt	-7.0	-0.0016	mg/L	0.00027	-0.0016	mg/L	0.00027	16.56%
Chromiumt	16.9	-0.0008	mg/L	0.00041	-0.0008	mg/L	0.00041	50.32%
Cobaltt	3.3	-0.0018	mg/L	0.00042	-0.0018	mg/L	0.00042	22.88%
Coppert	16.7	-0.0012	mg/L	0.00120	-0.0012	mg/L	0.00120	101.95%
Lithiumt	-387.7	-0.0028	mg/L	0.00001	-0.0028	mg/L	0.00001	0.26%
Manganeset	-4.2	-0.0024	mg/L	0.00001	-0.0024	mg/L	0.00001	0.46%
Molybdenumt	-3.2	-0.0005	mg/L	0.00024	-0.0005	mg/L	0.00024	44.28%
Nickelt	4.6	-0.0016	mg/L	0.00058	-0.0016	mg/L	0.00058	35.74%
Leadt	-0.1	-0.0004	mg/L	0.00133	-0.0004	mg/L	0.00133	317.97%
Seleniumt	-0.7	0.0005	mg/L	0.01129	0.0005	mg/L	0.01129	>999.9%
Silvert	33.5	-0.0007	mg/L	0.00055	-0.0007	mg/L	0.00055	81.32%
Strontiumt	485.0	-0.0011	mg/L	0.00000	-0.0011	mg/L	0.00000	0.08%
Tint	2.2	0.0005	mg/L	0.00475	0.0005	mg/L	0.00475	968.20%
Thalliumt	1.0	-0.0018	mg/L	0.00509	-0.0018	mg/L	0.00509	281.97%
Titaniumt	20.4	-0.0019	mg/L	0.00014	-0.0019	mg/L	0.00014	7.12%
Vanadiumt	32.8	0.0009	mg/L	0.00104	0.0009	mg/L	0.00104	121.87%
Zinct	51.5	0.0027	mg/L	0.00082	0.0027	mg/L	0.00082	30.48%
Argon	5493781.4	102.4	mg/L	0.38	102.4	mg/L	0.38	0.37%
Sodiumt	631.3	0.0731	mg/L	0.00047	0.0731	mg/L	0.00047	0.64%
Magnesiumt	1358.7	0.0061	mg/L	0.00106	0.0061	mg/L	0.00106	17.45%
Iront	258.0	0.0035	mg/L	0.00043	0.0035	mg/L	0.00043	12.18%
Calciumt	1810.4	-0.0076	mg/L	0.00060	-0.0076	mg/L	0.00060	7.81%
Potassiumt	599.5	0.0924	mg/L	0.00038	0.0924	mg/L	0.00038	0.41%
Aluminum radialt	3.4	0.0088	mg/L	0.00776	0.0088	mg/L	0.00776	87.85%

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.	Sample ID
1	1	Calib Blank
2	2	Calib Std 1
3	3	Calib Std 2
4	4	Calib Std 3
5	5	Calib Std 4
6	6	Calib Std 5
7	7	ICV
8	101	LLICV
9	8	ICB
10	1	CCV
11	101	LLCCV
12	2	CCB
13	9	ICSA
14	10	ICSAB
15	102	RINSE BLANK
16	103	RINSE BLANK
17	104	MBLK-98353
18	105	LCS-98353
19	106	11021042-01A
20	107	11021042-01ASD
21	108	11021042-01AMS
22	109	11021042-01AMSD
23	1	CCV
24	2	CCB
25	110	11021042-01APDS
26	111	11021042-01APDSD
27	112	11021042-02A
28	113	11021042-03A
29	114	11021042-04A
30	115	11021042-05A
31	116	11021042-06A
32	117	11021042-07A
33	118	11021042-08A
34	119	11021042-09A
35	1	CCV
36	2	CCB
37	120	11020727-02A
38	121	11020727-25A
39	122	11020727-26A
40	123	11020727-31A
41	124	11030081-03A
42	1	CCV
43	2	CCB
44	9	ICSA
45	10	ICSAB
46	125	RINSE BLANK
47	126	RINSE BLANK

110307l020DV
03-07-11
SW

6010-S
Ca Mg orig

ICP7300IV_110307A
3-7-11

As orig 6010_W #98096 #98097

As Ba Cd Cr Pb Se Ag Sr Zn orig 6010_S #98471

IEC File Last Saved: 3/2/2011 2:16:41 PM
Printed On: 3/7/2011 11:53:28 AM

Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Aluminum radial	Antimony	Arsenic	Barium
1	**Aluminum**	982.238	0	0	0
2	**Aluminum radial**	n/a	0	0	0
3	**Antimony**	0	n/a	0	0
4	**Argon**	0	0	0	0
5	**Arsenic**	0	0	n/a	0
8	**Boron**	0	0	0	0
9	**Cadmium**	0	0	20.764	0
10	**Calcium**	0.0396145	0	0	0
11	**Calcium radial**	0.044926	0	0	0
13	**Cobalt**	0	0	0	0
14	**Copper**	0	0	0	0
15	**Iron**	0	0	0	0
16	**Iron radial**	0.0258936	0	0	0
17	**Lead**	-0.0376837	0	0	0
19	**Magnesium**	0	0	0	0
20	**Magnesium radial**	0	0	0	0
21	**Manganese**	0	0	0	0
22	**Molybdenum**	0	0	0	0
24	**Potassium**	0.320163	15.7572	15.1682	47.647
25	**Potassium radial**	0	0	0	0
26	**Selenium**	-0.0218888	0	0	0
27	**Silver**	0	0	0	0
28	**Sodium**	0.287024	13.4588	12.9895	41.0255
30	**Stonrium radial**	0	0	0	0
31	**Strontium**	0	0	0	0
32	**Thallium**	0	0	0	0
33	**Tin**	0	0	0	0
35	**Vanadium**	0	0	0	0

IEC File Last Saved: 3/2/2011 2:16:41 PM
Printed On: 3/7/2011 11:53:28 AM

Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Beryllium	Boron	Cadmium	Calcium radial
1	**Aluminum**	0	0	0	0.056019
2	**Aluminum radial**	0	0	0	0.081805
3	**Antimony**	0	0	0	0
4	**Argon**	0	0	0	0
5	**Arsenic**	0	0	0	-0.0124911
8	**Boron**	0	**n/a**	0	0
9	**Cadmium**	0	0	**n/a**	0
10	**Calcium**	0	0	0	957.262
11	**Calcium radial**	0	0	0	**n/a**
13	**Cobalt**	0	0	0	0
14	**Copper**	0	0	0	-0.0169336
15	**Iron**	0	0	0	0.0454708
16	**Iron radial**	0	0	0	0.0373072
17	**Lead**	0	0	0	0
19	**Magnesium**	0	0	4.69161	0
20	**Magnesium radial**	0	0	4.98523	0
21	**Manganese**	0	0	0	0
22	**Molybdenum**	0	0	0	0
24	**Potassium**	142.804	28.7161	50.8791	0
25	**Potassium radial**	0	0	0	0.139088
26	**Selenium**	0	0	0	0
27	**Silver**	0	0	0	0.0298839
28	**Sodium**	122.543	24.6644	43.5615	0
30	**Stonrium radial**	0	0	0	0.0274952
31	**Strontium**	0	0	0	0.0257865
32	**Thallium**	0	0	0	0
33	**Tin**	0	0	0	-0.106529
35	**Vanadium**	0	0	0	0

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Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Chromium	Cobalt	Copper	Iron radial
1	**Aluminum**	0	0	0	0
2	**Aluminum radial**	0	0	0	-0.0273414
3	**Antimony**	18.0636	0	0	-0.0731277
4	**Argon**	0	0	0	0
5	**Arsenic**	-5.19146	0	0	0
8	**Boron**	0	0	0	-0.0471581
9	**Cadmium**	0	-4.57465	0	0
10	**Calcium**	0	0	0	0.116905
11	**Calcium radial**	0	0	0	0.132699
13	**Cobalt**	0	**n/a**	0	0
14	**Copper**	0	0	**n/a**	0
15	**Iron**	0	-5.09891	0	766.561
16	**Iron radial**	0	-4.79259	0	**n/a**
17	**Lead**	0	0	0	0
19	**Magnesium**	0	0	0	-0.650457
20	**Magnesium radial**	0	0	0	-0.325492
21	**Manganese**	0	0	0	0
22	**Molybdenum**	0	0	0	-0.0394839
24	**Potassium**	48.0563	46.9371	49.64	0
25	**Potassium radial**	0	0	0	0.094679
26	**Selenium**	0	0	0	-0.358393
27	**Silver**	0	0	0	0
28	**Sodium**	41.1399	40.4234	43.3251	0
30	**Stonrium radial**	0	0	0	0
31	**Strontium**	0	0	0	0
32	**Thallium**	0	3.4636	0	0.0442045
33	**Tin**	0	0	0	0
35	**Vanadium**	0	0	0	0.232972

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IEC File Last Saved: 3/2/2011 2:16:41 PM
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Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Lead	Magnesium	Magnesium radial	Molybdenum
1	**Aluminum**	0	0	0.0292329	25.6843
2	**Aluminum radial**	0	0	0	0
3	**Antimony**	0	0	0	0
4	**Argon**	0	0	0	0
5	**Arsenic**	0	0.0707776	0	0
8	**Boron**	0	0	0	0
9	**Cadmium**	0	0	0	0
10	**Calcium**	0	0.106862	0	0
11	**Calcium radial**	0	0.111731	0	0
13	**Cobalt**	0	0	0	0
14	**Copper**	0	0	0	0
15	**Iron**	0	0.0382268	0	0
16	**Iron radial**	0	0.0487378	0	0
17	**Lead**	**n/a**	0	0	0
19	**Magnesium**	0	**n/a**	0	0
20	**Magnesium radial**	0	0	**n/a**	0
21	**Manganese**	0	0.0407226	0	4.56907e+006
22	**Molybdenum**	0	0	0	**n/a**
24	**Potassium**	0	0	0	328185
25	**Potassium radial**	2.13797	0.199156	0	0
26	**Selenium**	0	0	0	0
27	**Silver**	0	0	0	0
28	**Sodium**	12.2109	0	0	286349
30	**Stonrium radial**	0	0	0	0
31	**Strontium**	0	0	0	0
32	**Thallium**	0	0	0	-24162.3
33	**Tin**	0	0	0	0
35	**Vanadium**	0	0.0565652	0	0

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IEC File Last Saved: 3/2/2011 2:16:41 PM
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Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Nickel	Potassium radial	Selenium	Silver
1	**Aluminum**	0	0	2.66842	0
2	**Aluminum radial**	0	0.059783	0	0
3	**Antimony**	0	0	0	0
4	**Argon**	0	0	0	0
5	**Arsenic**	0	0	0	0
8	**Boron**	0	0	0	0
9	**Cadmium**	0	0	0	0
10	**Calcium**	0	0.302601	0	0
11	**Calcium radial**	0	0.324338	0	0
13	**Cobalt**	0	0	0	0
14	**Copper**	0	0	0	0
15	**Iron**	0	0	0	0
16	**Iron radial**	0	0	0	0
17	**Lead**	0	0	0	0
19	**Magnesium**	0	0	0	0
20	**Magnesium radial**	0	0	0	0
21	**Manganese**	0	0	0	0
22	**Molybdenum**	0	0	0	0
24	**Potassium**	49.8564	0	0	0
25	**Potassium radial**	9.04148	**n/a**	6.47083	12.8343
26	**Selenium**	0	0	**n/a**	0
27	**Silver**	0	0	0	**n/a**
28	**Sodium**	42.4781	0	0	0
30	**Stonrium radial**	0	0	0	0
31	**Strontium**	0	0	0	0
32	**Thallium**	0	0	0	0
33	**Tin**	0	0	0	0
35	**Vanadium**	0	0	0	0

IEC File Last Saved: 3/2/2011 2:16:41 PM
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Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Sodium radial	Stonrium radial	Thallium	Tin
1	**Aluminum**	0	0	0	0
2	**Aluminum radial**	0	0	0	0
3	**Antimony**	0	0	0	0
4	**Argon**	0	0	0	212467
5	**Arsenic**	0	0	0	0
8	**Boron**	0	0	0	0
9	**Cadmium**	0	0	0	0
10	**Calcium**	0	0	0	0
11	**Calcium radial**	0	0	0	0
13	**Cobalt**	0	0	0	0
14	**Copper**	0	0	0	0
15	**Iron**	0	0	0	0
16	**Iron radial**	0	0	0	0
17	**Lead**	0	0	0	0
19	**Magnesium**	0	0	0	0
20	**Magnesium radial**	0	0	0	0
21	**Manganese**	0	0	0	0
22	**Molybdenum**	0	0	0	0
24	**Potassium**	0	0	0	0
25	**Potassium radial**	1.46793	182.882	1.52712	39.3189
26	**Selenium**	0	0	0	0
27	**Silver**	0	0	0	0
28	**Sodium**	0	0	0	0
30	**Stonrium radial**	0	**n/a**	0	0
31	**Strontium**	0	0	0	0
32	**Thallium**	0	0	**n/a**	0
33	**Tin**	0	0	0	**n/a**
35	**Vanadium**	0	0	0	0

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IEC File Last Saved: 3/2/2011 2:16:41 PM
Printed On: 3/7/2011 11:53:28 AM

Results Data Set Name: spl dan ie
Method Name: spl dan 6010B.C 20
Results Library: C:\pe\JonesDH\Results\Results.md

Interfering Analytes

	Analytes	Titanium	Vanadium
1	**Aluminum**	0	0
2	**Aluminum radial**	0	0
3	**Antimony**	0	0
4	**Argon**	11282	0
5	**Arsenic**	-1.6828	0
8	**Boron**	0	0
9	**Cadmium**	0	0
10	**Calcium**	0	0
11	**Calcium radial**	0	0
13	**Cobalt**	2.01623	0
14	**Copper**	0	0
15	**Iron**	0	0
16	**Iron radial**	0	0
17	**Lead**	0	0
19	**Magnesium**	0	0
20	**Magnesium radial**	0	0
21	**Manganese**	0	0
22	**Molybdenum**	0	0
24	**Potassium**	0	0
25	**Potassium radial**	5.33277	6.00745
26	**Selenium**	0	0
27	**Silver**	0	-7.50937
28	**Sodium**	0	0
30	**Stonrium radial**	0	0
31	**Strontium**	0	0
32	**Thallium**	0	-5.67433
33	**Tin**	0	0
35	**Vanadium**	0	**n/a**

-4.0	15.0	904.9
-3.5	15.0	1505.4
-3.0	15.0	2612.5
-2.5	15.0	4030.6
-2.0	15.0	3695.7
-1.5	15.0	5398.5
-1.0	15.0	12297.0
-0.5	15.0	15675.8
0.0	15.0	16413.6
0.5	15.0	17071.7
1.0	15.0	15577.1
1.5	15.0	13667.7
2.0	15.0	11835.8
2.5	15.0	8013.2
3.0	15.0	3816.8
3.5	15.0	3997.1
4.0	15.0	3387.4
4.5	15.0	2216.3
5.0	15.0	1558.0
5.5	15.0	1211.0
6.0	15.0	1116.8
6.5	15.0	950.8
7.0	15.0	747.4

3/7/2011 10:19:08 AM aligned for analyte Mn 257.610
X viewing position set to 0.5 mm having Peak intensity 17071.7 for Radial viewing

Analysis Begun

Start Time: 3/7/2011 10:20:31 AM **Plasma On Time: 3/7/2011 9:19:25 AM**
Logged In Analyst: LAFMETALS **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0052103Autosampler Model: Cetac

Sample Information File: C:\pe\lafmetals\Sample Information\6010 200.7.sif
Batch ID:
Results Data Set: 1103071020DV
Results Library: C:\pe\lafmetals\Results\Results.mdb

Method Loaded
Method Name: spl dan 6010B.C 200 **Method Last Saved: 1/24/2011 4:47:27 PM**
IEC File: dan spl.iec **MSF File:**
Method Description: 6010 200.7

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Calib Blank **Date Collected: 3/7/2011 10:20:32 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: Calib Blank

Analyte	Back Pressure	Flow
All	163.0 kPa	0.65 L/min

Mean Data: Calib Blank

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium	604482.7	4381.19	0.72%	100.0	%
Aluminum†	-10.5	78.90	749.46%	[0.00]	mg/L
Antimony†	13.0	3.24	24.82%	[0.00]	mg/L
Arsenic†	-0.5	3.09	594.99%	[0.00]	mg/L
Barium†	-10.0	3.03	30.27%	[0.00]	mg/L
Beryllium†	-307.6	106.20	34.53%	[0.00]	mg/L
Boron†	160.8	17.52	10.90%	[0.00]	mg/L
Cadmium†	66.4	8.91	13.41%	[0.00]	mg/L
Chromium†	193.3	7.69	3.98%	[0.00]	mg/L
Cobalt†	-8.4	2.89	34.28%	[0.00]	mg/L

Copper†	1410.4	35.26	2.50%	[0.00] mg/L
Lithium†	430.5	44.73	10.39%	[0.00] mg/L
Manganese†	264.2	36.70	13.89%	[0.00] mg/L
Molybdenum†	19.3	7.63	39.55%	[0.00] mg/L
Nickel†	90.7	9.07	10.01%	[0.00] mg/L
Lead†	28.5	5.38	18.87%	[0.00] mg/L
Selenium†	-0.9	1.78	194.64%	[0.00] mg/L
Silver†	-1170.7	56.91	4.86%	[0.00] mg/L
Strontium†	342.2	66.99	19.57%	[0.00] mg/L
Tin†	-0.1	1.98	>999.9%	[0.00] mg/L
Thallium†	-43.5	4.62	10.60%	[0.00] mg/L
Titanium†	512.7	35.14	6.85%	[0.00] mg/L
Vanadium†	4240.4	18.70	0.44%	[0.00] mg/L
Zinc†	40.4	2.86	7.09%	[0.00] mg/L
Sodium†	7184.1	93.09	1.30%	[0.00] mg/L
Magnesium†	724.4	14.33	1.98%	[0.00] mg/L
Iron†	86.9	11.69	13.45%	[0.00] mg/L
Calcium†	5570.9	72.38	1.30%	[0.00] mg/L
Potassium†	157.4	46.99	29.85%	[0.00] mg/L
Aluminum radial†	-61.2	10.12	16.52%	[0.00] mg/L
Calcium radial†	180.6	9.40	5.21%	[0.00] mg/L
Iron radial†	30.2	2.45	8.13%	[0.00] mg/L
Magnesium radial†	118.0	2.94	2.49%	[0.00] mg/L
Sodium radial†	216.7	16.31	7.53%	[0.00] mg/L
Potassium radial†	-7.7	18.36	239.64%	[0.00] mg/L
Stonrium radial†	243.3	4.45	1.83%	[0.00] mg/L

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: Calib Std 1 **Date Collected: 3/7/2011 10:22:45 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: Calib Std 1

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium	607748.1	12968.36	2.13%	100.5	%
Antimony†	0.1	3.03	>999.9%	[0.005]	mg/L
Arsenic†	4.4	1.48	33.77%	[0.005]	mg/L
Barium†	254.1	10.11	3.98%	[0.005]	mg/L
Beryllium†	8355.9	155.49	1.86%	[0.005]	mg/L
Boron†	100.5	15.18	15.11%	[0.005]	mg/L
Cadmium†	74.1	10.38	14.00%	[0.005]	mg/L
Chromium†	285.5	22.10	7.74%	[0.005]	mg/L
Cobalt†	55.7	1.55	2.79%	[0.005]	mg/L
Copper†	470.8	19.12	4.06%	[0.005]	mg/L
Lithium†	27619.9	493.22	1.79%	[0.005]	mg/L
Manganese†	1895.3	48.84	2.58%	[0.005]	mg/L
Molybdenum†	23.4	3.70	15.80%	[0.005]	mg/L
Nickel†	61.5	14.52	23.62%	[0.005]	mg/L
Lead†	2.8	4.29	154.16%	[0.005]	mg/L
Selenium†	1.9	3.27	175.99%	[0.005]	mg/L
Silver†	560.3	99.96	17.84%	[0.005]	mg/L
Strontium†	29452.6	629.54	2.14%	[0.0025]	mg/L
Tin†	5.0	1.78	35.74%	[0.005]	mg/L
Thallium†	5.8	9.46	162.09%	[0.005]	mg/L
Titanium†	1072.3	55.92	5.22%	[0.005]	mg/L
Vanadium†	285.2	47.27	16.58%	[0.005]	mg/L
Zinc†	48.6	3.54	7.29%	[0.005]	mg/L
Argon	4107350.8	10557.16	0.26%	[100]	mg/L
The required calibration blank has not been analyzed.					
Sodium†	7195.0	467.80	6.50%	[0.05]	mg/L
Potassium†	3302.8	111.44	3.37%	[0.05]	mg/L
Sodium radial†	156.2	70.94	45.40%	[0.05]	mg/L
Potassium radial†	79.0	39.36	49.80%	[0.05]	mg/L

Stonrium radial†	1355.7	52.35	3.86%	[0.0025] mg/L

Sequence No.: 3
Sample ID: Calib Std 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 3/7/2011 10:24:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Std 2

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium	601747.1	5993.35	1.00%	99.55	%
Aluminum†	1901.9	78.81	4.14%	[0.05]	mg/L
Antimony†	34.3	5.85	17.07%	[0.05]	mg/L
Arsenic†	34.6	2.50	7.22%	[0.05]	mg/L
Barium†	2674.1	30.55	1.14%	[0.05]	mg/L
Beryllium†	87538.6	1793.43	2.05%	[0.05]	mg/L
Boron†	1036.2	19.01	1.83%	[0.05]	mg/L
Cadmium†	781.1	16.23	2.08%	[0.05]	mg/L
Chromium†	3266.3	83.45	2.55%	[0.05]	mg/L
Cobalt†	656.4	5.30	0.81%	[0.05]	mg/L
Copper†	4793.5	71.96	1.50%	[0.05]	mg/L
Lithium†	295222.3	748.56	0.25%	[0.05]	mg/L
Manganese†	20484.8	434.37	2.12%	[0.05]	mg/L
Molybdenum†	309.4	7.82	2.53%	[0.05]	mg/L
Nickel†	701.9	10.05	1.43%	[0.05]	mg/L
Lead†	87.5	4.82	5.52%	[0.05]	mg/L
Selenium†	20.2	1.68	8.34%	[0.05]	mg/L
Silver†	5931.3	41.33	0.70%	[0.05]	mg/L
Strontium†	307458.2	1554.27	0.51%	[0.025]	mg/L
Tin†	47.7	4.52	9.48%	[0.05]	mg/L
Thallium†	80.0	10.36	12.96%	[0.05]	mg/L
Titanium†	11569.4	247.04	2.14%	[0.05]	mg/L
Vanadium†	3263.4	162.85	4.99%	[0.05]	mg/L
Zinc†	516.3	12.57	2.44%	[0.05]	mg/L
Sodium†	88089.9	162.92	0.18%	[0.50]	mg/L
Magnesium†	10164.5	263.40	2.59%	[0.05]	mg/L
Iron†	1946.9	19.14	0.98%	[0.05]	mg/L
Calcium†	5733.5	241.38	4.21%	[0.05]	mg/L
Potassium†	36371.7	278.42	0.77%	[0.50]	mg/L
Aluminum radial†	67.5	18.65	27.65%	[0.05]	mg/L
Calcium radial†	297.5	22.46	7.55%	[0.05]	mg/L
Iron radial†	83.8	1.68	2.01%	[0.05]	mg/L
Magnesium radial†	477.0	6.29	1.32%	[0.05]	mg/L
Sodium radial†	1885.6	49.03	2.60%	[0.50]	mg/L
Potassium radial†	313.3	39.50	12.61%	[0.50]	mg/L
Stonrium radial†	13643.4	165.52	1.21%	[0.025]	mg/L

Sequence No.: 4
Sample ID: Calib Std 3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 3/7/2011 10:25:56 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Std 3

Analyte	Back Pressure	Flow
All	163.0 kPa	0.65 L/min

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium	576043.5	12658.57	2.20%	95.30	%

Aluminum†	3808.7	23.37	0.61%	[0.10] mg/L
Antimony†	72.3	6.86	9.50%	[0.10] mg/L
Arsenic†	68.1	1.58	2.32%	[0.10] mg/L
Barium†	5295.6	70.22	1.33%	[0.10] mg/L
Beryllium†	175364.3	464.30	0.26%	[0.10] mg/L
Boron†	2117.6	23.11	1.09%	[0.10] mg/L
Cadmium†	1563.5	35.14	2.25%	[0.10] mg/L
Chromium†	6433.8	56.32	0.88%	[0.10] mg/L
Cobalt†	1313.7	28.52	2.17%	[0.10] mg/L
Copper†	9614.5	36.05	0.37%	[0.10] mg/L
Lithium†	599279.9	2397.95	0.40%	[0.10] mg/L
Manganese†	40639.7	153.42	0.38%	[0.10] mg/L
Molybdenum†	629.8	8.87	1.41%	[0.10] mg/L
Nickel†	1386.6	32.32	2.33%	[0.10] mg/L
Lead†	175.9	3.42	1.94%	[0.10] mg/L
Selenium†	37.8	2.28	6.04%	[0.10] mg/L
Silver†	12139.6	66.41	0.55%	[0.10] mg/L
Strontium†	620437.5	5295.20	0.85%	[0.05] mg/L
Tin†	91.2	4.22	4.63%	[0.10] mg/L
Thallium†	154.3	5.08	3.29%	[0.10] mg/L
Titanium†	23007.9	149.35	0.65%	[0.10] mg/L
Vanadium†	6638.0	52.45	0.79%	[0.10] mg/L
Zinc†	1028.4	18.08	1.76%	[0.10] mg/L
Sodium†	183784.7	1288.21	0.70%	[1.00] mg/L
Magnesium†	20257.0	129.20	0.64%	[0.10] mg/L
Iron†	3885.2	68.82	1.77%	[0.10] mg/L
Calcium†	11682.3	154.39	1.32%	[0.10] mg/L
Potassium†	75813.0	590.11	0.78%	[1.00] mg/L
Aluminum radial†	186.5	10.85	5.82%	[0.10] mg/L
Calcium radial†	544.4	27.47	5.05%	[0.10] mg/L
Iron radial†	165.4	1.48	0.89%	[0.10] mg/L
Magnesium radial†	959.5	38.54	4.02%	[0.10] mg/L
Sodium radial†	3868.3	175.50	4.54%	[1.00] mg/L
Potassium radial†	648.7	58.24	8.98%	[1.00] mg/L
Stonrium radial†	27822.6	868.03	3.12%	[0.05] mg/L

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: Calib Std 4 **Date Collected: 3/7/2011 10:27:47 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: Calib Std 4

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: Calib Std 4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium	555628.8	12695.41	2.28%	91.92	%
Aluminum†	20084.6	790.20	3.93%	[0.50]	mg/L
Antimony†	352.0	7.57	2.15%	[0.50]	mg/L
Arsenic†	320.6	5.84	1.82%	[0.50]	mg/L
Barium†	25642.8	605.81	2.36%	[0.50]	mg/L
Beryllium†	847894.4	3220.72	0.38%	[0.50]	mg/L
Boron†	10378.8	259.23	2.50%	[0.50]	mg/L
Cadmium†	7466.4	126.06	1.69%	[0.50]	mg/L
Chromium†	31293.7	672.92	2.15%	[0.50]	mg/L
Cobalt†	6212.0	99.91	1.61%	[0.50]	mg/L
Copper†	46286.7	1144.47	2.47%	[0.50]	mg/L
Lithium†	2941925.2	21085.59	0.72%	[0.50]	mg/L
Manganese†	194442.8	4417.13	2.27%	[0.50]	mg/L
Molybdenum†	3026.2	52.99	1.75%	[0.50]	mg/L
Nickel†	6590.7	119.68	1.82%	[0.50]	mg/L
Lead†	855.6	13.61	1.59%	[0.50]	mg/L
Selenium†	197.2	7.62	3.86%	[0.50]	mg/L
Silver†	60058.6	1280.04	2.13%	[0.50]	mg/L
Strontium†	2959094.0	14597.03	0.49%	[0.25]	mg/L
Tin†	422.1	8.16	1.93%	[0.50]	mg/L

Thallium†	736.2	8.81	1.20%	[0.50] mg/L
Titanium†	111345.8	475.42	0.43%	[0.50] mg/L
Vanadium†	32592.0	833.68	2.56%	[0.50] mg/L
Zinc†	4890.3	75.41	1.54%	[0.50] mg/L
Sodium†	973933.3	4209.10	0.43%	[5.00] mg/L
Magnesium†	99582.9	2215.99	2.23%	[0.50] mg/L
Iron†	18572.1	380.12	2.05%	[0.50] mg/L
Calcium†	57877.0	1415.98	2.45%	[0.50] mg/L
Potassium†	420111.3	1595.46	0.38%	[5.00] mg/L
Aluminum radial†	937.8	31.65	3.37%	[0.50] mg/L
Calcium radial†	2730.0	59.00	2.16%	[0.50] mg/L
Iron radial†	789.1	13.59	1.72%	[0.50] mg/L
Magnesium radial†	4656.3	117.39	2.52%	[0.50] mg/L
Sodium radial†	19053.4	635.32	3.33%	[5.00] mg/L
Potassium radial†	3314.8	54.16	1.63%	[5.00] mg/L
Stonrium radial†	134545.8	3412.10	2.54%	[0.25] mg/L

Sequence No.: 6
Sample ID: Calib Std 5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 3/7/2011 10:29:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Std 5

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: Calib Std 5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium	564743.9	7613.13	1.35%	93.43	%
Aluminum†	36638.4	718.47	1.96%	[1.00]	mg/L
Antimony†	691.0	19.17	2.77%	[1.00]	mg/L
Arsenic†	623.3	22.62	3.63%	[1.00]	mg/L
Barium†	50929.5	1089.38	2.14%	[1.00]	mg/L
Beryllium†	1675708.0	15865.97	0.95%	[1.00]	mg/L
Boron†	20765.4	418.84	2.02%	[1.00]	mg/L
Cadmium†	14948.0	335.58	2.24%	[1.00]	mg/L
Chromium†	61982.5	1272.30	2.05%	[1.00]	mg/L
Cobalt†	12332.5	226.35	1.84%	[1.00]	mg/L
Copper†	92322.6	1986.31	2.15%	[1.00]	mg/L
Lithium†	5896793.5	66391.55	1.13%	[1.00]	mg/L
Manganese†	386427.4	8672.14	2.24%	[1.00]	mg/L
Molybdenum†	5870.3	204.15	3.48%	[1.00]	mg/L
Nickel†	13136.5	339.63	2.59%	[1.00]	mg/L
Lead†	1667.3	66.35	3.98%	[1.00]	mg/L
Selenium†	379.7	14.05	3.70%	[1.00]	mg/L
Silver†	120615.2	2739.82	2.27%	[1.00]	mg/L
Strontium†	5835617.3	55494.64	0.95%	[0.50]	mg/L
Tin†	813.4	32.79	4.03%	[1.00]	mg/L
Thallium†	1426.5	36.09	2.53%	[1.00]	mg/L
Titanium†	220330.3	4295.04	1.95%	[1.00]	mg/L
Vanadium†	64809.9	1479.28	2.28%	[1.00]	mg/L
Zinc†	9713.8	215.41	2.22%	[1.00]	mg/L
Sodium†	2078694.2	25155.47	1.21%	[10.00]	mg/L
Magnesium†	200718.0	4179.13	2.08%	[1.00]	mg/L
Iron†	36869.8	779.90	2.12%	[1.00]	mg/L
Calcium†	113718.3	2698.16	2.37%	[1.00]	mg/L
Potassium†	911225.5	12082.71	1.33%	[10.00]	mg/L
Aluminum radial†	1775.8	47.82	2.69%	[1.00]	mg/L
Calcium radial†	5198.4	119.09	2.29%	[1.00]	mg/L
Iron radial†	1522.6	38.92	2.56%	[1.00]	mg/L
Magnesium radial†	9017.0	233.22	2.59%	[1.00]	mg/L
Sodium radial†	36758.3	865.74	2.36%	[10.00]	mg/L
Potassium radial†	6363.7	161.90	2.54%	[10.00]	mg/L
Stonrium radial†	256926.6	4800.10	1.87%	[0.50]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Aluminum	4	Lin, Calc Int	282.4	36980	0.00000	0.998845	
Antimony	5	Lin, Calc Int	0.4	693.3	0.00000	0.999931	
Arsenic	5	Lin, Calc Int	3.3	623.1	0.00000	0.999898	
Barium	5	Lin, Calc Int	93.0	50900	0.00000	0.999989	
Beryllium	5	Lin, Calc Int	3580.8	1676000	0.00000	0.999978	
Boron	5	Lin, Calc Int	7.6	20760	0.00000	0.999998	
Cadmium	5	Lin, Calc Int	23.0	14920	0.00000	0.999989	
Chromium	5	Lin, Calc Int	115.1	61980	0.00000	0.999984	
Cobalt	5	Lin, Calc Int	30.5	12320	0.00000	0.999976	
Copper	5	Lin, Calc Int	143.7	92220	0.00000	0.999992	
Lithium	5	Lin, Calc Int	1205.5	5893000	0.00000	0.999998	
Manganese	5	Lin, Calc Int	837.8	386000	0.00000	0.999985	
Molybdenum	5	Lin, Calc Int	20.2	5884	0.00000	0.999878	
Nickel	5	Lin, Calc Int	28.5	13120	0.00000	0.999984	
Lead	5	Lin, Calc Int	3.6	1672	0.00000	0.999901	
Selenium	5	Lin, Calc Int	0.9	381.4	0.00000	0.999825	
Silver	5	Lin, Calc Int	-40.0	120600	0.00000	0.999997	
Strontium	5	Lin, Calc Int	15974.3	11670000	0.00000	0.999967	
Tin	5	Lin, Calc Int	5.6	813.2	0.00000	0.999811	
Thallium	5	Lin, Calc Int	6.5	1428	0.00000	0.999865	
Titanium	5	Lin, Calc Int	454.6	220300	0.00000	0.999981	
Vanadium	5	Lin, Calc Int	47.9	64830	0.00000	0.999994	
Zinc	5	Lin, Calc Int	23.4	9702	0.00000	0.999982	
Argon	1	Lin, Calc Int	0.0	41070	0.00000	1.000000	
Sodium	5	Lin, Calc Int	-16042.4	207100	0.00000	0.999550	
Magnesium	4	Lin, Calc Int	4.3	200400	0.00000	0.999990	
Iron	4	Lin, Calc Int	111.3	36800	0.00000	0.999986	
Calcium	4	Lin, Calc Int	234.6	113800	0.00000	0.999960	
Potassium	5	Lin, Calc Int	-9233.1	90770	0.00000	0.999289	
Aluminum radial	4	Lin, Calc Int	1.8	1793	0.00000	0.999452	
Calcium radial	4	Lin, Calc Int	35.8	5207	0.00000	0.999702	
Iron radial	4	Lin, Calc Int	9.9	1522	0.00000	0.999840	
Magnesium radial	4	Lin, Calc Int	44.3	9023	0.00000	0.999871	
Sodium radial	5	Lin, Calc Int	108.8	3690	0.00000	0.999842	
Potassium radial	5	Lin, Calc Int	25.8	638.4	0.00000	0.999788	
Stonrium radial	5	Lin, Calc Int	1243.2	515800	0.00000	0.999742	

Analysis Begun

Start Time: 3/7/2011 10:40:35 AM
Logged In Analyst: LAFMETALS
Spectrometer Model: Optima 7300 DV, S/N 077C0052103
Plasma On Time: 3/7/2011 9:19:25 AM
Technique: ICP Continuous
Autosampler Model: Cetac

Sample Information File: C:\pe\lafmetals\Sample Information\6010 200.7.sif
Batch ID:
Results Data Set: 1103071020DV
Results Library: C:\pe\lafmetals\Results\Results.mdb

Sequence No.: 1
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 7
Date Collected: 3/7/2011 10:40:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	620710.7	102.7	%	0.19				0.19%
Aluminum†	36206.9	0.9714	mg/L	0.01066	0.9714	mg/L	0.01066	1.10%
QC value within limits for Aluminum Recovery = 97.14%								
Antimony†	680.4	0.9631	mg/L	0.01353	0.9631	mg/L	0.01353	1.41%
QC value within limits for Antimony Recovery = 96.31%								
Arsenic†	679.7	1.092	mg/L	0.0142	1.092	mg/L	0.0142	1.30%
QC value greater than the upper limit for Arsenic Recovery = 109.23%								
Barium†	51220.6	1.004	mg/L	0.0116	1.004	mg/L	0.0116	1.16%
QC value within limits for Barium Recovery = 100.45%								
Beryllium†	1704618.8	1.015	mg/L	0.0054	1.015	mg/L	0.0054	0.53%
QC value within limits for Beryllium Recovery = 101.51%								
Boron†	20290.4	0.9772	mg/L	0.01409	0.9772	mg/L	0.01409	1.44%
QC value within limits for Boron Recovery = 97.72%								
Cadmium†	14826.2	0.9742	mg/L	0.01116	0.9742	mg/L	0.01116	1.15%
QC value within limits for Cadmium Recovery = 97.42%								
Chromium†	61707.0	0.9938	mg/L	0.01185	0.9938	mg/L	0.01185	1.19%
QC value within limits for Chromium Recovery = 99.38%								
Cobalt†	12509.6	1.011	mg/L	0.0162	1.011	mg/L	0.0162	1.60%
QC value within limits for Cobalt Recovery = 101.11%								
Copper†	89831.7	0.9725	mg/L	0.01346	0.9725	mg/L	0.01346	1.38%
QC value within limits for Copper Recovery = 97.25%								
Lithium†	5800144.5	0.9840	mg/L	0.01016	0.9840	mg/L	0.01016	1.03%
QC value within limits for Lithium Recovery = 98.40%								
Manganese†	385138.8	0.9955	mg/L	0.01273	0.9955	mg/L	0.01273	1.28%
QC value within limits for Manganese Recovery = 99.55%								
Molybdenum†	5857.6	0.9921	mg/L	0.00932	0.9921	mg/L	0.00932	0.94%
QC value within limits for Molybdenum Recovery = 99.21%								
Nickel†	13183.7	1.003	mg/L	0.0128	1.003	mg/L	0.0128	1.27%
QC value within limits for Nickel Recovery = 100.30%								
Lead†	1718.1	1.025	mg/L	0.0077	1.025	mg/L	0.0077	0.75%
QC value within limits for Lead Recovery = 102.53%								
Selenium†	399.6	1.046	mg/L	0.0119	1.046	mg/L	0.0119	1.14%
QC value within limits for Selenium Recovery = 104.57%								
Silver†	117890.5	0.9855	mg/L	0.01278	0.9855	mg/L	0.01278	1.30%
QC value within limits for Silver Recovery = 98.55%								
Strontium†	5663752.7	0.4840	mg/L	0.00432	0.4840	mg/L	0.00432	0.89%
QC value within limits for Strontium Recovery = 96.79%								
Tin†	869.1	1.062	mg/L	0.0129	1.062	mg/L	0.0129	1.21%
QC value greater than the upper limit for Tin Recovery = 106.20%								
Thallium†	1460.2	1.018	mg/L	0.0111	1.018	mg/L	0.0111	1.09%
QC value within limits for Thallium Recovery = 101.77%								
Titanium†	214179.7	0.9702	mg/L	0.00906	0.9702	mg/L	0.00906	0.93%
QC value within limits for Titanium Recovery = 97.02%								

Vanadium†	63983.3	0.9858 mg/L	0.01270	0.9858 mg/L	0.01270	1.29%
QC value within limits for Vanadium Recovery = 98.58%						
Zinc†	10004.2	1.029 mg/L	0.0139	1.029 mg/L	0.0139	1.35%
QC value within limits for Zinc Recovery = 102.87%						
Argon	4071388.6	99.12 mg/L	0.302	99.12 mg/L	0.302	0.30%
Sodium†	2072711.3	10.08 mg/L	0.045	10.08 mg/L	0.045	0.45%
QC value within limits for Sodium Recovery = 100.84%						
Magnesium†	198867.5	0.9922 mg/L	0.01155	0.9922 mg/L	0.01155	1.16%
QC value within limits for Magnesium Recovery = 99.22%						
Iron†	36909.7	1.0000 mg/L	0.01178	1.0000 mg/L	0.01178	1.18%
QC value within limits for Iron Recovery = 100.00%						
Calcium†	112737.3	0.9882 mg/L	0.01297	0.9882 mg/L	0.01297	1.31%
QC value within limits for Calcium Recovery = 98.82%						
Potassium†	893577.1	9.946 mg/L	0.0351	9.946 mg/L	0.0351	0.35%
QC value within limits for Potassium Recovery = 99.46%						
Aluminum radial†	1762.1	0.9817 mg/L	0.02960	0.9817 mg/L	0.02960	3.02%
QC value within limits for Aluminum radial Recovery = 98.17%						
Calcium radial†	5352.4	1.021 mg/L	0.0146	1.021 mg/L	0.0146	1.43%
QC value within limits for Calcium radial Recovery = 102.11%						
Iron radial†	1575.7	1.029 mg/L	0.0237	1.029 mg/L	0.0237	2.30%
QC value within limits for Iron radial Recovery = 102.88%						
Magnesium radial†	9033.8	0.9963 mg/L	0.02118	0.9963 mg/L	0.02118	2.13%
QC value within limits for Magnesium radial Recovery = 99.63%						
Sodium radial†	36470.4	9.854 mg/L	0.1371	9.854 mg/L	0.1371	1.39%
QC value within limits for Sodium radial Recovery = 98.54%						
Potassium radial†	6335.5	9.884 mg/L	0.1371	9.884 mg/L	0.1371	1.39%
QC value within limits for Potassium radial Recovery = 98.84%						
Stonrium radial†	253914.8	0.4899 mg/L	0.00635	0.4899 mg/L	0.00635	1.30%
QC value within limits for Stonrium radial Recovery = 97.97%						

QC Failed. Continue with analysis.

Sequence No.: 2
Sample ID: LLICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 101
Date Collected: 3/7/2011 10:42:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LLICV

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	615390.4	101.8	%	1.25				1.23%
Aluminum†	3564.0	0.0887	mg/L	0.00154	0.0887	mg/L	0.00154	1.74%
Antimony†	12.0	0.0167	mg/L	0.00230	0.0167	mg/L	0.00230	13.82%
Arsenic†	14.5	0.0180	mg/L	0.00486	0.0180	mg/L	0.00486	26.95%
Barium†	525.0	0.0085	mg/L	0.00015	0.0085	mg/L	0.00015	1.74%
Beryllium†	17390.9	0.0082	mg/L	0.00024	0.0082	mg/L	0.00024	2.96%
Boron†	657.2	0.0313	mg/L	0.00109	0.0313	mg/L	0.00109	3.48%
Cadmium†	149.6	0.0081	mg/L	0.00023	0.0081	mg/L	0.00023	2.88%
Chromium†	609.6	0.0080	mg/L	0.00027	0.0080	mg/L	0.00027	3.40%
Cobalt†	125.2	0.0077	mg/L	0.00022	0.0077	mg/L	0.00022	2.83%
Copper†	894.6	0.0081	mg/L	0.00102	0.0081	mg/L	0.00102	12.52%
Lithium†	111887.9	0.0188	mg/L	0.00023	0.0188	mg/L	0.00023	1.24%
Manganese†	3990.5	0.0082	mg/L	0.00033	0.0082	mg/L	0.00033	4.05%
Molybdenum†	54.0	0.0057	mg/L	0.00031	0.0057	mg/L	0.00031	5.35%
Nickel†	123.7	0.0073	mg/L	0.00037	0.0073	mg/L	0.00037	5.05%
Lead†	15.3	0.0070	mg/L	0.00486	0.0070	mg/L	0.00486	69.82%
Selenium†	5.9	0.0132	mg/L	0.01017	0.0132	mg/L	0.01017	76.83%
Silver†	1050.8	0.0092	mg/L	0.00018	0.0092	mg/L	0.00018	1.98%
Strontium†	121664.2	0.0091	mg/L	0.00013	0.0091	mg/L	0.00013	1.47%
Tin†	20.4	0.0182	mg/L	0.00432	0.0182	mg/L	0.00432	23.71%
Thallium†	56.6	0.0351	mg/L	0.00672	0.0351	mg/L	0.00672	19.14%
Titanium†	2244.9	0.0081	mg/L	0.00023	0.0081	mg/L	0.00023	2.82%
Vanadium†	1310.2	0.0194	mg/L	0.00050	0.0194	mg/L	0.00050	2.59%
Zinc†	226.7	0.0210	mg/L	0.00073	0.0210	mg/L	0.00073	3.48%
Argon	4055719.9	98.74	mg/L	0.262	98.74	mg/L	0.262	0.27%

Sodium†	81317.7	0.4701 mg/L	0.00231	0.4701 mg/L	0.00231	0.49%
Magnesium†	19563.0	0.0976 mg/L	0.00032	0.0976 mg/L	0.00032	0.33%
Iron†	3768.1	0.0994 mg/L	0.00106	0.0994 mg/L	0.00106	1.07%
Calcium†	26534.6	0.2310 mg/L	0.00106	0.2310 mg/L	0.00106	0.46%
Potassium†	34416.8	0.4809 mg/L	0.00298	0.4809 mg/L	0.00298	0.62%
Aluminum radial†	171.2	0.0945 mg/L	0.00796	0.0945 mg/L	0.00796	8.42%
Calcium radial†	1298.5	0.2425 mg/L	0.00760	0.2425 mg/L	0.00760	3.14%
Iron radial†	170.2	0.1053 mg/L	0.00706	0.1053 mg/L	0.00706	6.71%
Magnesium radial†	970.4	0.1026 mg/L	0.00528	0.1026 mg/L	0.00528	5.15%
Sodium radial†	2131.7	0.5482 mg/L	0.09165	0.5482 mg/L	0.09165	16.72%
Potassium radial†	386.4	0.5649 mg/L	0.10864	0.5649 mg/L	0.10864	19.23%
Stonrium radial†	7885.1	0.0129 mg/L	0.00525	0.0129 mg/L	0.00525	40.80%

Sequence No.: 3 **Autosampler Location: 8**
Sample ID: ICB **Date Collected: 3/7/2011 10:44:34 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	607515.2	100.5	%	0.68				0.68%
Aluminum†	-22.6	-0.0082	mg/L	0.00078	-0.0082	mg/L	0.00078	9.50%
QC value within limits for Aluminum Recovery = Not calculated								
Antimony†	-4.9	-0.0075	mg/L	0.00703	-0.0075	mg/L	0.00703	93.17%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	4.1	0.0013	mg/L	0.00393	0.0013	mg/L	0.00393	297.73%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	5.9	-0.0017	mg/L	0.00018	-0.0017	mg/L	0.00018	10.24%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	54.0	-0.0021	mg/L	0.00003	-0.0021	mg/L	0.00003	1.65%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	16.2	0.0004	mg/L	0.00024	0.0004	mg/L	0.00024	58.58%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	0.4	-0.0016	mg/L	0.00012	-0.0016	mg/L	0.00012	7.92%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	-18.2	-0.0022	mg/L	0.00013	-0.0022	mg/L	0.00013	6.25%
QC value within limits for Chromium Recovery = Not calculated								
Cobalt†	-3.7	-0.0028	mg/L	0.00054	-0.0028	mg/L	0.00054	19.48%
QC value within limits for Cobalt Recovery = Not calculated								
Copper†	47.7	-0.0010	mg/L	0.00103	-0.0010	mg/L	0.00103	98.76%
QC value within limits for Copper Recovery = Not calculated								
Lithium†	87.7	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	8.09%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	-49.9	-0.0023	mg/L	0.00007	-0.0023	mg/L	0.00007	2.83%
QC value within limits for Manganese Recovery = Not calculated								
Molybdenum†	-7.7	-0.0047	mg/L	0.00131	-0.0047	mg/L	0.00131	27.54%
QC value within limits for Molybdenum Recovery = Not calculated								
Nickel†	1.4	-0.0021	mg/L	0.00056	-0.0021	mg/L	0.00056	27.40%
QC value within limits for Nickel Recovery = Not calculated								
Lead†	-6.3	-0.0059	mg/L	0.00187	-0.0059	mg/L	0.00187	31.55%
QC value within limits for Lead Recovery = Not calculated								
Selenium†	0.6	-0.0007	mg/L	0.00946	-0.0007	mg/L	0.00946	>999.9%
QC value within limits for Selenium Recovery = Not calculated								
Silver†	-46.5	-0.0001	mg/L	0.00099	-0.0001	mg/L	0.00099	>999.9%
QC value within limits for Silver Recovery = Not calculated								
Strontium†	518.0	-0.0013	mg/L	0.00000	-0.0013	mg/L	0.00000	0.16%
QC value within limits for Strontium Recovery = Not calculated								
Tin†	4.2	-0.0017	mg/L	0.00316	-0.0017	mg/L	0.00316	182.51%
QC value within limits for Tin Recovery = Not calculated								
Thallium†	2.6	-0.0027	mg/L	0.00683	-0.0027	mg/L	0.00683	255.08%
QC value within limits for Thallium Recovery = Not calculated								
Titanium†	44.6	-0.0019	mg/L	0.00011	-0.0019	mg/L	0.00011	6.00%
QC value within limits for Titanium Recovery = Not calculated								

Vanadium†	-42.7	-0.0014 mg/L	0.00021	-0.0014 mg/L	0.00021	15.06%
QC value within limits for Vanadium Recovery = Not calculated						
Zinc†	5.3	-0.0019 mg/L	0.00056	-0.0019 mg/L	0.00056	30.19%
QC value within limits for Zinc Recovery = Not calculated						
Argon	4043371.6	98.44 mg/L	0.392	98.44 mg/L	0.392	0.40%
Sodium†	-2362.8	0.0660 mg/L	0.00047	0.0660 mg/L	0.00047	0.71%
QC value within limits for Sodium Recovery = Not calculated						
Magnesium†	92.8	0.0004 mg/L	0.00009	0.0004 mg/L	0.00009	20.61%
QC value within limits for Magnesium Recovery = Not calculated						
Iron†	14.5	-0.0026 mg/L	0.00024	-0.0026 mg/L	0.00024	8.94%
QC value within limits for Iron Recovery = Not calculated						
Calcium†	6940.5	0.0589 mg/L	0.00040	0.0589 mg/L	0.00040	0.69%
QC value within limits for Calcium Recovery = Not calculated						
Potassium†	-226.8	0.0992 mg/L	0.00128	0.0992 mg/L	0.00128	1.29%
QC value within limits for Potassium Recovery = Not calculated						
Aluminum radial†	-1.2	-0.0017 mg/L	0.00393	-0.0017 mg/L	0.00393	233.90%
QC value within limits for Aluminum radial Recovery = Not calculated						
Calcium radial†	372.8	0.0647 mg/L	0.00242	0.0647 mg/L	0.00242	3.74%
QC value within limits for Calcium radial Recovery = Not calculated						
Iron radial†	2.1	-0.0051 mg/L	0.00173	-0.0051 mg/L	0.00173	33.67%
QC value within limits for Iron radial Recovery = Not calculated						
Magnesium radial†	8.8	-0.0039 mg/L	0.00052	-0.0039 mg/L	0.00052	13.11%
QC value within limits for Magnesium radial Recovery = Not calculated						
Sodium radial†	-50.0	-0.0430 mg/L	0.00406	-0.0430 mg/L	0.00406	9.44%
QC value within limits for Sodium radial Recovery = Not calculated						
Potassium radial†	-10.2	-0.0563 mg/L	0.02390	-0.0563 mg/L	0.02390	42.42%
QC value within limits for Potassium radial Recovery = Not calculated						
Stonrium radial†	43.1	-0.0023 mg/L	0.00005	-0.0023 mg/L	0.00005	2.31%
QC value within limits for Stonrium radial Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 4 **Autosampler Location: 1**
Sample ID: CCV **Date Collected: 3/7/2011 10:46:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	163.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	583806.9	96.58	%	0.240				0.25%
Aluminum†	18376.7	0.4893	mg/L	0.00511	0.4893	mg/L	0.00511	1.04%
QC value within limits for Aluminum Recovery = 97.85%								
Antimony†	346.1	0.4897	mg/L	0.00606	0.4897	mg/L	0.00606	1.24%
QC value within limits for Antimony Recovery = 97.94%								
Arsenic†	319.8	0.5114	mg/L	0.00480	0.5114	mg/L	0.00480	0.94%
QC value within limits for Arsenic Recovery = 102.27%								
Barium†	25655.4	0.5022	mg/L	0.00364	0.5022	mg/L	0.00364	0.72%
QC value within limits for Barium Recovery = 100.44%								
Beryllium†	844757.5	0.5020	mg/L	0.00266	0.5020	mg/L	0.00266	0.53%
QC value within limits for Beryllium Recovery = 100.39%								
Boron†	10468.2	0.5040	mg/L	0.00472	0.5040	mg/L	0.00472	0.94%
QC value within limits for Boron Recovery = 100.80%								
Cadmium†	7310.2	0.4801	mg/L	0.00351	0.4801	mg/L	0.00351	0.73%
QC value within limits for Cadmium Recovery = 96.01%								
Chromium†	31206.6	0.5017	mg/L	0.00393	0.5017	mg/L	0.00393	0.78%
QC value within limits for Chromium Recovery = 100.33%								
Cobalt†	6069.6	0.4892	mg/L	0.00649	0.4892	mg/L	0.00649	1.33%
QC value within limits for Cobalt Recovery = 97.85%								
Copper†	46056.8	0.4979	mg/L	0.00328	0.4979	mg/L	0.00328	0.66%
QC value within limits for Copper Recovery = 99.57%								
Lithium†	2900659.9	0.4920	mg/L	0.00325	0.4920	mg/L	0.00325	0.66%
QC value within limits for Lithium Recovery = 98.40%								
Manganese†	194960.2	0.5029	mg/L	0.00352	0.5029	mg/L	0.00352	0.70%
QC value within limits for Manganese Recovery = 100.58%								

Molybdenum†	2929.1	0.4944 mg/L	0.00484	0.4944 mg/L	0.00484	0.98%
QC value within limits for Molybdenum Recovery = 98.88%						
Nickel†	6458.2	0.4902 mg/L	0.00424	0.4902 mg/L	0.00424	0.86%
QC value within limits for Nickel Recovery = 98.05%						
Lead†	838.2	0.4992 mg/L	0.00469	0.4992 mg/L	0.00469	0.94%
QC value within limits for Lead Recovery = 99.83%						
Selenium†	194.3	0.5073 mg/L	0.00294	0.5073 mg/L	0.00294	0.58%
QC value within limits for Selenium Recovery = 101.46%						
Silver†	60318.0	0.5044 mg/L	0.00345	0.5044 mg/L	0.00345	0.68%
QC value within limits for Silver Recovery = 100.87%						
Strontium†	2922278.6	0.2490 mg/L	0.00102	0.2490 mg/L	0.00102	0.41%
QC value within limits for Strontium Recovery = 99.62%						
Tin†	408.3	0.4953 mg/L	0.01106	0.4953 mg/L	0.01106	2.23%
QC value within limits for Tin Recovery = 99.06%						
Thallium†	714.6	0.4957 mg/L	0.00675	0.4957 mg/L	0.00675	1.36%
QC value within limits for Thallium Recovery = 99.15%						
Titanium†	109356.0	0.4943 mg/L	0.00595	0.4943 mg/L	0.00595	1.20%
QC value within limits for Titanium Recovery = 98.87%						
Vanadium†	32572.1	0.5015 mg/L	0.00345	0.5015 mg/L	0.00345	0.69%
QC value within limits for Vanadium Recovery = 100.30%						
Zinc†	4777.9	0.4900 mg/L	0.00525	0.4900 mg/L	0.00525	1.07%
QC value within limits for Zinc Recovery = 98.01%						
Argon	3961825.6	96.46 mg/L	0.465	96.46 mg/L	0.465	0.48%
Sodium†	971362.1	4.767 mg/L	0.0262	4.767 mg/L	0.0262	0.55%
QC value within limits for Sodium Recovery = 95.34%						
Magnesium†	99902.9	0.4984 mg/L	0.00305	0.4984 mg/L	0.00305	0.61%
QC value within limits for Magnesium Recovery = 99.69%						
Iron†	18708.9	0.5054 mg/L	0.00473	0.5054 mg/L	0.00473	0.94%
QC value within limits for Iron Recovery = 101.08%						
Calcium†	56704.4	0.4960 mg/L	0.00415	0.4960 mg/L	0.00415	0.84%
QC value within limits for Calcium Recovery = 99.21%						
Potassium†	425340.6	4.788 mg/L	0.0204	4.788 mg/L	0.0204	0.43%
QC value within limits for Potassium Recovery = 95.75%						
Aluminum radial†	895.7	0.4985 mg/L	0.00193	0.4985 mg/L	0.00193	0.39%
QC value within limits for Aluminum radial Recovery = 99.70%						
Calcium radial†	2663.3	0.5046 mg/L	0.00331	0.5046 mg/L	0.00331	0.66%
QC value within limits for Calcium radial Recovery = 100.93%						
Iron radial†	793.7	0.5150 mg/L	0.00213	0.5150 mg/L	0.00213	0.41%
QC value within limits for Iron radial Recovery = 103.00%						
Magnesium radial†	4602.0	0.5051 mg/L	0.00062	0.5051 mg/L	0.00062	0.12%
QC value within limits for Magnesium radial Recovery = 101.02%						
Sodium radial†	18778.1	5.059 mg/L	0.0543	5.059 mg/L	0.0543	1.07%
QC value within limits for Sodium radial Recovery = 101.19%						
Potassium radial†	3276.4	5.092 mg/L	0.0211	5.092 mg/L	0.0211	0.41%
QC value within limits for Potassium radial Recovery = 101.84%						
Stonrium radial†	132797.9	0.2550 mg/L	0.00310	0.2550 mg/L	0.00310	1.21%
QC value within limits for Stonrium radial Recovery = 102.02%						

All analyte(s) passed QC.

Sequence No.: 5
Sample ID: LLCCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 101
Date Collected: 3/7/2011 10:48:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Yttrium	561052.8	92.82	%	1.024				1.10%
Aluminum†	3495.6	0.0869	mg/L	0.00092	0.0869	mg/L	0.00092	1.06%
Antimony†	11.7	0.0163	mg/L	0.00473	0.0163	mg/L	0.00473	29.07%
Arsenic†	14.5	0.0180	mg/L	0.00122	0.0180	mg/L	0.00122	6.77%
Barium†	497.4	0.0079	mg/L	0.00007	0.0079	mg/L	0.00007	0.87%
Beryllium†	16725.0	0.0078	mg/L	0.00016	0.0078	mg/L	0.00016	2.05%
Boron†	632.3	0.0301	mg/L	0.00074	0.0301	mg/L	0.00074	2.44%

Cadmium†	156.9	0.0086 mg/L	0.00052	0.0086 mg/L	0.00052	6.04%
Chromium†	601.1	0.0078 mg/L	0.00030	0.0078 mg/L	0.00030	3.78%
Cobalt†	113.4	0.0067 mg/L	0.00035	0.0067 mg/L	0.00035	5.26%
Copper†	1022.9	0.0095 mg/L	0.00108	0.0095 mg/L	0.00108	11.35%
Lithium†	110002.4	0.0185 mg/L	0.00017	0.0185 mg/L	0.00017	0.90%
Manganese†	3792.1	0.0077 mg/L	0.00004	0.0077 mg/L	0.00004	0.49%
Molybdenum†	47.4	0.0046 mg/L	0.00067	0.0046 mg/L	0.00067	14.51%
Nickel†	129.4	0.0077 mg/L	0.00062	0.0077 mg/L	0.00062	8.06%
Lead†	13.5	0.0059 mg/L	0.00220	0.0059 mg/L	0.00220	37.23%
Selenium†	7.0	0.0160 mg/L	0.00358	0.0160 mg/L	0.00358	22.37%
Silver†	1045.2	0.0091 mg/L	0.00048	0.0091 mg/L	0.00048	5.24%
Strontium†	120526.6	0.0090 mg/L	0.00011	0.0090 mg/L	0.00011	1.17%
Tin†	21.4	0.0195 mg/L	0.00244	0.0195 mg/L	0.00244	12.52%
Thallium†	63.1	0.0396 mg/L	0.00489	0.0396 mg/L	0.00489	12.33%
Titanium†	2198.3	0.0079 mg/L	0.00027	0.0079 mg/L	0.00027	3.39%
Vanadium†	1259.0	0.0187 mg/L	0.00155	0.0187 mg/L	0.00155	8.33%
Zinc†	203.0	0.0185 mg/L	0.00025	0.0185 mg/L	0.00025	1.38%
Argon	3836713.0	93.41 mg/L	0.612	93.41 mg/L	0.612	0.66%
Sodium†	82888.0	0.4776 mg/L	0.00304	0.4776 mg/L	0.00304	0.64%
Magnesium†	19363.1	0.0966 mg/L	0.00087	0.0966 mg/L	0.00087	0.90%
Iron†	3680.6	0.0970 mg/L	0.00044	0.0970 mg/L	0.00044	0.46%
Calcium†	25447.6	0.2215 mg/L	0.00254	0.2215 mg/L	0.00254	1.15%
Potassium†	34481.9	0.4816 mg/L	0.00359	0.4816 mg/L	0.00359	0.75%
Aluminum radial†	152.5	0.0840 mg/L	0.00700	0.0840 mg/L	0.00700	8.32%
Calcium radial†	1212.1	0.2259 mg/L	0.00586	0.2259 mg/L	0.00586	2.59%
Iron radial†	156.1	0.0960 mg/L	0.00134	0.0960 mg/L	0.00134	1.39%
Magnesium radial†	925.6	0.0977 mg/L	0.00212	0.0977 mg/L	0.00212	2.17%
Sodium radial†	1884.9	0.4813 mg/L	0.00387	0.4813 mg/L	0.00387	0.80%
Potassium radial†	326.9	0.4716 mg/L	0.04905	0.4716 mg/L	0.04905	10.40%
Stonrium radial†	5769.5	0.0088 mg/L	0.00058	0.0088 mg/L	0.00058	6.63%

Sequence No.: 6 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 3/7/2011 10:50:46 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	599658.2	99.20	%	2.252				2.27%
Aluminum†	1351.4	0.0289	mg/L	0.00106	0.0289	mg/L	0.00106	3.67%
QC value within limits for Aluminum Recovery = Not calculated								
Antimony†	2.0	0.0024	mg/L	0.00312	0.0024	mg/L	0.00312	129.45%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	2.5	-0.0012	mg/L	0.00200	-0.0012	mg/L	0.00200	165.85%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	-0.1	-0.0018	mg/L	0.00010	-0.0018	mg/L	0.00010	5.20%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	73.6	-0.0021	mg/L	0.00003	-0.0021	mg/L	0.00003	1.23%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	13.5	0.0003	mg/L	0.00035	0.0003	mg/L	0.00035	123.26%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	-5.8	-0.0019	mg/L	0.00022	-0.0019	mg/L	0.00022	11.25%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	-23.2	-0.0022	mg/L	0.00035	-0.0022	mg/L	0.00035	15.72%
QC value within limits for Chromium Recovery = Not calculated								
Cobalt†	-6.0	-0.0030	mg/L	0.00016	-0.0030	mg/L	0.00016	5.54%
QC value within limits for Cobalt Recovery = Not calculated								
Copper†	-47.3	-0.0021	mg/L	0.00023	-0.0021	mg/L	0.00023	11.18%
QC value within limits for Copper Recovery = Not calculated								
Lithium†	34.1	-0.0002	mg/L	0.00001	-0.0002	mg/L	0.00001	6.24%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	-59.9	-0.0023	mg/L	0.00003	-0.0023	mg/L	0.00003	1.45%
QC value within limits for Manganese Recovery = Not calculated								

Molybdenum†	-6.8	-0.0046 mg/L	0.00032	-0.0046 mg/L	0.00032	6.96%
QC value within limits for Molybdenum Recovery = Not calculated						
Nickel†	-10.6	-0.0030 mg/L	0.00073	-0.0030 mg/L	0.00073	24.61%
QC value within limits for Nickel Recovery = Not calculated						
Lead†	-8.0	-0.0070 mg/L	0.00257	-0.0070 mg/L	0.00257	36.94%
QC value within limits for Lead Recovery = Not calculated						
Selenium†	-0.5	-0.0037 mg/L	0.00709	-0.0037 mg/L	0.00709	189.63%
QC value within limits for Selenium Recovery = Not calculated						
Silver†	23.3	0.0005 mg/L	0.00049	0.0005 mg/L	0.00049	97.74%
QC value within limits for Silver Recovery = Not calculated						
Strontium†	-345.0	-0.0014 mg/L	0.00001	-0.0014 mg/L	0.00001	0.36%
QC value within limits for Strontium Recovery = Not calculated						
Tin†	3.5	-0.0025 mg/L	0.00225	-0.0025 mg/L	0.00225	88.52%
QC value within limits for Tin Recovery = Not calculated						
Thallium†	7.8	0.0009 mg/L	0.00168	0.0009 mg/L	0.00168	185.66%
QC value within limits for Thallium Recovery = Not calculated						
Titanium†	-32.7	-0.0022 mg/L	0.00009	-0.0022 mg/L	0.00009	4.13%
QC value within limits for Titanium Recovery = Not calculated						
Vanadium†	-193.3	-0.0037 mg/L	0.00122	-0.0037 mg/L	0.00122	32.93%
QC value within limits for Vanadium Recovery = Not calculated						
Zinc†	-7.0	-0.0031 mg/L	0.00027	-0.0031 mg/L	0.00027	8.46%
QC value within limits for Zinc Recovery = Not calculated						
Argon	3798237.4	92.47 mg/L	0.542	92.47 mg/L	0.542	0.59%
Sodium†	-2662.9	0.0646 mg/L	0.00010	0.0646 mg/L	0.00010	0.15%
QC value within limits for Sodium Recovery = Not calculated						
Magnesium†	-67.7	-0.0004 mg/L	0.00020	-0.0004 mg/L	0.00020	56.47%
QC value within limits for Magnesium Recovery = Not calculated						
Iron†	-12.2	-0.0034 mg/L	0.00024	-0.0034 mg/L	0.00024	7.18%
QC value within limits for Iron Recovery = Not calculated						
Calcium†	-4.6	-0.0021 mg/L	0.00085	-0.0021 mg/L	0.00085	40.44%
QC value within limits for Calcium Recovery = Not calculated						
Potassium†	-482.5	0.0964 mg/L	0.00083	0.0964 mg/L	0.00083	0.87%
QC value within limits for Potassium Recovery = Not calculated						
Aluminum radial†	45.3	0.0243 mg/L	0.00756	0.0243 mg/L	0.00756	31.17%
QC value within limits for Aluminum radial Recovery = Not calculated						
Calcium radial†	2.5	-0.0064 mg/L	0.00458	-0.0064 mg/L	0.00458	71.50%
QC value within limits for Calcium radial Recovery = Not calculated						
Iron radial†	-5.9	-0.0104 mg/L	0.00155	-0.0104 mg/L	0.00155	14.91%
QC value within limits for Iron radial Recovery = Not calculated						
Magnesium radial†	-1.2	-0.0050 mg/L	0.00070	-0.0050 mg/L	0.00070	13.88%
QC value within limits for Magnesium radial Recovery = Not calculated						
Sodium radial†	-61.6	-0.0462 mg/L	0.00462	-0.0462 mg/L	0.00462	10.01%
QC value within limits for Sodium radial Recovery = Not calculated						
Potassium radial†	9.6	-0.0254 mg/L	0.01624	-0.0254 mg/L	0.01624	63.83%
QC value within limits for Potassium radial Recovery = Not calculated						
Stonrium radial†	16.2	-0.0024 mg/L	0.00009	-0.0024 mg/L	0.00009	3.59%
QC value within limits for Stonrium radial Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 3/7/2011 10:53:03 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Yttrium	549907.7	90.97	%	1.240				1.36%
Aluminum†	19606162.5	530.1	mg/L	13.76	530.1	mg/L	13.76	2.59%
Antimony†	-22.2	0.0048	mg/L	0.01066	0.0048	mg/L	0.01066	222.39%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	32.5	0.0298	mg/L	0.01046	0.0298	mg/L	0.01046	35.14%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	446.4	0.0069	mg/L	0.00016	0.0069	mg/L	0.00016	2.33%

QC value within limits for Barium Recovery = Not calculated

Beryllium†	1173.4	-0.0014 mg/L	0.00002	-0.0014 mg/L	0.00002	1.27%

QC value within limits for Beryllium Recovery = Not calculated

Boron†	-220.9	0.0130 mg/L	0.00148	0.0130 mg/L	0.00148	11.33%

QC value within limits for Boron Recovery = Not calculated

Cadmium†	16.9	-0.0014 mg/L	0.00045	-0.0014 mg/L	0.00045	32.99%

QC value within limits for Cadmium Recovery = Not calculated

Chromium†	9.2	-0.0017 mg/L	0.00020	-0.0017 mg/L	0.00020	11.62%

QC value within limits for Chromium Recovery = Not calculated

Cobalt†	60.3	0.0024 mg/L	0.00098	0.0024 mg/L	0.00098	40.18%

QC value within limits for Cobalt Recovery = Not calculated

Copper†	-1251.2	-0.0063 mg/L	0.00042	-0.0063 mg/L	0.00042	6.71%

QC value within limits for Copper Recovery = Not calculated

Lithium†	3356.7	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	1.73%

QC value within limits for Lithium Recovery = Not calculated

Manganese†	4541.1	0.0096 mg/L	0.00005	0.0096 mg/L	0.00005	0.51%

QC value within limits for Manganese Recovery = Not calculated

Molybdenum†	-120.2	-0.0037 mg/L	0.00195	-0.0037 mg/L	0.00195	52.45%

QC value within limits for Molybdenum Recovery = Not calculated

Nickel†	26.4	-0.0002 mg/L	0.00133	-0.0002 mg/L	0.00133	848.68%

QC value within limits for Nickel Recovery = Not calculated

Lead†	-35.7	-0.0031 mg/L	0.00293	-0.0031 mg/L	0.00293	94.00%

QC value within limits for Lead Recovery = Not calculated

Selenium†	-80.6	-0.0189 mg/L	0.01693	-0.0189 mg/L	0.01693	89.49%

QC value within limits for Selenium Recovery = Not calculated

Silver†	2139.9	0.0034 mg/L	0.00076	0.0034 mg/L	0.00076	22.11%

QC value within limits for Silver Recovery = Not calculated

Strontium†	20409.4	-0.0130 mg/L	0.00015	-0.0130 mg/L	0.00015	1.13%

QC value within limits for Strontium Recovery = Not calculated

Tin†	-56.2	-0.0205 mg/L	0.00405	-0.0205 mg/L	0.00405	19.73%

QC value within limits for Tin Recovery = Not calculated

Thallium†	21.7	0.0106 mg/L	0.00610	0.0106 mg/L	0.00610	57.40%

QC value within limits for Thallium Recovery = Not calculated

Titanium†	-2189.5	-0.0120 mg/L	0.00016	-0.0120 mg/L	0.00016	1.29%

QC value within limits for Titanium Recovery = Not calculated

Vanadium†	7823.5	-0.0177 mg/L	0.00172	-0.0177 mg/L	0.00172	9.71%

QC value within limits for Vanadium Recovery = Not calculated

Zinc†	63.4	0.0041 mg/L	0.00150	0.0041 mg/L	0.00150	36.57%

QC value within limits for Zinc Recovery = Not calculated

Argon	3512088.4	85.51 mg/L	0.268	85.51 mg/L	0.268	0.31%
Sodium†	8829.7	0.1201 mg/L	0.00069	0.1201 mg/L	0.00069	0.58%

QC value within limits for Sodium Recovery = Not calculated

Magnesium†	66657980.7	332.6 mg/L	6.68	332.6 mg/L	6.68	2.01%
Iron†	14009212.2	380.7 mg/L	8.55	380.7 mg/L	8.55	2.25%
Calcium†	54259668.2	476.6 mg/L	11.93	476.6 mg/L	11.93	2.50%
Potassium†	1059.4	0.1134 mg/L	0.00061	0.1134 mg/L	0.00061	0.54%
Aluminum radial†	971375.7	541.7 mg/L	7.00	541.7 mg/L	7.00	1.29%

QC value within limits for Aluminum radial Recovery = 108.35%

Calcium radial†	2708403.6	520.2 mg/L	6.95	520.2 mg/L	6.95	1.34%

QC value within limits for Calcium radial Recovery = 104.03%

Iron radial†	776267.9	510.0 mg/L	6.74	510.0 mg/L	6.74	1.32%

QC value within limits for Iron radial Recovery = 102.01%

Magnesium radial†	4389010.4	486.4 mg/L	6.19	486.4 mg/L	6.19	1.27%

QC value within limits for Magnesium radial Recovery = 97.28%

Sodium radial†	81.2	-0.0075 mg/L	0.01954	-0.0075 mg/L	0.01954	261.05%

QC value within limits for Sodium radial Recovery = Not calculated

Potassium radial†	37.6	0.0185 mg/L	0.08260	0.0185 mg/L	0.08260	445.37%

QC value within limits for Potassium radial Recovery = Not calculated

Stonrium radial†	1029.1	-0.0004 mg/L	0.00002	-0.0004 mg/L	0.00002	3.70%

QC value within limits for Stonrium radial Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location: 10**
Sample ID: ICSAB **Date Collected: 3/7/2011 10:54:49 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow

All 164.0 kPa 0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	546271.9	90.37	%	0.951				1.05%
Aluminum†	19445158.8	525.8	mg/L	6.33	525.8	mg/L	6.33	1.20%
Antimony†	7194.5	10.36	mg/L	0.043	10.36	mg/L	0.043	0.42%
QC value within limits for Antimony Recovery = 103.61%								
Arsenic†	6733.9	10.82	mg/L	0.068	10.82	mg/L	0.068	0.63%
QC value within limits for Arsenic Recovery = 108.17%								
Barium†	153988.7	3.024	mg/L	0.0009	3.024	mg/L	0.0009	0.03%
QC value within limits for Barium Recovery = 100.78%								
Beryllium†	1767777.3	1.053	mg/L	0.0139	1.053	mg/L	0.0139	1.32%
QC value within limits for Beryllium Recovery = 105.28%								
Boron†	110023.1	5.324	mg/L	0.0184	5.324	mg/L	0.0184	0.35%
QC value within limits for Boron Recovery = 106.48%								
Cadmium†	49755.1	3.122	mg/L	0.0201	3.122	mg/L	0.0201	0.65%
QC value within limits for Cadmium Recovery = 104.05%								
Chromium†	182258.3	2.939	mg/L	0.0074	2.939	mg/L	0.0074	0.25%
QC value within limits for Chromium Recovery = 97.96%								
Cobalt†	34912.2	2.811	mg/L	0.0174	2.811	mg/L	0.0174	0.62%
QC value within limits for Cobalt Recovery = 93.70%								
Copper†	298155.8	3.240	mg/L	0.0181	3.240	mg/L	0.0181	0.56%
QC value within limits for Copper Recovery = 108.01%								
Lithium†	3164.9	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	3.50%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	772975.3	2.000	mg/L	0.0052	2.000	mg/L	0.0052	0.26%
QC value within limits for Manganese Recovery = 100.01%								
Molybdenum†	17772.4	3.037	mg/L	0.0172	3.037	mg/L	0.0172	0.57%
QC value within limits for Molybdenum Recovery = 101.24%								
Nickel†	36094.4	2.750	mg/L	0.0184	2.750	mg/L	0.0184	0.67%
QC value within limits for Nickel Recovery = 91.66%								
Lead†	16382.2	9.815	mg/L	0.0454	9.815	mg/L	0.0454	0.46%
QC value within limits for Lead Recovery = 98.15%								
Selenium†	1979.9	5.382	mg/L	0.0369	5.382	mg/L	0.0369	0.68%
QC value within limits for Selenium Recovery = 107.65%								
Silver†	383588.2	3.191	mg/L	0.0475	3.191	mg/L	0.0475	1.49%
QC value within limits for Silver Recovery = 106.35%								
Strontium†	5756495.8	0.4786	mg/L	0.00778	0.4786	mg/L	0.00778	1.63%
QC value within limits for Strontium Recovery = 95.72%								
Tin†	348.7	0.4770	mg/L	0.00678	0.4770	mg/L	0.00678	1.42%
QC value within limits for Tin Recovery = 95.40%								
Thallium†	13633.4	9.540	mg/L	0.0730	9.540	mg/L	0.0730	0.76%
QC value within limits for Thallium Recovery = 95.40%								
Titanium†	2244262.9	10.19	mg/L	0.151	10.19	mg/L	0.151	1.48%
QC value within limits for Titanium Recovery = 101.85%								
Vanadium†	210039.4	3.102	mg/L	0.0113	3.102	mg/L	0.0113	0.37%
QC value within limits for Vanadium Recovery = 103.39%								
Zinc†	26580.9	2.737	mg/L	0.0134	2.737	mg/L	0.0134	0.49%
QC value within limits for Zinc Recovery = 91.24%								
Argon	3513503.7	85.54	mg/L	0.184	85.54	mg/L	0.184	0.21%
Sodium†	20198429.3	97.59	mg/L	2.614	97.59	mg/L	2.614	2.68%
Magnesium†	66917026.7	333.9	mg/L	4.01	333.9	mg/L	4.01	1.20%
Iron†	14024086.7	381.1	mg/L	4.72	381.1	mg/L	4.72	1.24%
Calcium†	54124440.4	475.4	mg/L	6.03	475.4	mg/L	6.03	1.27%
Potassium†	30876721.9	340.3	mg/L	5.11	340.3	mg/L	5.11	1.50%
Aluminum radial†	969840.3	540.9	mg/L	7.26	540.9	mg/L	7.26	1.34%
QC value within limits for Aluminum radial Recovery = 108.17%								
Calcium radial†	2691954.5	517.0	mg/L	5.29	517.0	mg/L	5.29	1.02%
QC value within limits for Calcium radial Recovery = 103.40%								
Iron radial†	773229.1	508.0	mg/L	5.33	508.0	mg/L	5.33	1.05%
QC value within limits for Iron radial Recovery = 101.61%								
Magnesium radial†	4382299.0	485.7	mg/L	7.73	485.7	mg/L	7.73	1.59%
QC value within limits for Magnesium radial Recovery = 97.13%								
Sodium radial†	203143.4	55.02	mg/L	0.989	55.02	mg/L	0.989	1.80%
QC value within limits for Sodium radial Recovery = 110.05%								
Potassium radial†	148357.5	232.4	mg/L	3.95	232.4	mg/L	3.95	1.70%
QC value within limits for Potassium radial Recovery = 116.18%								
Stonrium radial†	281362.9	0.5431	mg/L	0.00954	0.5431	mg/L	0.00954	1.76%
QC value within limits for Stonrium radial Recovery = 108.61%								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: RINSE BLANK
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 102
Date Collected: 3/7/2011 10:56:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: RINSE BLANK

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	603367.1	99.82	%	0.687				0.69%
Aluminumt	66243.6	1.784	mg/L	1.9454	1.784	mg/L	1.9454	109.07%
Antimonyt	16.9	0.0246	mg/L	0.01661	0.0246	mg/L	0.01661	67.65%
Arsenict	15.3	0.0194	mg/L	0.01867	0.0194	mg/L	0.01867	96.00%
Bariumt	288.6	0.0038	mg/L	0.00580	0.0038	mg/L	0.00580	150.95%
Berylliumt	5102.8	0.0009	mg/L	0.00321	0.0009	mg/L	0.00321	353.75%
Boront	575.7	0.0279	mg/L	0.01670	0.0279	mg/L	0.01670	59.84%
Cadmiumt	72.3	0.0029	mg/L	0.00529	0.0029	mg/L	0.00529	181.47%
Chromiumt	561.6	0.0072	mg/L	0.00911	0.0072	mg/L	0.00911	126.52%
Cobaltt	60.6	0.0024	mg/L	0.00600	0.0024	mg/L	0.00600	250.66%
Coppert	745.7	0.0067	mg/L	0.00907	0.0067	mg/L	0.00907	135.19%
Lithiumt	286.4	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	10.92%
Manganeset	2344.3	0.0039	mg/L	0.00648	0.0039	mg/L	0.00648	166.02%
Molybdenumt	30.4	0.0022	mg/L	0.00518	0.0022	mg/L	0.00518	237.94%
Nickelt	67.5	0.0030	mg/L	0.00644	0.0030	mg/L	0.00644	216.18%
Leadt	24.0	0.0126	mg/L	0.02087	0.0126	mg/L	0.02087	165.47%
Seleniumt	2.1	0.0074	mg/L	0.01209	0.0074	mg/L	0.01209	162.68%
Silvert	3378.6	0.0281	mg/L	0.01242	0.0281	mg/L	0.01242	44.21%
Strontiumt	20526.0	0.0001	mg/L	0.00194	0.0001	mg/L	0.00194	>999.9%
Tint	1.3	-0.0042	mg/L	0.00145	-0.0042	mg/L	0.00145	34.81%
Thalliumt	28.4	0.0153	mg/L	0.01238	0.0153	mg/L	0.01238	80.84%
Titaniumt	6223.4	0.0262	mg/L	0.03017	0.0262	mg/L	0.03017	115.23%
Vanadiumt	527.2	0.0046	mg/L	0.01047	0.0046	mg/L	0.01047	226.60%
Zinct	50.5	0.0028	mg/L	0.00625	0.0028	mg/L	0.00625	223.68%
Argon	3878460.0	94.43	mg/L	0.126	94.43	mg/L	0.126	0.13%
Sodiumt	26153.1	0.2037	mg/L	0.16410	0.2037	mg/L	0.16410	80.55%
Magnesiumt	359302.2	1.793	mg/L	1.9779	1.793	mg/L	1.9779	110.33%
Iront	67135.8	1.821	mg/L	1.9821	1.821	mg/L	1.9821	108.82%
Calciumt	201945.4	1.772	mg/L	1.9536	1.772	mg/L	1.9536	110.26%
Potassiumt	48927.7	0.6408	mg/L	0.63010	0.6408	mg/L	0.63010	98.34%
Aluminum radialt	19788.6	11.04	mg/L	1.372	11.04	mg/L	1.372	12.43%
Calcium radialt	55955.6	10.74	mg/L	1.323	10.74	mg/L	1.323	12.32%
Iron radialt	17457.0	11.46	mg/L	1.381	11.46	mg/L	1.381	12.05%
Magnesium radialt	99907.2	11.07	mg/L	1.366	11.07	mg/L	1.366	12.35%
Sodium radialt	3526.8	0.9263	mg/L	0.13427	0.9263	mg/L	0.13427	14.50%
Potassium radialt	2384.2	3.694	mg/L	0.3936	3.694	mg/L	0.3936	10.65%
Stonrium radialt	5653.8	0.0086	mg/L	0.00136	0.0086	mg/L	0.00136	15.87%

Sequence No.: 10
Sample ID: RINSE BLANK
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 103
Date Collected: 3/7/2011 10:58:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: RINSE BLANK

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Stonrium radial† -199.6 -0.0028 mg/L 0.00006 -0.0028 mg/L 0.00006 2.01%
QC value less than the lower limit for Stonrium radial Recovery = -1.12%
Internal Standard Check failed. Continue with analysis.
QC Failed. Continue with analysis.

3-7-11 SW missed sample.

==========

Sequence No.: 30
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
User canceled analysis.

Autosampler Location: 2
Date Collected: 3/7/2011 11:40:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

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Analysis Begun

Start Time: 3/7/2011 11:41:17 AM
Logged In Analyst: LAFMETALS
Spectrometer Model: Optima 7300 DV, S/N 077C0052103

Plasma On Time: 3/7/2011 9:19:25 AM
Technique: ICP Continuous
Autosampler Model: Cetac

Sample Information File: C:\pe\lafmetals\Sample Information\6010 200.7.sif
Batch ID:
Results Data Set: 1103071020DV
Results Library: C:\pe\lafmetals\Results\Results.mdb

==========

Sequence No.: 29
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 3/7/2011 11:41:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	533731.2	88.30	%	1.442				1.63%
Aluminum†	18610.3	0.4956	mg/L	0.00688	0.4956	mg/L	0.00688	1.39%
QC value within limits for Aluminum Recovery = 99.12%								
Antimony†	348.3	0.4930	mg/L	0.01424	0.4930	mg/L	0.01424	2.89%
QC value within limits for Antimony Recovery = 98.59%								
Arsenic†	321.7	0.5145	mg/L	0.01261	0.5145	mg/L	0.01261	2.45%
QC value within limits for Arsenic Recovery = 102.89%								
Barium†	25180.2	0.4929	mg/L	0.00911	0.4929	mg/L	0.00911	1.85%
QC value within limits for Barium Recovery = 98.58%								
Beryllium†	836162.3	0.4968	mg/L	0.00333	0.4968	mg/L	0.00333	0.67%
QC value within limits for Beryllium Recovery = 99.37%								
Boron†	10352.0	0.4984	mg/L	0.00883	0.4984	mg/L	0.00883	1.77%
QC value within limits for Boron Recovery = 99.68%								
Cadmium†	7571.3	0.4975	mg/L	0.00733	0.4975	mg/L	0.00733	1.47%
QC value within limits for Cadmium Recovery = 99.51%								
Chromium†	30958.5	0.4977	mg/L	0.00868	0.4977	mg/L	0.00868	1.74%
QC value within limits for Chromium Recovery = 99.53%								
Cobalt†	6190.8	0.4991	mg/L	0.00689	0.4991	mg/L	0.00689	1.38%
QC value within limits for Cobalt Recovery = 99.82%								
Copper†	46844.7	0.5064	mg/L	0.00834	0.5064	mg/L	0.00834	1.65%
QC value within limits for Copper Recovery = 101.28%								
Lithium†	2929294.7	0.4968	mg/L	0.01596	0.4968	mg/L	0.01596	3.21%
QC value within limits for Lithium Recovery = 99.37%								
Manganese†	193696.4	0.4996	mg/L	0.00737	0.4996	mg/L	0.00737	1.47%
QC value within limits for Manganese Recovery = 99.92%								
Molybdenum†	3018.3	0.5096	mg/L	0.01155	0.5096	mg/L	0.01155	2.27%
QC value within limits for Molybdenum Recovery = 101.91%								
Nickel†	6581.2	0.4996	mg/L	0.00882	0.4996	mg/L	0.00882	1.76%
QC value within limits for Nickel Recovery = 99.92%								
Lead†	843.4	0.5023	mg/L	0.00800	0.5023	mg/L	0.00800	1.59%
QC value within limits for Lead Recovery = 100.45%								

Seleniumt	192.7	0.5031 mg/L	0.02074	0.5031 mg/L	0.02074	4.12%
QC value within limits for Selenium Recovery = 100.62%						
Silvert	61354.7	0.5130 mg/L	0.00694	0.5130 mg/L	0.00694	1.35%
QC value within limits for Silver Recovery = 102.59%						
Strontiumt	2964991.7	0.2527 mg/L	0.00794	0.2527 mg/L	0.00794	3.14%
QC value within limits for Strontium Recovery = 101.08%						
Tint	404.8	0.4909 mg/L	0.00688	0.4909 mg/L	0.00688	1.40%
QC value within limits for Tin Recovery = 98.19%						
Thalliumt	728.9	0.5058 mg/L	0.01415	0.5058 mg/L	0.01415	2.80%
QC value within limits for Thallium Recovery = 101.16%						
Titaniumt	107189.0	0.4845 mg/L	0.00542	0.4845 mg/L	0.00542	1.12%
QC value within limits for Titanium Recovery = 96.90%						
Vanadiumt	32651.7	0.5027 mg/L	0.00808	0.5027 mg/L	0.00808	1.61%
QC value within limits for Vanadium Recovery = 100.55%						
Zinct	4763.8	0.4886 mg/L	0.00824	0.4886 mg/L	0.00824	1.69%
QC value within limits for Zinc Recovery = 97.72%						
Argon	3735134.6	90.94 mg/L	0.767	90.94 mg/L	0.767	0.84%
Sodiumt	963139.6	4.727 mg/L	0.0343	4.727 mg/L	0.0343	0.73%
QC value within limits for Sodium Recovery = 94.55%						
Magnesiumt	100783.2	0.5028 mg/L	0.00710	0.5028 mg/L	0.00710	1.41%
QC value within limits for Magnesium Recovery = 100.57%						
Iront	18409.2	0.4972 mg/L	0.00776	0.4972 mg/L	0.00776	1.56%
QC value within limits for Iron Recovery = 99.45%						
Calciumt	55861.0	0.4886 mg/L	0.00883	0.4886 mg/L	0.00883	1.81%
QC value within limits for Calcium Recovery = 97.73%						
Potassiumt	427733.9	4.814 mg/L	0.0527	4.814 mg/L	0.0527	1.09%
QC value within limits for Potassium Recovery = 96.28%						
Aluminum radialt	932.4	0.5190 mg/L	0.00810	0.5190 mg/L	0.00810	1.56%
QC value within limits for Aluminum radial Recovery = 103.80%						
Calcium radialt	2623.4	0.4970 mg/L	0.00723	0.4970 mg/L	0.00723	1.46%
QC value within limits for Calcium radial Recovery = 99.39%						
Iron radialt	779.7	0.5058 mg/L	0.00473	0.5058 mg/L	0.00473	0.94%
QC value within limits for Iron radial Recovery = 101.16%						
Magnesium radialt	4724.6	0.5187 mg/L	0.00787	0.5187 mg/L	0.00787	1.52%
QC value within limits for Magnesium radial Recovery = 103.74%						
Sodium radialt	19782.1	5.332 mg/L	0.1136	5.332 mg/L	0.1136	2.13%
QC value within limits for Sodium radial Recovery = 106.63%						
Potassium radialt	3413.3	5.307 mg/L	0.1545	5.307 mg/L	0.1545	2.91%
QC value within limits for Potassium radial Recovery = 106.13%						
Stonrium radialt	137239.4	0.2637 mg/L	0.00675	0.2637 mg/L	0.00675	2.56%
QC value within limits for Stonrium radial Recovery = 105.46%						

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 3/7/2011 11:43:18 AM **Plasma On Time: 3/7/2011 9:19:25 AM**
Logged In Analyst: LAFMETALS **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0052103Autosampler Model: Cetac

Sample Information File: C:\pe\lafmetals\Sample Information\6010 200.7.sif
Batch ID:
Results Data Set: 1103071020DV
Results Library: C:\pe\lafmetals\Results\Results.mdb

Sequence No.: 30 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 3/7/2011 11:43:19 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Yttrium	524540.1	86.78 %	1.419			1.64%
Aluminum†	-159.1	-0.0119 mg/L	0.00074	-0.0119 mg/L	0.00074	6.23%
QC value within limits for Aluminum Recovery = Not calculated						
Antimony†	-5.2	-0.0080 mg/L	0.00479	-0.0080 mg/L	0.00479	59.90%
QC value within limits for Antimony Recovery = Not calculated						
Arsenic†	3.0	-0.0004 mg/L	0.00363	-0.0004 mg/L	0.00363	808.05%
QC value within limits for Arsenic Recovery = Not calculated						
Barium†	13.2	-0.0016 mg/L	0.00011	-0.0016 mg/L	0.00011	6.73%
QC value within limits for Barium Recovery = Not calculated						
Beryllium†	267.1	-0.0020 mg/L	0.00003	-0.0020 mg/L	0.00003	1.62%
QC value within limits for Beryllium Recovery = Not calculated						
Boron†	42.5	0.0017 mg/L	0.00030	0.0017 mg/L	0.00030	17.90%
QC value within limits for Boron Recovery = Not calculated						
Cadmium†	1.6	-0.0014 mg/L	0.00053	-0.0014 mg/L	0.00053	37.17%
QC value within limits for Cadmium Recovery = Not calculated						
Chromium†	-22.3	-0.0022 mg/L	0.00026	-0.0022 mg/L	0.00026	11.68%
QC value within limits for Chromium Recovery = Not calculated						
Cobalt†	-2.5	-0.0027 mg/L	0.00057	-0.0027 mg/L	0.00057	21.17%
QC value within limits for Cobalt Recovery = Not calculated						
Copper†	42.5	-0.0011 mg/L	0.00077	-0.0011 mg/L	0.00077	70.22%
QC value within limits for Copper Recovery = Not calculated						
Lithium†	419.6	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	7.09%
QC value within limits for Lithium Recovery = Not calculated						
Manganese†	-10.2	-0.0022 mg/L	0.00010	-0.0022 mg/L	0.00010	4.59%
QC value within limits for Manganese Recovery = Not calculated						
Molybdenum†	0.9	-0.0033 mg/L	0.00145	-0.0033 mg/L	0.00145	44.21%
QC value within limits for Molybdenum Recovery = Not calculated						
Nickel†	2.4	-0.0020 mg/L	0.00072	-0.0020 mg/L	0.00072	36.29%
QC value within limits for Nickel Recovery = Not calculated						
Lead†	-2.3	-0.0035 mg/L	0.00266	-0.0035 mg/L	0.00266	75.06%
QC value within limits for Lead Recovery = Not calculated						
Selenium†	2.6	0.0043 mg/L	0.00827	0.0043 mg/L	0.00827	190.64%
QC value within limits for Selenium Recovery = Not calculated						
Silver†	-132.2	-0.0008 mg/L	0.00037	-0.0008 mg/L	0.00037	47.91%
QC value within limits for Silver Recovery = Not calculated						
Strontium†	-214.1	-0.0014 mg/L	0.00001	-0.0014 mg/L	0.00001	0.76%
QC value within limits for Strontium Recovery = Not calculated						
Tin†	0.7	-0.0060 mg/L	0.00265	-0.0060 mg/L	0.00265	44.01%
QC value within limits for Tin Recovery = Not calculated						
Thallium†	-8.6	-0.0106 mg/L	0.00191	-0.0106 mg/L	0.00191	18.07%
QC value within limits for Thallium Recovery = Not calculated						
Titanium†	71.2	-0.0017 mg/L	0.00018	-0.0017 mg/L	0.00018	10.45%
QC value within limits for Titanium Recovery = Not calculated						
Vanadium†	10.4	-0.0006 mg/L	0.00043	-0.0006 mg/L	0.00043	73.76%
QC value within limits for Vanadium Recovery = Not calculated						
Zinc†	22.6	-0.0001 mg/L	0.00044	-0.0001 mg/L	0.00044	516.12%
QC value within limits for Zinc Recovery = Not calculated						
Argon	3650819.1	88.89 mg/L	0.539	88.89 mg/L	0.539	0.61%
Sodium†	-4053.5	0.0579 mg/L	0.00046	0.0579 mg/L	0.00046	0.80%
QC value within limits for Sodium Recovery = Not calculated						
Magnesium†	37.4	0.0002 mg/L	0.00018	0.0002 mg/L	0.00018	109.38%
QC value within limits for Magnesium Recovery = Not calculated						
Iron†	3.3	-0.0029 mg/L	0.00031	-0.0029 mg/L	0.00031	10.48%
QC value within limits for Iron Recovery = Not calculated						
Calcium†	-91.3	-0.0029 mg/L	0.00056	-0.0029 mg/L	0.00056	19.58%
QC value within limits for Calcium Recovery = Not calculated						
Potassium†	-764.7	0.0933 mg/L	0.00117	0.0933 mg/L	0.00117	1.25%
QC value within limits for Potassium Recovery = Not calculated						
Aluminum radial†	-3.3	-0.0028 mg/L	0.00984	-0.0028 mg/L	0.00984	346.20%
QC value within limits for Aluminum radial Recovery = Not calculated						
Calcium radial†	-4.6	-0.0078 mg/L	0.00438	-0.0078 mg/L	0.00438	56.39%
QC value within limits for Calcium radial Recovery = Not calculated						
Iron radial†	-1.2	-0.0073 mg/L	0.00356	-0.0073 mg/L	0.00356	48.73%
QC value within limits for Iron radial Recovery = Not calculated						
Magnesium radial†	4.0	-0.0045 mg/L	0.00132	-0.0045 mg/L	0.00132	29.52%
QC value within limits for Magnesium radial Recovery = Not calculated						
Sodium radial†	-72.5	-0.0491 mg/L	0.00427	-0.0491 mg/L	0.00427	8.68%
QC value within limits for Sodium radial Recovery = Not calculated						
Potassium radial†	-2.5	-0.0444 mg/L	0.03954	-0.0444 mg/L	0.03954	89.06%
QC value within limits for Potassium radial Recovery = Not calculated						
Stonrium radial†	11.6	-0.0024 mg/L	0.00008	-0.0024 mg/L	0.00008	3.28%
QC value within limits for Stonrium radial Recovery = Not calculated						

All analyte(s) passed QC.
User canceled analysis.

Zinc†	1736.1	0.1765 mg/L	0.01686	17.65 mg/kg	1.686	9.55%
Argon	3703691.5	90.17 mg/L	0.145	9017 mg/kg	14.5	0.16%
Sodium†	75678.6	0.4428 mg/L	0.03356	44.28 mg/kg	3.356	7.58%
Magnesium†	2805912.5	14.00 mg/L	1.085	1400 mg/kg	108.5	7.75%
Iron†	2870014.8	77.99 mg/L	5.660	7799 mg/kg	566.0	7.26%
Calcium†	2443254.9	21.46 mg/L	1.600	2146 mg/kg	160.0	7.45%
Potassium†	661664.2	7.391 mg/L	0.6181	739.1 mg/kg	61.81	8.36%
Aluminum radial†	24471.0	13.65 mg/L	0.939	1365 mg/kg	93.9	6.88%
Saturated within auto integration window (code 4)						
Calcium radial†	10578.3	2.025 mg/L	0.0344	202.5 mg/kg	3.44	1.70%
Saturated within auto integration window (code 4)						
Iron radial†	10707.3	7.029 mg/L	0.0876	702.9 mg/kg	8.76	1.25%
Saturated within auto integration window (code 4)						
Magnesium radial†	9743.3	1.075 mg/L	0.0138	107.5 mg/kg	1.38	1.29%
Saturated within auto integration window (code 4)						
Sodium radial†	1265.4	0.3135 mg/L	0.05611	31.35 mg/kg	5.611	17.90%
Potassium radial†	4373.0	6.810 mg/L	1.1693	681.0 mg/kg	116.93	17.17%
Stonrium radial†	13184.8	0.0232 mg/L	0.00092	2.315 mg/kg	0.0919	3.97%
Saturated within auto integration window (code 4)						

User canceled analysis.

Reanalyzed SW3-7-11

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Analysis Begun

Start Time: 3/7/2011 11:49:10 AM **Plasma On Time: 3/7/2011 9:19:25 AM**
Logged In Analyst: LAFMETALS **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0052103Autosampler Model: Cetac

Sample Information File: C:\pe\lafmetals\Sample Information\6010 200.7.sif
Batch ID:
Results Data Set: 1103071020DV
Results Library: C:\pe\lafmetals\Results\Results.mdb

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Sequence No.: 26 **Autosampler Location: 117**
Sample ID: 11021042-07A **Date Collected: 3/7/2011 11:49:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: 0.5 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Nebulizer Parameters: 11021042-07A

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: 11021042-07A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	656876.0	108.7	%	0.37				0.34%
Aluminum†	2988113.1	80.79	mg/L	0.466	8079	mg/kg	46.6	0.58%
Antimony†	-1.8	0.0024	mg/L	0.00657	0.2438	mg/kg	0.65664	269.35%
Arsenic†	34.4	0.0511	mg/L	0.00685	5.111	mg/kg	0.6845	13.39%
Barium†	70053.3	1.374	mg/L	0.0065	137.4	mg/kg	0.65	0.47%
Beryllium†	6448.0	0.0017	mg/L	0.00006	0.1711	mg/kg	0.00585	3.42%
Boron†	517.2	0.0291	mg/L	0.00232	2.907	mg/kg	0.2316	7.97%
Cadmium†	24.4	-0.0007	mg/L	0.00023	-0.0668	mg/kg	0.02276	34.05%
Chromium†	5226.1	0.0825	mg/L	0.00026	8.247	mg/kg	0.0256	0.31%
Cobalt†	772.9	0.0585	mg/L	0.00086	5.846	mg/kg	0.0860	1.47%
Copper†	6137.3	0.0654	mg/L	0.00080	6.541	mg/kg	0.0796	1.22%
Lithium†	300576.5	0.0508	mg/L	0.00037	5.080	mg/kg	0.0367	0.72%
Manganese†	1406178.6	3.641	mg/L	0.0113	364.1	mg/kg	1.13	0.31%
Molybdenum†	-27.5	-0.0043	mg/L	0.00098	-0.4338	mg/kg	0.09803	22.60%
Nickel†	1079.6	0.0801	mg/L	0.00176	8.015	mg/kg	0.1762	2.20%
Lead†	131.3	0.0794	mg/L	0.00400	7.943	mg/kg	0.3997	5.03%
Selenium†	-9.6	0.0086	mg/L	0.00195	0.8584	mg/kg	0.19495	22.71%
Silver†	-14.1	0.0009	mg/L	0.00053	0.0927	mg/kg	0.05329	57.50%
Strontium†	1729144.7	0.1462	mg/L	0.00087	14.62	mg/kg	0.087	0.59%
Tin†	-5.1	-0.0104	mg/L	0.00499	-1.045	mg/kg	0.4987	47.74%
Thallium†	-42.6	-0.0344	mg/L	0.00173	-3.437	mg/kg	0.1726	5.02%
Titanium†	198225.5	0.8977	mg/L	0.01017	89.77	mg/kg	1.017	1.13%
Vanadium†	12613.4	0.1706	mg/L	0.00087	17.06	mg/kg	0.087	0.51%

Zinc†	2048.4	0.2087 mg/L	0.00160	20.87 mg/kg	0.160	0.77%
Argon	3747132.1	91.23 mg/L	0.447	9123 mg/kg	44.7	0.49%
Sodium†	84744.7	0.4866 mg/L	0.00524	48.66 mg/kg	0.524	1.08%
Magnesium†	3123988.5	15.59 mg/L	0.060	1559 mg/kg	6.0	0.39%
Iron†	3200094.5	86.96 mg/L	0.249	8696 mg/kg	24.9	0.29%
Calcium†	2721372.4	23.90 mg/L	0.082	2390 mg/kg	8.2	0.34%
Potassium†	739774.2	8.252 mg/L	0.0739	825.2 mg/kg	7.39	0.90%
Aluminum radial†	146798.1	81.87 mg/L	0.674	8187 mg/kg	67.4	0.82%
Calcium radial†	129606.3	24.88 mg/L	0.291	2488 mg/kg	29.1	1.17%
Iron radial†	145784.2	95.78 mg/L	1.124	9578 mg/kg	112.4	1.17%
Magnesium radial†	141346.6	15.66 mg/L	0.164	1566 mg/kg	16.4	1.05%
Sodium radial†	1417.9	0.3548 mg/L	0.01832	35.48 mg/kg	1.832	5.16%
Potassium radial†	4824.3	7.517 mg/L	0.1034	751.7 mg/kg	10.34	1.38%
Stonrium radial†	81459.6	0.1555 mg/L	0.00194	15.55 mg/kg	0.194	1.25%

User canceled analysis.

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Analysis Begun

Start Time: 3/7/2011 11:50:53 AM **Plasma On Time: 3/7/2011 9:19:25 AM**
Logged In Analyst: LAFMETALS **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0052103Autosampler Model: Cetac

Sample Information File: C:\pe\lafmetals\Sample Information\6010 200.7.sif
Batch ID:
Results Data Set: 1103071020DV
Results Library: C:\pe\lafmetals\Results\Results.mdb

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Sequence No.: 25 **Autosampler Location: 116**
Sample ID: 11021042-06A **Date Collected: 3/7/2011 11:50:54 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: 0.5 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Nebulizer Parameters: 11021042-06A

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: 11021042-06A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	612408.1	101.3	%	0.43				0.43%
Aluminum†	2094639.5	56.63	mg/L	0.203	5663	mg/kg	20.3	0.36%
Antimony†	-7.4	-0.0065	mg/L	0.00255	-0.6519	mg/kg	0.25520	39.14%
Arsenic†	22.8	0.0355	mg/L	0.00339	3.551	mg/kg	0.3389	9.54%
Barium†	68696.1	1.348	mg/L	0.0258	134.8	mg/kg	2.58	1.91%
Beryllium†	4599.1	0.0006	mg/L	0.00013	0.0608	mg/kg	0.01261	20.76%
Boron†	784.3	0.0414	mg/L	0.00231	4.135	mg/kg	0.2314	5.59%
Cadmium†	39.0	0.0006	mg/L	0.00034	0.0563	mg/kg	0.03426	60.88%
Chromium†	5061.4	0.0798	mg/L	0.00009	7.981	mg/kg	0.0088	0.11%
Cobalt†	397.3	0.0289	mg/L	0.00082	2.895	mg/kg	0.0819	2.83%
Copper†	12362.5	0.1378	mg/L	0.00197	13.78	mg/kg	0.197	1.43%
Lithium†	155653.9	0.0262	mg/L	0.00014	2.621	mg/kg	0.0138	0.53%
Manganese†	1896364.1	4.910	mg/L	0.0234	491.0	mg/kg	2.34	0.48%
Molybdenum†	28.6	0.0047	mg/L	0.00083	0.4719	mg/kg	0.08299	17.58%
Nickel†	576.9	0.0418	mg/L	0.00096	4.182	mg/kg	0.0959	2.29%
Lead†	217.5	0.1301	mg/L	0.00162	13.01	mg/kg	0.162	1.25%
Selenium†	-8.0	0.0079	mg/L	0.00599	0.7893	mg/kg	0.59917	75.92%
Silver†	2492.7	0.0131	mg/L	0.00088	1.306	mg/kg	0.0877	6.72%
Strontium†	3089667.8	0.2554	mg/L	0.00385	25.54	mg/kg	0.385	1.51%
Tin†	-31.6	-0.0126	mg/L	0.00362	-1.260	mg/kg	0.3622	28.75%
Thallium†	-65.6	-0.0504	mg/L	0.00089	-5.043	mg/kg	0.0894	1.77%
Titanium†	91199.8	0.4119	mg/L	0.00611	41.19	mg/kg	0.611	1.48%
Vanadium†	11658.7	0.1590	mg/L	0.00485	15.90	mg/kg	0.485	3.05%
Zinc†	6170.8	0.6336	mg/L	0.00128	63.36	mg/kg	0.128	0.20%
Argon	3722075.7	90.62	mg/L	0.202	9062	mg/kg	20.2	0.22%
Sodium†	107410.3	0.5960	mg/L	0.00915	59.60	mg/kg	0.915	1.53%
Magnesium†	2475052.1	12.35	mg/L	0.053	1235	mg/kg	5.3	0.43%
Iron†	2824205.5	76.74	mg/L	0.357	7674	mg/kg	35.7	0.46%

Calciumt	33792637.5	296.8 mg/L	4.98	29680 mg/kg	497.7	1.68%
Potassiumt	510885.8	5.730 mg/L	0.0330	573.0 mg/kg	3.30	0.58%
Aluminum radialt	103022.5	57.45 mg/L	0.150	5745 mg/kg	15.0	0.26%
Calcium radialt	1619186.7	311.0 mg/L	1.20	31100 mg/kg	120.3	0.39%
Iron radialt	126921.0	83.39 mg/L	0.238	8339 mg/kg	23.8	0.29%
Magnesium radialt	108177.0	11.98 mg/L	0.010	1198 mg/kg	1.0	0.08%
Sodium radialt	1622.1	0.4101 mg/L	0.00880	41.01 mg/kg	0.880	2.15%
Potassium radialt	2934.9	4.557 mg/L	0.1192	455.7 mg/kg	11.92	2.62%
Stonrium radialt	147043.2	0.2827 mg/L	0.00188	28.27 mg/kg	0.188	0.66%

User canceled analysis.

Analysis Begun

Start Time: 3/7/2011 11:52:57 AM **Plasma On Time: 3/7/2011 9:19:25 AM**
Logged In Analyst: LAFMETALS **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0052103Autosampler Model: Cetac

Sample Information File: C:\pe\lafmetals\Sample Information\6010 200.7.sif
Batch ID:
Results Data Set: 1103071020DV
Results Library: C:\pe\lafmetals\Results\Results.mdb

Sequence No.: 31 **Autosampler Location: 120**
Sample ID: 11020727-02A **Date Collected: 3/7/2011 11:52:58 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol:**

Nebulizer Parameters: 11020727-02A

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: 11020727-02A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	632431.7	104.6	%	0.19				0.18%
Aluminumt	863643.7	23.35	mg/L	0.214	116.7	mg/L	1.07	0.92%
Antimonyt	-1.9	-0.0018	mg/L	0.00154	-0.0088	mg/L	0.00768	87.01%
Arsenict	7.1	0.0054	mg/L	0.00278	0.0268	mg/L	0.01388	51.86%
Bariumt	194.9	0.0020	mg/L	0.00012	0.0100	mg/L	0.00061	6.08%
Berylliumt	7074.5	0.0021	mg/L	0.00003	0.0104	mg/L	0.00016	1.51%
Boront	778.0	0.0382	mg/L	0.00216	0.1910	mg/L	0.01082	5.66%
Cadmiumt	-1.6	-0.0016	mg/L	0.00038	-0.0082	mg/L	0.00190	23.01%
Chromiumt	555.9	0.0071	mg/L	0.00024	0.0356	mg/L	0.00122	3.42%
Cobaltt	356.2	0.0264	mg/L	0.00037	0.1322	mg/L	0.00187	1.42%
Coppert	-117.4	-0.0026	mg/L	0.00044	-0.0132	mg/L	0.00221	16.75%
Lithiumt	206117.4	0.0348	mg/L	0.00036	0.1738	mg/L	0.00179	1.03%
Manganeset	232332.3	0.5997	mg/L	0.00430	2.998	mg/L	0.0215	0.72%
Molybdenumt	-12.5	-0.0047	mg/L	0.00073	-0.0233	mg/L	0.00364	15.64%
Nickelt	422.5	0.0300	mg/L	0.00111	0.1502	mg/L	0.00554	3.69%
Leadt	-9.4	-0.0069	mg/L	0.00199	-0.0344	mg/L	0.00995	28.91%
Seleniumt	-3.6	-0.0029	mg/L	0.01427	-0.0145	mg/L	0.07133	493.01%
Silvert	17.7	0.0003	mg/L	0.00025	0.0015	mg/L	0.00126	84.74%
Strontiumt	1491205.0	0.1261	mg/L	0.00130	0.6306	mg/L	0.00652	1.03%
Tint	-5.0	-0.0118	mg/L	0.00661	-0.0592	mg/L	0.03303	55.83%
Thalliumt	-5.8	-0.0086	mg/L	0.00440	-0.0431	mg/L	0.02201	51.11%
Titaniumt	15.5	-0.0020	mg/L	0.00016	-0.0100	mg/L	0.00080	7.99%
Vanadiumt	1404.1	0.0148	mg/L	0.00047	0.0740	mg/L	0.00236	3.19%
Zinct	501.8	0.0493	mg/L	0.00007	0.2465	mg/L	0.00033	0.13%
Argon	3858960.3	93.95	mg/L	0.085	469.8	mg/L	0.42	0.09%
Sodiumt	13040245.4	63.04	mg/L	0.778	315.2	mg/L	3.89	1.23%
Magnesiumt	2539129.9	12.67	mg/L	0.134	63.34	mg/L	0.668	1.06%
Iront	819644.5	22.27	mg/L	0.275	111.4	mg/L	1.37	1.23%
Calciumt	1256130.5	11.03	mg/L	0.132	55.16	mg/L	0.658	1.19%
Potassiumt	88207.5	1.074	mg/L	0.0034	5.368	mg/L	0.0172	0.32%
Aluminum radialt	42136.5	23.50	mg/L	0.154	117.5	mg/L	0.77	0.65%
Calcium radialt	58992.4	11.32	mg/L	0.087	56.61	mg/L	0.435	0.77%
Iron radialt	35270.9	23.17	mg/L	0.161	115.8	mg/L	0.81	0.70%

Magnesium radial†	112822.2	12.50 mg/L	0.080	62.49 mg/L	0.402	0.64%
Sodium radial†	205206.2	55.58 mg/L	0.354	277.9 mg/L	1.77	0.64%
Potassium radial†	566.3	0.8467 mg/L	0.08083	4.233 mg/L	0.4042	9.55%
Stonrium radial†	69620.2	0.1326 mg/L	0.00116	0.6628 mg/L	0.00581	0.88%

Sequence No.: 32
Sample ID: 11020727-25A
Analyst:
Initial Sample Wt:
Dilution: 20X

Autosampler Location: 121
Date Collected: 3/7/2011 11:54:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-25A

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: 11020727-25A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	630165.7	104.2	%	1.02				0.98%
Aluminum†	1289235.4	34.85	mg/L	2.038	697.1	mg/L	40.75	5.85%
Antimony†	-5.6	-0.0075	mg/L	0.00199	-0.1506	mg/L	0.03988	26.49%
Arsenic†	8.8	0.0083	mg/L	0.00426	0.1656	mg/L	0.08525	51.47%
Barium†	43.8	-0.0010	mg/L	0.00017	-0.0193	mg/L	0.00331	17.16%
Beryllium†	5489.5	0.0011	mg/L	0.00029	0.0228	mg/L	0.00573	25.15%
Boron†	1736.1	0.0841	mg/L	0.00627	1.682	mg/L	0.1254	7.46%
Cadmium†	16.0	-0.0005	mg/L	0.00029	-0.0100	mg/L	0.00572	57.11%
Chromium†	654.2	0.0087	mg/L	0.00074	0.1740	mg/L	0.01488	8.55%
Cobalt†	443.9	0.0336	mg/L	0.00339	0.6712	mg/L	0.06772	10.09%
Copper†	-96.6	-0.0024	mg/L	0.00044	-0.0484	mg/L	0.00886	18.30%
Lithium†	193596.5	0.0326	mg/L	0.00165	0.6529	mg/L	0.03292	5.04%
Manganese†	368333.0	0.9520	mg/L	0.05329	19.04	mg/L	1.066	5.60%
Molybdenum†	-21.9	-0.0065	mg/L	0.00078	-0.1297	mg/L	0.01552	11.97%
Nickel†	623.5	0.0454	mg/L	0.00408	0.9074	mg/L	0.08152	8.98%
Lead†	-10.6	-0.0072	mg/L	0.00336	-0.1448	mg/L	0.06726	46.46%
Selenium†	-4.5	-0.0073	mg/L	0.01152	-0.1465	mg/L	0.23039	157.31%
Silver†	44.9	0.0005	mg/L	0.00077	0.0109	mg/L	0.01542	141.31%
Strontium†	771178.4	0.0644	mg/L	0.00350	1.289	mg/L	0.0700	5.43%
Tin†	-5.2	-0.0121	mg/L	0.00315	-0.2427	mg/L	0.06305	25.98%
Thallium†	1.3	-0.0036	mg/L	0.00560	-0.0723	mg/L	0.11196	154.77%
Titanium†	147.3	-0.0014	mg/L	0.00006	-0.0279	mg/L	0.00112	4.00%
Vanadium†	1483.9	0.0175	mg/L	0.00126	0.3503	mg/L	0.02519	7.19%
Zinc†	1285.5	0.1301	mg/L	0.01049	2.602	mg/L	0.2098	8.06%
Argon	3895568.3	94.84	mg/L	0.083	1897	mg/L	1.7	0.09%
Sodium†	6093397.1	29.50	mg/L	1.745	589.9	mg/L	34.90	5.92%
Magnesium†	2346727.0	11.71	mg/L	0.682	234.2	mg/L	13.63	5.82%
Iron†	640389.7	17.40	mg/L	0.998	348.0	mg/L	19.96	5.74%
Calcium†	1277390.7	11.22	mg/L	0.618	224.4	mg/L	12.35	5.51%
Potassium†	26298.3	0.3915	mg/L	0.02074	7.829	mg/L	0.4147	5.30%
Aluminum radial†	58918.2	32.86	mg/L	0.566	657.1	mg/L	11.32	1.72%
Calcium radial†	56662.5	10.88	mg/L	0.200	217.5	mg/L	4.00	1.84%
Iron radial†	25958.0	17.05	mg/L	0.342	341.0	mg/L	6.85	2.01%
Magnesium radial†	99217.2	10.99	mg/L	0.188	219.8	mg/L	3.77	1.71%
Sodium radial†	97214.0	26.32	mg/L	0.422	526.3	mg/L	8.44	1.60%
Potassium radial†	204.1	0.2792	mg/L	0.07742	5.585	mg/L	1.5483	27.72%
Stonrium radial†	33900.2	0.0633	mg/L	0.00106	1.266	mg/L	0.0212	1.67%

Sequence No.: 33
Sample ID: 11020727-26A
Analyst:
Initial Sample Wt:
Dilution: 20X

Autosampler Location: 122
Date Collected: 3/7/2011 11:56:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-26A

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: 11020727-26A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	621102.6	102.7	%	0.72				0.70%
Aluminumt	1262415.6	34.13	mg/L	0.311	682.6	mg/L	6.22	0.91%
Antimonyt	-2.3	-0.0027	mg/L	0.00720	-0.0534	mg/L	0.14403	269.66%
Arsenict	5.7	0.0032	mg/L	0.00173	0.0635	mg/L	0.03467	54.57%
Bariumt	53.6	-0.0008	mg/L	0.00017	-0.0155	mg/L	0.00346	22.39%
Berylliumt	5357.6	0.0011	mg/L	0.00005	0.0212	mg/L	0.00093	4.40%
Boront	1723.7	0.0835	mg/L	0.00177	1.670	mg/L	0.0353	2.12%
Cadmiumt	8.1	-0.0009	mg/L	0.00044	-0.0187	mg/L	0.00886	47.47%
Chromiumt	605.4	0.0079	mg/L	0.00026	0.1582	mg/L	0.00510	3.22%
Cobaltt	419.5	0.0316	mg/L	0.00037	0.6317	mg/L	0.00742	1.17%
Coppert	-70.8	-0.0021	mg/L	0.00032	-0.0427	mg/L	0.00638	14.94%
Lithiumt	190392.7	0.0321	mg/L	0.00022	0.6420	mg/L	0.00442	0.69%
Manganeset	363085.2	0.9384	mg/L	0.00724	18.77	mg/L	0.145	0.77%
Molybdenumt	-14.4	-0.0052	mg/L	0.00155	-0.1037	mg/L	0.03092	29.80%
Nickelt	575.1	0.0417	mg/L	0.00119	0.8335	mg/L	0.02388	2.86%
Leadt	-8.6	-0.0060	mg/L	0.00312	-0.1204	mg/L	0.06234	51.76%
Seleniumt	-4.4	-0.0068	mg/L	0.00660	-0.1358	mg/L	0.13194	97.18%
Silvert	-38.4	-0.0002	mg/L	0.00089	-0.0033	mg/L	0.01787	533.81%
Strontiumt	761129.0	0.0636	mg/L	0.00056	1.271	mg/L	0.0112	0.88%
Tint	-3.5	-0.0099	mg/L	0.00374	-0.1984	mg/L	0.07473	37.67%
Thalliumt	-9.6	-0.0112	mg/L	0.00478	-0.2245	mg/L	0.09558	42.57%
Titaniumt	157.4	-0.0013	mg/L	0.00005	-0.0270	mg/L	0.00096	3.55%
Vanadiumt	1365.4	0.0156	mg/L	0.00095	0.3114	mg/L	0.01896	6.09%
Zinct	1208.4	0.1221	mg/L	0.00120	2.443	mg/L	0.0241	0.98%
Argon	3882072.2	94.52	mg/L	0.066	1890	mg/L	1.3	0.07%
Sodiumt	6062445.2	29.35	mg/L	0.603	586.9	mg/L	12.07	2.06%
Magnesiumt	2307418.0	11.51	mg/L	0.109	230.3	mg/L	2.17	0.94%
Iront	634475.2	17.24	mg/L	0.153	344.8	mg/L	3.05	0.89%
Calciumt	1257792.2	11.05	mg/L	0.086	220.9	mg/L	1.73	0.78%
Potassiumt	25676.5	0.3846	mg/L	0.00580	7.692	mg/L	0.1159	1.51%
Aluminum radialt	60528.9	33.76	mg/L	0.249	675.1	mg/L	4.97	0.74%
Calcium radialt	58137.4	11.16	mg/L	0.116	223.2	mg/L	2.33	1.04%
Iron radialt	26785.1	17.59	mg/L	0.176	351.9	mg/L	3.52	1.00%
Magnesium radialt	102129.4	11.31	mg/L	0.093	226.3	mg/L	1.86	0.82%
Sodium radialt	100161.2	27.11	mg/L	0.178	542.3	mg/L	3.55	0.65%
Potassium radialt	201.0	0.2745	mg/L	0.02218	5.490	mg/L	0.4437	8.08%
Stonrium radialt	34877.5	0.0652	mg/L	0.00049	1.304	mg/L	0.0097	0.75%

Sequence No.: 34
Sample ID: 11020727-31A
Analyst:
Initial Sample Wt:
Dilution: 20X

Autosampler Location: 123
Date Collected: 3/7/2011 11:57:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 11020727-31A

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: 11020727-31A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	574554.8	95.05	%	1.848				1.94%
Aluminumt	341260.8	9.220	mg/L	0.0169	184.4	mg/L	0.34	0.18%
Antimonyt	-8.6	-0.0118	mg/L	0.00347	-0.2368	mg/L	0.06931	29.26%
Arsenict	3.5	0.0000	mg/L	0.00092	0.0003	mg/L	0.01846	>999.9%
Bariumt	61.2	-0.0006	mg/L	0.00010	-0.0125	mg/L	0.00194	15.55%
Berylliumt	3177.9	-0.0002	mg/L	0.00003	-0.0048	mg/L	0.00054	11.23%
Boront	401.6	0.0197	mg/L	0.00117	0.3945	mg/L	0.02335	5.92%
Cadmiumt	4.6	-0.0012	mg/L	0.00041	-0.0238	mg/L	0.00830	34.79%
Chromiumt	194.1	0.0013	mg/L	0.00020	0.0255	mg/L	0.00406	15.92%
Cobaltt	145.3	0.0093	mg/L	0.00009	0.1863	mg/L	0.00185	0.99%
Coppert	-11.4	-0.0016	mg/L	0.00015	-0.0314	mg/L	0.00306	9.73%
Lithiumt	83630.5	0.0140	mg/L	0.00002	0.2797	mg/L	0.00044	0.16%
Manganeset	131620.2	0.3388	mg/L	0.00030	6.776	mg/L	0.0060	0.09%
Molybdenumt	-13.6	-0.0051	mg/L	0.00234	-0.1025	mg/L	0.04683	45.67%
Nickelt	187.3	0.0121	mg/L	0.00168	0.2421	mg/L	0.03360	13.88%

Leadt	-7.4	-0.0063 mg/L	0.00412	-0.1252 mg/L	0.08234	65.76%
Seleniumt	-3.6	-0.0060 mg/L	0.00913	-0.1204 mg/L	0.18263	151.63%
Silvert	-112.5	-0.0007 mg/L	0.00092	-0.0142 mg/L	0.01839	129.78%
Strontiumt	739274.7	0.0618 mg/L	0.00023	1.236 mg/L	0.0046	0.37%
Tint	-1.4	-0.0078 mg/L	0.00108	-0.1565 mg/L	0.02153	13.75%
Thalliumt	3.9	-0.0018 mg/L	0.00424	-0.0359 mg/L	0.08475	235.82%
Titaniumt	526.5	0.0003 mg/L	0.00056	0.0065 mg/L	0.01125	172.25%
Vanadiumt	782.9	0.0073 mg/L	0.00066	0.1463 mg/L	0.01327	9.07%
Zinct	171.5	0.0153 mg/L	0.00063	0.3052 mg/L	0.01264	4.14%
Argon	3800980.2	92.54 mg/L	0.095	1851 mg/L	1.9	0.10%
Sodiumt	5858330.7	28.36 mg/L	0.296	567.2 mg/L	5.92	1.04%
Magnesiumt	1193019.9	5.952 mg/L	0.0145	119.0 mg/L	0.29	0.24%
Iront	565282.7	15.36 mg/L	0.029	307.2 mg/L	0.59	0.19%
Calciumt	722663.4	6.346 mg/L	0.0102	126.9 mg/L	0.20	0.16%
Potassiumt	53146.3	0.6872 mg/L	0.00201	13.74 mg/L	0.040	0.29%
Aluminum radialt	16724.4	9.326 mg/L	0.2204	186.5 mg/L	4.41	2.36%
Calcium radialt	33636.6	6.453 mg/L	0.1684	129.1 mg/L	3.37	2.61%
Iron radialt	24070.1	15.81 mg/L	0.424	316.2 mg/L	8.49	2.68%
Magnesium radialt	54043.3	5.984 mg/L	0.1379	119.7 mg/L	2.76	2.30%
Sodium radialt	102032.6	27.62 mg/L	0.627	552.4 mg/L	12.54	2.27%
Potassium radialt	408.5	0.5994 mg/L	0.01428	11.99 mg/L	0.286	2.38%
Stonrium radialt	34030.8	0.0636 mg/L	0.00152	1.271 mg/L	0.0305	2.40%

Sequence No.: 35
Sample ID: 11030081-03A
Analyst:
Initial Sample Wt: 0.5 g
Dilution: 5X

Autosampler Location: 124
Date Collected: 3/7/2011 11:59:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Nebulizer Parameters: 11030081-03A

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: 11030081-03A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	576118.1	95.31	%	1.054				1.11%
Aluminumt	585403.8	15.82	mg/L	0.204	7911	mg/kg	102.1	1.29%
Antimonyt	-5.0	-0.0067	mg/L	0.00157	-3.338	mg/kg	0.7828	23.45%
Arsenict	4.5	0.0020	mg/L	0.00140	1.003	mg/kg	0.7010	69.90%
Bariumt	3932.7	0.0754	mg/L	0.00118	37.72	mg/kg	0.592	1.57%
Berylliumt	3672.2	0.0001	mg/L	0.00006	0.0273	mg/kg	0.02867	105.07%
Boront	157.1	0.0080	mg/L	0.00034	4.017	mg/kg	0.1702	4.24%
Cadmiumt	0.4	-0.0015	mg/L	0.00033	-0.7623	mg/kg	0.16458	21.59%
Chromiumt	1020.6	0.0146	mg/L	0.00033	7.305	mg/kg	0.1635	2.24%
Cobaltt	99.4	0.0053	mg/L	0.00049	2.660	mg/kg	0.2466	9.27%
Coppert	796.9	0.0071	mg/L	0.00083	3.557	mg/kg	0.4147	11.66%
Lithiumt	56344.9	0.0094	mg/L	0.00012	4.678	mg/kg	0.0577	1.23%
Manganeset	261516.1	0.6753	mg/L	0.00887	337.6	mg/kg	4.44	1.31%
Molybdenumt	-6.7	-0.0039	mg/L	0.00113	-1.943	mg/kg	0.5630	28.97%
Nickelt	422.1	0.0300	mg/L	0.00128	15.01	mg/kg	0.638	4.25%
Leadt	12.9	0.0062	mg/L	0.00337	3.079	mg/kg	1.6834	54.68%
Seleniumt	-4.1	-0.0065	mg/L	0.00490	-3.259	mg/kg	2.4489	75.14%
Silvert	-82.7	-0.0002	mg/L	0.00011	-0.1137	mg/kg	0.05466	48.06%
Strontiumt	451536.5	0.0373	mg/L	0.00046	18.64	mg/kg	0.229	1.23%
Tint	5.8	0.0004	mg/L	0.00291	0.2136	mg/kg	1.45654	681.99%
Thalliumt	-2.5	-0.0063	mg/L	0.00257	-3.134	mg/kg	1.2833	40.94%
Titaniumt	30486.4	0.1363	mg/L	0.00091	68.16	mg/kg	0.454	0.67%
Vanadiumt	1618.2	0.0199	mg/L	0.00075	9.967	mg/kg	0.3727	3.74%
Zinct	467.3	0.0457	mg/L	0.00172	22.87	mg/kg	0.859	3.75%
Argon	3762998.9	91.62	mg/L	0.281	45810	mg/kg	140.5	0.31%
Sodiumt	788596.9	3.885	mg/L	0.0484	1942	mg/kg	24.2	1.25%
Magnesiumt	654909.6	3.268	mg/L	0.0425	1634	mg/kg	21.2	1.30%
Iront	646284.2	17.56	mg/L	0.237	8780	mg/kg	118.4	1.35%
Calciumt	215456.0	1.891	mg/L	0.0186	945.3	mg/kg	9.31	0.99%
Potassiumt	116099.0	1.381	mg/L	0.0091	690.4	mg/kg	4.53	0.66%
Aluminum radialt	27873.8	15.54	mg/L	0.367	7772	mg/kg	183.4	2.36%
Calcium radialt	9777.8	1.871	mg/L	0.0512	935.5	mg/kg	25.61	2.74%
Iron radialt	26801.3	17.60	mg/L	0.459	8802	mg/kg	229.5	2.61%

Magnesium radial†	29467.0	3.261 mg/L	0.0790	1630 mg/kg	39.5	2.42%
Sodium radial†	15234.0	4.099 mg/L	0.0962	2050 mg/kg	48.1	2.35%
Potassium radial†	930.2	1.417 mg/L	0.0856	708.4 mg/kg	42.82	6.05%
Stonrium radial†	20161.7	0.0367 mg/L	0.00100	18.34 mg/kg	0.501	2.73%

Sequence No.: 36 **Autosampler Location: 1**
Sample ID: CCV **Date Collected: 3/7/2011 12:00:45 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	543590.3	89.93	%	1.017				1.13%
Aluminum†	18561.8	0.4943	mg/L	0.01381	0.4943	mg/L	0.01381	2.79%
QC value within limits for Aluminum Recovery = 98.85%								
Antimony†	342.0	0.4839	mg/L	0.01005	0.4839	mg/L	0.01005	2.08%
QC value within limits for Antimony Recovery = 96.79%								
Arsenic†	319.4	0.5107	mg/L	0.00846	0.5107	mg/L	0.00846	1.66%
QC value within limits for Arsenic Recovery = 102.13%								
Barium†	25098.4	0.4913	mg/L	0.01216	0.4913	mg/L	0.01216	2.48%
QC value within limits for Barium Recovery = 98.25%								
Beryllium†	832000.2	0.4944	mg/L	0.00177	0.4944	mg/L	0.00177	0.36%
QC value within limits for Beryllium Recovery = 98.87%								
Boron†	10348.6	0.4982	mg/L	0.01058	0.4982	mg/L	0.01058	2.12%
QC value within limits for Boron Recovery = 99.64%								
Cadmium†	7472.9	0.4910	mg/L	0.00911	0.4910	mg/L	0.00911	1.86%
QC value within limits for Cadmium Recovery = 98.20%								
Chromium†	30831.5	0.4956	mg/L	0.01239	0.4956	mg/L	0.01239	2.50%
QC value within limits for Chromium Recovery = 99.12%								
Cobalt†	6108.9	0.4925	mg/L	0.00839	0.4925	mg/L	0.00839	1.70%
QC value within limits for Cobalt Recovery = 98.49%								
Copper†	46888.7	0.5069	mg/L	0.01138	0.5069	mg/L	0.01138	2.24%
QC value within limits for Copper Recovery = 101.38%								
Lithium†	2927637.4	0.4966	mg/L	0.00516	0.4966	mg/L	0.00516	1.04%
QC value within limits for Lithium Recovery = 99.31%								
Manganese†	193547.9	0.4992	mg/L	0.01282	0.4992	mg/L	0.01282	2.57%
QC value within limits for Manganese Recovery = 99.84%								
Molybdenum†	2975.2	0.5022	mg/L	0.00834	0.5022	mg/L	0.00834	1.66%
QC value within limits for Molybdenum Recovery = 100.45%								
Nickel†	6493.5	0.4929	mg/L	0.00987	0.4929	mg/L	0.00987	2.00%
QC value within limits for Nickel Recovery = 98.59%								
Lead†	829.5	0.4940	mg/L	0.01013	0.4940	mg/L	0.01013	2.05%
QC value within limits for Lead Recovery = 98.79%								
Selenium†	191.0	0.4986	mg/L	0.03042	0.4986	mg/L	0.03042	6.10%
QC value within limits for Selenium Recovery = 99.73%								
Silver†	61378.2	0.5131	mg/L	0.01081	0.5131	mg/L	0.01081	2.11%
QC value within limits for Silver Recovery = 102.63%								
Strontium†	2955670.4	0.2519	mg/L	0.00218	0.2519	mg/L	0.00218	0.87%
QC value within limits for Strontium Recovery = 100.76%								
Tin†	398.6	0.4834	mg/L	0.00865	0.4834	mg/L	0.00865	1.79%
QC value within limits for Tin Recovery = 96.68%								
Thallium†	720.8	0.5001	mg/L	0.00875	0.5001	mg/L	0.00875	1.75%
QC value within limits for Thallium Recovery = 100.02%								
Titanium†	106127.5	0.4797	mg/L	0.00364	0.4797	mg/L	0.00364	0.76%
QC value within limits for Titanium Recovery = 95.94%								
Vanadium†	32481.7	0.5001	mg/L	0.01300	0.5001	mg/L	0.01300	2.60%
QC value within limits for Vanadium Recovery = 100.02%								
Zinc†	4669.4	0.4789	mg/L	0.00980	0.4789	mg/L	0.00980	2.05%
QC value within limits for Zinc Recovery = 95.77%								
Argon	3716177.8	90.48	mg/L	0.762	90.48	mg/L	0.762	0.84%
Sodium†	964433.7	4.734	mg/L	0.0353	4.734	mg/L	0.0353	0.75%
QC value within limits for Sodium Recovery = 94.67%								
Magnesium†	100743.6	0.5026	mg/L	0.01228	0.5026	mg/L	0.01228	2.44%

QC value within limits for Magnesium Recovery = 100.53%

Iron†	18448.9	0.4983 mg/L	0.01387	0.4983 mg/L	0.01387	2.78%
QC value within limits for Iron Recovery = 99.66%						
Calcium†	55707.5	0.4873 mg/L	0.01270	0.4873 mg/L	0.01270	2.61%
QC value within limits for Calcium Recovery = 97.46%						
Potassium†	426599.6	4.802 mg/L	0.0360	4.802 mg/L	0.0360	0.75%
QC value within limits for Potassium Recovery = 96.03%						
Aluminum radial†	944.8	0.5259 mg/L	0.00520	0.5259 mg/L	0.00520	0.99%
QC value within limits for Aluminum radial Recovery = 105.18%						
Calcium radial†	2637.8	0.4997 mg/L	0.01163	0.4997 mg/L	0.01163	2.33%
QC value within limits for Calcium radial Recovery = 99.95%						
Iron radial†	795.3	0.5160 mg/L	0.00874	0.5160 mg/L	0.00874	1.69%
QC value within limits for Iron radial Recovery = 103.20%						
Magnesium radial†	4761.1	0.5227 mg/L	0.01015	0.5227 mg/L	0.01015	1.94%
QC value within limits for Magnesium radial Recovery = 104.55%						
Sodium radial†	19756.7	5.325 mg/L	0.1155	5.325 mg/L	0.1155	2.17%
QC value within limits for Sodium radial Recovery = 106.49%						
Potassium radial†	3424.2	5.324 mg/L	0.1566	5.324 mg/L	0.1566	2.94%
QC value within limits for Potassium radial Recovery = 106.48%						
Stonrium radial†	136754.5	0.2627 mg/L	0.00422	0.2627 mg/L	0.00422	1.61%
QC value within limits for Stonrium radial Recovery = 105.09%						

All analyte(s) passed QC.

Sequence No.: 37
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 3/7/2011 12:02:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	163.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium	577998.3	95.62	%	1.463				1.53%
Aluminum†	-21.7	-0.0082	mg/L	0.00183	-0.0082	mg/L	0.00183	22.28%
QC value within limits for Aluminum Recovery = Not calculated								
Antimony†	-0.2	-0.0008	mg/L	0.00813	-0.0008	mg/L	0.00813	>999.9%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	2.0	-0.0021	mg/L	0.00257	-0.0021	mg/L	0.00257	122.81%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	14.1	-0.0015	mg/L	0.00030	-0.0015	mg/L	0.00030	19.18%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	191.2	-0.0020	mg/L	0.00014	-0.0020	mg/L	0.00014	6.80%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	22.4	0.0007	mg/L	0.00004	0.0007	mg/L	0.00004	5.16%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	3.6	-0.0013	mg/L	0.00033	-0.0013	mg/L	0.00033	25.83%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	-15.5	-0.0021	mg/L	0.00033	-0.0021	mg/L	0.00033	15.74%
QC value within limits for Chromium Recovery = Not calculated								
Cobalt†	-0.8	-0.0025	mg/L	0.00026	-0.0025	mg/L	0.00026	10.08%
QC value within limits for Cobalt Recovery = Not calculated								
Copper†	-2.2	-0.0016	mg/L	0.00026	-0.0016	mg/L	0.00026	16.64%
QC value within limits for Copper Recovery = Not calculated								
Lithium†	545.6	-0.0001	mg/L	0.00007	-0.0001	mg/L	0.00007	59.59%
QC value within limits for Lithium Recovery = Not calculated								
Manganese†	55.9	-0.0020	mg/L	0.00024	-0.0020	mg/L	0.00024	11.93%
QC value within limits for Manganese Recovery = Not calculated								
Molybdenum†	-6.9	-0.0046	mg/L	0.00055	-0.0046	mg/L	0.00055	11.96%
QC value within limits for Molybdenum Recovery = Not calculated								
Nickel†	-11.4	-0.0030	mg/L	0.00015	-0.0030	mg/L	0.00015	5.07%
QC value within limits for Nickel Recovery = Not calculated								
Lead†	-7.9	-0.0069	mg/L	0.00352	-0.0069	mg/L	0.00352	51.21%
QC value within limits for Lead Recovery = Not calculated								
Selenium†	1.2	0.0008	mg/L	0.00645	0.0008	mg/L	0.00645	856.01%
QC value within limits for Selenium Recovery = Not calculated								

Silver†	-41.8	0.0000 mg/L	0.00008	0.0000 mg/L	0.00008	203.49%
QC value within limits for Silver Recovery = Not calculated						
Strontium†	137.8	-0.0014 mg/L	0.00005	-0.0014 mg/L	0.00005	4.04%
QC value within limits for Strontium Recovery = Not calculated						
Tin†	2.1	-0.0043 mg/L	0.00144	-0.0043 mg/L	0.00144	33.59%
QC value within limits for Tin Recovery = Not calculated						
Thallium†	5.6	-0.0006 mg/L	0.00335	-0.0006 mg/L	0.00335	570.11%
QC value within limits for Thallium Recovery = Not calculated						
Titanium†	71.8	-0.0017 mg/L	0.00021	-0.0017 mg/L	0.00021	12.22%
QC value within limits for Titanium Recovery = Not calculated						
Vanadium†	-151.8	-0.0031 mg/L	0.00034	-0.0031 mg/L	0.00034	10.90%
QC value within limits for Vanadium Recovery = Not calculated						
Zinc†	16.0	-0.0008 mg/L	0.00078	-0.0008 mg/L	0.00078	101.17%
QC value within limits for Zinc Recovery = Not calculated						
Argon	3718839.9	90.54 mg/L	0.424	90.54 mg/L	0.424	0.47%
Sodium†	-4068.1	0.0578 mg/L	0.00008	0.0578 mg/L	0.00008	0.14%
QC value within limits for Sodium Recovery = Not calculated						
Magnesium†	4.3	0.0000 mg/L	0.00016	0.0000 mg/L	0.00016	>999.9%
QC value within limits for Magnesium Recovery = Not calculated						
Iron†	17.0	-0.0026 mg/L	0.00052	-0.0026 mg/L	0.00052	20.43%
QC value within limits for Iron Recovery = Not calculated						
Calcium†	59.6	-0.0015 mg/L	0.00148	-0.0015 mg/L	0.00148	96.33%
QC value within limits for Calcium Recovery = Not calculated						
Potassium†	-695.6	0.0941 mg/L	0.00048	0.0941 mg/L	0.00048	0.51%
QC value within limits for Potassium Recovery = Not calculated						
Aluminum radial†	5.7	0.0021 mg/L	0.00478	0.0021 mg/L	0.00478	222.38%
QC value within limits for Aluminum radial Recovery = Not calculated						
Calcium radial†	19.8	-0.0031 mg/L	0.00154	-0.0031 mg/L	0.00154	50.20%
QC value within limits for Calcium radial Recovery = Not calculated						
Iron radial†	-2.8	-0.0084 mg/L	0.00149	-0.0084 mg/L	0.00149	17.88%
QC value within limits for Iron radial Recovery = Not calculated						
Magnesium radial†	-5.1	-0.0055 mg/L	0.00087	-0.0055 mg/L	0.00087	15.83%
QC value within limits for Magnesium radial Recovery = Not calculated						
Sodium radial†	-80.0	-0.0512 mg/L	0.00178	-0.0512 mg/L	0.00178	3.48%
QC value within limits for Sodium radial Recovery = Not calculated						
Potassium radial†	20.9	-0.0077 mg/L	0.00085	-0.0077 mg/L	0.00085	11.05%
QC value within limits for Potassium radial Recovery = Not calculated						
Stonrium radial†	6.3	-0.0024 mg/L	0.00003	-0.0024 mg/L	0.00003	1.37%
QC value within limits for Stonrium radial Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 38 **Autosampler Location: 9**
Sample ID: ICSA **Date Collected: 3/7/2011 12:05:03 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	532323.0	88.06	%	0.322				0.37%
Aluminum†	19707630.4	532.9	mg/L	3.71	532.9	mg/L	3.71	0.70%
Antimony†	-14.2	0.0163	mg/L	0.02026	0.0163	mg/L	0.02026	124.14%
QC value within limits for Antimony Recovery = Not calculated								
Arsenic†	27.4	0.0213	mg/L	0.00585	0.0213	mg/L	0.00585	27.47%
QC value within limits for Arsenic Recovery = Not calculated								
Barium†	431.0	0.0066	mg/L	0.00007	0.0066	mg/L	0.00007	1.02%
QC value within limits for Barium Recovery = Not calculated								
Beryllium†	1215.7	-0.0014	mg/L	0.00007	-0.0014	mg/L	0.00007	4.82%
QC value within limits for Beryllium Recovery = Not calculated								
Boron†	-239.6	0.0121	mg/L	0.00320	0.0121	mg/L	0.00320	26.40%
QC value within limits for Boron Recovery = Not calculated								
Cadmium†	23.3	-0.0008	mg/L	0.00060	-0.0008	mg/L	0.00060	78.17%
QC value within limits for Cadmium Recovery = Not calculated								
Chromium†	-13.6	-0.0021	mg/L	0.00042	-0.0021	mg/L	0.00042	20.02%

QC value within limits for Chromium Recovery = Not calculated

Cobalt†	64.3	0.0028 mg/L	0.00014	0.0028 mg/L	0.00014	4.93%
QC value within limits for Cobalt Recovery = Not calculated						
Copper†	-1183.3	-0.0056 mg/L	0.00053	-0.0056 mg/L	0.00053	9.38%
QC value within limits for Copper Recovery = Not calculated						
Lithium†	3453.3	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	5.63%
QC value within limits for Lithium Recovery = Not calculated						
Manganese†	4484.0	0.0094 mg/L	0.00009	0.0094 mg/L	0.00009	0.92%
QC value within limits for Manganese Recovery = Not calculated						
Molybdenum†	-114.7	-0.0028 mg/L	0.00172	-0.0028 mg/L	0.00172	60.73%
QC value within limits for Molybdenum Recovery = Not calculated						
Nickel†	64.0	0.0027 mg/L	0.00163	0.0027 mg/L	0.00163	59.97%
QC value within limits for Nickel Recovery = Not calculated						
Lead†	-40.3	-0.0054 mg/L	0.00505	-0.0054 mg/L	0.00505	93.38%
QC value within limits for Lead Recovery = Not calculated						
Selenium†	-73.5	-0.0005 mg/L	0.01742	-0.0005 mg/L	0.01742	>999.9%
QC value within limits for Selenium Recovery = Not calculated						
Silver†	2081.9	0.0031 mg/L	0.00009	0.0031 mg/L	0.00009	2.95%
QC value within limits for Silver Recovery = Not calculated						
Strontium†	19986.3	-0.0130 mg/L	0.00029	-0.0130 mg/L	0.00029	2.21%
QC value within limits for Strontium Recovery = Not calculated						
Tin†	-57.1	-0.0221 mg/L	0.00991	-0.0221 mg/L	0.00991	44.91%
QC value within limits for Tin Recovery = Not calculated						
Thallium†	-0.3	-0.0047 mg/L	0.00663	-0.0047 mg/L	0.00663	140.26%
QC value within limits for Thallium Recovery = Not calculated						
Titanium†	-2175.5	-0.0119 mg/L	0.00017	-0.0119 mg/L	0.00017	1.40%
QC value within limits for Titanium Recovery = Not calculated						
Vanadium†	7644.0	-0.0205 mg/L	0.00422	-0.0205 mg/L	0.00422	20.59%
QC value within limits for Vanadium Recovery = Not calculated						
Zinc†	70.7	0.0049 mg/L	0.00044	0.0049 mg/L	0.00044	8.97%
QC value within limits for Zinc Recovery = Not calculated						
Argon	3449103.6	83.97 mg/L	0.027	83.97 mg/L	0.027	0.03%
Sodium†	8227.3	0.1172 mg/L	0.00035	0.1172 mg/L	0.00035	0.30%
QC value within limits for Sodium Recovery = Not calculated						
Magnesium†	67438722.8	336.5 mg/L	1.12	336.5 mg/L	1.12	0.33%
Iron†	14027248.3	381.2 mg/L	2.27	381.2 mg/L	2.27	0.59%
Calcium†	54214198.0	476.2 mg/L	3.78	476.2 mg/L	3.78	0.79%
Potassium†	886.0	0.1115 mg/L	0.00034	0.1115 mg/L	0.00034	0.31%
Aluminum radial†	991355.6	552.9 mg/L	9.33	552.9 mg/L	9.33	1.69%
QC value within limits for Aluminum radial Recovery = 110.57%						
Calcium radial†	2687351.8	516.1 mg/L	10.98	516.1 mg/L	10.98	2.13%
QC value within limits for Calcium radial Recovery = 103.22%						
Iron radial†	775058.3	509.2 mg/L	10.08	509.2 mg/L	10.08	1.98%
QC value within limits for Iron radial Recovery = 101.85%						
Magnesium radial†	4458448.6	494.1 mg/L	7.09	494.1 mg/L	7.09	1.44%
QC value within limits for Magnesium radial Recovery = 98.82%						
Sodium radial†	43.9	-0.0176 mg/L	0.01710	-0.0176 mg/L	0.01710	97.20%
QC value within limits for Sodium radial Recovery = Not calculated						
Potassium radial†	58.1	0.0506 mg/L	0.05356	0.0506 mg/L	0.05356	105.91%
QC value within limits for Potassium radial Recovery = Not calculated						
Stonrium radial†	1027.9	-0.0004 mg/L	0.00007	-0.0004 mg/L	0.00007	17.00%
QC value within limits for Stonrium radial Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 39
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 3/7/2011 12:06:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	539611.8	89.27	%	0.743				0.83%
Aluminum†	19186240.3	518.8	mg/L	6.47	518.8	mg/L	6.47	1.25%

Antimony†	6944.2	10.00 mg/L	0.123	10.00 mg/L	0.123	1.23%
QC value within limits for Antimony Recovery = 100.01%						
Arsenic†	6454.4	10.37 mg/L	0.111	10.37 mg/L	0.111	1.08%
QC value within limits for Arsenic Recovery = 103.67%						
Barium†	148276.4	2.911 mg/L	0.0124	2.911 mg/L	0.0124	0.42%
QC value within limits for Barium Recovery = 97.04%						
Beryllium†	1729455.8	1.030 mg/L	0.0043	1.030 mg/L	0.0043	0.42%
QC value within limits for Beryllium Recovery = 102.99%						
Boron†	106225.8	5.141 mg/L	0.0278	5.141 mg/L	0.0278	0.54%
QC value within limits for Boron Recovery = 102.82%						
Cadmium†	48479.1	3.045 mg/L	0.0317	3.045 mg/L	0.0317	1.04%
QC value within limits for Cadmium Recovery = 101.50%						
Chromium†	176653.4	2.848 mg/L	0.0122	2.848 mg/L	0.0122	0.43%
QC value within limits for Chromium Recovery = 94.95%						
Cobalt†	33829.8	2.724 mg/L	0.0280	2.724 mg/L	0.0280	1.03%
QC value within limits for Cobalt Recovery = 90.81%						
Copper†	290737.3	3.160 mg/L	0.0146	3.160 mg/L	0.0146	0.46%
QC value within limits for Copper Recovery = 105.32%						
Lithium†	3561.7	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	2.02%
QC value within limits for Lithium Recovery = Not calculated						
Manganese†	754759.8	1.953 mg/L	0.0079	1.953 mg/L	0.0079	0.40%
QC value within limits for Manganese Recovery = 97.65%						
Molybdenum†	17257.2	2.949 mg/L	0.0366	2.949 mg/L	0.0366	1.24%
QC value within limits for Molybdenum Recovery = 98.32%						
Nickel†	35004.6	2.667 mg/L	0.0314	2.667 mg/L	0.0314	1.18%
QC value within limits for Nickel Recovery = 88.89%						
Lead†	15737.9	9.430 mg/L	0.1070	9.430 mg/L	0.1070	1.14%
QC value within limits for Lead Recovery = 94.30%						
Selenium†	1883.5	5.128 mg/L	0.0403	5.128 mg/L	0.0403	0.79%
QC value within limits for Selenium Recovery = 102.57%						
Silver†	366436.1	3.048 mg/L	0.0502	3.048 mg/L	0.0502	1.65%
QC value within limits for Silver Recovery = 101.59%						
Strontium†	5623062.1	0.4673 mg/L	0.00364	0.4673 mg/L	0.00364	0.78%
QC value within limits for Strontium Recovery = 93.46%						
Tin†	321.2	0.4427 mg/L	0.00661	0.4427 mg/L	0.00661	1.49%
QC value within limits for Tin Recovery = 88.55%						
Thallium†	13194.3	9.233 mg/L	0.1211	9.233 mg/L	0.1211	1.31%
QC value within limits for Thallium Recovery = 92.33%						
Titanium†	2127403.0	9.655 mg/L	0.0582	9.655 mg/L	0.0582	0.60%
QC value within limits for Titanium Recovery = 96.55%						
Vanadium†	203947.4	3.009 mg/L	0.0114	3.009 mg/L	0.0114	0.38%
QC value within limits for Vanadium Recovery = 100.29%						
Zinc†	25370.2	2.613 mg/L	0.0321	2.613 mg/L	0.0321	1.23%
QC value within limits for Zinc Recovery = 87.08%						
Argon	3538943.0	86.16 mg/L	0.255	86.16 mg/L	0.255	0.30%
Sodium†	19493493.1	94.19 mg/L	0.266	94.19 mg/L	0.266	0.28%
Magnesium†	66042367.3	329.5 mg/L	2.25	329.5 mg/L	2.25	0.68%
Iron†	13683013.6	371.8 mg/L	2.61	371.8 mg/L	2.61	0.70%
Calcium†	52662634.3	462.6 mg/L	3.36	462.6 mg/L	3.36	0.73%
Potassium†	30304804.4	334.0 mg/L	2.74	334.0 mg/L	2.74	0.82%
Aluminum radial†	970888.4	541.5 mg/L	6.73	541.5 mg/L	6.73	1.24%
QC value within limits for Aluminum radial Recovery = 108.29%						
Calcium radial†	2666370.4	512.1 mg/L	7.65	512.1 mg/L	7.65	1.49%
QC value within limits for Calcium radial Recovery = 102.42%						
Iron radial†	768064.9	504.7 mg/L	7.32	504.7 mg/L	7.32	1.45%
QC value within limits for Iron radial Recovery = 100.93%						
Magnesium radial†	4365706.0	483.8 mg/L	6.07	483.8 mg/L	6.07	1.26%
QC value within limits for Magnesium radial Recovery = 96.76%						
Sodium radial†	206340.0	55.89 mg/L	0.724	55.89 mg/L	0.724	1.30%
QC value within limits for Sodium radial Recovery = 111.78%						
Potassium radial†	150100.4	235.1 mg/L	2.72	235.1 mg/L	2.72	1.16%
QC value within limits for Potassium radial Recovery = 117.55%						
Stonrium radial†	284422.7	0.5490 mg/L	0.00718	0.5490 mg/L	0.00718	1.31%
QC value within limits for Stonrium radial Recovery = 109.80%						

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: RINSE BLANK
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 125
Date Collected: 3/7/2011 12:08:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: RINSE BLANK

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	582774.7	96.41	%	1.427				1.48%
Aluminumt	18776.1	0.5001	mg/L	0.56364	0.5001	mg/L	0.56364	112.71%
Antimonyt	6.7	0.0094	mg/L	0.00399	0.0094	mg/L	0.00399	42.18%
Arsenict	6.2	0.0048	mg/L	0.00843	0.0048	mg/L	0.00843	176.97%
Bariumt	79.9	-0.0003	mg/L	0.00140	-0.0003	mg/L	0.00140	547.14%
Berylliumt	1504.2	-0.0012	mg/L	0.00109	-0.0012	mg/L	0.00109	88.24%
Boront	349.8	0.0167	mg/L	0.00396	0.0167	mg/L	0.00396	23.77%
Cadmiumt	22.3	-0.0002	mg/L	0.00036	-0.0002	mg/L	0.00036	233.61%
Chromiumt	70.1	-0.0007	mg/L	0.00168	-0.0007	mg/L	0.00168	231.53%
Cobaltt	11.2	-0.0016	mg/L	0.00170	-0.0016	mg/L	0.00170	107.78%
Coppert	269.9	0.0014	mg/L	0.00247	0.0014	mg/L	0.00247	173.52%
Lithiumt	174.7	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	9.78%
Manganeset	413.0	-0.0011	mg/L	0.00100	-0.0011	mg/L	0.00100	91.12%
Molybdenumt	2.5	-0.0029	mg/L	0.00178	-0.0029	mg/L	0.00178	61.99%
Nickelt	18.3	-0.0008	mg/L	0.00050	-0.0008	mg/L	0.00050	64.26%
Leadt	4.4	0.0006	mg/L	0.00503	0.0006	mg/L	0.00503	854.85%
Seleniumt	0.1	-0.0006	mg/L	0.00692	-0.0006	mg/L	0.00692	>999.9%
Silvert	1029.8	0.0088	mg/L	0.00305	0.0088	mg/L	0.00305	34.69%
Strontiumt	4637.6	-0.0011	mg/L	0.00046	-0.0011	mg/L	0.00046	43.29%
Tint	1.2	-0.0050	mg/L	0.00259	-0.0050	mg/L	0.00259	52.18%
Thalliumt	10.1	0.0025	mg/L	0.00348	0.0025	mg/L	0.00348	138.08%
Titaniumt	1992.0	0.0070	mg/L	0.00990	0.0070	mg/L	0.00990	141.85%
Vanadiumt	161.5	0.0008	mg/L	0.00257	0.0008	mg/L	0.00257	309.31%
Zinct	7.4	-0.0017	mg/L	0.00144	-0.0017	mg/L	0.00144	86.70%
Argon	3825106.0	93.13	mg/L	0.597	93.13	mg/L	0.597	0.64%
Sodiumt	1421.8	0.0843	mg/L	0.02741	0.0843	mg/L	0.02741	32.51%
Magnesiumt	90291.9	0.4505	mg/L	0.49906	0.4505	mg/L	0.49906	110.78%
Iront	19043.5	0.5145	mg/L	0.57689	0.5145	mg/L	0.57689	112.13%
Calciumt	49015.9	0.4285	mg/L	0.47347	0.4285	mg/L	0.47347	110.49%
Potassiumt	6975.5	0.1786	mg/L	0.08461	0.1786	mg/L	0.08461	47.38%
Aluminum radialt	6669.7	3.719	mg/L	0.7868	3.719	mg/L	0.7868	21.16%
Calcium radialt	17646.5	3.382	mg/L	0.7574	3.382	mg/L	0.7574	22.39%
Iron radialt	5866.4	3.848	mg/L	0.8224	3.848	mg/L	0.8224	21.37%
Magnesium radialt	32268.5	3.571	mg/L	0.7894	3.571	mg/L	0.7894	22.10%
Sodium radialt	920.2	0.2199	mg/L	0.07068	0.2199	mg/L	0.07068	32.14%
Potassium radialt	633.5	0.9520	mg/L	0.28228	0.9520	mg/L	0.28228	29.65%
Stonrium radialt	1764.3	0.0010	mg/L	0.00072	0.0010	mg/L	0.00072	71.17%

Sequence No.: 41
Sample ID: RINSE BLANK
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 126
Date Collected: 3/7/2011 12:10:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: RINSE BLANK

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium	588555.3	97.37	%	1.272				1.31%
Aluminumt	170.5	-0.0030	mg/L	0.00054	-0.0030	mg/L	0.00054	17.93%
Antimonyt	1.1	0.0012	mg/L	0.01394	0.0012	mg/L	0.01394	>999.9%
Arsenict	0.9	-0.0039	mg/L	0.00391	-0.0039	mg/L	0.00391	100.63%
Bariumt	3.4	-0.0018	mg/L	0.00009	-0.0018	mg/L	0.00009	4.88%
Berylliumt	-28.8	-0.0022	mg/L	0.00009	-0.0022	mg/L	0.00009	3.97%
Boront	111.9	0.0050	mg/L	0.00051	0.0050	mg/L	0.00051	10.23%
Cadmiumt	-2.5	-0.0016	mg/L	0.00011	-0.0016	mg/L	0.00011	6.58%

Chromium†	-25.7	-0.0023 mg/L	0.00007	-0.0023 mg/L	0.00007	3.17%
Cobalt†	-5.5	-0.0029 mg/L	0.00039	-0.0029 mg/L	0.00039	13.40%
Copper†	35.9	-0.0012 mg/L	0.00015	-0.0012 mg/L	0.00015	12.48%
Lithium†	72.1	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	4.73%
Manganese†	1.4	-0.0022 mg/L	0.00005	-0.0022 mg/L	0.00005	2.19%
Molybdenum†	-7.2	-0.0047 mg/L	0.00082	-0.0047 mg/L	0.00082	17.54%
Nickel†	1.5	-0.0021 mg/L	0.00135	-0.0021 mg/L	0.00135	65.79%
Lead†	-8.0	-0.0069 mg/L	0.00274	-0.0069 mg/L	0.00274	39.41%
Selenium†	-1.7	-0.0069 mg/L	0.00207	-0.0069 mg/L	0.00207	29.87%
Silver†	126.7	0.0014 mg/L	0.00055	0.0014 mg/L	0.00055	40.15%
Strontium†	-256.4	-0.0014 mg/L	0.00001	-0.0014 mg/L	0.00001	0.76%
Tin†	2.6	-0.0037 mg/L	0.00212	-0.0037 mg/L	0.00212	57.21%
Thallium†	4.6	-0.0013 mg/L	0.00303	-0.0013 mg/L	0.00303	235.37%
Titanium†	51.0	-0.0018 mg/L	0.00006	-0.0018 mg/L	0.00006	3.41%
Vanadium†	-143.3	-0.0030 mg/L	0.00048	-0.0030 mg/L	0.00048	16.33%
Zinc†	-8.3	-0.0033 mg/L	0.00031	-0.0033 mg/L	0.00031	9.60%
Argon	3850916.2	93.76 mg/L	0.108	93.76 mg/L	0.108	0.12%
Sodium†	-3697.5	0.0596 mg/L	0.00031	0.0596 mg/L	0.00031	0.52%
Magnesium†	1790.1	0.0089 mg/L	0.00139	0.0089 mg/L	0.00139	15.58%
Iron†	310.3	0.0054 mg/L	0.00096	0.0054 mg/L	0.00096	17.76%
Calcium†	1040.0	0.0071 mg/L	0.00190	0.0071 mg/L	0.00190	26.82%
Potassium†	-462.2	0.0966 mg/L	0.00128	0.0966 mg/L	0.00128	1.33%
Aluminum radial†	25.7	0.0133 mg/L	0.00728	0.0133 mg/L	0.00728	54.66%
Calcium radial†	79.3	0.0084 mg/L	0.00237	0.0084 mg/L	0.00237	28.41%
Iron radial†	14.8	0.0032 mg/L	0.00235	0.0032 mg/L	0.00235	72.93%
Magnesium radial†	98.5	0.0060 mg/L	0.00054	0.0060 mg/L	0.00054	9.06%
Sodium radial†	-78.6	-0.0508 mg/L	0.00804	-0.0508 mg/L	0.00804	15.84%
Potassium radial†	7.2	-0.0291 mg/L	0.03913	-0.0291 mg/L	0.03913	134.59%
Stonrium radial†	-6.5	-0.0024 mg/L	0.00004	-0.0024 mg/L	0.00004	1.82%

METALS PREP AND ANALYTICAL RUN LOGS

SPL, Inc.

PREP BATCH REPORT

Prep Batch ID: **98096**
Prep Code: **PR3010_6020**
Technician: **Savannah Alfred**

Prep Start Date: **2/21/2011 5:00:00 PM**
Prep End Date: **2/22/2011 5:00:00 AM**

Sample ID	Matrix	Vial	pH	wt (Kg)	Ini vol (mL)	Surr Added	Spk Added	Homog	Fin Vol (mL)	Factor	SDG
11020727-01A	Water	1		0	50	1		X	50	1	
11020727-02A	Water	1		0	50	1		X	50	1	
11020727-03A	Water	1		0	50	1		X	50	1	
11020727-04A	Water	1		0	50	1		X	50	1	
11020727-05A	Water	1		0	50	1		X	50	1	
11020727-06A	Water	1		0	50	1		X	50	1	
11020727-07A	Water	1		0	50	1		X	50	1	
11020727-08A	Water	1		0	50	1		X	50	1	
11020727-09A	Water	1		0	50	1		X	50	1	
11020727-10A	Water	1		0	50	1		X	50	1	
11020727-11A	Water	1		0	50	1		X	50	1	
11020727-11AMS	Water	1		0	50	1		X	50	1	
11020727-11AMSD	Water	1		0	50	1		X	50	1	
11020727-12A	Water	1		0	50	1		X	50	1	
11020727-13A	Water	1		0	50	1		X	50	1	
11020727-14A	Water	1		0	50	1		X	50	1	
11020727-15A	Water	1		0	50	1		X	50	1	
11020727-16A	Water	1		0	50	1		X	50	1	
11020727-17A	Water	1		0	50	1		X	50	1	
11020727-18A	Water	1		0	50	1		X	50	1	
11020727-19A	Water	1		0	50	1		X	50	1	
11020727-20A	Water	1		0	50	1		X	50	1	
LCS-98096		1		0	50	1		X	50	1	
MBLK-98096		1		0	50	1		X	50	1	

SPL, Inc.

PREP BATCH REPORT

Prep Batch ID: **98097**
Prep Code: **PR3010_6020**
Technician: **Savannah Alfred**

Prep Start Date: **2/21/2011 5:00:00 PM**
Prep End Date: **2/22/2011 5:00:00 AM**

Sample ID	Matrix	Vial	pH	wt (Kg)	Ini vol (mL)	Surr Added	Spk Added	Homog	Fin Vol (mL)	Factor	SDG
11020687-01D	Water	1		0	50	1		X	50	1	
11020687-03D	Water	1		0	50	1		X	50	1	
11020689-01C	Water	1		0	50	1		X	50	1	
11020689-03C	Water	1		0	50	1		X	50	1	
11020689-05C	Water	1		0	50	1		X	50	1	
11020727-21A	Water	1		0	50	1		X	50	1	
11020727-22A	Water	1		0	50	1		X	50	1	
11020727-23A	Water	1		0	50	1		X	50	1	
11020727-24A	Water	1		0	50	1		X	50	1	
11020727-25A	Water	1		0	50	1		X	50	1	
11020727-26A	Water	1		0	50	1		X	50	1	
11020727-27A	Water	1		0	50	1		X	50	1	
11020727-28A	Water	1		0	50	1		X	50	1	
11020727-29A	Water	1		0	50	1		X	50	1	
11020727-30A	Water	1		0	50	1		X	50	1	
11020727-31A	Water	1		0	50	1		X	50	1	
11020727-32A	Water	1		0	50	1		X	50	1	
11020727-33A	Water	1		0	50	1		X	50	1	
11020727-33AMS	Water	1		0	50	1		X	50	1	
11020727-33AMSD	Water	1		0	50	1		X	50	1	
11020727-34A	Water	1		0	50	1		X	50	1	
11020727-35A	Water	1		0	50	1		X	50	1	
LCS-98097		1		0	50	1		X	50	1	
MBLK-98097		1		0	50	1		X	50	1	

SPL, Inc.

PREP BATCH REPORT

Prep Batch ID: **98257**
Prep Code: **PR3005_6010**
Technician: **Savannah Alfred**

Prep Start Date: **2/25/2011 8:00:00 AM**
Prep End Date: **2/25/2011 8:05:00 AM**

Sample ID	Matrix	Vial	pH	wt (Kg)	Ini vol (mL)	Surr Added	Spk Added	Homog	Fin Vol (mL)	Factor	SDG
11020727-03B	Water	1		0	100	1		X	100	1	
11020727-22B	Water	1		0	100	1		X	100	1	
11020727-32B	Water	1		0	100	1		X	100	1	
LCS-98257		1		0	100	1		X	100	1	
MBLK-98257		1		0	100	1		X	100	1	

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID
1	1		Calib Blank 06135-246-01
2	2		Calib Std 1 07022-216-14
3	3		Calib Std 2 06126-08-11
4	4		Calib Std 3 -32-11
5	5		Calib Std 4 -58-11
6	6		Calib Std 5 -82-11
7	7	QC	ICV 06126-136-17
8	101	QC	LLICV 07022-214-16
9	8	QC	ICB 06135-246-01
10	1	QC	CCV 06126-285-08
11	101	QC	LLCCV 07022-214-16
12	2	QC	CCB 06135-246-01
13	9	QC	ICSA 06126-165-08
14	10	QC	ICSAB 06126-205-08
15	102		RINSE BLANK
16	103		RINSE BLANK
17	104		MBLK-98363
18	105		LCS-98363
19	106		11020566-04D MW-10
20	107		11020566-04DSD
21	108		11020566-04DMS
22	109		11020566-04DMSD
23	1	QC	CCV
24	101	QC	LLCCV
25	2	QC	CCB
26	110		11020566-04DDUP
27	111		11020566-04DPDS
28	112		11020566-04DPDSD
29	1	QC	CCV
30	101	QC	LLCCV
31	2	QC	CCB
32	9	QC	ICSA
33	10	QC	ICSAB
34	124		RINSE BLANK
35	125		RINSE BLANK
36	113		11020566-05D MW-46
37	114		11020566-06D MW-11
38	115		11020566-07D MW-127
39	116		11020566-09D MW-128
40	117		11020566-10D MW-137
41	118		11020566-11D QC DUP #3
42	1	QC	CCV
43	101	QC	LLCCV
44	2	QC	CCB
45	119		11020566-12D MW-126
46	120		11020566-13D MW-41
47	121		11020566-14D FIELD BLANK #5
48	122		11020566-01D MW-138
49	123		11020566-03D RINSATE BLANK
50	1	QC	CCV
51	101	QC	LLCCV
52	2	QC	CCB
53	9	QC	ICSA
54	10	QC	ICSAB
55	124		RINSE BLANK
56	125		RINSE BLANK

1103061355TDV
03-06-11
SW

yttrium

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID	Status
57	312		MBLK-98365	
58	313		LCS-98365	
59	314		11020840-13D RW-57A	
60	315		11020840-13DSD	
61	316		11020840-13DMS	
62	317		11020840-13DMSD	
63	1	QC	CCV	
64	101		LLCCV	
65	2	QC	CCB	
66	318		11020840-13DDUP	
67	319		11020840-13DPDS	
68	320		11020840-13DPDSD	
69	1	QC	CCV	
70	101		LLCCV	
71	2	QC	CCB	
72	9	QC	ICSA	
73	10	QC	ICSAB	
74	338		RINSE BLANK	
75	339		RINSE BLANK	
76	321		11020840-14D RW-36	
77	322		11020840-15D RW-61	
78	323		11020840-16D RW-60	
79	324		11020840-17D MW-2R2	
80	325		11020840-18D MW-51R	
81	326		11020840-19D FIELDBLANK #8	
82	1	QC	CCV	
83	101		LLCCV	
84	2	QC	CCB	
85	327		11020840-01D MW-49	
86	328		11020840-02D RW-59	
87	329		11020840-03D MW-66	
88	330		11020840-04D RW-58	
89	331		11020840-05D FIELD BLANK #7	
90	332		11020840-07D RW-63	
91	333		11020840-08D RW-64	
92	334		11020840-09D MW-121	
93	335		11020840-10D MW-52R1	
94	336		11020840-11D QCDUP#5	
95	1	QC	CCV	
96	101		LLCCV	
97	2	QC	CCB	
98	337		11020840-12D RW-3	
99	1	QC	CCV	
100	101		LLCCV	
101	2	QC	CCB	
102	9	QC	ICSA	
103	10	QC	ICSAB	
104	338		RINSE BLANK	
105	339		RINSE BLANK	
106	434		MBLK-98267	
107	435		LCS-98267	
108	436		11020876-02F	
109	437		11020876-02FSD	
110	438		11020876-02FMS	
111	439		11020876-02FMSD	
112	1	QC	CCV	

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID	Status
113	2	QC	CCB	
114	440		11020876-02FPDS	
115	441		11020876-02FPDSD	
116	1	QC	CCV	
117	2	QC	CCB	
118	9	QC	ICSA	
119	10	QC	ICSAB	
120	442		RINSE BLANK	
121	443		RINSE BLANK	
122	444		MBLK-98266	
123	445		LCS-98266	
124	446		11020931-01C	
125	447		11020931-01CSD	
126	448		11020931-01CMS	
127	449		11020931-01CMSD	
128	1	QC	CCV	
129	2	QC	CCB	
130	450		11020931-01CPDS	
131	451		11020931-01CPDSD	
132	452		11020931-02C	
133	453		11020931-03C	
134	454		11020931-04C	
135	455		11020931-05C	
136	456		11020931-06C	
137	1	QC	CCV	
138	2	QC	CCB	
139	9	QC	ICSA	
140	10	QC	ICSAB	
141	457		RINSE BLANK	
142	458		RINSE BLANK	
143	406		MBLK-98409	
144	407		LCS-98409	
145	408		11021039-01A	
146	409		11021039-01ASD	
147	410		11021039-01AMS	
148	411		11021039-01ADUP	
149	1	QC	CCV	
150	2	QC	CCB	
151	412		11021039-01APDS	
152	1	QC	CCV	
153	2	QC	CCB	
154	9	QC	ICSA	
155	10	QC	ICSAB	
156	413		RINSE BLANK	
157	414		RINSE BLANK	
158	415		MBLK-98406	
159	416		LCS-98406	
160	417		11021038-01A	
161	418		11021038-01ASD	
162	419		11021038-01AMS	
163	420		11021038-01ADUP	
164	1	QC	CCV	
165	2	QC	CCB	
166	421		11021038-01APDS	
167	1	QC	CCV	
168	2	QC	CCB	

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID	Status
169	9	QC	ICSA	
170	10	QC	ICSAB	
171	422		RINSE BLANK	
172	423		RINSE BLANK	
173	424		MBLK-98424	
174	425		LCS-98424	
175	426		11021087-01C	
176	427		11021087-01CSD	
177	428		11021087-01CMS	
178	429		11021087-01CMSD	
179	1	QC	CCV	
180	2	QC	CCB	
181	430		11021087-01CPDS	
182	431		11021087-01CPDSD	
183	1	QC	CCV	
184	2	QC	CCB	
185	9	QC	ICSA	
186	10	QC	ICSAB	
187	432		RINSE BLANK	
188	433		RINSE BLANK	
189	126		MBLK-98096	
190	127		LCS-98096	
191	128		11020727-11A QC	
192	129		11020727-11ASD	
193	130		11020727-11AMS	
194	131		11020727-11AMSD	
195	1	QC	CCV	
196	2	QC	CCB	
197	132		11020727-11APDS	
198	133		11020727-11APDSD	
199	134		11020727-14A MW-6	
200	135		11020727-02A BA-09	
201	3	QC	CCV	
202	4	QC	CCB	
203	9	QC	ICSA	
204	10	QC	ICSAB	
205	136		RINSE BLANK	
206	137		RINSE BLANK	
207	138		MBLK-98097	
208	139		LCS-98097	
209	140		11020727-33A QC	
210	141		11020727-33ASD	
211	142		11020727-33AMS	
212	143		11020727-33AMSD	
213	3	QC	CCV	
214	4	QC	CCB	
215	144		11020727-33APDS	
216	145		11020727-33APDSD	
217	146		11020727-22A BA-01	
218	147		11020727-23A DW-3	
219	148		11020727-25A DW-2	
220	149		11020727-26A DUPLICATE # 3	
221	150		11020727-28A BA-05	
222	151		11020727-31A MW-1	
223	3	QC	CCV	
224	4	QC	CCB	

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID	Status
225	9	QC	ICSA	
226	10	QC	ICSAB	
227	152		RINSE BLANK	
228	153		RINSE BLANK	
229	154		MBLK-98257	
230	155		LCS-98257	
231	156		11020727-03B QC	
232	157		11020727-03BSD	
233	158		11020727-03BMS	
234	159		11020727-03BMSD	
235	3	QC	CCV	
236	4	QC	CCB	
237	160		11020727-03BPDS	
238	201		11020727-03BPDSD	
239	202		11020727-22B BA-01	
240	3	QC	CCV	
241	4	QC	CCB	
242	9	QC	ICSA	
243	10	QC	ICSAB	
244	203		RINSE BLANK	
245	204		RINSE BLANK	
246	205		MBLK-98353	
247	206		LCS-98353	
248	207		11021042-01A	
249	208		11021042-01ASD	
250	209		11021042-01AMS	
251	210		11021042-01AMSD	
252	3	QC	CCV	
253	4	QC	CCB	
254	211		11021042-01APDS	
255	212		11021042-01APDSD	
256	213		11021042-02A	
257	214		11021042-03A	
258	215		11021042-04A	
259	216		11021042-05A	
260	217		11021042-06A	
261	218		11021042-07A	
262	219		11021042-08A	
263	220		11021042-09A	
264	3	QC	CCV	
265	4	QC	CCB	
266	9	QC	ICSA	
267	10	QC	ICSAB	
268	221		RINSE BLANK	
269	222		RINSE BLANK	
270	223		MBLK-98489	
271	224		LCS-98489	
272	225		11021105-01A	
273	226		11021105-01ASD	
274	227		11021105-01AMS	
275	228		11021105-01ADUP	
276	3	QC	CCV	
277	4	QC	CCB	
278	229		11021105-01APDS	
279	230		11021106-01A	
280	231		11021107-01A	

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID	Status
281	5	QC	CCV	
282	6	QC	CCB	
283	9	QC	ICSA	
284	10	QC	ICSAB	
285	232		RINSE BLANK	
286	233		RINSE BLANK	
287	234		MBLK-98490	
288	235		LCS-98490	
289	236		11030031-20B	
290	237		11030031-20BSD	
291	238		11030031-20BMS	
292	239		11030031-20BDUP	
293	5	QC	CCV	
294	6	QC	CCB	
295	240		11030031-20BPDS	
296	5	QC	CCV	
297	6	QC	CCB	
298	9	QC	ICSA	
299	10	QC	ICSAB	
300	241		RINSE BLANK	
301	242		RINSE BLANK	
302	243		MBLK-98445	
303	244		LCS-98445	
304	245		11030036-01A	
305	246		11030036-01ASD	
306	247		11030036-01AMS	
307	248		11030036-01AMSD	
308	5	QC	CCV	
309	6	QC	CCB	
310	249		11030036-01APDS	
311	250		11030036-01APDSD	
312	5	QC	CCV	
313	6	QC	CCB	
314	9	QC	ICSA	
315	10	QC	ICSAB	
316	251		RINSE BLANK	
317	252		RINSE BLANK	
318	253		MBLK-98471	
319	254		LCS-98471	
320	255		11021082-01A	
321	256		11021082-01ASD	
322	257		11021082-01AMS	
323	258		11021082-01AMSD	
324	5	QC	CCV	
325	6	QC	CCB	
326	259		11021082-01APDS	
327	260		11021082-01APDSD	
328	301		11021082-02A	
329	302		11021082-03A	
330	303		11021082-04A	
331	304		11021082-05A	
332	305		11021082-06A	
333	306		11021082-07A	
334	307		11021082-08A	
335	308		11030081-03A	
336	5	QC	CCV	

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID	Status
337	6	QC	CCB	
338	309		11030120-01A	
339	5	QC	CCV	
340	6	QC	CCB	
341	9	QC	ICSA	
342	10	QC	ICSAB	
343	310		RINSE BLANK	
344	311		RINSE BLANK	

Analytical Sequence

Method : spl dan 6010B.C 200

Seq.	Loc.		Sample ID
1	1		Calib Blank 060135-246-01
2	2		Calib Std 1 07022 - 216-15
3	3		Calib Std 2 060126-68-12
4	4		Calib Std 3 32-12
5	5		Calib Std 4 58-12
6	6		Calib Std 5 82-12
7	7	QC	ICV 060126-137-01
8	101		LLICV 07022-214-17
9	8	QC	ICB 060135-246-01
10	1	QC	CCV 060126-285-09
11	101		LLCCV 07022-214-17
12	2	QC	CCB 060135-246-01
13	9	QC	ICSA 060126-165-09
14	10	QC	ICSAB 060126-205-09
15	102		RINSE BLANK
16	103		RINSE BLANK
17	104		MBLK-98353
18	105		LCS-98353
19	106		11021042-01A
20	107		11021042-01ASD
21	108		11021042-01AMS
22	109		11021042-01AMSD
23	1	QC	CCV
24	2	QC	CCB
25	110		11021042-01APDS
26	111		11021042-01APDSD
27	112		11021042-02A
28	113		11021042-03A
29	114		11021042-04A
30	115		11021042-05A
31	116		11021042-06A
32	117		11021042-07A
33	118		11021042-08A
34	119		11021042-09A
35	1	QC	CCV
36	2	QC	CCB
37	120		11020727-02A BA-09
38	121		11020727-25A DW-2
39	122		11020727-26A DUPLICATE # 3
40	123		11020727-31A MW-1
41	124		11030081-03A
42	1	QC	CCV
43	2	QC	CCB
44	9	QC	ICSA
45	10	QC	ICSAB
46	125		RINSE BLANK
47	126		RINSE BLANK

11/03071020DV
0307-11
SW

yttrium
07022-202-14

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

SEMS, INC.

Certificate of Analysis Number:

11020727

Report To:		Project Name:	207-0016
SEMS, INC.		Site:	DELATTE METALS
JESSE HOPPES		Site Address:	
11628 S. CHOCTAW DRIVE			PONCHATOULA LA
BATON ROUGE		PO Number:	
LA		State:	Louisiana
70815-		State Cert. No.:	02048
ph: (225) 924-2002	fax: (225) 924-2004	Date Reported:	3/11/2011

I. SAMPLE RECEIPT

A. All samples were received intact. The internal ice chest temperatures were measured upon receipt and recorded on the Sample Receipt Checklist included in this data package.

II. ANALYSIS

A. Holding Times: All analyses were completed within the recommended holding time.

B. Measurement Basis: "J" values may be presented for the analyses in this report. Programmatically, "J" values are those confirmed values for components detected less than the "Rep. Limit" but greater than the laboratory method detection limit (MDL). Thus, it should be noted that positive values may appear on quantitation reports but not on Form I if those values are below the MDL.

C. Analytical Exceptions:

Total Metals by SW846 method 6020: Laboratory batch 98096-Target analytes Lead, Manganese, Thallium, and Zinc were detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results. The sample selected for use in Accutest Gulf Coast/SPL Laboratory's quality control program had Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recoveries that were outside of the advisable quality control limits for Arsenic due to possible matrix interference. Other samples of like matrix collected from this site also may be affected. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed and all recoveries were within quality control limits. Laboratory batch 98097-Target analytes Lead, Manganese, Thallium, and Zinc were detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results. The sample selected for use in Accutest Gulf Coast/SPL Laboratory's quality control program had Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recoveries that were outside of the advisable quality control limits for Arsenic, Cadmium, Lead, Nickel, and Zinc due to possible matrix interference. Other samples of like matrix collected from this site also may be affected. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed and all recoveries were within quality control limits. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Total Metals by SW846 method 6010B: Laboratory batch 98097-Target analyte Arsenic was detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results.

Dissolved Metals by SW846 method 6010B: Laboratory batch 98257-Target analyte Arsenic was detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results.

3/11/2011

Amy K. Jackson
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

SEMS, INC.

Certificate of Analysis Number:

11020727

Dissolved Metals by SW846 method 6020: Laboratory batch 98257-Target analytes Cadmium, Nickel, Thallium, and Zinc were detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results.

III. QUALITY CONTROL

A. Analytical Protocol and Deliverables: The samples were analyzed in accordance with the protocol requirements.

B. Initial and Continuing Calibrations: All QA acceptance criteria were met for initial and continuing calibration samples.

C. Blanks: Method and calibration blanks met the method criteria.

NOTE: This data package was produced using software base on CLP type deliverables. The forms and documentation in this data package are to be considered "CLP-like" and may not meet all the criteria specified in the CLP protocols. The data are reported based on the method requirements.

CERTIFICATION:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

3/11/2011

Amy K. Jackson
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

SEMS, INC.

Certificate of Analysis Number:

11020727

Report To: SEMS, INC.
JESSE HOPPES
11628 S. CHOCTAW DRIVE

BATON ROUGE
LA
70815-
ph: (225) 924-2002 fax: (225) 924-2004

Fax To:

Project Name: 207-0016
Site: DELATTE METALS
Site Address:
PONCHATOULA LA
PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 3/11/2011

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
BA-09A	11020727-01	Water	02/14/2011 9:19	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-09	11020727-02	Water	02/14/2011 10:01	2/18/2011 5:10:00 PM	954-322956, 322	☐
MW-4	11020727-03	Water	02/14/2011 10:44	2/18/2011 5:10:00 PM	954-322956, 322	☐
WW-09	11020727-04	Water	02/14/2011 11:05	2/18/2011 5:10:00 PM	954-322956, 322	☐
WW-04	11020727-05	Water	02/14/2011 11:35	2/18/2011 5:10:00 PM	954-322956, 322	☐
(b) (6) WELL	11020727-06	Water	02/14/2011 11:40	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-03	11020727-07	Water	02/14/2011 12:14	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-07	11020727-08	Water	02/14/2011 12:48	2/18/2011 5:10:00 PM	954-322956, 322	☐
DW-04	11020727-09	Water	02/14/2011 13:09	2/18/2011 5:10:00 PM	954-322956, 322	☐
DUPLICATE #1	11020727-10	Water	02/14/2011 13:09	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-19	11020727-11	Water	02/14/2011 13:28	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-19MS	11020727-11MS	Water	02/14/2011 13:28	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-19MSD	11020727-11MSD	Water	02/14/2011 13:28	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-25	11020727-12	Water	02/14/2011 13:51	2/18/2011 5:10:00 PM	954-322956, 322	☐
MW-3	11020727-13	Water	02/14/2011 14:13	2/18/2011 5:10:00 PM	954-322956, 322	☐
MW-6	11020727-14	Water	02/14/2011 14:53	2/18/2011 5:10:00 PM	954-322956, 322	☐
BB-01	11020727-15	Water	02/15/2011 8:51	2/18/2011 5:10:00 PM	954-322956, 322	☐
SOUTH WELL	11020727-16	Water	02/15/2011 9:04	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-17	11020727-17	Water	02/15/2011 9:21	2/18/2011 5:10:00 PM	954-322956, 322	☐
NORTH WELL	11020727-18	Water	02/15/2011 9:33	2/18/2011 5:10:00 PM	954-322956, 322	☐
BC-21R	11020727-19	Water	02/15/2011 9:58	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-01A	11020727-20	Water	02/15/2011 10:19	2/18/2011 5:10:00 PM	954-322956, 322	☐

Amy K. Jackson
Project Manager

3/11/2011
Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

SEMS, INC.

Certificate of Analysis Number:

11020727

Report To: SEMS, INC.
JESSE HOPPES
11628 S. CHOCTAW DRIVE

BATON ROUGE
LA
70815-
ph: (225) 924-2002 fax: (225) 924-2004

Fax To:

Project Name: 207-0016
Site: DELATTE METALS
Site Address:
PONCHATOULA LA
PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 3/11/2011

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
DUPLICATE #2	11020727-21	Water	02/15/2011 10:19	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-01	11020727-22	Water	02/15/2011 11:21	2/18/2011 5:10:00 PM	954-322956, 322	☐
DW-3	11020727-23	Water	02/15/2011 13:04	2/18/2011 5:10:00 PM	954-322956, 322	☐
PW-4	11020727-24	Water	02/15/2011 13:25	2/18/2011 5:10:00 PM	954-322956, 322	☐
DW-2	11020727-25	Water	02/15/2011 13:53	2/18/2011 5:10:00 PM	954-322956, 322	☐
DUPLICATE #3	11020727-26	Water	02/15/2011 13:53	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-05A	11020727-27	Water	02/16/2011 9:03	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-05	11020727-28	Water	02/16/2011 9:37	2/18/2011 5:10:00 PM	954-322956, 322	☐
MW-A	11020727-29	Water	02/16/2011 10:01	2/18/2011 5:10:00 PM	954-322956, 322	☐
DW-1	11020727-30	Water	02/16/2011 10:42	2/18/2011 5:10:00 PM	954-322956, 322	☐
MW-1	11020727-31	Water	02/16/2011 11:19	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-03A	11020727-32	Water	02/16/2011 12:00	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-03	11020727-33	Water	02/16/2011 12:20	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-03MS	11020727-33MS	Water	02/16/2011 12:20	2/18/2011 5:10:00 PM	954-322956, 322	☐
BA-03MSD	11020727-33MSD	Water	02/16/2011 12:20	2/18/2011 5:10:00 PM	954-322956, 322	☐
MW-2	11020727-34	Water	02/16/2011 12:48	2/18/2011 5:10:00 PM	954-322956, 322	☐
DUPLICATE #4	11020727-35	Water	02/16/2011 12:48	2/18/2011 5:10:00 PM	954-322956, 322	☐

Amy K. Jackson
Project Manager

3/11/2011
Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

Version 2.1 - Modified February 11, 2011

3/11/2011 9:03:06 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-09A **Collected:** 02/14/2011 9:19 **SPL Sample ID:** 11020727-01

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00279	J	0.00133	0.004	0.01	1	02/24/11 11:04	RJD	3947725
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:04	RJD	3947725
Lead	0.000878	J	0.00028	0.001	0.015	1	02/24/11 11:04	RJD	3947725
Manganese	0.0267		0.000217	0.002		1	02/24/11 11:04	RJD	3947725
Nickel	0.000516	J	0.000477	0.002	0.073	1	02/24/11 11:04	RJD	3947725
Thallium	0.000424	J	0.00025	0.002	0.002	1	02/24/11 11:04	RJD	3947725
Zinc	0.00341	J	0.00122	0.01	1.1	1	02/24/11 11:04	RJD	3947725

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:03:49 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-09 **Collected:** 02/14/2011 10:01 **SPL Sample ID:** 11020727-02

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Cadmium	0.000453	J	5.28E-05	0.002	0.005	1	02/24/11 11:07	RJD	3947726
Lead	0.00123		0.00028	0.001	0.015	1	02/24/11 11:07	RJD	3947726
Manganese	2.61		0.000217	0.002		1	02/24/11 11:07	RJD	3947726
Nickel	**0.141**	**>MCL**	**0.000477**	**0.002**	**0.073**	**1**	**02/24/11 11:07**	**RJD**	**3947726**
Thallium	0.000442	J	0.00025	0.002	0.002	1	02/24/11 11:07	RJD	3947726
Zinc	0.44		0.00122	0.01	1.1	1	02/24/11 11:07	RJD	3947726

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL		SW6010B Units: mg/L		
Arsenic	**0.0268**	**J>MCL**	**0.00985**	**0.1**	**0.01**	**5**	**03/07/11 11:52**	**SVW**	**3963210**

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:03:51 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-4 **Collected:** 02/14/2011 10:44 **SPL Sample ID:** 11020727-03

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
DISSOLVED METALS BY ICP/MS					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	03/03/11 13:44	RJD	3958775
Cadmium	0.000979	J	5.28E-05	0.002	0.005	1	03/03/11 5:25	RJD	3958425
Lead	ND		0.00028	0.001	0.015	1	03/03/11 5:25	RJD	3958425
Manganese	0.000235	J	0.000217	0.002		1	03/03/11 5:25	RJD	3958425
Nickel	0.00148	JB	0.000477	0.002	0.073	1	03/03/11 13:44	RJD	3958775
Thallium	0.000592	J	0.00025	0.002	0.002	1	03/03/11 5:25	RJD	3958425
Zinc	0.00204	J	0.00122	0.006	1.1	1	03/03/11 13:44	RJD	3958775

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/25/2011 8:00	SA	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11:10	RJD	3947727
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:10	RJD	3947727
Lead	0.00154		0.00028	0.001	0.015	1	02/24/11 11:10	RJD	3947727
Manganese	0.0134		0.000217	0.002		1	02/24/11 11:10	RJD	3947727
Nickel	0.0011	J	0.000477	0.002	0.073	1	02/24/11 11:10	RJD	3947727
Thallium	0.000417	J	0.00025	0.002	0.002	1	02/24/11 11:10	RJD	3947727
Zinc	0.00537	J	0.00122	0.01	1.1	1	02/24/11 11:10	RJD	3947727

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:03:53 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: WW-09 **Collected:** 02/14/2011 11:05 **SPL Sample ID:** 11020727-04

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11:12	RJD	3947728
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:12	RJD	3947728
Lead	0.00123		0.00028	0.001	0.015	1	02/24/11 11:12	RJD	3947728
Manganese	0.0161		0.000217	0.002		1	02/24/11 11:12	RJD	3947728
Nickel	ND		0.000477	0.002	0.073	1	02/24/11 11:12	RJD	3947728
Thallium	0.000414	J	0.00025	0.002	0.002	1	02/24/11 11:12	RJD	3947728
Zinc	0.00376	J	0.00122	0.01	1.1	1	02/24/11 11:12	RJD	3947728

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: WW-04 **Collected:** 02/14/2011 11:35 **SPL Sample ID:** 11020727-05

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11:15	RJD	3947729
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:15	RJD	3947729
Lead	0.000794	J	0.00028	0.001	0.015	1	02/24/11 11:15	RJD	3947729
Manganese	0.00355		0.000217	0.002		1	02/24/11 11:15	RJD	3947729
Nickel	ND		0.000477	0.002	0.073	1	02/24/11 11:15	RJD	3947729
Thallium	0.000413	J	0.00025	0.002	0.002	1	02/24/11 11:15	RJD	3947729
Zinc	0.00205	J	0.00122	0.01	1.1	1	02/24/11 11:15	RJD	3947729

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:03:55 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: (b) (6) WELL **Collected:** 02/14/2011 11:40 **SPL Sample ID:** 11020727-06

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00186	J	0.00133	0.004	0.01	1	02/24/11 11:18	RJD	3947730
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:18	RJD	3947730
Lead	0.00341		0.00028	0.001	0.015	1	02/24/11 11:18	RJD	3947730
Manganese	0.023		0.000217	0.002		1	02/24/11 11:18	RJD	3947730
Nickel	0.000568	J	0.000477	0.002	0.073	1	02/24/11 11:18	RJD	3947730
Thallium	0.000413	J	0.00025	0.002	0.002	1	02/24/11 11:18	RJD	3947730
Zinc	0.00368	J	0.00122	0.01	1.1	1	02/24/11 11:18	RJD	3947730

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:03:57 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BC-03 **Collected:** 02/14/2011 12:14 **SPL Sample ID:** 11020727-07

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11:21	RJD	3947731
Cadmium	0.0000556	J	5.28E-05	0.002	0.005	1	02/24/11 11:21	RJD	3947731
Lead	0.000948	J	0.00028	0.001	0.015	1	02/24/11 11:21	RJD	3947731
Manganese	0.00403		0.000217	0.002		1	02/24/11 11:21	RJD	3947731
Nickel	0.00186	J	0.000477	0.002	0.073	1	02/24/11 11:21	RJD	3947731
Thallium	0.000424	J	0.00025	0.002	0.002	1	02/24/11 11:21	RJD	3947731
Zinc	0.00298	J	0.00122	0.01	1.1	1	02/24/11 11:21	RJD	3947731

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:03:58 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BC-07 **Collected:** 02/14/2011 12:48 **SPL Sample ID:** 11020727-08

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00277	J	0.00133	0.004	0.01	1	02/24/11 11:23	RJD	3947732
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:23	RJD	3947732
Lead	0.00137		0.00028	0.001	0.015	1	02/24/11 11:23	RJD	3947732
Manganese	0.029		0.000217	0.002		1	02/24/11 11:23	RJD	3947732
Nickel	0.00317		0.000477	0.002	0.073	1	02/24/11 11:23	RJD	3947732
Thallium	0.000413	J	0.00025	0.002	0.002	1	02/24/11 11:23	RJD	3947732
Zinc	0.00661	J	0.00122	0.01	1.1	1	02/24/11 11:23	RJD	3947732

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:00 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DW-04 **Collected:** 02/14/2011 13:09 **SPL Sample ID:** 11020727-09

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00187	J	0.00133	0.004	0.01	1	02/24/11 11:26	RJD	3947733
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:26	RJD	3947733
Lead	0.000841	J	0.00028	0.001	0.015	1	02/24/11 11:26	RJD	3947733
Manganese	0.0026		0.000217	0.002		1	02/24/11 11:26	RJD	3947733
Nickel	0.001	J	0.000477	0.002	0.073	1	02/24/11 11:26	RJD	3947733
Thallium	0.000412	J	0.00025	0.002	0.002	1	02/24/11 11:26	RJD	3947733
Zinc	0.00239	J	0.00122	0.01	1.1	1	02/24/11 11:26	RJD	3947733

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:01 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DUPLICATE #1 **Collected:** 02/14/2011 13:09 **SPL Sample ID:** 11020727-10

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00165	J	0.00133	0.004	0.01	1	02/24/11 11:29	RJD	3947734
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:29	RJD	3947734
Lead	0.000816	J	0.00028	0.001	0.015	1	02/24/11 11:29	RJD	3947734
Manganese	0.00354		0.000217	0.002		1	02/24/11 11:29	RJD	3947734
Nickel	0.000902	J	0.000477	0.002	0.073	1	02/24/11 11:29	RJD	3947734
Thallium	0.000414	J	0.00025	0.002	0.002	1	02/24/11 11:29	RJD	3947734
Zinc	0.00189	J	0.00122	0.01	1.1	1	02/24/11 11:29	RJD	3947734

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:02 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BC-19 **Collected:** 02/14/2011 13:28 **SPL Sample ID:** 11020727-11

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 10:39	RJD	3947717
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 10:39	RJD	3947717
Lead	0.00085	J	0.00028	0.001	0.015	1	02/24/11 10:39	RJD	3947717
Manganese	0.00272		0.000217	0.002		1	02/24/11 10:39	RJD	3947717
Nickel	0.00179	J	0.000477	0.002	0.073	1	02/24/11 10:39	RJD	3947717
Thallium	0.000474	J	0.00025	0.002	0.002	1	02/24/11 10:39	RJD	3947717
Zinc	0.00365	J	0.00122	0.01	1.1	1	02/24/11 10:39	RJD	3947717

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:04 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BC-25 **Collected:** 02/14/2011 13:51 **SPL Sample ID:** 11020727-12

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11:46	RJD	3947737
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:46	RJD	3947737
Lead	0.000836	J	0.00028	0.001	0.015	1	02/24/11 11:46	RJD	3947737
Manganese	0.0264		0.000217	0.002		1	02/24/11 11:46	RJD	3947737
Nickel	0.00068	J	0.000477	0.002	0.073	1	02/24/11 11:46	RJD	3947737
Thallium	0.000414	J	0.00025	0.002	0.002	1	02/24/11 11:46	RJD	3947737
Zinc	0.00408	J	0.00122	0.01	1.1	1	02/24/11 11:46	RJD	3947737

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:05 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-3 **Collected:** 02/14/2011 14:13 **SPL Sample ID:** 11020727-13

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11:49	RJD	3947738
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:49	RJD	3947738
Lead	0.0024		0.00028	0.001	0.015	1	02/24/11 11:49	RJD	3947738
Manganese	0.509		0.000217	0.002		1	02/24/11 11:49	RJD	3947738
Nickel	0.00219		0.000477	0.002	0.073	1	02/24/11 11:49	RJD	3947738
Thallium	0.000418	J	0.00025	0.002	0.002	1	02/24/11 11:49	RJD	3947738
Zinc	0.00235	J	0.00122	0.01	1.1	1	02/24/11 11:49	RJD	3947738

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:06 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-6 **Collected:** 02/14/2011 14:53 **SPL Sample ID:** 11020727-14

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Cadmium	**0.0675**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 11:51**	**RJD**	**3947739**
Lead	0.00175		0.00028	0.001	0.015	1	02/24/11 11:51	RJD	3947739
Manganese	3.14		0.000217	0.002		1	02/24/11 11:51	RJD	3947739
Nickel	0.0354		0.000477	0.002	0.073	1	02/24/11 11:51	RJD	3947739
Thallium	0.000523	J	0.00025	0.002	0.002	1	02/24/11 11:51	RJD	3947739
Zinc	0.128		0.00122	0.01	1.1	1	02/24/11 11:51	RJD	3947739

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL		SW6010B Units: mg/L		
Arsenic	0.00241	J	0.00197	0.02	0.01	1	03/06/11 21:28	SVW	3962870

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:08 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BB-01 **Collected:** 02/15/2011 8:51 **SPL Sample ID:** 11020727-15

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00555		0.00133	0.004	0.01	1	02/24/11 11:54	RJD	3947740
Cadmium	0.000109	J	5.28E-05	0.002	0.005	1	02/24/11 11:54	RJD	3947740
Lead	0.00571		0.00028	0.001	0.015	1	02/24/11 11:54	RJD	3947740
Manganese	0.00455		0.000217	0.002		1	02/24/11 11:54	RJD	3947740
Nickel	0.00334		0.000477	0.002	0.073	1	02/24/11 11:54	RJD	3947740
Thallium	0.000416	J	0.00025	0.002	0.002	1	02/24/11 11:54	RJD	3947740
Zinc	0.0069	J	0.00122	0.01	1.1	1	02/24/11 11:54	RJD	3947740

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:09 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: SOUTH WELL **Collected:** 02/15/2011 9:04 **SPL Sample ID:** 11020727-16

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 11:57	RJD	3947741
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 11:57	RJD	3947741
Lead	0.000851	J	0.00028	0.001	0.015	1	02/24/11 11:57	RJD	3947741
Manganese	0.00484		0.000217	0.002		1	02/24/11 11:57	RJD	3947741
Nickel	0.00204		0.000477	0.002	0.073	1	02/24/11 11:57	RJD	3947741
Thallium	0.00041	J	0.00025	0.002	0.002	1	02/24/11 11:57	RJD	3947741
Zinc	0.003	J	0.00122	0.01	1.1	1	02/24/11 11:57	RJD	3947741

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:11 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BC-17 **Collected:** 02/15/2011 9:21 **SPL Sample ID:** 11020727-17

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00374	J	0.00133	0.004	0.01	1	02/24/11 11:59	RJD	3947742
Cadmium	0.000764	J	5.28E-05	0.002	0.005	1	02/24/11 11:59	RJD	3947742
Lead	**0.0243**	**>MCL**	**0.00028**	**0.001**	**0.015**	**1**	**02/24/11 11:59**	**RJD**	**3947742**
Manganese	0.114		0.000217	0.002		1	02/24/11 11:59	RJD	3947742
Nickel	0.00362		0.000477	0.002	0.073	1	02/24/11 11:59	RJD	3947742
Thallium	0.000439	J	0.00025	0.002	0.002	1	02/24/11 11:59	RJD	3947742
Zinc	0.00406	J	0.00122	0.01	1.1	1	02/24/11 11:59	RJD	3947742

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:12 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: NORTH WELL **Collected:** 02/15/2011 9:33 **SPL Sample ID:** 11020727-18

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 12:02	RJD	3947743
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 12:02	RJD	3947743
Lead	0.00135		0.00028	0.001	0.015	1	02/24/11 12:02	RJD	3947743
Manganese	0.00405		0.000217	0.002		1	02/24/11 12:02	RJD	3947743
Nickel	0.00148	J	0.000477	0.002	0.073	1	02/24/11 12:02	RJD	3947743
Thallium	0.000412	J	0.00025	0.002	0.002	1	02/24/11 12:02	RJD	3947743
Zinc	0.00277	J	0.00122	0.01	1.1	1	02/24/11 12:02	RJD	3947743

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:14 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BC-21R **Collected:** 02/15/2011 9:58 **SPL Sample ID:** 11020727-19

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 12:05	RJD	3947744
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 12:05	RJD	3947744
Lead	0.000912	J	0.00028	0.001	0.015	1	02/24/11 12:05	RJD	3947744
Manganese	0.00758		0.000217	0.002		1	02/24/11 12:05	RJD	3947744
Nickel	0.0025		0.000477	0.002	0.073	1	02/24/11 12:05	RJD	3947744
Thallium	0.000416	J	0.00025	0.002	0.002	1	02/24/11 12:05	RJD	3947744
Zinc	0.00462	J	0.00122	0.01	1.1	1	02/24/11 12:05	RJD	3947744

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:15 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-01A **Collected:** 02/15/2011 10:19 **SPL Sample ID:** 11020727-20

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00706		0.00133	0.004	0.01	1	02/24/11 12:07	RJD	3947745
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 12:07	RJD	3947745
Lead	0.00121		0.00028	0.001	0.015	1	02/24/11 12:07	RJD	3947745
Manganese	0.007		0.000217	0.002		1	02/24/11 12:07	RJD	3947745
Nickel	0.00139	J	0.000477	0.002	0.073	1	02/24/11 12:07	RJD	3947745
Thallium	0.00041	J	0.00025	0.002	0.002	1	02/24/11 12:07	RJD	3947745
Zinc	0.00288	J	0.00122	0.01	1.1	1	02/24/11 12:07	RJD	3947745

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:16 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DUPLICATE #2 **Collected:** 02/15/2011 10:19 **SPL Sample ID:** 11020727-21

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00644		0.00133	0.004	0.01	1	02/24/11 15:36	RJD	3948600
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 15:36	RJD	3948600
Lead	0.00102		0.00028	0.001	0.015	1	02/24/11 15:36	RJD	3948600
Manganese	0.00638		0.000217	0.002		1	02/24/11 15:36	RJD	3948600
Nickel	0.00101	J	0.000477	0.002	0.073	1	02/24/11 15:36	RJD	3948600
Thallium	0.000414	J	0.00025	0.002	0.002	1	02/24/11 15:36	RJD	3948600
Zinc	0.0025	J	0.00122	0.01	1.1	1	02/24/11 15:36	RJD	3948600

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:18 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-01 **Collected:** 02/15/2011 11:21 **SPL Sample ID:** 11020727-22

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
DISSOLVED METALS BY ICP/MS					**MCL**		**SW6020 Units: mg/L**		
Cadmium	0.00104	J	5.28E-05	0.002	0.005	1	03/03/11 5:46	RJD	3958433
Lead	ND		0.00028	0.001	0.015	1	03/03/11 5:46	RJD	3958433
Manganese	1.23		0.000217	0.002		1	03/03/11 5:46	RJD	3958433
Nickel	0.0445	B	0.000477	0.002	0.073	1	03/03/11 14:06	RJD	3958783
Thallium	0.000386	J	0.00025	0.002	0.002	1	03/03/11 5:46	RJD	3958433
Zinc	0.051		0.00122	0.006	1.1	1	03/03/11 14:06	RJD	3958783

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/25/2011 8:00	SA	1.00

DISSOLVED METALS BY METHOD 6010B					**MCL**		**SW6010B Units: mg/L**		
Arsenic	0.0033	J	0.00197	0.02	0.01	1	03/06/11 22:48	SVW	3962902

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/25/2011 8:00	SA	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Cadmium	0.0000733	J	5.28E-05	0.002	0.005	1	02/24/11 15:39	RJD	3948601
Lead	0.00102		0.00028	0.001	0.015	1	02/24/11 15:39	RJD	3948601
Manganese	1.37		0.000217	0.002		1	02/24/11 15:39	RJD	3948601
Nickel	0.0499		0.000477	0.002	0.073	1	02/24/11 15:39	RJD	3948601
Thallium	0.000421	J	0.00025	0.002	0.002	1	02/24/11 15:39	RJD	3948601
Zinc	0.0553		0.00122	0.01	1.1	1	02/24/11 15:39	RJD	3948601

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					**MCL**		**SW6010B Units: mg/L**		
Arsenic	0.00241	J	0.00197	0.02	0.01	1	03/06/11 22:05	SVW	3962885

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:20 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DW-3 **Collected:** 02/15/2011 13:04 **SPL Sample ID:** 11020727-23

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Cadmium	**0.23**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 15:42**	**RJD**	**3948602**
Lead	**0.407**	**>MCL**	**0.00028**	**0.001**	**0.015**	**1**	**02/24/11 15:42**	**RJD**	**3948602**
Manganese	1.09		0.000217	0.002		1	02/24/11 15:42	RJD	3948602
Nickel	0.0482		0.000477	0.002	0.073	1	02/24/11 15:42	RJD	3948602
Thallium	0.0007	J	0.00025	0.002	0.002	1	02/24/11 15:42	RJD	3948602
Zinc	0.0889		0.00122	0.01	1.1	1	02/24/11 15:42	RJD	3948602

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL		SW6010B Units: mg/L		
Arsenic	**0.0139**	**J>MCL**	**0.00197**	**0.02**	**0.01**	**1**	**03/06/11 22:07**	**SVW**	**3962886**

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:22 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: PW-4 **Collected:** 02/15/2011 13:25 **SPL Sample ID:** 11020727-24

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00245	J	0.00133	0.004	0.01	1	02/24/11 15:44	RJD	3948603
Cadmium	0.000849	J	5.28E-05	0.002	0.005	1	02/24/11 15:44	RJD	3948603
Lead	0.002		0.00028	0.001	0.015	1	02/24/11 15:44	RJD	3948603
Manganese	1.57		0.000217	0.002		1	02/24/11 15:44	RJD	3948603
Nickel	0.0408		0.000477	0.002	0.073	1	02/24/11 15:44	RJD	3948603
Thallium	0.000438	J	0.00025	0.002	0.002	1	02/24/11 15:44	RJD	3948603
Zinc	0.0921		0.00122	0.01	1.1	1	02/24/11 15:44	RJD	3948603

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:23 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DW-2 **Collected:** 02/15/2011 13:53 **SPL Sample ID:** 11020727-25

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	**0.0425**	**J>MCL**	**0.0331**	**0.1**	**0.01**	**25**	**02/26/11 15:59**	**RJD**	**3951847**
Cadmium	**0.0187**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 15:47**	**RJD**	**3948606**
Lead	0.00865		0.0014	0.005	0.015	5	02/26/11 15:57	RJD	3951846
Manganese	12.9		0.000217	0.002		1	02/24/11 15:47	RJD	3948606
Nickel	**0.575**	**>MCL**	**0.000477**	**0.002**	**0.073**	**1**	**02/24/11 15:47**	**RJD**	**3948606**
Thallium	ND		0.00125	0.01	0.002	5	02/26/11 15:57	RJD	3951846
Zinc	**1.41**	**>MCL**	**0.00122**	**0.01**	**1.1**	**1**	**02/24/11 15:47**	**RJD**	**3948606**

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:25 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DUPLICATE #3 **Collected:** 02/15/2011 13:53 **SPL Sample ID:** 11020727-26

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	**0.0386**	**J>MCL**	**0.0331**	**0.1**	**0.01**	**25**	**02/26/11 16:05**	**RJD**	**3951849**
Cadmium	**0.0193**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 16:07**	**RJD**	**3948609**
Lead	0.00794		0.0014	0.005	0.015	5	02/26/11 16:02	RJD	3951848
Manganese	13.5		0.000217	0.002		1	02/24/11 16:07	RJD	3948609
Nickel	**0.602**	**>MCL**	**0.000477**	**0.002**	**0.073**	**1**	**02/24/11 16:07**	**RJD**	**3948609**
Thallium	ND		0.00125	0.01	0.002	5	02/26/11 16:02	RJD	3951848
Zinc	**1.46**	**>MCL**	**0.00122**	**0.01**	**1.1**	**1**	**02/24/11 16:07**	**RJD**	**3948609**

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:26 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-05A **Collected:** 02/16/2011 9:03 **SPL Sample ID:** 11020727-27

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00203	J	0.00133	0.004	0.01	1	02/24/11 16:10	RJD	3948611
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 16:10	RJD	3948611
Lead	0.000601	J	0.00028	0.001	0.015	1	02/26/11 16:07	RJD	3951850
Manganese	0.00329		0.000217	0.002		1	02/24/11 16:10	RJD	3948611
Nickel	0.00107	J	0.000477	0.002	0.073	1	02/24/11 16:10	RJD	3948611
Thallium	ND		0.00025	0.002	0.002	1	02/26/11 16:07	RJD	3951850
Zinc	0.00395	J	0.00122	0.01	1.1	1	02/24/11 16:10	RJD	3948611

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:27 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-05 **Collected:** 02/16/2011 9:37 **SPL Sample ID:** 11020727-28

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 16:13	RJD	3948612
Lead	0.000582	J	0.00028	0.001	0.015	1	02/26/11 16:10	RJD	3951851
Manganese	18.5		0.000217	0.002		1	02/24/11 16:13	RJD	3948612
Nickel	**0.0806**	**>MCL**	**0.000477**	**0.002**	**0.073**	**1**	**02/24/11 16:13**	**RJD**	**3948612**
Thallium	ND		0.00025	0.002	0.002	1	02/26/11 16:10	RJD	3951851
Zinc	0.0133		0.00122	0.01	1.1	1	02/24/11 16:13	RJD	3948612

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL		SW6010B Units: mg/L		
Arsenic	**0.0162**	**J>MCL**	**0.00197**	**0.02**	**0.01**	**1**	**03/06/11 22:12**	**SVW**	**3962887**

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:29 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-A **Collected:** 02/16/2011 10:01 **SPL Sample ID:** 11020727-29

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00134	J	0.00133	0.004	0.01	1	02/24/11 16:16	RJD	3948614
Cadmium	ND		5.28E-05	0.002	0.005	1	02/24/11 16:16	RJD	3948614
Lead	0.000617	J	0.00028	0.001	0.015	1	02/26/11 16:34	RJD	3951855
Manganese	0.00471		0.000217	0.002		1	02/24/11 16:16	RJD	3948614
Nickel	0.00102	J	0.000477	0.002	0.073	1	02/24/11 16:16	RJD	3948614
Thallium	ND		0.00025	0.002	0.002	1	02/26/11 16:34	RJD	3951855
Zinc	0.0039	J	0.00122	0.01	1.1	1	02/24/11 16:16	RJD	3948614

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:30 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DW-1 **Collected:** 02/16/2011 10:42 **SPL Sample ID:** 11020727-30

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	**0.0819**	**>MCL**	**0.00133**	**0.004**	**0.01**	**1**	**02/24/11 16:18**	**RJD**	**3948615**
Cadmium	**0.0154**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 16:18**	**RJD**	**3948615**
Lead	0.00383		0.00028	0.001	0.015	1	02/26/11 16:36	RJD	3951856
Manganese	1.58		0.000217	0.002		1	02/24/11 16:18	RJD	3948615
Nickel	0.0206		0.000477	0.002	0.073	1	02/24/11 16:18	RJD	3948615
Thallium	0.000385	J	0.00025	0.002	0.002	1	02/26/11 16:36	RJD	3951856
Zinc	0.0579		0.00122	0.01	1.1	1	02/24/11 16:18	RJD	3948615

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:32 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-1 **Collected:** 02/16/2011 11:19 **SPL Sample ID:** 11020727-31

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	**0.0395**	**J>MCL**	**0.0331**	**0.1**	**0.01**	**25**	**02/26/11 16:42**	**RJD**	**3951858**
Cadmium	0.00475		5.28E-05	0.002	0.005	1	02/24/11 16:21	RJD	3948617
Lead	0.00578		0.0014	0.005	0.015	5	02/26/11 16:39	RJD	3951857
Manganese	5.69		0.000217	0.002		1	02/24/11 16:21	RJD	3948617
Nickel	**0.226**	**>MCL**	**0.000477**	**0.002**	**0.073**	**1**	**02/24/11 16:21**	**RJD**	**3948617**
Thallium	ND		0.00125	0.01	0.002	5	02/26/11 16:39	RJD	3951857
Zinc	0.258		0.00122	0.01	1.1	1	02/24/11 16:21	RJD	3948617

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:33 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-03A **Collected:** 02/16/2011 12:00 **SPL Sample ID:** 11020727-32

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
DISSOLVED METALS BY ICP/MS					**MCL**		**SW6020 Units: mg/L**		
Arsenic	0.00165	J	0.00133	0.004	0.01	1	03/03/11 14:12	RJD	3958785
Cadmium	0.000969	J	5.28E-05	0.002	0.005	1	03/03/11 5:49	RJD	3958434
Lead	ND		0.00028	0.001	0.015	1	03/03/11 5:49	RJD	3958434
Manganese	0.0395		0.000217	0.002		1	03/03/11 5:49	RJD	3958434
Nickel	0.00363	B	0.000477	0.002	0.073	1	03/03/11 14:12	RJD	3958785
Thallium	0.000364	J	0.00025	0.002	0.002	1	03/03/11 5:49	RJD	3958434
Zinc	0.0032	J	0.00122	0.006	1.1	1	03/03/11 14:12	RJD	3958785

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/25/2011 8:00	SA	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 16:24	RJD	3948618
Cadmium	**0.0443**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 16:24**	**RJD**	**3948618**
Lead	**0.0241**	**>MCL**	**0.00028**	**0.001**	**0.015**	**1**	**02/26/11 16:44**	**RJD**	**3951859**
Manganese	0.507		0.000217	0.002		1	02/24/11 16:24	RJD	3948618
Nickel	0.0178		0.000477	0.002	0.073	1	02/24/11 16:24	RJD	3948618
Thallium	ND		0.00025	0.002	0.002	1	02/26/11 16:44	RJD	3951859
Zinc	0.0798		0.00122	0.01	1.1	1	02/24/11 16:24	RJD	3948618

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:35 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-03 **Collected:** 02/16/2011 12:20 **SPL Sample ID:** 11020727-33

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 14:01	RJD	3948587
Cadmium	**0.0517**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 14:01**	**RJD**	**3948587**
Lead	**0.0321**	**>MCL**	**0.00028**	**0.001**	**0.015**	**1**	**02/24/11 14:01**	**RJD**	**3948587**
Manganese	0.674		0.000217	0.002		1	02/24/11 14:01	RJD	3948587
Nickel	0.024		0.000477	0.002	0.073	1	02/24/11 14:01	RJD	3948587
Thallium	0.000599	J	0.00025	0.002	0.002	1	02/24/11 14:01	RJD	3948587
Zinc	0.115		0.00122	0.01	1.1	1	02/24/11 14:01	RJD	3948587

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:36 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-2 **Collected:** 02/16/2011 12:48 **SPL Sample ID:** 11020727-34

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 16:26	RJD	3948620
Cadmium	**0.112**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 16:26**	**RJD**	**3948620**
Lead	0.00382		0.00028	0.001	0.015	1	02/26/11 16:47	RJD	3951860
Manganese	1.11		0.000217	0.002		1	02/24/11 16:26	RJD	3948620
Nickel	0.0612		0.000477	0.002	0.073	1	02/24/11 16:26	RJD	3948620
Thallium	0.000341	J	0.00025	0.002	0.002	1	02/26/11 16:47	RJD	3951860
Zinc	0.27		0.00122	0.01	1.1	1	02/24/11 16:26	RJD	3948620

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:38 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DUPLICATE #4 **Collected:** 02/16/2011 12:48 **SPL Sample ID:** 11020727-35

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**		**SW6020 Units: mg/L**		
Arsenic	ND		0.00133	0.004	0.01	1	02/24/11 16:29	RJD	3948621
Cadmium	**0.108**	**>MCL**	**5.28E-05**	**0.002**	**0.005**	**1**	**02/24/11 16:29**	**RJD**	**3948621**
Lead	0.00304		0.00028	0.001	0.015	1	02/26/11 16:50	RJD	3951861
Manganese	1.05		0.000217	0.002		1	02/24/11 16:29	RJD	3948621
Nickel	0.0693		0.000477	0.002	0.073	1	02/24/11 16:29	RJD	3948621
Thallium	0.000331	J	0.00025	0.002	0.002	1	02/26/11 16:50	RJD	3951861
Zinc	0.257		0.00122	0.01	1.1	1	02/24/11 16:29	RJD	3948621

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/21/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

3/11/2011 9:04:39 AM

Quality Control Documentation

Version 2.1 - Modified February 11, 2011

3/11/2011 9:04:40 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis: **Metals by Method 6010B (ICP), Total** **WorkOrder:** **11020727**
Method: **SW6010B** **Lab Batch ID:** **98096**

Method Blank

RunID: ICP7300DV_110306D-3962860 Units: mg/L
Analysis Date: 03/06/2011 21:08 Analyst: SVW
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-02A	BA-09
11020727-14A	MW-6

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.02	0.00197

Laboratory Control Sample (LCS)

RunID: ICP7300DV_110306D-3962 Units: mg/L
Analysis Date: 03/06/2011 21:10 Analyst: SVW
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.1135	113.5		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-11
RunID: ICP7300DV_110306D-3962 Units: mg/L
Analysis Date: 03/06/2011 21:16 Analyst: SVW
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	0.01277	J	0.1	0.1096	96.80		0.1	0.1199	107.1		9.001		20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:49 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis: Metals by Method 6020 (ICP/MS), Total **WorkOrder:** 11020727
Method: SW6020 **Lab Batch ID:** 98096-I

Method Blank

RunID: ICPMS_110224A-3947715 Units: mg/L
Analysis Date: 02/24/2011 9:58 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.004	0.00133
Cadmium	ND		0.002	0.0000528
Lead	0.000764	J	0.001	0.00028
Manganese	0.000649	J	0.002	0.000217
Nickel	ND		0.002	0.000477
Thallium	0.000411	J	0.002	0.00025
Zinc	0.0025	J	0.01	0.00122

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-01A	BA-09A
11020727-02A	BA-09
11020727-03A	MW-4
11020727-04A	WW-09
11020727-05A	WW-04
11020727-06A	(b) (6) WELL
11020727-07A	BC-03
11020727-08A	BC-07
11020727-09A	DW-04
11020727-10A	DUPLICATE #1
11020727-11A	BC-19
11020727-12A	BC-25
11020727-13A	MW-3
11020727-14A	MW-6
11020727-15A	BB-01
11020727-16A	SOUTH WELL
11020727-17A	BC-17
11020727-18A	NORTH WELL
11020727-19A	BC-21R
11020727-20A	BA-01A

Laboratory Control Sample (LCS)

RunID: ICPMS_110224A-3947716 Units: mg/L
Analysis Date: 02/24/2011 10:01 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.09666	96.66		80	120
Cadmium	0.1000	0.09881	98.81		80	120
Lead	0.1000	0.1055	105.5		80	120
Manganese	0.1000	0.1059	105.9		80	120
Nickel	0.1000	0.1038	103.8		80	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:50 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

207-0016

Analysis: **Metals by Method 6020 (ICP/MS), Total** **WorkOrder:** **11020727**
Method: **SW6020** **Lab Batch ID:** **98096-I**

Laboratory Control Sample (LCS)

RunID: ICPMS_110224A-3947716 Units: mg/L
Analysis Date: 02/24/2011 10:01 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Thallium	0.1000	0.1051	105.1		80	120
Zinc	0.1000	0.09926	99.26		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-11
RunID: ICPMS_110224A-3947719 Units: mg/L
Analysis Date: 02/24/2011 10:44 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.08680	86.80		0.1	0.08618	86.18		0.7139		20	75	125
Cadmium	ND		0.1	0.08894	88.94		0.1	0.09131	91.31		2.636		20	75	125
Lead	0.0008500	JB	0.1	0.09113	90.28		0.1	0.09456	93.71		3.686		20	75	125
Manganese	0.002722	B	0.1	0.09341	90.69		0.1	0.1022	99.47		8.980		20	75	125
Nickel	0.001786	J	0.1	0.09175	89.96		0.1	0.09643	94.64		4.973		20	75	125
Thallium	0.0004739	JB	0.1	0.09276	92.28		0.1	0.09545	94.98		2.866		20	75	125
Zinc	0.003653	JB	0.1	0.08593	82.28		0.1	0.09368	90.03		8.634		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:50 AM

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Quality Control Report

SEMS, INC.

207-0016

Analysis: **Metals by Method 6010B (ICP), Total** **WorkOrder:** **11020727**
Method: **SW6010B** **Lab Batch ID:** **98097**

Method Blank

RunID: ICP7300DV_110306D-3962875 Units: mg/L
Analysis Date: 03/06/2011 21:45 Analyst: SVW
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	0.00271	J	0.02	0.00197

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-22A	BA-01
11020727-23A	DW-3
11020727-28A	BA-05

Laboratory Control Sample (LCS)

RunID: ICP7300DV_110306D-3962 Units: mg/L
Analysis Date: 03/06/2011 21:47 Analyst: SVW
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.1144	114.4		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-33
RunID: ICP7300DV_110306D-3962 Units: mg/L
Analysis Date: 03/06/2011 21:52 Analyst: SVW
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.1173	117.3		0.1	0.1263	126.3	*	7.376		20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

SEMS, INC.

207-0016

Analysis: Metals by Method 6020 (ICP/MS), Total **WorkOrder:** 11020727
Method: SW6020 **Lab Batch ID:** 98097-I

Method Blank

RunID: ICPMS_110224B-3948585 Units: mg/L
Analysis Date: 02/24/2011 13:55 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.004	0.00133
Cadmium	ND		0.002	0.0000528
Lead	0.000754	J	0.001	0.00028
Manganese	0.000754	J	0.002	0.000217
Nickel	ND		0.002	0.000477
Thallium	0.000412	J	0.002	0.00025
Zinc	0.00166	J	0.01	0.00122

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-21A	DUPLICATE #2
11020727-22A	BA-01
11020727-23A	DW-3
11020727-24A	PW-4
11020727-25A	DW-2
11020727-26A	DUPLICATE #3
11020727-27A	BA-05A
11020727-28A	BA-05
11020727-29A	MW-A
11020727-30A	DW-1
11020727-31A	MW-1
11020727-32A	BA-03A
11020727-33A	BA-03
11020727-34A	MW-2
11020727-35A	DUPLICATE #4

Laboratory Control Sample (LCS)

RunID: ICPMS_110224B-3948586 Units: mg/L
Analysis Date: 02/24/2011 13:58 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.09563	95.63		80	120
Cadmium	0.1000	0.09639	96.39		80	120
Lead	0.1000	0.1113	111.3		80	120
Manganese	0.1000	0.1090	109.0		80	120
Nickel	0.1000	0.1072	107.2		80	120
Thallium	0.1000	0.1107	110.7		80	120
Zinc	0.1000	0.1015	101.5		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:52 AM

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Quality Control Report

SEMS, INC.

207-0016

Analysis: **Metals by Method 6020 (ICP/MS), Total** **WorkOrder:** **11020727**
Method: **SW6020** **Lab Batch ID:** **98097-I**

Sample Spiked: 11020727-33
RunID: ICPMS_110224B-3948589 Units: mg/L
Analysis Date: 02/24/2011 14:13 Analyst: RJD
Preparation Date: 02/21/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.07375	73.75	*	0.1	0.08971	89.71		19.53		20	75	125
Cadmium	0.05171	>MCL	0.1	0.1514	99.71		0.1	0.09545	43.74	*	45.34	*	20	75	125
Lead	0.032123	>MCL	0.1	0.1410	108.9		0.1	0.1102	78.09		24.54	*	20	75	125
Manganese	0.6742	B	0.1	0.9102	N/C		0.1	0.1610	N/C		N/C		20	75	125
Nickel	0.02403		0.1	0.1206	96.55		0.1	0.09893	74.90	*	19.73		20	75	125
Thallium	0.0005994	JB	0.1	0.1035	102.9		0.1	0.1039	103.3		0.3483		20	75	125
Zinc	0.1153	B	0.1	0.2249	109.7		0.1	0.09857	-16.70	*	78.12	*	20	75	125

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 11020727-33
RunID: ICPMS_110224B-3948591 Units: mg/L
Analysis Date: 02/24/2011 14:18 Analyst: RJD

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	ND	0.5	0.4538	90.75	0.5	0.4661	93.22	2.681	20	75	125
Cadmium	0.0517	0.5	0.5241	94.48	0.5	0.5241	94.48	0.00001908	20	75	125
Nickel	0.024	0.5	0.5174	98.67	0.5	0.5131	97.81	0.8398	20	75	125
Zinc	0.115	0.5	0.6145	99.85	0.5	0.6053	98.01	1.502	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SEMS, INC.

207-0016

Analysis: Dissolved Metals by ICP
Method: SW6010B
WorkOrder: 11020727
Lab Batch ID: 98257

Method Blank

RunID: ICP7300DV_110306D-3962892 Units: mg/L
Analysis Date: 03/06/2011 22:27 Analyst: SVW
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-22B	BA-01

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	0.00232	J	0.02	0.00197

Laboratory Control Sample (LCS)

RunID: ICP7300DV_110306D-3962 Units: mg/L
Analysis Date: 03/06/2011 22:30 Analyst: SVW
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.1004	100.4		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-03
RunID: ICP7300DV_110306D-3962 Units: mg/L
Analysis Date: 03/06/2011 22:35 Analyst: SVW
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.1066	106.6		0.1	0.09671	96.71		9.762		20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:53 AM

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Quality Control Report

SEMS, INC.

207-0016

Analysis: Dissolved Metals by ICP/MS
Method: SW6020
WorkOrder: 11020727
Lab Batch ID: 98257-I

Method Blank

RunID: ICPMS_110303E-3958773 Units: mg/L
Analysis Date: 03/03/2011 13:37 Analyst: RJD
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-03B	MW-4
11020727-22B	BA-01
11020727-32B	BA-03A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.004	0.00133
Nickel	0.002	J	0.002	0.000477
Zinc	0.00136	J	0.006	0.00122

Laboratory Control Sample (LCS)

RunID: ICPMS_110303E-3958774 Units: mg/L
Analysis Date: 03/03/2011 13:40 Analyst: RJD
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.09896	98.96		80	120
Nickel	0.1000	0.09972	99.72		80	120
Zinc	0.1000	0.09756	97.56		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-03
RunID: ICPMS_110303E-3958777 Units: mg/L
Analysis Date: 03/03/2011 13:49 Analyst: RJD
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.09812	98.12		0.1	0.09735	97.35		0.7820		20	75	125
Nickel	0.001476	JB	0.1	0.09617	94.69		0.1	0.09586	94.38		0.3193		20	75	125
Zinc	0.002042	JB	0.1	0.09722	95.18		0.1	0.09632	94.28		0.9301		20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:54 AM

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Quality Control Report

SEMS, INC.

207-0016

Analysis:	**Dissolved Metals by ICP/MS**	**WorkOrder:**	**11020727**
Method:	**SW6020**	**Lab Batch ID:**	**98257-I**

Qualifiers:

- ND/U - Not Detected at the Reporting Limit
- E - Estimated Value exceeds calibration curve
- J - Estimated value between MDL and PQL
- B - Analyte Detected In The Associated Method Blank
- MI - Matrix Interference
- D - Recovery Unreportable due to Dilution
- * - Recovery Outside Advisable QC Limits
- N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
- TNTC - Too numerous to count

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Quality Control Report

SEMS, INC.

207-0016

Analysis: Dissolved Metals by ICP/MS
Method: SW6020
WorkOrder: 11020727
Lab Batch ID: 98257-I

Method Blank

RunID: ICPMS_110303C-3958423 Units: mg/L
Analysis Date: 03/03/2011 5:19 Analyst: RJD
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11020727-03B	MW-4
11020727-22B	BA-01
11020727-32B	BA-03A

Analyte	Result	Qual	Rep Limit	MDL
Cadmium	0.000962	J	0.002	0.0000528
Lead	ND		0.001	0.00028
Manganese	ND		0.002	0.000217
Thallium	0.000354	J	0.002	0.00025

Laboratory Control Sample (LCS)

RunID: ICPMS_110303C-3958424 Units: mg/L
Analysis Date: 03/03/2011 5:22 Analyst: RJD
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Cadmium	0.1000	0.09135	91.35		80	120
Lead	0.1000	0.1029	102.9		80	120
Manganese	0.1000	0.09068	90.68		80	120
Thallium	0.1000	0.1009	100.9		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-03
RunID: ICPMS_110303C-3958427 Units: mg/L
Analysis Date: 03/03/2011 5:30 Analyst: RJD
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Cadmium	0.0009786	JB	0.1	0.09079	89.82		0.1	0.08941	88.43		1.532		20	75	125
Lead	ND		0.1	0.1007	100.7		0.1	0.1032	103.2		2.420		20	75	125
Manganese	0.0002350	J	0.1	0.09162	91.38		0.1	0.09447	94.24		3.065		20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

3/11/2011 9:04:55 AM

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Quality Control Report

SEMS, INC.

207-0016

Analysis: Dissolved Metals by ICP/MS
Method: SW6020
WorkOrder: 11020727
Lab Batch ID: 98257-I

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11020727-03
RunID: ICPMS_110303C-3958427 Units: mg/L
Analysis Date: 03/03/2011 5:30 Analyst: RJD
Preparation Date: 02/25/2011 8:00 Prep By: SA Method: SW3005

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Thallium	0.0005920	JB	0.1	0.09894	98.35		0.1	0.09923	98.64		0.2954		20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
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3/11/2011 9:04:55 AM

Sample Receipt Checklist

And

Chain of Custody

Version 2.1 - Modified February 11, 2011

3/11/2011 9:04:55 AM

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**11020727**	Received By:	**SRS**
Date and Time Received:	**2/18/2011 5:10:00 PM**	Carrier name:	**SPL-Driver-Other**
Temperature:	**3°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐		
2.	**Custody seals intact on shippping container/cooler?**	Yes ☐	No ☐	Not Present ☑		
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑		
4.	**Chain of custody present?**	Yes ☑	No ☐			
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐			
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐			
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐			
8.	**Sample containers intact?**	Yes ☑	No ☐			
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐			
10.	**All samples received within holding time?**	Yes ☑	No ☐			
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐			
12.	**Water - VOA vials have zero headspace?**	Yes ☐	No ☐	VOA Vials Not Present ☑		
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☑	No ☐	Not Applicable ☐		

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 322954

1102 0727 page 1 of 4

Client Name: SEMS INC
Address: 11626 S CHOCTAW DR
City BR State LA Zip 70815
Phone/Fax: 225 924 7202 / 924 7004
Client Contact: J HODGES Email:
Project Name/No.: DELATTE METALS / N2370016
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SEMS INC Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: Total Metals 6010B	Requested Analysis: Dissolved Metals 6010B							
BA-09A	2/14/11	919		X	W	P	16	2	1	X								1
BA-09		1001							1	X								1
MW-4		1044							2	X	X							2
WW-09		1105							1	X								1
WW-04		1135							1	X								1
(b) (6) WELL		1140							1	X								1
BC-03		1214							1	X								1
BC-07		1248							1	X								1
DW-04		1309							1	X								1
DUPLICATE #1		1309							1	X								1

Client/Consultant Remarks: DISSOLVED METALS FIELD FILTERED

Laboratory remarks: NOCS SPLDel PH<2 3W

Intact? Y N
Ice? Y N
Temp: T152 3.0

Requested TAT

- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other

Rush TAT requires prior notice

Special Reporting Requirements Results: Fax Email PDF
Standard QC Level 3 QC Level 4 QC TX TRRP LA RECAP

Special Detection Limits (specify):

PM review (initial):

	date	time		
1. Relinquished by Sampler:	2/17/11	1400	2. Received by:	
3. Relinquished by:	2/18/11	1445	4. Received by:	
5. Relinquished by:	2-18-11	710	6. Received by Laboratory:	

8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 322955

page 2 of 4

Client Name: SEMS INC
Address: 11628 S CHOCTAW DR
City BR State LA Zip 70815
Phone/Fax: 225 924 2002 / 924 2004
Client Contact: JHOPPES Email:
Project Name/No.: DELATTE METALS / N2070016
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SEMS INC Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other	bottle: P=plastic A=amber glass G=glass V=vial X=other	size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other	pres.: 1=HCl 2=HNO3 3=H2SO4 X=other	Number of Containers	Requested Analysis: Total metals 6010B	Dissolved metals 6010B							
BC-19	2/14/11	1328		X	W	P	16	2	1	X								1
BC-19 MS	↓	1328		↓	↓	↓	↓	↓	1	X								1
BC-19 MSD	↓	1328		↓	↓	↓	↓	↓	1	X								1
BC-25	↓	1351		↓	↓	↓	↓	↓	1	X								1
MW-3	↓	1413		↓	↓	↓	↓	↓	1	X								1
MW-6	↓	1453		↓	↓	↓	↓	↓	1	X								1
BB-01	2/15/11	851		↓	↓	↓	↓	↓	1	X								1
SOUTH WELL	↓	904		↓	↓	↓	↓	↓	1	X								1
BC-17	↓	921		↓	↓	↓	↓	↓	1	X								1
NORTH WELL	↓	933		↓	↓	↓	↓	↓	1	X								1

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☒ Y ☐ N
Ice? ☒ Y ☐ N
Temp: T1523.0

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other _____
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: Jane Meux	2/17/11	1400	2. Received by: [signature]
3. Relinquished by: [signature]	2/18/11	1445	4. Received by: Robert Guiller
5. Relinquished by: Robert Guiller	2-18-11	1710	6. Received by Laboratory: Renee Sam

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Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 322956

page 3 of 4

Client Name: SCS INC
Address: 11628 S CHOCTAW DR
City BR State LA Zip 70815-7501
Phone/Fax: 225 924 2002 / 924 2004
Client Contact: A TOPPES Email:
Project Name/No.: DELTA METALS W2070216
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SCS INC Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: Total metals 6010B	Dissolved metals 6010B							
BC-21R	2/15/11	958		X	W	P	16	2	1	X								1
BA-01A		1019							1	X								1
DUPLICATE #2		1019							1	X								1
BA-01		1121							2	X	X							2
DW-3		1304							1	X								1
PW-4		1325							1	X								1
DW-2		1353							1	X								1
DUPLICATE #3		1353							1	X								1
BA-05A	2/16/11	903							1	X								1
BA-05	2/16/11	937							1	X								1

Client/Consultant Remarks: DISSOLVED METALS FIELD FILTERED

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: T152 30

Requested TAT

- ☐ 1 Business Day
- ☐ 2 Business Days
- ☐ 3 Business Days
- ☐ Contract
- ☒ Standard
- ☐ Other

Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler:	2/17/11	1400	2. Received by:
3. Relinquished by:	2/18/11	1445	4. Received by:
5. Relinquished by:	2-18-11	1710	6. Received by Laboratory:

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☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 322887

page 4 of 4

Client Name: SEMS INC
Address: 11626 S CHOCTAW DR
City BR State LA Zip 70815
Phone/Fax: 225 924 2002 / 924 2004
Client Contact: JHUPPES Email:
Project Name/No.: DELATTE METALS / N2570016
Site Name:
Site Location: PONCHATOULA, LA
Invoice To: SEMS INC Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: TOTAL METALS 6010B	Requested Analysis: DISSOLVED METALS 6010B							
MW-A	2/16/11	1001		X	W	P	16	2	1	X								1
DW-1		1042							1	X								1
MW-1		1119							1	X								1
BA-03A		1200							2	X	X							2
BA-03		1220							1	X								1
BA-03 MS		1220							1	X								1
BA-03 MSD		1220							1	X								1
MW-2		1248							1	X								1
DUPLICATE #4		1248							1	X								1
																		1

Client/Consultant Remarks: DISSOLVED METALS FIELD FILTERED

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: TB 2.0

Requested TAT

- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other
- Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler:	2/17/11	1400	2. Received by:
3. Relinquished by:	2/18/11	1445	4. Received by:
5. Relinquished by:	2-18-11	1710	6. Received by Laboratory:

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Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
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ClientSampID	SampID	SampDate	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)
BA-01	11020727-22	110215	0.00330 J	0.00104 J	0.00102 *
BA-01A	11020727-20	110215	0.00706	0.000053 U	0.00121
BA-03	11020727-33	110216	0.00133 U	0.0517 N*	0.0321 *
BA-03A	11020727-32	110216	0.00165 J	0.0443 N*	0.0241 *
BA-05	11020727-28	110216	0.0162 J	0.000053 U	0.000582 J*
BA-05A	11020727-27	110216	0.00203 JN	0.000053 U	0.000601 J*
BA-09	11020727-02	110214	0.0268 J	0.000453 J	0.00123
BA-09A	11020727-01	110214	0.00279 J	0.000053 U	0.000878 J
BB-01	11020727-15	110215	0.00555	0.000109 J	0.00571
BC-03	11020727-07	110214	0.00133 U	0.0000556 J	0.000948 J
BC-07	11020727-08	110214	0.00277 J	0.000053 U	0.00137
BC-17	11020727-17	110215	0.00374 J	0.000764 J	0.0243
BC-19	11020727-11	110214	0.00133 U	0.000053 U	0.000850 J
BC-21R	11020727-19	110215	0.00133 U	0.000053 U	0.000912 J
BC-25	11020727-12	110214	0.00133 U	0.000053 U	0.000836 J
DUPLICATE #1	11020727-10	110214	0.00165 J	0.000053 U	0.000816 J
DUPLICATE #2	11020727-21	110215	0.00644 N	0.000053 U	0.00102 *
DUPLICATE #3	11020727-26	110215	0.0386 JN	0.0193 N*	0.00794 *
DUPLICATE #4	11020727-35	110216	0.00133 U	0.108 N*	0.00304 *
DW-04	11020727-09	110214	0.00187 J	0.000053 U	0.000841 J
DW-1	11020727-30	110216	0.0819 N	0.0154 N*	0.00383 *
DW-2	11020727-25	110215	0.0425 JN	0.0187 N*	0.00865 *
DW-3	11020727-23	110215	0.0139 J	0.230 N*	0.407 *
MW-1	11020727-31	110216	0.0395 JN	0.00475 N*	0.00578 *
MW-2	11020727-34	110216	0.00133 U	0.112 N*	0.00382 *
MW-3	11020727-13	110214	0.00133 U	0.000053 U	0.00240
MW-4	11020727-03	110214	0.00133 U	0.000979 J	0.00154
MW-6	11020727-14	110214	0.00241 J	0.0675	0.00175
MW-A	11020727-29	110216	0.00134 JN	0.000053 U	0.000617 J*
NORTH WELL	11020727-18	110215	0.00133 U	0.000053 U	0.00135
PW-4	11020727-24	110215	0.00245 JN	0.000849 JN*	0.00200 *
(b) (6) WELL	11020727-06	110214	0.00186 J	0.000053 U	0.00341
SOUTH WELL	11020727-16	110215	0.00133 U	0.000053 U	0.000851 J
WW-04	11020727-05	110214	0.00133 U	0.000053 U	0.000794 J
WW-09	11020727-04	110214	0.00133 U	0.000053 U	0.00123

Manganese (mg/L	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)
1.37	0.0499 N	0.000421 J	0.0553 N*
0.00700	0.00139 J	0.000410 J	0.00288 J
0.674	0.0240 N	0.000599 J	0.115 N*
0.507	0.0178 N	0.000364 J	0.0798 N*
18.5	0.0806 N	0.00025 U	0.0133 N*
0.00329	0.00107 JN	0.00025 U	0.00395 JN*
2.61	0.141	0.000442 J	0.440
0.0267	0.000516 J	0.000424 J	0.00341 J
0.00455	0.00334	0.000416 J	0.00690 J
0.00403	0.00186 J	0.000424 J	0.00298 J
0.0290	0.00317	0.000413 J	0.00661 J
0.114	0.00362	0.000439 J	0.00406 J
0.00272	0.00179 J	0.000474 J	0.00365 J
0.00758	0.00250	0.000416 J	0.00462 J
0.0264	0.000680 J	0.000414 J	0.00408 J
0.00354	0.000902 J	0.000414 J	0.00189 J
0.00638	0.00101 JN	0.000414 J	0.00250 JN*
13.5	0.602 N	0.00125 U	1.46 N*
1.05	0.0693 N	0.000331 J	0.257 N*
0.00260	0.00100 J	0.000412 J	0.00239 J
1.58	0.0206 N	0.000385 J	0.0579 N*
12.9	0.575 N	0.00125 U	1.41 N*
1.09	0.0482 N	0.000700 J	0.0889 N*
5.69	0.226 N	0.00125 U	0.258 N*
1.11	0.0612 N	0.000341 J	0.270 N*
0.509	0.00219	0.000418 J	0.00235 J
0.0134	0.00148 J	0.000592 J	0.00537 J
3.14	0.0354	0.000523 J	0.128
0.00471	0.00102 JN	0.00025 U	0.00390 JN*
0.00405	0.00148 J	0.000412 J	0.00277 J
1.57	0.0408 N	0.000438 J	0.0921 N*
0.0230	0.000568 J	0.000413 J	0.00368 J
0.00484	0.00204	0.000410 J	0.00300 J
0.00355	0.000477 U	0.000413 J	0.00205 J
0.0161	0.000477 U	0.000414 J	0.00376 J

ClientSampID	SampID	SampDate	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)
BA-01	11020727-22	110215	0.00330 J	0.00104 J	0.00102 *
BA-01A	11020727-20	110215	0.00706	0.002 U	0.00121
BA-03	11020727-33	110216	0.004 U	0.0517 N*	0.0321 *
BA-03A	11020727-32	110216	0.004 U	0.0443 N*	0.0241 *
BA-05	11020727-28	110216	0.0162 J	0.002 U	0.000582 J*
BA-05A	11020727-27	110216	0.00203 JN	0.002 U	0.000601 J*
BA-09	11020727-02	110214	0.0268 J	0.000453 J	0.00123
BA-09A	11020727-01	110214	0.00279 J	0.002 U	0.000878 J
BB-01	11020727-15	110215	0.00555	0.000109 J	0.00571
BC-03	11020727-07	110214	0.004 U	0.0000556 J	0.000948 J
BC-07	11020727-08	110214	0.00277 J	0.002 U	0.00137
BC-17	11020727-17	110215	0.00374 J	0.000764 J	0.0243
BC-19	11020727-11	110214	0.004 U	0.002 U	0.000850 J
BC-21R	11020727-19	110215	0.004 U	0.002 U	0.000912 J
BC-25	11020727-12	110214	0.004 U	0.002 U	0.000836 J
DUPLICATE #1	11020727-10	110214	0.00165 J	0.002 U	0.000816 J
DUPLICATE #2	11020727-21	110215	0.00644 N	0.002 U	0.00102 *
DUPLICATE #3	11020727-26	110215	0.0386 JN	0.0193 N*	0.00794 *
DUPLICATE #4	11020727-35	110216	0.004 U	0.108 N*	0.00304 *
DW-04	11020727-09	110214	0.00187 J	0.002 U	0.000841 J
DW-1	11020727-30	110216	0.0819 N	0.0154 N*	0.00383 *
DW-2	11020727-25	110215	0.0425 JN	0.0187 N*	0.00865 *
DW-3	11020727-23	110215	0.0139 J	0.230 N*	0.407 *
MW-1	11020727-31	110216	0.0395 JN	0.00475 N*	0.00578 *
MW-2	11020727-34	110216	0.004 U	0.112 N*	0.00382 *
MW-3	11020727-13	110214	0.004 U	0.002 U	0.00240
MW-4	11020727-03	110214	0.004 U	0.002 U	0.00154
MW-6	11020727-14	110214	0.00241 J	0.0675	0.00175
MW-A	11020727-29	110216	0.00134 JN	0.002 U	0.000617 J*
NORTH WELL	11020727-18	110215	0.004 U	0.002 U	0.00135
PW-4	11020727-24	110215	0.00245 JN	0.000849 JN*	0.00200 *
(b) (6) WELL	11020727-06	110214	0.00186 J	0.002 U	0.00341
SOUTH WELL	11020727-16	110215	0.004 U	0.002 U	0.000851 J
WW-04	11020727-05	110214	0.004 U	0.002 U	0.000794 J
WW-09	11020727-04	110214	0.004 U	0.002 U	0.00123

Manganese (mg/L	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)
1.37	0.0499 N	0.000421 J	0.0553 N*
0.00700	0.00139 J	0.000410 J	0.00288 J
0.674	0.0240 N	0.000599 J	0.115 N*
0.507	0.0178 N	0.002 U	0.0798 N*
18.5	0.0806 N	0.002 U	0.0133 N*
0.00329	0.00107 JN	0.002 U	0.00395 JN*
2.61	0.141	0.000442 J	0.440
0.0267	0.000516 J	0.000424 J	0.00341 J
0.00455	0.00334	0.000416 J	0.00690 J
0.00403	0.00186 J	0.000424 J	0.00298 J
0.0290	0.00317	0.000413 J	0.00661 J
0.114	0.00362	0.000439 J	0.00406 J
0.00272	0.00179 J	0.000474 J	0.00365 J
0.00758	0.00250	0.000416 J	0.00462 J
0.0264	0.000680 J	0.000414 J	0.00408 J
0.00354	0.000902 J	0.000414 J	0.00189 J
0.00638	0.00101 JN	0.000414 J	0.00250 JN*
13.5	0.602 N	0.01 U	1.46 N*
1.05	0.0693 N	0.000331 J	0.257 N*
0.00260	0.00100 J	0.000412 J	0.00239 J
1.58	0.0206 N	0.000385 J	0.0579 N*
12.9	0.575 N	0.01 U	1.41 N*
1.09	0.0482 N	0.000700 J	0.0889 N*
5.69	0.226 N	0.01 U	0.258 N*
1.11	0.0612 N	0.000341 J	0.270 N*
0.509	0.00219	0.000418 J	0.00235 J
0.0134	0.00148 J	0.000592 J	0.00537 J
3.14	0.0354	0.000523 J	0.128
0.00471	0.00102 JN	0.002 U	0.00390 JN*
0.00405	0.00148 J	0.000412 J	0.00277 J
1.57	0.0408 N	0.000438 J	0.0921 N*
0.0230	0.000568 J	0.000413 J	0.00368 J
0.00484	0.00204	0.000410 J	0.00300 J
0.00355	0.002 U	0.000413 J	0.00205 J
0.0161	0.002 U	0.000414 J	0.00376 J