



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4

ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

MAY 12 2011

ENFORCEMENT ACTION MEMORANDUM

SUBJECT: Request for Approval for Removal Action at the Welch Group Environmental (WGE) Fair Play Site, Oconee County, South Carolina

FROM: Leo Francendese, On-Scene Coordinator
Emergency Response and Removal Branch

THRU: Shane Hitchcock, R4 Chief
Emergency Response and Removal Branch

TO: Franklin E. Hill, Director
Superfund Division

SITE ID: B4F1

I. PURPOSE

The purpose of this Action Memorandum is to request and document approval of a proposed time-critical removal action described herein for the Welch Group Environmental Fair Play Site (the Site) in Fairplay, Oconee County, South Carolina. The release of hazardous substances at the Site poses a threat to public health and the environment pursuant to Section 104(a) of CERCLA and the conditions at the Site meet the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), Section 300.415(b)(2) criteria for removal actions.

This action will be implemented under an Administrative Order and Agreement on Consent (AOC) with the Welch Group Environmental (WGE) and James O. Feltman, Sr. and Sarah Francis Feltman, as Trustees for the Feltman Family Trust of 2009 (the Trust), under Sections 104(a), 106(a), and 107 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980. This removal action involves the removal, processing, and disposal of lead contaminated debris, wastes, contaminated structures and soil as well as to be determined waste oils.

II. SITE CONDITIONS AND BACKGROUND

Site Specific ID Number: B4F1

Removal Category: Time-Critical Removal Action

CERCLIS ID:

A. Site Description

This section of the Action Memorandum provides a description of the Site conditions and relevant background information.

1. Removal Site Evaluation

The WGE Fair Play facility was used for smelting and molding of lead and other metals from spent munitions gathered from firing ranges around the Southeast. .

On January 31, 2011, EPA initiated the removal site inspection (RSI) component of the removal site evaluation (RSE) at the WGE Fair Play facility. X-Ray Fluorescence (XRF) and laboratory results for soil samples collected during the RSE are summarized in this section. The full RSI report is included as Attachment A.

The Superfund Technical Assistance Response Team (START) collected a total of 75 discrete surface soil samples from 15 grids established at the Site. XRF screening results indicate measurable concentrations of lead in all 15 Grids located downgradient of the facility smelting building. Additionally, START collected and screened a total of 140 discrete surface soil samples from 28 grids established topographically upgradient from the smelting building. The screening results for each sample location are summarized in Table 1 and Table 1a (Attachment B) and on Figure 3, (Attachment C).

Eleven composite samples from 11 grids were submitted for laboratory analysis. The laboratory data indicate that 10 grids possess soil lead concentrations exceeding the residential Removal Action Level (RAL) of 400 mg/kg. Only one sample, Grid AE10, indicated soil concentrations below the RAL. A summary of the laboratory data and sample locations is presented on Table 3 (Attachment B) and Figure 5 (Attachment C). The laboratory analytical report is presented in Attachment D.

In addition to soils, START screened pallets of concrete blocks, equipment, and used vehicles located at the site. Initial indications are that items on site were impacted with lead, possibly from smelting operations. Results of the screening are presented on Table 2 (Attachment B). Figure 4 (Attachment C) shows the grid locations and associated XRF readings.

The OSC directed the PRP to take stabilizing emergency response actions that included securing the site, drum and vessel containment as well as soil sediment erosion control. This action was completed on February 21, 2011.

The RSI report was completed on March 7, 2011 and is included as Attachment A. The OSC has concluded the removal site evaluation (RSE) process and proposes further time-critical removal activities. It is the OSC's expectation that the removal action will be conducted under an AOC.

2. Physical Location

The Site is located in Fair Play, Oconee County, South Carolina. The geographic coordinates are 34° 31' 23.96" North latitude and 82° 59' 28.82" West longitude. The topographic map is presented in Attachment C. The Site is comprised of a one story house and a one story partially

enclosed brick building (smelting operation). The property is located on a hillside. Figure 2 (Attachment C) is an aerial map showing Site features. Anderson County had a total population of 184,901 in 2009. The county is primarily rural with small municipalities comprising the county.

3. Site Characteristics

The Site is industrial in nature and has been secured by fencing to prevent trespass. As previously indicated, the WGE Fair Play facility was used for smelting and molding of lead and other metals from spent munitions gathered from firing ranges around the Southeast. They then melted the lead into ingots. Other than the emergency removal actions discussed above, there have been no previous removal activities at the Site.

4. Release or Threatened Release into the Environment of a Hazardous Substance, or Pollutant or Contaminant

Lead is a hazardous substance as defined under Section 101 (14) of CERCLA and listed in Title 40 of the Code of Federal Regulation (CFR), Section 302.4. Lead is present at high levels in soils as well as vessels/drums, lead melting process shed, several onsite dump sites, various equipment and brick supplies.

5. NPL Status

The Site is not on the National Priority List.

6. Maps, Pictures, and Other Graphic Representations

All removal file information, including maps and aerial photos of the Site, will be maintained by the PRP and the OSC. These files can be viewed on the OSC webpage http://www.epaosc.org/site/site_profile.aspx?site_id=6665

B. OTHER ACTIONS TO DATE

1. Previous Actions

As indicated above, emergency removal measures were initiated at the direction of the OSC. The PRPs hired a qualified contractor to perform the emergency response actions. Both a health and safety plan (HASP) as well as removal action work plans (RAWPs) have been submitted and approved by the OSC in consult with SCDHEC. Emergency response work was completed on February 21, 2011. The work included securing the site, stabilizing/containing lead process material vessels (i.e. drums and containers) and constructing sediment erosion measures.

The removal site inspection (RSI) was completed on March 7, 2011 with a subsequent removal site evaluation (RSE) recommendation for further action. A copy of the WGE Fair Play RSI report is included in Attachment A.

The OSC will continue to coordinate enforcement activities with SCDHEC. In addition, the OSC is coordinating with EPA R4 RCRA to assure that WGE proposed gun range recovery activities meet with applicable federal RCRA standards.

2. Current Actions

On February 17, 2011, the OSC requested that the PRP prepare the following plans for WGE Fair Play:

- Waste Characterization Plan (re. sampling) in order to gather the necessary information for an eventual Disposal/Recycling Options Analysis.
- Decontamination/Demolition Plan for remaining debris and structures exceeding the lead cleanup criteria.
- Soils Removal and Disposal Plan for soils exceeding the cleanup criteria.

The OSC is currently assisting the PRP by reviewing proposed RAWPs.

C. STATE AND LOCAL AUTHORITIES' ROLE

1. State and Local Actions to Date

SCDHEC ordered the cessation of operations on December 2, 2010. SCDHEC referred the Site to EPA Region 4 Emergency Response and Removal Branch (ERRB) for a RSE on December 22, 2010. A copy of the SCDHEC referral letter is included in Attachment E.

The OSC began the RSI component of the RSE during the week of January 31, 2011 and is coordinating enforcement efforts with SCDHEC using CERCLA response authority. In coordination with Air, Waste and Land Management, Site Evaluation, and Region 1 programs at SCDHEC, the OSC directed the PRPs to secure the locations, contain and secure open vessels/drums and construct a sediment/soil containment measure such as silt curtain and hay bales where appropriate. This emergency response action was completed on February 21, 2011. A copy of the WGE Fair Play daily progress report (DPR) is included in Attachment F.

2. Potential for Continued State and Local Response

EPA will continue to play a large role in the response activities at the Site and will continue to oversee activities under the AOC. EPA will coordinate with the State to ensure they are apprised of all progress made under the Administrative Order and Agreement on Consent.

III. THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES

Conditions resulting from the contaminated structural surfaces, vessels and drums in disrepair, and soil at the WGE Fair Play Site present a substantial threat to the public health or welfare and the environment if not properly managed and meet the criteria for a time-critical removal action as provided for in the NCP Section 300.415(b)(2). The primary criteria include:

- **Section 300.415(b)(2)(i) Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants:**

The contaminated structural surfaces, vessels and drums in disrepair and soil present a potential human exposure threat through direct contact, runoff, and/or air migration.
- **Section 300.415(b)(2)(iv) High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate:**

The contaminated soil presents a potential threat of migration.

IV. ENDANGERMENT DETERMINATION

Actual or threatened releases of hazardous substances from this Site, if not addressed by implementing the response action selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, welfare or the environment.

V. PROPOSED ACTION

A. Proposed Actions

The proposed actions listed below have been developed in coordination with the SCDHEC, EPA and the PRP. These actions are designed to promote public welfare by removing and/or remediating the contaminated structural surfaces, debris, vessels and drums in disrepair and soil from the Site. A removal action work plan will be developed by the PRP to implement the actions described below.

1. Proposed Action Description

The time critical removal action will execute the proposed actions:

- Implement an approved Health and Safety Plan
- Implement an approved Dust Monitoring and Management Plan
- Implement an approved Decontamination/Demolition Plan
- Implement an approved Soils Remediation Plan
- Implement an approved Waste Disposal Plan

2. Contribution to Remedial Performance

The proposed removal action will address the threats discussed in Section III, which meet the NCP Section 300.415(b)(2) removal criteria. The removal action contemplated in this Action Memorandum is consistent with future potential remedial actions.

3. Description of Alternative Technologies

The use of alternative technologies is not anticipated. The PRP will submit to the EPA OSC for evaluation, a technical memorandum documenting the evaluation of best management practices and available technologies concerning treatment if any treatment is to be considered.

4. Engineering Evaluation/Cost Analysis (EE/CA)

This proposed action is a time-critical removal and does not require an EE/CA.

5. Applicable or Relevant and Appropriate Requirements (ARARs)

This action is being conducted as a time-critical removal action. Pursuant to the NCP, removal actions conducted under CERCLA are required to attain ARARs to the extent practicable, considering the exigencies of the situation. Waivers described in 40 CFR 300.430 may also be used for removal actions. Potential ARARs for this Site include portions of RCRA Subtitle C and DOT requirements for management and shipment of hazardous waste, respectively. All wastes transferred off-site will comply with the CERCLA Off-Site Rule pursuant to CERCLA 121(d)(3) and 40 CFR 300.440.

A. Project Schedule

Removal activities began as an emergency action under the direction of the OSC. A removal action work plan will be developed to provide more details on the anticipated productivity of the removal and disposal, both of which will impact the schedule.

B. Estimated Costs

Estimated costs are not included as this removal action is anticipated to be implemented as an enforcement-lead action.

VI. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN

Failure to conduct this action in a timely manner increases the likelihood of human health exposure.

VII. OUTSTANDING POLICY ISSUES

There are no outstanding policy issues.

VIII. ENFORCEMENT

This action is being undertaken pursuant to an AOC between WGE, The Trust, and EPA.

IXI. REFERENCES

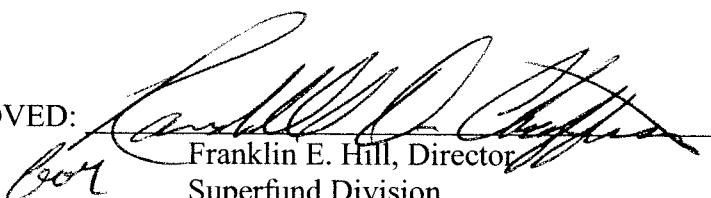
http://www.epaosc.org/site/site_profile.aspx?site_id=6665

X. RECOMMENDATION

This decision document represents the selected removal action for the Welch Group Environmental Fairplay Site, developed in accordance with CERCLA as amended, and not inconsistent with the National Contingency Plan (NCP). The document is based on the administrative record for the Site.

Conditions at the Site meet the NCP Section 300.415 (b)(2) criteria for a time-critical removal action.

APPROVED:



Franklin E. Hill, Director
Superfund Division

DATE:

5/12/11

DISAPPROVED:

DATE:

Franklin E. Hill, Director
Superfund Division

Attachments



March 6, 2011

Mr. Leo Francendese
On-Scene Coordinator
U.S. Environmental Protection Agency
61 Forsyth Street, SW 11th Floor
Atlanta, Georgia 30303

Subject: **Removal Site Inspection, Revision 0**
Welch Group Environmental (WGE) Fair Play Site
170 Feltman Farm Road, Oconee County, Fair Play, South Carolina
EPA Contract No. EP-W-05-053
Technical Direction Document (TDD) No. TNA-05-001-0126

Dear Mr. Francendese:

Oneida Total Integrated Enterprises (OTIE) Superfund Technical Assessment and Response Team (START) is submitting one copy of the Removal Site Inspection (RSI) for the Welch Group Environmental (WGE) Fair Play facility located in Fair Play, Oconee County, South Carolina.

Please contact me at (678) 355-5550 ext. 5708 if you any questions or comments regarding this report.

Sincerely,

Jerry Partap
START Project Manager

Enclosure

cc: Katrina Jones, EPA Project Officer
Darryl Walker, EPA Project Officer
Russell Henderson, START Program Manager (w/o enclosure)
START File

REMOVAL SITE INSPECTION

**WELCH GROUP ENVIRONEMNTAL (WGE)
FAIRPLAY SITE
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA**

Revision 0

Prepared for:

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 4
61 Forsyth Street
Atlanta, Georgia 30303

Prepared by:

Oneida Total Integrated Enterprises
Superfund Technical Assessment and Response Team
1220 Kennestone Circle, Suite D
Marietta, Georgia 30066

| | | |
|----------------|---|------------------------|
| Contract No. | : | EP-W-05-053 |
| TDD Number | : | TNA-05-001-0126 |
| Date Submitted | : | March 2, 2011 |
| EPA OSC | : | Leo Francendese |
| Telephone No. | : | 404-606-2223 |
| Prepared by | : | Jerry Partap |
| Telephone No. | : | 678-355-5550 ext. 5708 |

1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EIPA) tasked the Oneida Total Integrated Enterprises (OTIE) Superfund Technical Assessment and Response Team (START) to perform field activities in support of the On Scene Coordinator (OSC) for the U.S. Environmental Protection Agency (EPA) at the Welch Group Environmental (WGE) Fair Play Site, located in Fair Play, Oconee County, South Carolina. The field activities include maintaining the EPA OSC site webpage ([Fair Play Site](#)), compiling site history and maps, and managing field data. The site activities are conducted under Contract Number (No.) EP-W-05-053 and Technical Direction Document (TDD) No. TNA-05-001-0126. The general purpose of the RSI is to collect information to assist in determining whether Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) hazardous substances have been released into the environment. Specifically, findings will identify the need for federal intervention under the CERCLA of 1980 and the Superfund Amendments and Reauthorization Act (SARA) of 1986. In addition, the EPA OSC expanded the scope of the above actions by directing the PRP to conduct an emergency response ([Pol/Sitrep #1](#)). START expanded its role in support of this additional action.

Specifically, START was tasked with the following:

- Prepare a Health and Safety Plan ([START HASP](#));
- Prepare a Quality Assurance Project Plan (QAPP)/Site Sampling Plan ([START Sampling Plan](#)) (SSP);
- Screen surface and subsurface soil for lead concentrations using a Niton® X-Ray Fluorescence (XRF) elemental detector;
- Submit a limited number of soil samples to a laboratory for total lead analysis ([Laboratory Report](#));
- Document site activities with written logbook notes ([START Fieldnotes](#)), digital photographs ([Photolog](#)) and maintain the OSC webpage ([Fair Play Site](#));
- Prepare a comprehensive report summarizing the site conditions, field investigation activities, and analytical results of the RSI.

This RSE Report summarizes the existing conditions at the site; describes the field investigation activities conducted by START in February 2011; and, delineates the limits, nature, and extent of soil contamination at the site. All activities and procedures described in this report were performed in accordance with the EPA Region 4 *Field Branches Quality System and Technical Procedures* (FBQSTP) ([EPA Region 4 Technical Procedures](#)).

2.0 SITE BACKGROUND

This section discusses the site characteristics, previous investigations, and environmental setting of the area.

2.1 SITE DESCRIPTION

The site is located in Fair Play, Oconee County, South Carolina. The geographic coordinates are 34° 31' 23.96" North latitude and 82° 59' 28.82" West longitude ([Figure 1](#)). The site is comprised of a one story house and a one story partially enclosed brick building (smelting operation). The property is located on a hillside that is owned by Mr. James Feltman. The Feltman property is located on a 22-acre parcel, and smelting operations were conducted on approximately 6 acres.

Topographically upgradient of the smelting building there are equipment, scrap metal, deteriorated cars, trucks, and tractors scattered on the property. Downgradient of the smelting building there are several box trailers and multiple pallets of concrete blocks.

The site is bordered by State Road South 37 to the north, to the east by Highway 59, agricultural land to the west, and a wetland to the south ([Figure 2](#)). Topographically, the site drains generally to the northeast.

The property is owned by Mr. Feltman and leased to Mr. Glenn Welch of WGE. WGE operations at this site involved the smelting and molding of lead recovered from both indoor and outdoor shooting ranges across the United States.

2.2 PREVIOUS INVESTIGATIONS

The South Carolina Department of Health and Environmental Control (SCDHEC) conducted an initial site inspection on November 3, 2010. Details of the SCDHEC report can be found on the OSC web page at the following link ([SCDHEC Memo](#)).

The site was referred to the EPA on December 22, 2010 by the South Carolina Bureau of Land and Waste Management. Details of the SCDHEC referral letter can be found on the OSC web page ([SCDHEC Referral](#)).

On January 31, 2011, the EPA On-Scene Coordinator (OSC), SC DHEC, START, the property owner (James Feltman), and WGE (Glenn Welch) conducted a removal site inspection. According to Mr. Welch, WGE has been operating at this location for approximately 14 months. After material separation at the WGE Anderson facility, the WGE Fair Play facility was used for smelting and molding of lead. The photographic log ([Photolog](#)) and field logbook notes ([START Fieldnotes](#)).

3.0 FIELD INVESTIGATION ACTIVITIES

On February 1 and 3, 2011, START performed a preliminary RSE that included surface soil screening, soil sampling, and analysis activities at the site to identify the nature and extent of lead contamination in on-site soils from site operations. START utilized an XRF instrument to screen on-site soils for lead contamination to a maximum depth of 6 inches below ground surface (bgs). The EPA OSC indicated that soil samples were only to be collected from 0 to 6 inches bgs.

START collected a total of 75 discrete surface soil samples from 15 grids using stainless steel spoons for screening using the XRF. These discrete soil samples were collected topographically downgradient from the smelting building. Additionally, START collected a total of 140 discrete surface soil samples from 28 grids using stainless steel spoons for screening using the XRF. These discrete soil samples were collected topographically upgradient from the smelting building. One sample of the surface material was collected from the concrete floor of the smelting building.

In addition to the samples collected for XRF screening, composite samples were collected of the screened soils and submitted for laboratory analysis. These composite samples collected for laboratory analysis were from the downgradient portion of the site. A total of 11 soil composite samples and one duplicate were submitted to Gulf Coast Analytical Laboratories (GCAL) for analysis of total lead in accordance with SW846 Method 6010C, and five soil composite samples and one duplicate were submitted to GCAL for analysis of Target Analyte List (TAL) Metals in accordance with SW846 Method 6010C/7471B. The sample of the surface material that was collected from the concrete floor of the smelting building was submitted for total lead and TAL metals analysis. The data gathered during the RSI will be used to determine the release or substantial threat of release of a CERCLA hazardous substance.

Geographic positioning information was collected for all sampling locations and was geographically referenced using ArcView and uploaded to a hand-held Trimble® Global Positioning System (GPS). ([Table 1](#)) and ([Table 1a](#)) presents the GPS coordinates for each sample location.

3.1 SURFACE SOIL SCREENING

On February 1 and 3, 2011, START collected surface soil samples for screening purposes. The site was subdivided into 50 foot (ft) x 50 ft sampling grids. Based on the site topography and drainage pattern, the EPA OSC directed START to grid areas along the drainage patterns. Five-point discrete surface soil samples (0 to 6 inches) were collected from each grid location and screened using the XRF. Each sample was collected using stainless steel spoons, placed in zip top bags, and screened using the XRF. The lead results detected on the XRF were compared to the Region 4 Regional Screening Level (RSL) for residential soil of 400 parts per million (ppm). Screening results for each sample location are found on ([Figure 3](#)) and are summarized on ([Table 1](#)).

Additionally on February 8, 2011, the EPA directed START to screen the surface soils upgradient of the smelter building. START collected a total of 140 discrete surface soil samples from 28 grids using stainless steel spoons for screening using the XRF. The samples were only collected for screening purposes. A summary of the XRF soil screening results are presented on ([Table 1a](#)) and the screening results for each sample location is found on ([Figure 3](#)).

3.2 OSC REQUIRED EMERGENCY RESPONSE (ER) ACTIONS

On January 31, 2011, the EPA discussed with WGE the ER actions required to the secure the site ([WGE Workplan](#)). The EPA OSC directed WGE to immediately complete the following site tasks ([WGE Progress Report](#)):

- 1) Install silt fencing to limit the further impact of potentially impacted surface water off-site;
- 2) Secure and/or overpack all open containers with lead related material in the smelting building pending disposal/recycling;
- 3) Secure site with security tape until removal activities.

3.3 XRF SCREENING OF CONCRETE BLOCKS, EQUIPMENT, AND USED VEHICLES

On February 1, 3, 8, and 9, 2011, the EPA OSC tasked START to screen the pallets of concrete blocks, equipment, and used vehicles located at the site. On February 1 and 3, 2011, START screened the pallets of concrete blocks that were located downgradient of the smelting building. The results from the XRF screening indicated approximately 45% of the items screened were impacted with lead concentrations greater than the Region 4 RSL for residential soil of 400 ppm.

On February 3, 8, and 9, 2011, START screened the equipment and used vehicles upgradient of the smelting building. The XRF results indicated lead impacts, possibly from site operations, above the Region 4 RSL for residential soil of 400 ppm. A summary of the XRF readings and grid locations is presented in [\(Table 2\)](#). [\(Figure 4\)](#) shows the grid location and associated XRF readings.

On February 17, 2011, the EPA OSC directed START to collect representative paint samples from two old vehicles staged on the upgradient portion of the property in order to gain a representation of the vehicles upgradient of the smelting building. The samples were submitted to GCAL for laboratory analysis of lead. A summary of the analytical results is included on [\(Table 3\)](#). The laboratory report [\(Laboratory Report\)](#) can be viewed at the following link.

3.4 SURFACE SOIL SAMPLING

A composite sample from each of the 15 grids was submitted for laboratory analysis. The five discrete samples that were collected and screened using the XRF from each of the 15 grids were homogenized in stainless steel bowls, containerized, placed on ice, documented, and shipped under standard chain-of-custody procedures to GCAL in Baton Rouge, Louisiana. The soil samples were compared to the Region 4 Regional Screening Level (RSL) for residential soil of 400 milligrams per kilogram (mg/kg). A summary of the laboratory analytical results for each sample collected are found in [\(Table 3\)](#). [\(Figure 5\)](#) depicts the areas of lead impacts to the surface soils.

3.5 SITE SECURITY AND MISCELLANEOUS ITEMS

During the site inspection, shell casings and bullet remains were discovered in the natural drainage patterns at the site. As a result, the EPA OSC instructed WGE to install silt fencing to limit the further impact of potentially impacted surface water off-site. The photographic log [\(Photolog\)](#) can be viewed at the following link.

During the RSE, drums of varying contents were observed on site. The EPA OSC instructed WGE to overpack deteriorated drums. WGE was also told by the EPA OSC that all drums shall be stored and secured in the former smelting building for characterization and future disposal/recycling. There were a total of 41 drums of contaminated material, and an additional 11 drums and 10 buckets of unknown material for hazardous categorization, 2 steel boxes of lead material, and 1 drum of trash ([WGE Progress Report](#)).

On February 9, 2011, WGE obtained samples of material from each of the 11 drums and 10 buckets for hazardous characterization (HazCat) testing to determine material classification. The results of the HazCat performed by WGE can be found at the following link ([Fair Play Site](#)).

4.0 QUALITY ASSURANCE/QUALITY CONTROL

QA/QC data are necessary to determine precision and accuracy and to demonstrate the absence of interferences and/or contamination of sampling equipment, glassware, and reagents. This section describes the QA/QC measures taken and provides an evaluation of the usability of data presented in this report.

A total of one duplicate (AA10-100) for total lead and one duplicate (AA9-101) for TAL metals were submitted to GCAL for analysis. The native sample (FP01-AA10) and its duplicate (AA10-100) had a high percent difference between the two samples (67%) for lead. This difference can be attributed to the heterogeneity of the soil. The native sample (FP06-AA9) and its duplicate (AA9-101) had a high percent difference between the two samples (90%) for copper (111%) and zinc (118%). This difference can be attributed to the heterogeneity of the soil ([Soil Laboratory Report](#)).

5.0 SITE INVESTIGATION RESULTS

The following sections summarize the XRF and laboratory results for soil samples collected during the RSE field sampling activities.

As discussed, above START collected a total of 75 discrete surface soil samples from 15 grids. XRF screening results indicate concentrations of lead were detected in all 15 Grids located downgradient of the smelting building. Additionally, START collected a total of 140 discrete surface soil samples from 28 grids topographically upgradient from the smelting building. The screening results for each sample location are summarized in ([Table 1](#)) and ([Table 1a](#)) and are shown on ([Figure 3](#)).

11 composite samples from 11 grids were submitted for laboratory analysis. The laboratory data indicated that 10 grids indicated soil lead concentrations results above the residential RSL of 400 mg/kg. Only one sample, Grid AE10, indicated soil concentrations below the RSL ([Soil Laboratory Report](#)).

Additionally, START screened pallets of concrete blocks, equipment, and used vehicles located at the site. Initial indications are that items on site were impacted with lead, possibly from smelting operations. Results of the screening are presented on ([Table 2](#)). ([Figure 4](#)) shows the grid locations and associated XRF readings.

6.0 SUMMARY AND CONCLUSIONS

The WGE Fair Play facility was used for smelting and molding of lead and other metals from spent munitions at firing ranges gathered from around the Southeast. WGE leases the property from Mr. James Feltman.

WGE was directed by the EPA OSC to submit workplans that were approved for securing the facility. WGE installed silt fencing to limit the amount of potentially impacted surface water leaving the site. Based on the XRF results, the warehouse was limited to activity. Drums and over packed containers of exposed lead and materials that exists on site were moved and secured in the former smelting building for further disposal/recycling. On February 17th, the EPA OSC requested that WGE prepare the following plans for the WGE Fair Play facility:

- ***Waste Characterization Plan*** (re. sampling) in order to gather the necessary information for an eventual ***Disposal/Recycling Options Analysis***.
- ***Decontamination/Demolition Plan*** for remaining debris and structures exceeding the lead cleanup criteria.
- ***Soils Removal and Disposal Plan*** for soils exceeding the cleanup criteria.

Further activities associated with this site will be determined be based on the approval of the workplans listed above by the EPA OSC. The EPA OSC anticipates that the management of the site will transition into a time critical removal action under an EPA Administrative Order on Consent.

ATTACHMENT B
Tables

TABLE 1

WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION

FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA

XRF SOIL SCREENING RESULTS FOR THE SAMPLING LOCATIONS
FEBRUARY 1 AND 3, 2011

| Grid Location | Sample Depth (ftsgs) | Grid Sample No. | XRF Lead Soil Results (ppm) | +/- Error | Latitude | Longitude |
|---------------|----------------------|-----------------|-----------------------------|-----------|----------------|-----------------|
| AA8 | 0-0.5 | 1 | 250,838 | 2,073 | 34.52345844370 | -82.99129979470 |
| | 0-0.5 | 2 | 243,642 | 2,026 | 34.52341785550 | -82.99139089120 |
| | 0-0.5 | 3 | 419,008 | 3,263 | 34.52344822480 | -82.99134466840 |
| | 0-0.5 | 4 | 13,515 | 245 | 34.52342853720 | -82.99126198920 |
| | 0-0.5 | 5 | 5,749 | 139 | 34.52341123190 | -82.99125505990 |
| AA9 | 0-0.5 | 1 | 3,903 | 109 | 34.52348993350 | -82.99124405730 |
| | 0-0.5 | 2 | 51,647 | 586 | 34.52344659190 | -82.99122263580 |
| | 0-0.5 | 3 | 4,298 | 121 | 34.52348097920 | -82.99118441160 |
| | 0-0.5 | 4 | 11,348 | 206 | 34.52350434380 | -82.99127511920 |
| | 0-0.5 | 5 | 57,896 | 624 | 34.52345294260 | -82.99123722450 |
| AA10 | 0-0.5 | 1 | 11,296 | 189 | 34.52357285690 | -82.99112961780 |
| | 0-0.5 | 2 | 790 | 49 | 34.52360223030 | -82.99109158900 |
| | 0-0.5 | 3 | 4,076 | 109 | 34.52353858800 | -82.99111298020 |
| | 0-0.5 | 4 | 4,243 | 113 | 34.52357285690 | -82.99119260290 |
| | 0-0.5 | 5 | 5,205 | 123 | 34.52359831390 | -82.99114863220 |
| AB7 | 0-0.5 | 1 | 1,871 | 73 | 34.52324627150 | -82.99132376010 |
| | 0-0.5 | 2 | 5,563 | 129 | 34.52327654030 | -82.99133361290 |
| | 0-0.5 | 3 | 146,783 | 1,324 | 34.52325305610 | -82.99127502630 |
| | 0-0.5 | 4 | 6,309 | 153 | 34.52320987290 | -82.99131952570 |
| | 0-0.5 | 5 | 973 | 55 | 34.52329001570 | -82.99130525490 |

TABLE 1

WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION

FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
XRF SOIL SCREENING RESULTS FOR THE SAMPLING LOCATIONS
FEBRUARY 1 AND 3, 2011

| Grid Location | Sample Depth (ft/bs) | Grid Sample No. | XRF Lead Soil Results (ppm) | +/- Error | Latitude | Longitude |
|---------------|----------------------|-----------------|-----------------------------|-----------|----------------|-----------------|
| AB8 | 0-0.5 | 1 | 33,541 | 399 | 34.52334158970 | -82.99120803130 |
| | 0-0.5 | 2 | 6,157,346 | 46,330 | 34.52337604370 | -82.99123037330 |
| | 0-0.5 | 3 | 39,118 | 482 | 34.52332537540 | -82.99116274500 |
| | 0-0.5 | 4 | 9,379 | 181 | 34.52329123350 | -82.99121605200 |
| | 0-0.5 | 5 | 36,350 | 435 | 34.52331928000 | -82.99125029870 |
| | 0-0.5 | 1 | 386,305 | 3,157 | 34.52340736680 | -82.99115544440 |
| AB9 | 0-0.5 | 2 | 4,426 | 124 | 34.52341552330 | -82.99119485130 |
| | 0-0.5 | 3 | 28,333 | 388 | 34.52345769680 | -82.99115626390 |
| | 0-0.5 | 4 | 67,678 | 690 | 34.52339111310 | -82.99107722990 |
| | 0-0.5 | 5 | 2,576,349 | 18,612 | 34.52337243070 | -82.99114731280 |
| | 0-0.5 | 1 | 1,240 | 68 | 34.52348505550 | -82.99103593710 |
| AB10 | 0-0.5 | 2 | 12,197 | 219 | 34.52346418200 | -82.99107360140 |
| | 0-0.5 | 3 | 96 | 21 | 34.52351100050 | -82.99100814010 |
| | 0-0.5 | 4 | 5,381 | 124 | 34.52351585270 | -82.99107310550 |
| | 0-0.5 | 5 | 5,927 | 129 | 34.52344109620 | -82.99101090600 |
| | 0-0.5 | 1 | 6,220 | 162 | 34.52357314490 | -82.99093068230 |
| AB11 | 0-0.5 | 2 | 1,258 | 60 | 34.52352904760 | -82.99093854090 |
| | 0-0.5 | 3 | 2,265 | 79 | 34.52356192490 | -82.99088255910 |
| | 0-0.5 | 4 | 639 | 43 | 34.52361966280 | -82.99093011610 |
| | 0-0.5 | 5 | 9,944 | 196 | 34.52360085600 | -82.99098296850 |

TABLE 1
WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
XRF SOIL SCREENING RESULTS FOR THE SAMPLING LOCATIONS
FEBRUARY 1 AND 3, 2011

| Grid Location | Sample Depth (ft bgs) | Grid Sample No. | XRF Lead Soil Results (ppm) | +/- Error | Latitude | Longitude |
|---------------|--------------------------|-----------------|--------------------------------|-----------|-----------------|-----------------|
| AC10 | 0-0.5 | 1 | 4,776 | 117 | 34.52341073510 | -82.99093550850 |
| | 0-0.5 | 2 | 31,608 | 385 | 34.52340156600 | -82.9909970570 |
| | 0-0.5 | 3 | 711 | 43 | 34.52346646540 | -82.99093512880 |
| | 0-0.5 | 4 | 559 | 40 | 34.52340136780 | -82.99090738900 |
| | 0-0.5 | 5 | 888 | 47 | 34.52336864140 | -82.99094838840 |
| AC11 | 0-0.5 | 1 | 575 | 40 | 34.52348192730 | -82.99085395960 |
| | 0-0.5 | 2 | 1,458 | 67 | 34.52352360190 | -82.99085691650 |
| | 0-0.5 | 3 | 1,554 | 64 | 34.52349952510 | -82.99089560450 |
| | 0-0.5 | 4 | 3,281 | 101 | 34.52345279610 | -82.99086062450 |
| | 0-0.5 | 5 | 1,594 | 68 | 34.52348550710 | -82.99087874460 |
| AE9 | 0-0.5 | 1 | 312 | 30 | 34.52318966690 | -82.99085347040 |
| | 0-0.5 | 2 | 1,986 | 71 | 34.52314179400 | -82.99082361970 |
| | 0-0.5 | 3 | 1,474 | 59 | 34.52317319980 | -82.99091628400 |
| | 0-0.5 | 4 | 76 | 17 | 34.523320631240 | -82.99087233920 |
| | 0-0.5 | 5 | 377 | 32 | 34.52315481850 | -82.99086296180 |
| AE10 | 0-0.5 | 1 | 512 | 38 | 34.52327337400 | -82.99071814510 |
| | 0-0.5 | 2 | 46 | 16 | 34.52330038980 | -82.99073439420 |
| | 0-0.5 | 3 | 162 | 23 | 34.52322258560 | -82.99072838400 |
| | 0-0.5 | 4 | 48 | 16 | 34.52329304970 | -82.99070568260 |
| | 0-0.5 | 5 | 51 | 16 | 34.52323880760 | -82.99073116660 |

TABLE 1
WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
XRF SOIL SCREENING RESULTS FOR THE SAMPLING LOCATIONS
FEBRUARY 1 AND 3, 2011

| Grid Location | Sample Depth (ftbs) | Grid Sample No. | XRF Lead Soil Results (ppm) | +/- Error | Latitude | Longitude |
|---------------|---------------------|-----------------|-----------------------------|-----------|-----------------|-----------------|
| AF9 | 0-0.5 | 1 | 1,549 | 50 | 34.52310746200 | -82.99075405890 |
| | 0-0.5 | 2 | 143 | 22 | 34.52306504580 | -82.99078115950 |
| | 0-0.5 | 3 | 92 | 21 | 34.52309956100 | -82.99082390460 |
| | 0-0.5 | 4 | 81 | 21 | 34.52313753560 | -82.99074519840 |
| | 0-0.5 | 5 | 720 | 44 | 34.52310706290 | -82.99069851540 |
| | 0-0.5 | 1 | 111,667 | 1,113 | 34.52346638550 | -82.99151106330 |
| Z7 | 0-0.5 | 2 | 10,378 | 191 | 34.52341849290 | -82.99146734240 |
| | 0-0.5 | 3 | 133,428 | 1,345 | 34.52343231230 | -82.99156977020 |
| | 0-0.5 | 4 | 535 | 42 | 34.52340245070 | -82.99150994680 |
| | 0-0.5 | 5 | 1,077,621 | 7,792 | 34.52339916550 | -82.99155180390 |
| | 0-0.5 | 1 | 20,311 | 278 | 34.52354005000 | -82.9914524990 |
| Z8 | 0-0.5 | 2 | 15,493 | 228 | 34.523350296130 | -82.99144988810 |
| | 0-0.5 | 3 | 462,175 | 3,458 | 34.52346181180 | -82.99142641400 |
| | 0-0.5 | 4 | 1,211 | 54 | 34.523350905610 | -82.99137715490 |
| | 0-0.5 | 5 | 2,004 | 74 | 34.52349585240 | -82.99136201570 |

Notes:

FBGS – feet below ground surface

NA – not applicable – sample was not sent to the laboratory

ppm – parts per million

XRF – X-ray refraction

Results that are shaded are above the USEPA Removal Action Level for lead in residential soil (400 ppm).

TABLE 1a
WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
XRF SOIL SCREENING RESULTS FOR THE SAMPLING LOCATIONS UP-GRADIENT OF THE LEAD SMELTER SHED
FEBRUARY 8, 2011

| Grid Location | Sample Depth (ft/gs) | Grid Sample No. | XRF Lead Soil Results (ppm) | +/- Error | Latitude | Longitude |
|---------------|----------------------|-----------------|-----------------------------|-----------|-----------------|------------------|
| Z5 | 0-0.5 | 1 | 284 | 30 | 34.52324906070 | -82.99168925450 |
| | 0-0.5 | 2 | 303 | 33 | 34.52324309490 | -82.99175455660 |
| | 0-0.5 | 3 | 191 | 27 | 34.52324309490 | -82.99173658950 |
| | 0-0.5 | 4 | 325 | 35 | 34.52328598580 | -82.99167122100 |
| | 0-0.5 | 5 | 371 | 34 | 34.52323509900 | -82.99167245700 |
| X3 | 0-0.5 | 1 | 98 | 23 | 34.52327854560 | -82.99210845520 |
| | 0-0.5 | 2 | 124 | 17 | 34.52332346470 | -82.99209619930 |
| | 0-0.5 | 3 | 58 | 14 | 34.52323810270 | -82.99214220220 |
| | 0-0.5 | 4 | 30 | 16 | 34.52325539410 | -82.99203522710 |
| | 0-0.5 | 5 | 82 | 20 | 34.52329339430 | -82.99214991350 |
| Y5 | 0-0.5 | 1 | 143 | 29 | 34.52334705740 | -82.99180079150 |
| | 0-0.5 | 2 | 69 | 19 | 34.52338814110 | -82.99180203830 |
| | 0-0.5 | 3 | 53 | 19 | 34.52332506310 | -82.99177089560 |
| | 0-0.5 | 4 | 40 | 15 | 34.52331474990 | -82.99183341900 |
| | 0-0.5 | 5 | 52 | 22 | 34.52335232970 | -82.99185529580 |
| X4 | 0-0.5 | 1 | 279 | 28 | 34.52334912100 | -82.99201330970 |
| | 0-0.5 | 2 | 139 | 26 | 34.523339920820 | -82.99200528390 |
| | 0-0.5 | 3 | 102 | 21 | 34.52334325850 | -82.99205680120 |
| | 0-0.5 | 4 | 212 | 23 | 34.52329189140 | -82.99200298380 |
| | 0-0.5 | 5 | 122 | 20 | 34.52333985620 | -82.991942282360 |

TABLE 1a
WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
XRF SOIL SCREENING RESULTS FOR THE SAMPLING LOCATIONS UP-GRADIENT OF THE LEAD SMELTER SHED
FEBRUARY 8, 2011

| Grid Location | Sample Depth (ft bgs) | Grid Sample No. | XRF Lead Soil Results (ppm) | +/- Error | Latitude | Longitude |
|---------------|--------------------------|--------------------|-----------------------------------|-----------|----------------|-----------------|
| X5 | 0-0.5 | 1 | 240 | 29 | 34.52343248470 | -82.99190067600 |
| | 0-0.5 | 2 | 305 | 35 | 34.52341120900 | -82.99182967670 |
| | 0-0.5 | 3 | 452 | 34 | 34.52344579980 | -82.99186981660 |
| | 0-0.5 | 4 | 52 | 18 | 34.52341156410 | -82.99194040420 |
| | 0-0.5 | 5 | 79 | 16 | 34.52346529510 | -82.99192574620 |
| Y6 | 0-0.5 | 1 | 329 | 34 | 34.52351453610 | -82.99182157970 |
| | 0-0.5 | 2 | 179 | 21 | 34.52347311740 | -82.99176643050 |
| | 0-0.5 | 3 | 349 | 37 | 34.52350414790 | -82.99176318230 |
| | 0-0.5 | 4 | 73 | 22 | 34.52353019320 | -82.99184119380 |
| | 0-0.5 | 5 | 450 | 33 | 34.52345421480 | -82.99183134680 |
| X2 | 0-0.5 | 1 | 75 | 21 | 34.52319258500 | -82.99221351170 |
| | 0-0.5 | 2 | 81 | 19 | 34.52322835950 | -82.99218106510 |
| | 0-0.5 | 3 | 34 | 16 | 34.52321431490 | -82.99225254830 |
| | 0-0.5 | 4 | 52 | 19 | 34.52315141810 | -82.99223750010 |
| | 0-0.5 | 5 | 67 | 18 | 34.52316343380 | -82.99218072020 |
| Y4 | 0-0.5 | 1 | 221 | 24 | 34.52326366690 | -82.99189230070 |
| | 0-0.5 | 2 | 1,196 | 57 | 34.52330846460 | -82.99191610890 |
| | 0-0.5 | 3 | 126 | 23 | 34.52329519580 | -82.99186405130 |
| | 0-0.5 | 4 | 242 | 27 | 34.52324036130 | -82.99185366000 |
| | 0-0.5 | 5 | 130 | 27 | 34.52323177800 | -82.99193990860 |

TABLE 1a
WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
XRF SOIL SCREENING RESULTS FOR THE SAMPLING LOCATIONS UP-GRADIENT OF THE LEAD SMELTER SHED
FEBRUARY 8, 2011

| Grid Location | Sample Depth (Inches) | Grid Sample No. | XRF Lead Soil Results (ppm) | +/- Error | Latitude | Longitude |
|---------------|-----------------------|-----------------|-----------------------------|-----------|----------------|-----------------|
| Z4 | 0-0.5 | 1 | 289 | 27 | 34.52320266890 | -82.99181402460 |
| | 0-0.5 | 2 | 89 | 23 | 34.52322843190 | -82.99181768730 |
| | 0-0.5 | 3 | 80 | 23 | 34.52318257340 | -82.99185745840 |
| | 0-0.5 | 4 | 215 | 48 | 34.52314746400 | -82.99180674130 |
| | 0-0.5 | 5 | 212 | 27 | 34.52317480250 | -82.99175386730 |
| AA6 | 0-0.5 | 1 | 750 | 43 | 34.52325588550 | -82.99153411430 |
| | 0-0.5 | 2 | 725 | 46 | 34.52324048400 | -82.99150461460 |
| | 0-0.5 | 3 | 675 | 53 | 34.52321825260 | -82.99149727350 |
| | 0-0.5 | 4 | 175 | 29 | 34.52322548020 | -82.99156175290 |
| | 0-0.5 | 5 | 69 | 17 | 34.52326675110 | -82.99157316890 |
| Z3 | 0-0.5 | 1 | 63 | 18 | 34.52312400670 | -82.99190415220 |
| | 0-0.5 | 2 | 188 | 27 | 34.52315704760 | -82.99190793940 |
| | 0-0.5 | 3 | 408 | 40 | 34.52309123030 | -82.99185809580 |
| | 0-0.5 | 4 | 166 | 25 | 34.52307854260 | -82.99194300060 |
| | 0-0.5 | 5 | 111 | 26 | 34.52312489010 | -82.99194954830 |
| X6 | 0-0.5 | 1 | 405 | 41 | 34.52351453610 | -82.99182157970 |
| | 0-0.5 | 2 | 503 | 59 | 34.52347311740 | -82.99176643050 |
| | 0-0.5 | 3 | 142 | 22 | 34.52350414790 | -82.99176318230 |
| | 0-0.5 | 4 | 133 | 25 | 34.52353019320 | -82.99184119380 |
| | 0-0.5 | 5 | 226 | 24 | 34.52345421480 | -82.99183134680 |

TABLE 1a
WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
XRF SOIL SCREENING RESULTS FOR THE SAMPLING LOCATIONS UP-GRADIENT OF THE LEAD SMELTER SHED
FEBRUARY 8, 2011

| Grid Location | Sample Depth (ftgs) | Grid Sample No. | XRF Lead Soil Results (ppm) | +/- Error | Latitude | Longitude |
|---------------|------------------------|--------------------|-----------------------------------|-----------|----------------|------------------|
| Y1 | 0-0.5 | 1 | 206 | 29 | 34.52304562030 | -82.99217525040 |
| | 0-0.5 | 2 | 161 | 23 | 34.52306909560 | -82.992191913440 |
| | 0-0.5 | 3 | 151 | 21 | 34.52306455370 | -82.99216204250 |
| | 0-0.5 | 4 | 50 | 13 | 34.52302838770 | -82.99215128530 |
| | 0-0.5 | 5 | 73 | 17 | 34.52303319950 | -82.99212340950 |
| Y2 | 0-0.5 | 1 | 153 | 19 | 34.52311165060 | -82.99209019540 |
| | 0-0.5 | 2 | 124 | 27 | 34.52309601330 | -82.99204813430 |
| | 0-0.5 | 3 | 180 | 24 | 34.52306007830 | -82.99209071490 |
| | 0-0.5 | 4 | 63 | 18 | 34.52316638460 | -82.99209867600 |
| | 0-0.5 | 5 | 52 | 20 | 34.52312071580 | -82.99214554200 |
| AA3 | 0-0.5 | 1 | 89 | 22 | 34.52303793200 | -82.99181686320 |
| | 0-0.5 | 2 | 174 | 23 | 34.52306597830 | -82.99178217480 |
| | 0-0.5 | 3 | 129 | 20 | 34.52306505800 | -82.99183154720 |
| | 0-0.5 | 4 | 64 | 23 | 34.52301177120 | -82.99185357900 |
| | 0-0.5 | 5 | 85 | 19 | 34.52299178870 | -82.99179028320 |
| AB5 | 0-0.5 | 1 | 153 | 29 | 34.52308895520 | -82.99153520060 |
| | 0-0.5 | 2 | 41 | 18 | 34.52310442530 | -82.99155904170 |
| | 0-0.5 | 3 | 81 | 21 | 34.52310783660 | -82.99148930070 |
| | 0-0.5 | 4 | 157 | 24 | 34.52313595100 | -82.99153874190 |
| | 0-0.5 | 5 | 389 | 34 | 34.52312181120 | -82.99157709870 |

TABLE 1a
WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
XRF SOIL SCREENING RESULTS FOR THE SAMPLING LOCATIONS UP-GRADIENT OF THE LEAD SMELTER SHED
FEBRUARY 8, 2011

| Grid Location | Sample Depth (ftbs) | Grid Sample No. | XRF Lead Soil Results (ppm) | +/- Error | Latitude | Longitude |
|---------------|---------------------|-----------------|-----------------------------|-----------|----------------|-----------------|
| AB4 | 0-0.5 | 1 | 97 | 23 | 34.52304076640 | -82.99163176030 |
| | 0-0.5 | 2 | 135 | 21 | 34.52306854730 | -82.99164250760 |
| | 0-0.5 | 3 | 468 | 59 | 34.52301375690 | -82.99166911210 |
| | 0-0.5 | 4 | 52 | 25 | 34.52298979200 | -82.99161257730 |
| | 0-0.5 | 5 | 268 | 27 | 34.52302290420 | -82.99159103760 |
| AB3 | 0-0.5 | 1 | 309 | 40 | 34.52293771940 | -82.99169771400 |
| | 0-0.5 | 2 | 118 | 22 | 34.52290779560 | -82.99174243000 |
| | 0-0.5 | 3 | 111 | 25 | 34.52299947410 | -82.99171351170 |
| | 0-0.5 | 4 | 57 | 17 | 34.52295106550 | -82.99167508440 |
| | 0-0.5 | 5 | 225 | 28 | 34.52292244040 | -82.99168812240 |
| X1 | 0-0.5 | 1 | 95 | 24 | 34.52309754080 | -82.99228078040 |
| | 0-0.5 | 2 | 73 | 21 | 34.52308911520 | -82.99224230020 |
| | 0-0.5 | 3 | 81 | 20 | 34.52312986860 | -82.99225041850 |
| | 0-0.5 | 4 | 57 | 21 | 34.52306072850 | -82.99230155230 |
| | 0-0.5 | 5 | 236 | 38 | 34.52315488040 | -82.99229956970 |
| AA2 | 0-0.5 | 1 | 56 | 19 | 34.52296459660 | -82.99191916730 |
| | 0-0.5 | 2 | 84 | 18 | 34.52292451680 | -82.99195480770 |
| | 0-0.5 | 3 | 83 | 21 | 34.52291156070 | -82.99189703130 |
| | 0-0.5 | 4 | 169 | 23 | 34.52296964470 | -82.99185781220 |
| | 0-0.5 | 5 | 184 | 30 | 34.52299938020 | -82.99192113940 |

TABLE 1a
WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
XRF SOIL SCREENING RESULTS FOR THE SAMPLING LOCATIONS UP-GRADIENT OF THE LEAD SMELTER SHED
FEBRUARY 8, 2011

| Grid Location | Sample Depth (ftags) | Grid Sample No. | XRF Lead Soil Results (ppm) | +/- Error | Latitude | Longitude |
|---------------|-------------------------|--------------------|-----------------------------------|-----------|----------------|-----------------|
| Y3 | 0-0.5 | 1 | 61 | 16 | 34.52318550690 | -82.99198667620 |
| | 0-0.5 | 2 | 58 | 17 | 34.52317491530 | -82.99193256960 |
| | 0-0.5 | 3 | 308 | 34 | 34.52322563470 | -82.99198584820 |
| | 0-0.5 | 4 | 27 | 16 | 34.52315173570 | -82.99204696390 |
| | 0-0.5 | 5 | 128 | 23 | 34.52314034880 | -82.99200226420 |
| | 0-0.5 | 1 | 1,482 | 55 | 34.52334222370 | -82.99162227190 |
| Z6 | 0-0.5 | 2 | 1,309 | 69 | 34.52330808270 | -82.99166522610 |
| | 0-0.5 | 3 | 350 | 31 | 34.52330355560 | -82.99159200550 |
| | 0-0.5 | 4 | 216 | 24 | 34.52335284680 | -82.99166980750 |
| | 0-0.5 | 5 | 208 | 25 | 34.52336754340 | -82.99160328210 |
| | 0-0.5 | 1 | 258 | 27 | 34.52296793740 | -82.99152492020 |
| | 0-0.5 | 2 | 130 | 26 | 34.52299359270 | -82.99152930400 |
| AC4 | 0-0.5 | 3 | 1,045 | 50 | 34.52299488460 | -82.99151018040 |
| | 0-0.5 | 4 | 95 | 23 | 34.52297133640 | -82.99148922530 |
| | 0-0.5 | 5 | 326 | 32 | 34.52294200730 | -82.99154602270 |
| | 0-0.5 | 1 | 170 | 24 | 34.52283648470 | -82.99178905900 |
| | 0-0.5 | 2 | 145 | 27 | 34.52286245890 | -82.99181396360 |
| | 0-0.5 | 3 | 24 | 13 | 34.52284136240 | -82.99188098510 |
| AB2 | 0-0.5 | 4 | 49 | 17 | 34.52287662080 | -82.99176914760 |
| | 0-0.5 | 5 | < LOD | 22 | 34.52291123630 | -82.99180106120 |

TABLE 1a
**WELCH GROUP ENVIRONMENTAL
 REMOVAL SITE INVESTIGATION**
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
XRF SOIL SCREENING RESULTS FOR THE SAMPLING LOCATIONS UP-GRADIENT OF THE LEAD SMELTER SHED
FEBRUARY 8, 2011

| Grid Location | Sample Depth (ft/gs) | Grid Sample No. | XRF Lead Soil Results (ppm) | +/- Error | Latitude | Longitude |
|---------------|----------------------|-----------------|-----------------------------|-----------|----------------|------------------|
| AC3 | 0-0.5 | 1 | 73 | 19 | 34.5228974520 | -82.99160253270 |
| | 0-0.5 | 2 | 136 | 21 | 34.52292644240 | -82.99161717830 |
| | 0-0.5 | 3 | 56 | 21 | 34.52289309430 | -82.99165968430 |
| | 0-0.5 | 4 | 68 | 19 | 34.52287444180 | -82.99163878430 |
| | 0-0.5 | 5 | 110 | 22 | 34.52288575340 | -82.99158179680 |
| | 0-0.5 | 1 | 643 | 41 | 34.52311981810 | -82.99172150100 |
| AA4 | 0-0.5 | 2 | 130 | 18 | 34.52306931560 | -82.99169268260 |
| | 0-0.5 | 3 | 1,288 | 54 | 34.52315974510 | -82.99171821610 |
| | 0-0.5 | 4 | 108 | 25 | 34.52310154010 | -82.99175506260 |
| | 0-0.5 | 5 | 525 | 48 | 34.52305771890 | -82.99174206360 |
| | 0-0.5 | 1 | 744 | 57 | 34.52318064820 | -82.99162696670 |
| | 0-0.5 | 2 | 147 | 20 | 34.52320967610 | -82.99159087480 |
| AA5 | 0-0.5 | 3 | 171 | 34 | 34.52323527400 | -82.99163805340 |
| | 0-0.5 | 4 | 281 | 32 | 34.52315438800 | -82.991670644890 |
| | 0-0.5 | 5 | 247 | 40 | 34.52314972650 | -82.99158394140 |
| | 0-0.5 | 1 | 73 | 23 | 34.52304686890 | -82.99199673910 |
| | 0-0.5 | 2 | 145 | 25 | 34.52305868570 | -82.99204397130 |
| | 0-0.5 | 3 | 160 | 25 | 34.52307898620 | -82.99199713070 |
| Z2 | 0-0.5 | 4 | 261 | 21 | 34.52303311550 | -82.99195382720 |
| | 0-0.5 | 5 | 156 | 24 | 34.52300255720 | -82.99201114760 |

Notes:

FBGS – feet below ground surface

NA – not applicable – sample was not sent to the laboratory

ppm – parts per million

XRF – X-ray refraction

Results that are shaded are above the USEPA Removal Action Level for lead in residential soil (400 ppm).

**WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
XRF SCREENING RESULTS OF MISCELLANEOUS ITEMS**

| Reading No | Time | Type | SAMPLE | LOCATION | GRID LOCATIONS | Pb | % +/- Error | Units |
|------------------------------------|----------|-----------------|--------------------|--------------------------------------|----------------|--------|-------------|-------|
| CONCRETE BLOCKS AND CURBING | | | | | | | | |
| 2 | 02/01/11 | CONCRETE BLOCKS | AA9-BLOCK | DOWN GRADIENT OF SMELTING OPERATIONS | AA9 | 257 | 32 | ppm |
| 3 | 02/01/11 | CONCRETE BLOCKS | AB9-BLOCK | DOWN GRADIENT OF SMELTING OPERATIONS | AB9 | 122 | 25 | ppm |
| 4 | 02/01/11 | CONCRETE BLOCKS | AB9-BLOCK2 | DOWN GRADIENT OF SMELTING OPERATIONS | AB9 | 191 | 31 | ppm |
| 5 | 02/01/11 | CONCRETE BLOCKS | AC10-BLOCK | DOWN GRADIENT OF SMELTING OPERATIONS | AC10 | 76 | 40 | ppm |
| 6 | 02/01/11 | CONCRETE BLOCKS | AC9-BLOCK | DOWN GRADIENT OF SMELTING OPERATIONS | AC9 | 252 | 58 | ppm |
| 7 | 02/01/11 | CONCRETE BLOCKS | AC9-BL-OCK2 | DOWN GRADIENT OF SMELTING OPERATIONS | AC9 | 95 | 28 | ppm |
| 8 | 02/01/11 | CONCRETE BLOCKS | AC10-BL-OCK2 | DOWN GRADIENT OF SMELTING OPERATIONS | AC10 | 48 | 22 | ppm |
| 9 | 02/01/11 | CONCRETE BLOCKS | AC10-BL-OCK3 | DOWN GRADIENT OF SMELTING OPERATIONS | AC10 | 452 | 46 | ppm |
| 10 | 02/01/11 | CONCRETE BLOCKS | AC11-BL-OBLOCK | DOWN GRADIENT OF SMELTING OPERATIONS | AC11 | 107 | 24 | ppm |
| 11 | 02/01/11 | CONCRETE BLOCKS | AC11-BL-OCK2 | DOWN GRADIENT OF SMELTING OPERATIONS | AC11 | 438 | 45 | ppm |
| 12 | 02/01/11 | CONCRETE BLOCKS | AB12-BL-BLOCK | DOWN GRADIENT OF SMELTING OPERATIONS | AB12 | 3,359 | 111 | ppm |
| 13 | 02/01/11 | CONCRETE BLOCKS | AB11-BL-BLOCK | DOWN GRADIENT OF SMELTING OPERATIONS | AB11 | 1,080 | 59 | ppm |
| 14 | 02/01/11 | CONCRETE BLOCKS | AB11-BL-BLOCK2 | DOWN GRADIENT OF SMELTING OPERATIONS | AB11 | 14,364 | 221 | ppm |
| 15 | 02/01/11 | CONCRETE BLOCKS | AC10-BL-BLOCK4 | DOWN GRADIENT OF SMELTING OPERATIONS | AC10 | 70 | 21 | ppm |
| 16 | 02/01/11 | CONCRETE BLOCKS | BLOCK20 | DOWN GRADIENT OF SMELTING OPERATIONS | AB10 | 390 | 52 | ppm |
| 17 | 02/01/11 | CONCRETE BLOCKS | AEG-PILE1 | DOWN GRADIENT OF SMELTING OPERATIONS | AE6 | 9,439 | 163 | ppm |
| 18 | 02/01/11 | CONCRETE BLOCKS | AC3-PILE1 | DOWN GRADIENT OF SMELTING OPERATIONS | AC3 | 2,453 | 75 | ppm |
| 21 | 02/03/11 | CONCRETE BLOCKS | BLOCK PILE1 | DOWN GRADIENT OF SMELTING OPERATIONS | AB9 | 3,849 | 157 | ppm |
| 22 | 02/03/11 | CONCRETE BLOCKS | BLOCK PILE1-2 | TOP RIGHT CORNER | AB9 | 6,242 | 230 | ppm |
| 23 | 02/03/11 | CONCRETE BLOCKS | BLOCK PILE1-3 | TOP LEFT CORNER | AB9 | 312 | 33 | ppm |
| 24 | 02/03/11 | CONCRETE BLOCKS | BLOCK PILE1-4 | BOTTOM RIGHT CORNER | AB9 | 983 | 94 | ppm |
| 25 | 02/03/11 | CONCRETE BLOCKS | BLOCK PILE2-1 | TOP LEFT CORNER | AB10 | 666 | 74 | ppm |
| 26 | 02/03/11 | CONCRETE BLOCKS | BLOCK PILE2-2 | BOTTOM RIGHT CORNER | AB10 | 1,068 | 97 | ppm |
| 27 | 02/03/11 | CONCRETE BLOCKS | BLOCK PILE2-3 | BOTTOM LEFT CORNER | AB10 | 1,337 | 96 | ppm |
| 28 | 02/03/11 | CONCRETE BLOCKS | BLOCK PILE2-4 | BOTTOM LEFT CORNER | AB10 | 1,923 | 116 | ppm |
| 29 | 02/03/11 | CONCRETE BLOCKS | BLOCK PILE3-1 | TOP RIGHT CORNER | AC10 | 488 | 60 | ppm |
| 30 | 02/03/11 | CONCRETE BLOCKS | BLOCK PILE3-2 | TOP LEFT CORNER | AC10 | 268 | 50 | ppm |
| 31 | 02/03/11 | CONCRETE BLOCKS | BLOCK PILE3-3 | BOTTOM RIGHT CORNER | AC10 | 443 | 60 | ppm |
| 32 | 02/03/11 | CONCRETE BLOCKS | BLOCK PILE3-4 | BOTTOM LEFT CORNER | AC10 | 800 | 73 | ppm |
| 33 | 02/03/11 | CONCRETE BLOCKS | BLOCK PILE4-1 | TOP RIGHT CORNER | AC11 | 74 | 32 | ppm |
| 34 | 02/03/11 | CONCRETE | CONCRETE CURBING | TOP RIGHT CORNER | AB11 | 4,785 | 176 | ppm |
| 35 | 02/03/11 | CONCRETE | CONCRETE CURBING | TOP RIGHT CORNER | AC11 | 5,157 | 176 | ppm |
| 36 | 02/03/11 | CONCRETE | CONCRETE CURBING-2 | TOP LEFT CORNER | AC11 | 1,099 | 90 | ppm |
| 37 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS | TOP LEFT CORNER | AC11 | 144 | 37 | ppm |
| 38 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS2 | TOP R CNR | AD10 | 269 | 41 | ppm |
| 39 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS3 | BOTTOM RIGHT CORNER | AD10 | 2,499 | 104 | ppm |

**WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA**

XRF SCREENING RESULTS OF MISCELLANEOUS ITEMS

| Reading No | Time | Type | Sample | Location | Grid Locations | Pb | %r Error | Units |
|------------|----------|-----------------|-----------------------|---------------------|----------------|-------|----------|-------|
| 40 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS5-4 | BOTTOM LEFT CORNER | AD10 | 2,055 | 108 | ppm |
| 41 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS ON HILL | Y-1 | Y1 | 1,812 | 89 | ppm |
| 42 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS ON HILL | Y-2 | Y1 | 112 | 35 | ppm |
| 43 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS ON HILL | Y-3 | Y1 | 2,519 | 170 | ppm |
| 44 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS ON HILL | Y-4 | Y1 | 94 | 41 | ppm |
| 45 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 6 | BOTTOM CORNER | Y1 | 1,229 | 87 | ppm |
| 46 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 7 | BOTTOM CORNER | AD10 | 608 | 63 | ppm |
| 47 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 8 | BOTTOM CORNER | AD10 | 2,679 | 143 | ppm |
| 48 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 9 | BOTTOM CORNER | AD10 | 482 | 70 | ppm |
| 49 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 10 | BOTTOM CORNER | AD11 | 1,031 | 89 | ppm |
| 50 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 10-2 | BOTTOM CORNER | AD11 | 1,385 | 101 | ppm |
| 51 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 11 | BOTTOM CORNER | AD11 | 285 | 49 | ppm |
| 52 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 11-2 | BOTTOM CORNER | AD11 | 113 | 33 | ppm |
| 53 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 12-1 | BOTTOM CORNER | AD11 | 188 | 37 | ppm |
| 54 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 13-1 | BOTTOM CORNER | AC12 | 110 | 31 | ppm |
| 55 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 14 | BOTTOM CORNER | AC12 | 143 | 35 | ppm |
| 56 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 15 | BOTTOM CORNER | AC12 | 3,52 | 66 | ppm |
| 57 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 16 | BOTTOM CORNER | AC12 | 1,204 | 92 | ppm |
| 58 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 17 | BOTTOM CORNER | AB12 | 1,265 | 88 | ppm |
| 59 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 17-1 | BOTTOM CORNER | AB12 | 138 | 31 | ppm |
| 60 | 02/03/11 | CONCRETE BLOCKS | CINDER BLOCKS 17-2 | BOTTOM CORNER | AB12 | 6,537 | 170 | ppm |
| 61 | 02/03/11 | CONCRETE BLOCKS | BLOCKS -17 | TOP LEFT CORNER | AB12 | 299 | 57 | ppm |
| 62 | 02/03/11 | CONCRETE BLOCKS | BLOCKS -18-2 | BOTTOM RIGHT CORNER | AB12 | 118 | 48 | ppm |
| 63 | 02/03/11 | CONCRETE BLOCKS | BLOCKS -19 | TOP LEFT CORNER | AB12 | 32 | 32 | ppm |
| 64 | 02/03/11 | CONCRETE BLOCKS | BLOCKS -20 | TOP LEFT CORNER | AB12 | 1,675 | 87 | ppm |
| 65 | 02/03/11 | CONCRETE BLOCKS | BLOCKS -20 | BOTTOM RIGHT CORNER | AA11 | 421 | 63 | ppm |
| 68 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 21 | TOP LEFT CORNER | AA11 | 594 | 96 | ppm |
| 69 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 21 | BOTTOM RIGHT CORNER | AA11 | 228 | 57 | ppm |
| 75 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 22 | TOP | AA11 | 1,210 | 96 | ppm |
| 76 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 23 | TOP | AA11 | 906 | 91 | ppm |
| 77 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 24 | TOP | AA11 | 616 | 71 | ppm |
| 78 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 24 | BOTTOM | AA11 | 184 | 50 | ppm |
| 79 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 26 | TOP | AA10 | 235 | 51 | ppm |

**WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA**

XRF SCREENING RESULTS OF MISCELLANEOUS ITEMS

| Reading No | Time | Type | SAMPLE | LOCATION | GRID LOCATIONS | | Pb | +/- Error | Units |
|-----------------|----------|-----------------|--------------------------------|-------------------------------------|----------------|--------|-------|-----------|-------|
| | | | | | TOP | AA10 | | | |
| 80 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 27 | TOP | AA10 | 157 | 55 | ppm | ppm |
| 81 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 28 | TOP | AA10 | 630 | 81 | ppm | ppm |
| 82 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 29 | BOTTOM | AA10 | 1,305 | 123 | ppm | ppm |
| 83 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 29 | TOP | AA10 | 968 | 99 | ppm | ppm |
| 84 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 30 | TOP | AA10 | 219 | 48 | ppm | ppm |
| 85 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 31 | TOP | AA10 | 161 | 51 | ppm | ppm |
| 86 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 31 | BOTTOM | AA10 | 780 | 91 | ppm | ppm |
| 87 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 32 | TOP | AB11 | 432 | 64 | ppm | ppm |
| 88 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 33 | TOP | AB11 | 704 | 108 | ppm | ppm |
| 89 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 34 | TOP | AB11 | 477 | 47 | ppm | ppm |
| 90 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 34 | BOTTOM | AB11 | 916 | 91 | ppm | ppm |
| 91 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 35 | TOP | AB11 | 77 | 25 | ppm | ppm |
| 92 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 36 | TOP | AC12 | 1,104 | 104 | ppm | ppm |
| 93 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 37 | TOP | AC12 | 346 | 57 | ppm | ppm |
| 94 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 38 | TOP | AC12 | 125 | 36 | ppm | ppm |
| 95 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 39 | TOP | AC12 | 612 | 86 | ppm | ppm |
| 96 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 40 | TOP | AC12 | 5,689 | 243 | ppm | ppm |
| 97 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 41 | TOP | AA9 | 190 | 42 | ppm | ppm |
| 98 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 42 | TOP | AA9 | 3,27 | 50 | ppm | ppm |
| 99 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 43 | TOP | AA9 | 1,706 | 99 | ppm | ppm |
| 100 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 44 | TOP | AA9 | 589 | 68 | ppm | ppm |
| 101 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 45 | TOP | AA9 | 167 | 40 | ppm | ppm |
| 102 | 02/03/11 | CONCRETE BLOCKS | BLOCKS 47 | TOP | AA9 | 167 | 40 | ppm | ppm |
| VEHICLES | | | | | | | | | |
| 1 | 02/08/11 | VEHICLES | ISUZU PUP - CREAM - 1 | UP-GRADIENT OF THE SMETLER BUILDING | Y1 | 7,664 | 560 | ppm | ppm |
| 2 | 02/08/11 | VEHICLES | ISUZU PUP - CREAM - 2 | UP-GRADIENT OF THE SMETLER BUILDING | Y1 | 13,659 | 687 | ppm | ppm |
| 3 | 02/08/11 | VEHICLES | ISUZU PUP - BLACK | UP-GRADIENT OF THE SMETLER BUILDING | Y1 | 14,184 | 712 | ppm | ppm |
| 4 | 02/08/11 | VEHICLES | ISUZU PUP - BLACK | UP-GRADIENT OF THE SMETLER BUILDING | Y1 | 10,102 | 499 | ppm | ppm |
| 5 | 02/08/11 | VEHICLES | DODGE RAM 2500 - BLACK - RED | UP-GRADIENT OF THE SMETLER BUILDING | Z1 | 3,331 | 247 | ppm | ppm |
| 6 | 02/08/11 | VEHICLES | DODGE RAM 2500 - BLACK - RED 2 | UP-GRADIENT OF THE SMETLER BUILDING | Z1 | 696 | 109 | ppm | ppm |
| 7 | 02/08/11 | VEHICLES | CHEVY 10 - BLUE | UP-GRADIENT OF THE SMETLER BUILDING | Z1 | 7,258 | 448 | ppm | ppm |
| 8 | 02/08/11 | VEHICLES | CHEVY 10 - BLUE | UP-GRADIENT OF THE SMETLER BUILDING | Z1 | 15,816 | 757 | ppm | ppm |
| 9 | 02/09/11 | VEHICLES | 2001 DODGE TEST | TEST | Y1 | < LOD | 40 | ppm | ppm |
| 10 | 02/09/11 | VEHICLES | 2001 DODGE TEST - DIRTY SPOT | TEST - DIRTY SPOT | Y1 | 37 | ppm | ppm | ppm |
| 11 | 02/09/11 | VEHICLES | ISUZU PUP - CREAM | CLEAN SPOT | Y1 | 5,704 | 632 | ppm | ppm |
| 13 | 02/09/11 | VEHICLES | ISUZU PUP - CREAM | CLEAN SPOT2 | Y1 | 5,814 | 649 | ppm | ppm |
| 14 | 02/09/11 | VEHICLES | ISUZU PUP - CREAM | SEAT | Y1 | 400 | 73 | ppm | ppm |
| 15 | 02/09/11 | VEHICLES | DODGE RAM 2500 - BLACK - RED | SEAT | Z1 | 487 | 79 | ppm | ppm |
| 16 | 02/08/11 | VEHICLES | TRUCK - MACK | UP-GRADIENT OF THE SMETLER BUILDING | AD1 | 17,769 | 1,009 | ppm | ppm |

**WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA**

XRF SCREENING RESULTS OF MISCELLANEOUS ITEMS

| Reading No | Time | Type | Sample | Location | GRID LOCATIONS | Pb | +/- Error | Units |
|------------------|----------|-----------|--------------------------------------|--|----------------|------------|-----------|-------|
| EQUIPMENT | | | | | | | | |
| 1 | 02/03/11 | EQUIPMENT | TRACTER - 1 | EAST OF THE PROPERTY | AD11 | 8,839 | 161 | ppm |
| 2 | 02/03/11 | EQUIPMENT | TRACTER - 2 | EAST OF THE PROPERTY | AD11 | 11,465 | 221 | ppm |
| 3 | 02/03/11 | EQUIPMENT | SNAPPER TRAILER - 1 | EAST OF THE PROPERTY | AE10 | < LOD | 39 | ppm |
| 4 | 02/03/11 | EQUIPMENT | SNAPPER TRAILER TIRES - 1 | EAST OF THE PROPERTY | AE10 | 628 | 35 | ppm |
| 5 | 02/03/11 | EQUIPMENT | SNAPPER TRAILER TIRES - 2 | EAST OF THE PROPERTY | AE10 | 689 | 42 | ppm |
| 6 | 02/08/11 | EQUIPMENT | TRACTOR TIRES | BEHIND VEHICLES UP-GRADIENT OF THE SMEETLER BUILDING | Z1 | 840 | 31 | ppm |
| 7 | 02/08/11 | EQUIPMENT | FORKLIFT (J&H RENTAL) | UP-GRADIENT OF THE SMEETLER BUILDING | AA1 | 2,971 | 270 | ppm |
| 8 | 02/08/11 | EQUIPMENT | FORKLIFT (AMERICAN EQUIP CO.) | UP-GRADIENT OF THE SMEETLER BUILDING | AA1 | 83,886 | 1,981 | ppm |
| 9 | 02/08/11 | EQUIPMENT | FORKLIFT (PETTIBONE/B66) | UP-GRADIENT OF THE SMEETLER BUILDING | AA1 | 377,332 | 4,365 | ppm |
| 10 | 02/08/11 | EQUIPMENT | FORD BOOM TRUCK (WHITE - J&H RENTAL) | UP-GRADIENT OF THE SMEETLER BUILDING | AB1 | 355 | 39 | ppm |
| 11 | 02/08/11 | EQUIPMENT | TRACTOR (CASE AGRIC KING) | UP-GRADIENT OF THE SMEETLER BUILDING | AB1 | 64,338 | 1,618 | ppm |
| 12 | 02/08/11 | EQUIPMENT | TRACTOR (ALLIS-CHALMERS) | UP-GRADIENT OF THE SMEETLER BUILDING | AB5 | 12,238,386 | 113,325 | ppm |
| 13 | 02/09/11 | EQUIPMENT | TAG ALONG CRANE | UP-GRADIENT OF THE SMEETLER BUILDING | AC5 | 6,344 | 521 | ppm |
| 14 | 02/09/11 | EQUIPMENT | MINER - 1 | UP-GRADIENT OF THE SMEETLER BUILDING | AC5 | 90,942 | 2,985 | ppm |
| 15 | 02/09/11 | EQUIPMENT | MINER - 2 | UP-GRADIENT OF THE SMEETLER BUILDING | AC5 | 25,436 | 1,247 | ppm |
| 16 | 02/09/11 | EQUIPMENT | MINER - 3 | UP-GRADIENT OF THE SMEETLER BUILDING | AA6 | 118,114 | 2,513 | ppm |
| 17 | 02/09/11 | EQUIPMENT | SEMI TRAILER | BEHIND SMEETLER BUILDING | AA6 | 965,643 | 11,602 | ppm |
| 18 | 02/09/11 | EQUIPMENT | CARGO BOX | BEHIND SMEETLER BUILDING | AA6 | 278,483 | 4,704 | ppm |
| 19 | 02/09/11 | EQUIPMENT | DOZER | BEHIND SMEETLER BUILDING | Z6 | 31,500 | 1,729 | ppm |
| 20 | 02/09/11 | EQUIPMENT | BOAT TRAILER | BEHIND SMEETLER BUILDING | Z5 | 8,839 | 185 | ppm |
| 21 | 02/09/11 | EQUIPMENT | GOOSE NECK TRAILER | BEHIND SMEETLER BUILDING | Z4 | 102,124 | 3,130 | ppm |
| 22 | 02/09/11 | EQUIPMENT | SEMI-TRUCK | BEHIND SMEETLER BUILDING | Z6 | 23 | 14 | ppm |
| 23 | 02/09/11 | EQUIPMENT | TRAILER | BEHIND SMEETLER BUILDING | Y4 | 2,371 | 81 | ppm |
| 24 | 02/09/11 | EQUIPMENT | BOAT | BEHIND SMEETLER BUILDING | X4 | 1,007 | 68 | ppm |
| 25 | 02/09/11 | EQUIPMENT | STEEL BOX | BEHIND SMEETLER BUILDING | Z4 | 56,262 | 2,040 | ppm |
| 26 | 02/09/11 | EQUIPMENT | TRACKHOE - TRACKS | BEHIND SMEETLER BUILDING | Z4 | 2,478 | 119 | ppm |
| 27 | 02/10/11 | EQUIPMENT | TRACKHOE - BODY | BEHIND SMEETLER BUILDING | Z1 | 15,762 | 403 | ppm |
| METAL | | | | | | | | |
| 1 | 02/08/11 | METAL | SCRAP IRON | UP-GRADIENT OF THE SMEETLER BUILDING | AB3 | 6,695 | 484 | ppm |
| 2 | 02/09/11 | METAL | SCRAP IRON - 1 | UP-GRADIENT OF THE SMEETLER BUILDING | AB3 | 14,039 | 694 | ppm |
| 3 | 02/09/11 | METAL | SCRAP IRON - 2 | UP-GRADIENT OF THE SMEETLER BUILDING | AB3 | 10,208 | 5,884 | ppm |
| 4 | 02/09/11 | METAL | SCRAP IRON - 2 | UP-GRADIENT OF THE SMEETLER BUILDING | AB4 | 29,483 | 1,410 | ppm |
| 5 | 02/09/11 | METAL | SCRAP IRON - 3 | UP-GRADIENT OF THE SMEETLER BUILDING | AB4 | 6,992 | 1,160 | ppm |
| 6 | 02/09/11 | METAL | SCRAP IRON - 4 | UP-GRADIENT OF THE SMEETLER BUILDING | AB4 | 26,771 | 1,176 | ppm |
| 7 | 02/09/11 | METAL | SCRAP IRON - 5 | UP-GRADIENT OF THE SMEETLER BUILDING | AB3 | 4,118 | 542 | ppm |
| 8 | 02/09/11 | METAL | METAL HOPPER | UP-GRADIENT OF THE SMEETLER BUILDING | AB3 | 9,802 | 925 | ppm |
| 9 | 02/09/11 | METAL | METAL TANK | UP-GRADIENT OF THE SMEETLER BUILDING | AB3 | 272 | 135 | ppm |
| 10 | 02/09/11 | METAL | STEEL FRAME | UP-GRADIENT OF THE SMEETLER BUILDING | AF9 | 23,506 | 1,389 | ppm |

WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
XRF SCREENING RESULTS OF MISCELLANEOUS ITEMS

| Reading No | Time | Type | Sample | Location | Grid Locations | Pb | +/- Error | Units |
|---------------|----------|--------|------------------|---|----------------|---------|-----------|-------|
| DEBRIS | | | | | | | | |
| 1 | 02/03/11 | DEBRIS | KILN PILE - 1 | SOUTHEAST OF THE PROPERTY | AF11 | 301.889 | 3.758 | ppm |
| 2 | 02/03/11 | DEBRIS | KILN PILE - 2 | SOUTHEAST OF THE PROPERTY | Y4 | 30.091 | 523 | ppm |
| TANK | | | | | | | | |
| 1 | 02/09/11 | TANK | HEATING OIL TANK | UP-GRADIENT OF THE SMETLER BUILDING | AA8 | 5.963 | 467 | ppm |
| DRUM | | | | | | | | |
| 1 | 02/03/11 | STEEL | DRUM | LOCATED INSIDE SMETLER BUILDING | Y2 | 999.689 | 9.936 | ppm |
| WOOD | | | | | | | | |
| 1 | 02/08/11 | WOOD | WOODEN PALLETS | BEHIND VEHICLES UP-GRADIENT OF THE SMETLER BUILDING | Y1 | 28 | 11 | ppm |

NOTES

Pb = Lead

ppm = parts per million

Results that are shaded are above the USEPA Removal Action Level for lead (400 ppm).

TABLE I
WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
SUMMARY OF THE LABORATORY RESULTS FOR THE SOIL SAMPLING LOCATIONS
FEBRUARY 13, 2011

| Sample Identification | Sample Depth (ft/gs) | Region 4 RSL (Residential Soil) | Region 4 RSL (Industrial Soil) | Smelting Building Floor Sample | | FP01-AA10 (0-6) Surface 2/3/2011 | AA10-100 0.5 2/1/2011 | FP02-AB10 (0-6) 0.5 2/1/2011 |
|-----------------------|----------------------|------------------------------------|-----------------------------------|--------------------------------|--------------|--|-----------------------------|------------------------------------|
| | | | | Surface | 0.5 | | | |
| Sample Type | | | | Surface Soil | Surface Soil | | | |
| Metals, Total (mg/kg) | | | | Field Sample | Field Sample | Duplicate Sample | Duplicate Sample | Field Sample |
| Aluminum | 77000 | 990000 | 18.7 | B | 14900 | NA | NA | NA |
| Antimony | 31 | 410 | 14500 | | | 25.2 | | |
| Arsenic | 0.39 | 1.60 | 2200 | | | 16 | NA | NA |
| Barium | 15000 | 190000 | 7.98 | | | 64.8 | NA | NA |
| Beryllium | 160 | 2000 | 0.027 | U | | 0.37 | NA | NA |
| Cadmium | 70 | 800 | 0.097 | U | | 0.38 | NA | NA |
| Calcium | NL | NL | 81 | B | | 3150 | NA | NA |
| Chromium | 120000 | 1500000 | 0.12 | U | | 25.5 | NA | NA |
| Cobalt | 23 | 300 | 0.22 | U | | 6.28 | NA | NA |
| Copper | 3100 | 41000 | 23100 | | | 199 | NA | NA |
| Iron | 53000 | 720000 | 541 | | | 13800 | NA | NA |
| Lead | 400 | 1200 | 72300 | | | 5160 | 2570 | 6830 |
| Magnesium | NL | NL | 23.9 | | | 860 | NA | NA |
| Manganese | 1800 | 23000 | 7.19 | | | 721 | NA | NA |
| Nickel | 1500 | 20000 | 8.19 | | | 6.12 | NA | NA |
| Potassium | NL | NL | 18.1 | U | | 492 | NA | NA |
| Selenium | 390 | 5100 | 4.01 | | | 0.22 | U | NA |
| Silver | 390 | 5100 | 32.1 | | | 0.041 | U | NA |
| Sodium | NL | NL | 34.8 | U | | 26.2 | B | NA |
| Thallium | NL | NL | 1.36 | | | 0.4 | B | NA |
| Vanadium | 390 | 5200 | 0.49 | U | | 39.7 | NA | NA |
| Zinc | 23000 | 310000 | 210 | | | 79.3 | NA | NA |
| Mercury | 5.6 | 34 | 0.0034 | U | 0.031 | NA | NA | NA |

Notes:

FP - Fair Play

RSL - Regional Screening Level

bold - Concentration exceeds the RSL for residential/industrial soil.

U - Analyte was not detected above the associated value.

B - Analyte was found in the method blank sample.

mg/kg - Milligrams per kilogram
 ft/gs - Feet below ground surface

NL - Not listed

NA - Not analyzed

TABLE 1
WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
SUMMARY OF THE LABORATORY RESULTS FOR THE SOIL SAMPLING LOCATIONS
FEBRUARY 13, 2011

| Sample Identification | Region 4 RSL (Residential Soil) | Region 4 RSL (Industrial Soil) | FP03-AB11 (0-6) | FP04-AC11 (0-6) | FP05-AC10 (0-6) | FP06-AA9 (0-6) | AA9-101 |
|----------------------------------|------------------------------------|-----------------------------------|-----------------|-----------------|-----------------|----------------|------------------|
| Sample Depth (ft _{ss}) | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Collection Date | | | 2/1/2011 | 2/2/2011 | 2/1/2011 | 2/1/2011 | 2/1/2011 |
| Matrix | | | Surface Soil | Surface Soil | Surface Soil | Surface Soil | Surface Soil |
| Sample Type | | | Field Sample | Field Sample | Field Sample | Field Sample | Duplicate Sample |
| Metals, Total (mg/kg) | | | | | | | |
| Aluminum | 77000 | 990000 | 16600 | NA | NA | 6280 | 5290 |
| Antimony | 31 | 410 | 7.88 | NA | NA | 629 | 883 |
| Arsenic | 0.39 | 1.60 | 7.0 | NA | NA | 72.4 | 91.8 |
| Barium | 15000 | 190000 | 68.7 | NA | NA | 70.6 | 49.4 |
| Beryllium | 160 | 2000 | 0.42 | NA | NA | 0.049 | B |
| Cadmium | 70 | 800 | 0.33 | NA | NA | 0.63 | 0.13 |
| Calcium | NL | NL | 1720 | NA | NA | 1280 | 1200 |
| Chromium | 120000 | 1500000 | 22.5 | NA | NA | 12 | 11.5 |
| Cobalt | 23 | 300 | 8.08 | NA | NA | 3.07 | 2.83 |
| Copper | 3100 | 41000 | 95.7 | NA | NA | 2980 | 10500 |
| Iron | 55000 | 720000 | 15500 | NA | NA | 6460 | 7070 |
| Lead | 400 | 1200 | 1540 | 2120 | 1840 | 33200 | 28800 |
| Magnesium | NL | NL | 531 | NA | NA | 423 | 315 |
| Manganese | 1800 | 23000 | 873 | NA | NA | 302 | 340 |
| Nickel | 1500 | 20000 | 5.68 | NA | NA | 3.62 | 4.43 |
| Potassium | NL | NL | 644 | NA | NA | 336 | 246 |
| Selenium | 390 | 5100 | 0.23 | U | NA | 0.35 | B |
| Silver | 390 | 5100 | 0.042 | U | NA | 1.87 | 2.04 |
| Sodium | NL | NL | 16.2 | B | NA | 25.6 | B |
| Thallium | NL | NL | 0.26 | B | NA | 0.11 | U |
| Vanadium | 390 | 5200 | 46 | NA | NA | 17 | 19.5 |
| Zinc | 23000 | 310000 | 56.5 | NA | NA | 85.2 | 331 |
| Mercury | 5.6 | 34 | 0.047 | NA | NA | 0.039 | 0.014 |

Notes:

FP - Fair Play

RSL - Regional Screening Level

bold - Concentration exceeds the RSL for residential/industrial soil.

U - Analyte was not detected above the associated value.

B - Analyte was found in the method blank sample.

TABLE 1
WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
SUMMARY OF THE LABORATORY RESULTS FOR THE SOIL SAMPLING LOCATIONS
FEBRUARY 13, 2011

| Sample Identification | Region 4 RSL (Residential Soil) | Region 4 RSL (Industrial Soil) | FP07-AB9 (0-6) 2/1/2011 | FP08-Z7 (0-6) 2/1/2011 | FP09-AB7 (0-6) 2/1/2011 | FP10-AE9 (0-6) 2/3/2011 | FP11-AE10 (0-6) 2/3/2011 |
|----------------------------------|------------------------------------|-----------------------------------|----------------------------|---------------------------|----------------------------|----------------------------|-----------------------------|
| Sample Depth (ft _{BS}) | | | Surface Soil | Surface Soil | Surface Soil | Surface Soil | Surface Soil |
| Collection Date | | | Field Sample | Field Sample | Field Sample | Field Sample | Field Sample |
| Matrix | | | Field Sample | Field Sample | Field Sample | Field Sample | Field Sample |
| Metals, Total (mg/kg) | | | | | | | |
| Aluminum | 77000 | 990000 | NA | 11200 | NA | 12100 | NA |
| Antimony | 31 | 410 | NA | 1280 | NA | 8.54 | NA |
| Arsenic | 0.39 | 1.60 | NA | 67.1 | NA | 4.7 | NA |
| Barium | 15000 | 190000 | NA | 66.3 | NA | 35.7 | NA |
| Beryllium | 160 | 2000 | NA | 0.36 | NA | 0.25 | NA |
| Cadmium | 70 | 800 | NA | 0.33 | NA | 0.11 | B |
| Calcium | NL | NL | NA | 25500 | NA | 345 | NA |
| Chromium | 120000 | 1500000 | NA | 14.4 | NA | 19.4 | NA |
| Cobalt | 23 | 300 | NA | 2.73 | NA | 3.2 | NA |
| Copper | 3100 | 41000 | NA | 1740 | NA | 46.9 | NA |
| Iron | 55000 | 720000 | NA | 14800 | NA | 12100 | NA |
| Lead | 400 | 1200 | 16800 | 45400 | 65000 | 2090 | 89.6 |
| Magnesium | NL | NL | NA | 1390 | NA | 170 | NA |
| Manganese | 1800 | 23000 | NA | 364 | NA | 362 | NA |
| Nickel | 1500 | 20000 | NA | 10.5 | NA | 3.18 | NA |
| Potassium | NL | NL | NA | 999 | NA | 189 | NA |
| Selenium | 390 | 5100 | NA | 1.3 | B | 0.23 | U |
| Silver | 390 | 5100 | NA | 4.59 | NA | 0.041 | U |
| Sodium | NL | NL | NA | 164 | NA | 4.83 | NA |
| Thallium | NL | NL | NA | 3.06 | NA | 0.23 | B |
| Vanadium | 390 | 5200 | NA | 21 | NA | 30.6 | NA |
| Zinc | 23000 | 310000 | NA | 177 | NA | 27.9 | NA |
| Mercury | 5.6 | 34 | NA | 0.032 | NA | 0.02 | NA |

Notes:

FP - Fair Play

RSL - Regional Screening Level

bold - Concentration exceeds the RSL for residential/industrial soil.

U - Analyte was not detected above the associated value.

B - Analyte was found in the method blank sample.

TABLE 1
WELCH GROUP ENVIRONMENTAL
REMOVAL SITE INVESTIGATION
FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA
SUMMARY OF THE LABORATORY RESULTS FOR THE SOIL SAMPLING LOCATIONS
FEBRUARY 13, 2011

| Sample Identification | Region 4 RSL (Residential Soil) | Region 4 RSL (Industrial Soil) | Isuzu Pup (Door Panel) Cream Upgradient of Smelting Building 2/17/2011 | Isuzu Pup (Cream) - Hood Upgradient of Smelting Building 2/17/2011 | Chevy - Blue/White Upgradient of Smelting Building 2/17/2011 |
|------------------------------|------------------------------------|-----------------------------------|--|--|--|
| Sample Depth (ft/qs) | | | Paint Samples | Paint Samples | Paint Samples |
| Collection Date | | | | | |
| Matrix | | | | | |
| Sample Type | | | Field Sample | Field Sample | Field Sample |
| Metals, Total (mg/kg) | | | | | |
| Aluminum | 77000 | 990000 | NA | NA | NA |
| Antimony | 31 | 410 | NA | NA | NA |
| Arsenic | 0.39 | 1.60 | NA | NA | NA |
| Barium | 15000 | 190000 | NA | NA | NA |
| Beryllium | 160 | 2000 | NA | NA | NA |
| Cadmium | 70 | 800 | NA | NA | NA |
| Calcium | NL | NL | NA | NA | NA |
| Chromium | 120000 | 1500000 | NA | NA | NA |
| Cobalt | 23 | 300 | NA | NA | NA |
| Copper | 3100 | 41000 | NA | NA | NA |
| Iron | 55000 | 720000 | NA | NA | NA |
| Lead | 400 | 1200 | 1470 | | 5610 |
| Magnesium | NL | NL | NA | NA | NA |
| Manganese | 1800 | 23000 | NA | NA | NA |
| Nickel | 1500 | 20000 | NA | NA | NA |
| Potassium | NL | NL | NA | NA | NA |
| Selenium | 390 | 5100 | NA | NA | NA |
| Silver | 390 | 5100 | NA | NA | NA |
| Sodium | NL | NL | NA | NA | NA |
| Thallium | NL | NL | NA | NA | NA |
| Vanadium | 390 | 5200 | NA | NA | NA |
| Zinc | 23000 | 310000 | NA | NA | NA |
| Mercury | 5.6 | 34 | NA | NA | NA |

Notes:

FP - Fair Play
RSL - Regional Screening Level

bold - Concentration exceeds the RSL for residential/industrial soil.

U - Analyte was not detected above the associated value.

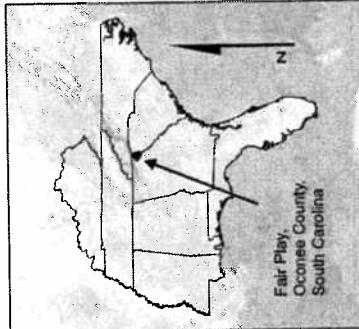
B - Analyte was found in the method blank sample.

ATTACHMENT C
Figures

Legend

Site Location

0
1,500
3,000
Feet

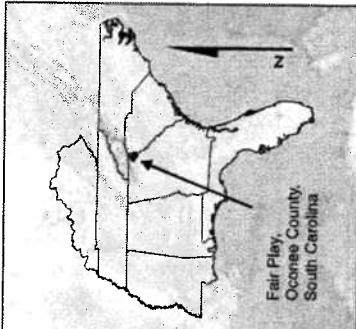


EGIS Works Welch Environmental Mapping Enterprise 1306 Mapping Enterprise 1310
WELCH GROUP ENVIRONMENTAL, FAIR PLAY, OCONEE COUNTY, SOUTH CAROLINA, TDD NO. TNA-05-003-0122
FIGURE 1
TOPOGRAPHICAL MAP
United States Environmental Protection Agency
OCT 1995



Legend

Site Location



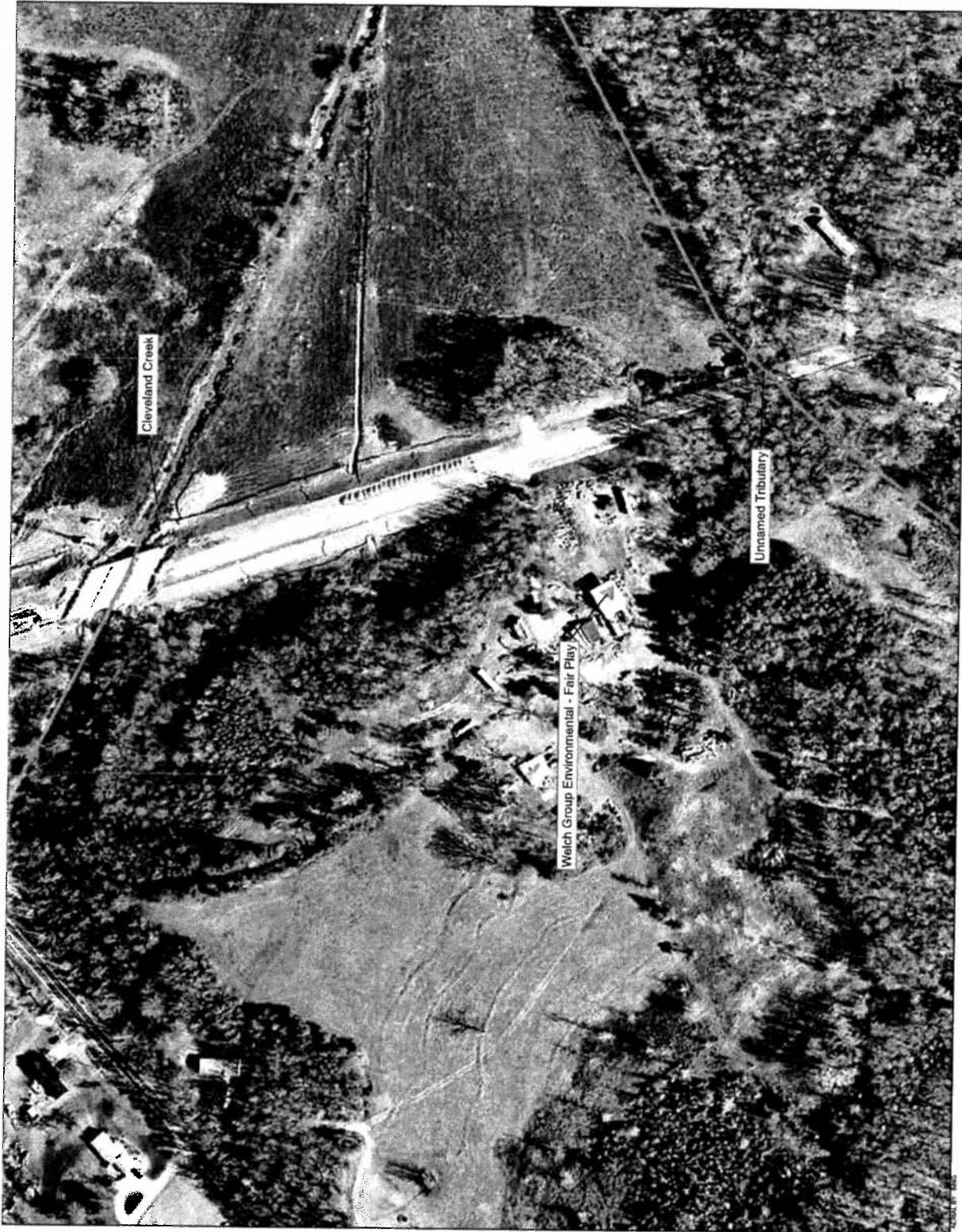
WELCH GROUP ENVIRONMENTAL
FAIR PLAY,
OCONEE COUNTY,
SOUTH CAROLINA
TDD NO. TNA-05-003-0122

FIGURE 2
AERIAL MAP

U.S. Environmental Protection Agency

WELCH GROUP ENVIRONMENTAL 13061Mappngfapby 1310

TYTIF

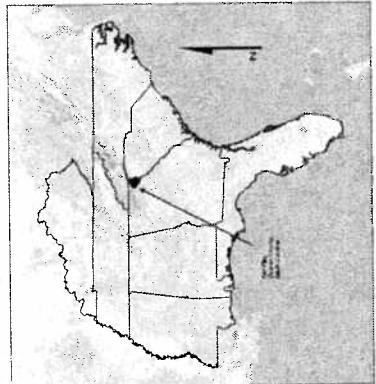
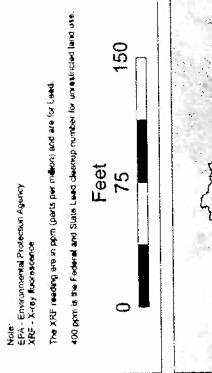


Legend

Welch - Fair Play Parcel

Sample Grid

- Below 400 ppm (EPA)
- Above 400 ppm (EPA)



WELCH GROUP ENVIRONMENTAL
FAIR PLAY,
OCONEE COUNTY,
SOUTH CAROLINA
TDD NO. TNA-05-003-0122

FIGURE 3
SURFACE SOIL
XRF RESULTS MAP



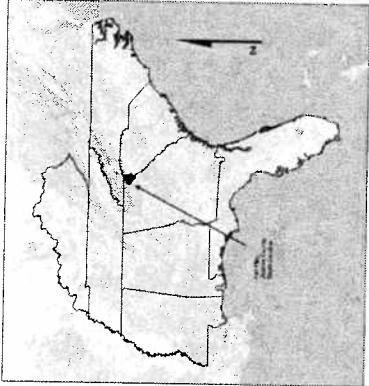
United States Environmental Protection Agency

Legend

- Welch - Fair Play Parcel
- Sample Grid
 - Below 400 ppm (EPA)
 - Above 400 ppm (EPA)

Note: XRF = X-ray fluorescence
The XRF reading are in ppm (parts per million) and are for lead.
400 ppm is the Federal and State lead cleanup number for unrestricted land use.

0 75 150
Feet



WELCH GROUP ENVIRONMENTAL

FAIR PLAY,

OCONEE COUNTY,

SOUTH CAROLINA

TDD NO. TNA-05-003-0122

FIGURE 4
MISCELLANEOUS DEBRIS
AND EQUIPMENT XRF
RESULTS MAP



United States Environmental Protection Agency



ATTACHMENT D
Laboratory Report



**NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482**

ANALYTICAL RESULTS

PERFORMED BY

**GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820**

Report Date 02/17/2011

GCAL Report 211020809



Deliver To OTIE
1220 Kennestone Circle
Suite 106
Marietta, GA 30066
678-355-5550

Attn Jerry Partap

Project Feltman Farm

CASE NARRATIVE

Client: OTIE **Report:** 211020809

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

METALS

In the SW-846 6010C analysis, sample 21102080901 (SMELTING BUILDING FLOOR SAMPLE) had to be diluted in order to bracket the concentration of target analytes within the linear dynamic range of the instrument and to eliminate a chemical or physical interference. The dilution is reflected in elevated detection limits.

In the SW-846 6010C analysis, samples 21102080904 (FP06-AA9 (0-6)), 21102080905 (AA9-101) and 21102080906 (FP08-Z7 (0-6)) had to be diluted in order to bracket the concentration within the calibration range of the instrument.

In the SW-846 6010C analysis, a chemical or physical interference necessitated a dilution for samples 21102080918 (FP07-AB9 (0-6)) and 21102080919 (FP09-AB7 (0-6)). This is reflected in the elevated reporting limits.

In the SW-846 6010C analysis for prep batch 450304, the MS recovery and post-digestion spike recovery is not applicable for Lead because the sample concentration is greater than four times the spike concentration. The Sample/Duplicate RPD for Lead is above the control limit. The heterogeneous nature of the QC sample is believed to be responsible for this. Lead is flagged E, estimated on the serial dilution form due to the fact that the % difference between the original result and the serial dilution result for the batch QC sample is greater than 10.

In the SW-846 6010C analysis for prep batch 450773, the MS and/or MSD recoveries are outside the control limits for Arsenic, Barium, Magnesium, Potassium, Selenium, and Zinc. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference or the element is non-homogeneous in the sample matrix. A post-digestion spike was performed on the QC sample for this batch with recoveries of 83% for Arsenic, 61% for Barium, 81% for Magnesium, 78% for Potassium, 90% for Selenium, and 79% for Zinc. The MS/MSD recoveries and post-digestion spike recoveries are not applicable for Aluminum, Antimony, Calcium, Copper, Iron, Lead, and Manganese because the sample concentration is greater than four times the spike concentration. Aluminum, Copper, Iron, Manganese, Potassium, Silver, and Zinc are flagged E, estimated on the serial dilution form due to the fact that the % difference between the original result and the serial dilution result for the batch QC sample is greater than 10.

In the SW-846 7471B analysis for prep batch 450305, the Sample/Duplicate RPD for Mercury is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

In the SW-846 6010B analysis, Copper was detected at a concentration above the PQL in CCBs (ICP5, 02/16/11 1845; 2008 and 02/17 1103). The concentration is insignificant as compared to the associated samples.

In the SW-846 6010B analysis, Iron was detected at a concentration above the PQL in one CCB (ICP5, 02/17 1254). The concentration is insignificant as compared to the associated samples.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

| | |
|-------|--|
| ND | Indicates the result was Not Detected at the specified RDL |
| DO | Indicates the result was Diluted Out |
| MI | Indicates the result was subject to Matrix Interference |
| TNTC | Indicates the result was Too Numerous To Count |
| SUBC | Indicates the analysis was Sub-Contracted |
| FLD | Indicates the analysis was performed in the Field |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| RDL | Reporting Detection Limit |
| 00:00 | Reported as a time equivalent to 12:00 AM |

Reporting Flags Utilized in this Report

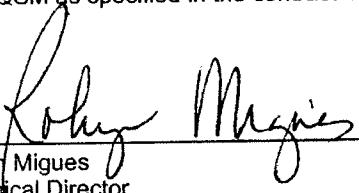
| | |
|---|--|
| J | Indicates an estimated value |
| U | Indicates the compound was analyzed for but not detected |
| B | (ORGANICS) Indicates the analyte was detected in the associated Method Blank |
| B | (INORGANICS) Indicates the result is between the RDL and MDL |

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.



Robyn Migues
Technical Director
GCAL REPORT 211020809

THIS REPORT CONTAINS 97 PAGES.

Report Sample Summary

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|-------------|--------------------------------|--------|-------------------|-------------------|
| 21102080901 | SMELTING BUILDING FLOOR SAMPLE | Solid | 02/03/2011 16:45 | 02/08/2011 09:05 |
| 21102080902 | FP01-AA10 (0-6) | Solid | 02/01/2011 14:07 | 02/08/2011 09:05 |
| 21102080903 | FP03-AB11 (0-6) | Solid | 02/01/2011 13:57 | 02/08/2011 09:05 |
| 21102080904 | FP06-AA9 (0-6) | Solid | 02/01/2011 16:19 | 02/08/2011 09:05 |
| 21102080905 | AA9-101 | Solid | 02/01/2011 16:20 | 02/08/2011 09:05 |
| 21102080906 | FP08-Z7 (0-6) | Solid | 02/01/2011 09:43 | 02/08/2011 09:05 |
| 21102080907 | FP10-AE9 (0-6) | Solid | 02/03/2011 12:35 | 02/08/2011 09:05 |
| 21102080914 | AA10-100 | Solid | 02/01/2011 14:08 | 02/08/2011 09:05 |
| 21102080915 | FP02-AB10 (0-6) | Solid | 02/01/2011 13:21 | 02/08/2011 09:05 |
| 21102080916 | FP04-AC11 (0-6) | Solid | 02/01/2011 13:46 | 02/08/2011 09:05 |
| 21102080917 | FP05-AC10 (0-6) | Solid | 02/01/2011 13:32 | 02/08/2011 09:05 |
| 21102080918 | FP07-AB9 (0-6) | Solid | 02/01/2011 11:17 | 02/08/2011 09:05 |
| 21102080919 | FP09-AB7 (0-6) | Solid | 02/01/2011 11:07 | 02/08/2011 09:05 |
| 21102080920 | FP11-AE10 (0-6) | Solid | 02/03/2011 12:48 | 02/08/2011 09:05 |

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL

Contract: _____

Lab Code: LA024 Case No.: _____

SAS No.: _____ SDG No.: 211020809

SOW No.: _____

| EPA Sample No. |
|------------------------------|
| <u>SMELTING BUILDING FLO</u> |
| <u>FP01-AA10 (0-6)</u> |
| <u>FP03-AB11 (0-6)</u> |
| <u>FP06-AA9 (0-6)</u> |
| <u>AA9-101</u> |
| <u>FP08-Z7 (0-6)</u> |
| <u>FP10-AE9 (0-6)</u> |
| <u>AA10-100</u> |
| <u>FP02-AB10 (0-6)</u> |
| <u>FP04-AC11 (0-6)</u> |
| <u>FP05-AC10 (0-6)</u> |
| <u>FP07-AB9 (0-6)</u> |
| <u>FP09-AB7 (0-6)</u> |
| <u>FP11-AE10 (0-6)</u> |

| Lab Sample ID. |
|--------------------|
| <u>21102080901</u> |
| <u>21102080902</u> |
| <u>21102080903</u> |
| <u>21102080904</u> |
| <u>21102080905</u> |
| <u>21102080906</u> |
| <u>21102080907</u> |
| <u>21102080914</u> |
| <u>21102080915</u> |
| <u>21102080916</u> |
| <u>21102080917</u> |
| <u>21102080918</u> |
| <u>21102080919</u> |
| <u>21102080920</u> |

Were ICP interelement corrections applied ? Yes / No YES

Were ICP background corrections applied ? Yes / No YES

If yes-were raw data generated before application of background corrections ?

Yes / No NO

INORGANIC ANALYSIS DATA SHEET

| | | | | | |
|------------------------|----------|-----------------|--------------------------------|--------------------|------------|
| Lab Name: | GCAL | Sample ID: | SMELTING BUILDING FLOOR SAMPLE | | |
| Lab Code: | LA024 | Case No.: | Contract: | | |
| Matrix: (soil / water) | Solid | | SAS No.: | SDG No.: 211020809 | |
| Level: (low / med) | | % Solids: 99.95 | Lab Sample ID: 21102080901 | | |
| Date Received: | 02/08/11 | Time: 0905 | Date Collected: | 02/03/11 | Time: 1645 |

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|---------|---------------|-------|---|-----|-----|--------|------|
|---------|---------------|-------|---|-----|-----|--------|------|

| | | | | | | | |
|-----------|--------|-------|---|--------|-------|--------------|----|
| Aluminum | 18.7 | mg/kg | B | 6.26 | 79.4 | SW-846 6010C | P |
| Antimony | 14500 | mg/kg | | 2.34 | 47.6 | SW-846 6010C | P |
| Arsenic | 2200 | mg/kg | | 0.87 | 15.9 | SW-846 6010C | P |
| Barium | 7.98 | mg/kg | | 0.11 | 3.97 | SW-846 6010C | P |
| Beryllium | 0.027 | mg/kg | U | 0.027 | 0.20 | SW-846 6010C | P |
| Cadmium | 0.097 | mg/kg | U | 0.097 | 0.20 | SW-846 6010C | P |
| Calcium | 81.0 | mg/kg | B | 9.14 | 298 | SW-846 6010C | P |
| Chromium | 0.12 | mg/kg | U | 0.12 | 0.79 | SW-846 6010C | P |
| Cobalt | 0.22 | mg/kg | U | 0.22 | 0.40 | SW-846 6010C | P |
| Copper | 23100 | mg/kg | | 0.33 | 3.97 | SW-846 6010C | P |
| Iron | 541 | mg/kg | | 8.99 | 39.7 | SW-846 6010C | P |
| Lead | 72300 | mg/kg | | 0.71 | 5.95 | SW-846 6010C | P |
| Magnesium | 23.9 | mg/kg | | 13.3 | 19.8 | SW-846 6010C | P |
| Manganese | 7.19 | mg/kg | | 0.39 | 5.95 | SW-846 6010C | P |
| Mercury | 0.0034 | mg/kg | U | 0.0034 | 0.012 | SW-846 7471B | AV |
| Nickel | 8.19 | mg/kg | | 0.31 | 1.98 | SW-846 6010C | P |
| Potassium | 18.1 | mg/kg | U | 18.1 | 19.8 | SW-846 6010C | P |
| Selenium | 4.01 | mg/kg | | 1.91 | 1.98 | SW-846 6010C | P |
| Silver | 32.1 | mg/kg | | 0.35 | 0.79 | SW-846 6010C | P |
| Sodium | 34.8 | mg/kg | U | 34.8 | 39.7 | SW-846 6010C | P |
| Thallium | 1.36 | mg/kg | | 0.99 | 0.99 | SW-846 6010C | P |
| Vanadium | 0.49 | mg/kg | U | 0.49 | 1.98 | SW-846 6010C | P |
| Zinc | 210 | mg/kg | | 3.29 | 7.94 | SW-846 6010C | P |

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: FP01-AA10 (0-6)
 Lab Code: LA024 Case No.: Contract:
 Matrix: (soil / water) Solid SAS No.: SDG No.: 211020809
 Level: (low / med) % Solids: 85.83 Lab Sample ID: 21102080902
 Date Received: 02/08/11 Time: 0905 Date Collected: 02/01/11 Time: 1407

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|-----------|---------------|-------|---|--------|-------|--------------|------|
| Aluminum | 14900 | mg/kg | | 0.74 | 9.32 | SW-846 6010C | P |
| Antimony | 25.2 | mg/kg | | 0.14 | 2.80 | SW-846 6010C | P |
| Arsenic | 16.0 | mg/kg | | 0.10 | 1.86 | SW-846 6010C | P |
| Barium | 64.8 | mg/kg | | 0.013 | 0.47 | SW-846 6010C | P |
| Beryllium | 0.37 | mg/kg | | 0.0032 | 0.23 | SW-846 6010C | P |
| Cadmium | 0.38 | mg/kg | | 0.011 | 0.23 | SW-846 6010C | P |
| Calcium | 3150 | mg/kg | | 1.07 | 34.9 | SW-846 6010C | P |
| Chromium | 25.5 | mg/kg | | 0.014 | 0.47 | SW-846 6010C | P |
| Cobalt | 6.28 | mg/kg | | 0.025 | 0.47 | SW-846 6010C | P |
| Copper | 199 | mg/kg | | 0.038 | 0.47 | SW-846 6010C | P |
| Iron | 13800 | mg/kg | | 1.06 | 4.66 | SW-846 6010C | P |
| Lead | 5160 | mg/kg | | 0.083 | 0.70 | SW-846 6010C | P |
| Magnesium | 860 | mg/kg | | 1.56 | 4.66 | SW-846 6010C | P |
| Manganese | 721 | mg/kg | | 0.045 | 0.70 | SW-846 6010C | P |
| Mercury | 0.031 | mg/kg | | 0.0040 | 0.014 | SW-846 7471B | AV |
| Nickel | 6.12 | mg/kg | | 0.037 | 1.86 | SW-846 6010C | P |
| Potassium | 492 | mg/kg | | 2.12 | 9.32 | SW-846 6010C | P |
| Selenium | 0.22 | mg/kg | U | 0.22 | 1.86 | SW-846 6010C | P |
| Silver | 0.041 | mg/kg | U | 0.041 | 0.47 | SW-846 6010C | P |
| Sodium | 26.2 | mg/kg | B | 4.09 | 46.6 | SW-846 6010C | P |
| Thallium | 0.40 | mg/kg | B | 0.12 | 0.93 | SW-846 6010C | P |
| Vanadium | 39.7 | mg/kg | | 0.058 | 0.93 | SW-846 6010C | P |
| Zinc | 79.3 | mg/kg | | 0.39 | 0.93 | SW-846 6010C | P |

INORGANIC ANALYSIS DATA SHEET

| | |
|---------------------------------------|---|
| Lab Name: <u>GCAL</u> | Sample ID: <u>FP03-AB11 (0-6)</u> |
| Lab Code: <u>LA024</u> | Case No.: _____ |
| Matrix: (soil / water) <u>Solid</u> | Contract: _____ |
| Level: (low / med) _____ | % Solids: <u>81.66</u> |
| Date Received: <u>02/08/11</u> | Lab Sample ID: <u>21102080903</u> |
| Time: <u>0905</u> | Date Collected: <u>02/01/11</u> Time: <u>1357</u> |

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|----------------|----------------------|--------------|----------|------------|------------|---------------|-------------|
| Aluminum | 16600 | mg/kg | | 0.77 | 9.72 | SW-846 6010C | P |
| Antimony | 7.88 | mg/kg | | 0.14 | 2.92 | SW-846 6010C | P |
| Arsenic | 7.00 | mg/kg | | 0.11 | 1.94 | SW-846 6010C | P |
| Barium | 68.7 | mg/kg | | 0.013 | 0.49 | SW-846 6010C | P |
| Beryllium | 0.42 | mg/kg | | 0.0034 | 0.24 | SW-846 6010C | P |
| Cadmium | 0.33 | mg/kg | | 0.012 | 0.24 | SW-846 6010C | P |
| Calcium | 1720 | mg/kg | | 1.12 | 36.4 | SW-846 6010C | P |
| Chromium | 22.5 | mg/kg | | 0.014 | 0.49 | SW-846 6010C | P |
| Cobalt | 8.08 | mg/kg | | 0.026 | 0.49 | SW-846 6010C | P |
| Copper | 95.7 | mg/kg | | 0.040 | 0.49 | SW-846 6010C | P |
| Iron | 15500 | mg/kg | | 1.10 | 4.86 | SW-846 6010C | P |
| Lead | 1540 | mg/kg | | 0.087 | 0.73 | SW-846 6010C | P |
| Magnesium | 531 | mg/kg | | 1.63 | 4.86 | SW-846 6010C | P |
| Manganese | 873 | mg/kg | | 0.047 | 0.73 | SW-846 6010C | P |
| Mercury | 0.047 | mg/kg | | 0.0042 | 0.015 | SW-846 7471B | AV |
| Nickel | 5.68 | mg/kg | | 0.038 | 1.94 | SW-846 6010C | P |
| Potassium | 644 | mg/kg | | 2.21 | 9.72 | SW-846 6010C | P |
| Selenium | 0.23 | mg/kg | U | 0.23 | 1.94 | SW-846 6010C | P |
| Silver | 0.042 | mg/kg | U | 0.042 | 0.49 | SW-846 6010C | P |
| Sodium | 16.2 | mg/kg | B | 4.26 | 48.6 | SW-846 6010C | P |
| Thallium | 0.26 | mg/kg | B | 0.12 | 0.97 | SW-846 6010C | P |
| Vanadium | 46.0 | mg/kg | | 0.060 | 0.97 | SW-846 6010C | P |
| Zinc | 56.5 | mg/kg | | 0.40 | 0.97 | SW-846 6010C | P |

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: FP06-AA9 (0-6)
 Lab Code: LA024 Case No.: Contract:
 Matrix: (soil / water) Solid SAS No.: SDG No.: 211020809
 Level: (low / med) % Solids: 90.04 Lab Sample ID: 21102080904
 Date Received: 02/08/11 Time: 0905 Date Collected: 02/01/11 Time: 1619

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|-----------|---------------|-------|---|--------|-------|--------------|------|
| Aluminum | 6280 | mg/kg | | 0.70 | 8.88 | SW-846 6010C | P |
| Antimony | 629 | mg/kg | | 0.13 | 2.67 | SW-846 6010C | P |
| Arsenic | 72.4 | mg/kg | | 0.098 | 1.78 | SW-846 6010C | P |
| Barium | 70.6 | mg/kg | | 0.012 | 0.44 | SW-846 6010C | P |
| Beryllium | 0.049 | mg/kg | B | 0.0031 | 0.22 | SW-846 6010C | P |
| Cadmium | 0.63 | mg/kg | | 0.011 | 0.22 | SW-846 6010C | P |
| Calcium | 1280 | mg/kg | | 1.02 | 33.3 | SW-846 6010C | P |
| Chromium | 12.0 | mg/kg | | 0.013 | 0.44 | SW-846 6010C | P |
| Cobalt | 3.07 | mg/kg | | 0.024 | 0.44 | SW-846 6010C | P |
| Copper | 2980 | mg/kg | | 0.036 | 0.44 | SW-846 6010C | P |
| Iron | 6460 | mg/kg | | 1.01 | 4.44 | SW-846 6010C | P |
| Lead | 33200 | mg/kg | | 0.16 | 1.33 | SW-846 6010C | P |
| Magnesium | 423 | mg/kg | | 1.49 | 4.44 | SW-846 6010C | P |
| Manganese | 302 | mg/kg | | 0.043 | 0.67 | SW-846 6010C | P |
| Mercury | 0.039 | mg/kg | | 0.0037 | 0.013 | SW-846 7471B | AV |
| Nickel | 3.62 | mg/kg | | 0.035 | 1.78 | SW-846 6010C | P |
| Potassium | 336 | mg/kg | | 2.02 | 8.88 | SW-846 6010C | P |
| Selenium | 0.35 | mg/kg | B | 0.21 | 1.78 | SW-846 6010C | P |
| Silver | 1.87 | mg/kg | | 0.039 | 0.44 | SW-846 6010C | P |
| Sodium | 25.6 | mg/kg | B | 3.90 | 44.4 | SW-846 6010C | P |
| Thallium | 0.11 | mg/kg | U | 0.11 | 0.89 | SW-846 6010C | P |
| Vanadium | 17.0 | mg/kg | | 0.055 | 0.89 | SW-846 6010C | P |
| Zinc | 85.2 | mg/kg | | 0.37 | 0.89 | SW-846 6010C | P |

INORGANIC ANALYSIS DATA SHEET

| | | | |
|--------------------------|-----------------|-----------------|---------------------|
| Lab Name: | GCAL | Sample ID: | AA9-101 |
| Lab Code: | LA024 | Case No.: | |
| Matrix: (soil / water) | Solid | SAS No.: | SDG No.: 211020809 |
| Level: (low / med) | % Solids: 89.24 | Lab Sample ID: | 21102080905 |
| Date Received: | 02/08/11 | Time: | 0905 |
| | | Date Collected: | 02/01/11 Time: 1620 |

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|-----------|---------------|-------|---|--------|-------|--------------|------|
| Aluminum | 5290 | mg/kg | | 3.54 | 44.8 | SW-846 6010C | P |
| Antimony | 883 | mg/kg | | 0.66 | 13.4 | SW-846 6010C | P |
| Arsenic | 91.8 | mg/kg | | 0.49 | 8.96 | SW-846 6010C | P |
| Barium | 49.4 | mg/kg | | 0.061 | 2.24 | SW-846 6010C | P |
| Beryllium | 0.016 | mg/kg | U | 0.016 | 0.11 | SW-846 6010C | P |
| Cadmium | 0.13 | mg/kg | B | 0.055 | 1.12 | SW-846 6010C | P |
| Calcium | 1200 | mg/kg | | 5.16 | 168 | SW-846 6010C | P |
| Chromium | 11.5 | mg/kg | | 0.065 | 2.24 | SW-846 6010C | P |
| Cobalt | 2.83 | mg/kg | | 0.12 | 2.24 | SW-846 6010C | P |
| Copper | 10500 | mg/kg | | 0.18 | 2.24 | SW-846 6010C | P |
| Iron | 7070 | mg/kg | | 5.08 | 22.4 | SW-846 6010C | P |
| Lead | 28800 | mg/kg | | 0.40 | 3.36 | SW-846 6010C | P |
| Magnesium | 315 | mg/kg | | 7.51 | 22.4 | SW-846 6010C | P |
| Manganese | 340 | mg/kg | | 0.22 | 3.36 | SW-846 6010C | P |
| Mercury | 0.014 | mg/kg | | 0.0038 | 0.013 | SW-846 7471B | AV |
| Nickel | 4.43 | mg/kg | B | 0.18 | 8.96 | SW-846 6010C | P |
| Potassium | 246 | mg/kg | | 10.2 | 44.8 | SW-846 6010C | P |
| Selenium | 1.10 | mg/kg | B | 1.08 | 8.96 | SW-846 6010C | P |
| Silver | 2.04 | mg/kg | B | 0.20 | 2.24 | SW-846 6010C | P |
| Sodium | 19.7 | mg/kg | U | 19.7 | 224 | SW-846 6010C | P |
| Thallium | 0.56 | mg/kg | U | 0.56 | 0.56 | SW-846 6010C | P |
| Vanadium | 19.5 | mg/kg | | 0.28 | 4.48 | SW-846 6010C | P |
| Zinc | 331 | mg/kg | | 1.85 | 4.48 | SW-846 6010C | P |

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: FP08-Z7 (0-6)
 Lab Code: LA024 Case No.: _____
 Matrix: (soil / water) Solid Contract: _____
 Level: (low / med) _____ % Solids: 91.41 SAS No.: _____ SDG No.: 211020809
 Date Received: 02/08/11 Time: 0905 Lab Sample ID: 21102080906
 Date Collected: 02/01/11 Time: 0943

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|-----------|---------------|-------|---|--------|-------|--------------|------|
| Aluminum | 11200 | mg/kg | | 0.69 | 8.75 | SW-846 6010C | P |
| Antimony | 1280 | mg/kg | | 0.65 | 13.1 | SW-846 6010C | P |
| Arsenic | 67.1 | mg/kg | | 0.096 | 1.75 | SW-846 6010C | P |
| Barium | 66.3 | mg/kg | | 0.012 | 0.44 | SW-846 6010C | P |
| Beryllium | 0.36 | mg/kg | | 0.0030 | 0.22 | SW-846 6010C | P |
| Cadmium | 0.33 | mg/kg | | 0.011 | 0.22 | SW-846 6010C | P |
| Calcium | 25500 | mg/kg | | 1.01 | 32.8 | SW-846 6010C | P |
| Chromium | 14.4 | mg/kg | | 0.013 | 0.44 | SW-846 6010C | P |
| Cobalt | 2.73 | mg/kg | | 0.024 | 0.44 | SW-846 6010C | P |
| Copper | 1740 | mg/kg | | 0.036 | 0.44 | SW-846 6010C | P |
| Iron | 14800 | mg/kg | | 0.99 | 4.38 | SW-846 6010C | P |
| Lead | 45400 | mg/kg | | 0.39 | 3.28 | SW-846 6010C | P |
| Magnesium | 1390 | mg/kg | | 1.47 | 4.38 | SW-846 6010C | P |
| Manganese | 364 | mg/kg | | 0.043 | 0.66 | SW-846 6010C | P |
| Mercury | 0.032 | mg/kg | | 0.0037 | 0.013 | SW-846 7471B | AV |
| Nickel | 10.5 | mg/kg | | 0.034 | 1.75 | SW-846 6010C | P |
| Potassium | 999 | mg/kg | | 1.99 | 8.75 | SW-846 6010C | P |
| Selenium | 1.30 | mg/kg | B | 0.21 | 1.75 | SW-846 6010C | P |
| Silver | 4.59 | mg/kg | | 0.038 | 0.44 | SW-846 6010C | P |
| Sodium | 164 | mg/kg | | 3.84 | 43.8 | SW-846 6010C | P |
| Thallium | 3.06 | mg/kg | | 0.11 | 0.88 | SW-846 6010C | P |
| Vanadium | 21.0 | mg/kg | | 0.054 | 0.88 | SW-846 6010C | P |
| Zinc | 177 | mg/kg | | 0.36 | 0.88 | SW-846 6010C | P |

INORGANIC ANALYSIS DATA SHEET

| | | | |
|----------------|------------------|------------|-------------------------------------|
| Lab Name: | GCAL | Sample ID: | FP10-AE9 (0-6) |
| Lab Code: | LA024 | Case No.: | |
| Matrix: | (soil / water) | Solid | Contract: |
| Level: | (low / med) | % Solids: | 84.44 SDG No.: |
| Date Received: | 02/08/11 | Time: | 0905 Lab Sample ID: 21102080907 |
| | | | Date Collected: 02/03/11 Time: 1235 |

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|-----------|---------------|-------|---|--------|-------|--------------|------|
| Aluminum | 12100 | mg/kg | | 0.75 | 9.47 | SW-846 6010C | P |
| Antimony | 8.54 | mg/kg | | 0.14 | 2.84 | SW-846 6010C | P |
| Arsenic | 4.70 | mg/kg | | 0.10 | 1.89 | SW-846 6010C | P |
| Barium | 35.7 | mg/kg | | 0.013 | 0.47 | SW-846 6010C | P |
| Beryllium | 0.25 | mg/kg | | 0.0033 | 0.24 | SW-846 6010C | P |
| Cadmium | 0.11 | mg/kg | B | 0.012 | 0.24 | SW-846 6010C | P |
| Calcium | 345 | mg/kg | | 1.09 | 35.5 | SW-846 6010C | P |
| Chromium | 19.4 | mg/kg | | 0.014 | 0.47 | SW-846 6010C | P |
| Cobalt | 3.20 | mg/kg | | 0.026 | 0.47 | SW-846 6010C | P |
| Copper | 46.9 | mg/kg | | 0.039 | 0.47 | SW-846 6010C | P |
| Iron | 12100 | mg/kg | | 1.07 | 4.74 | SW-846 6010C | P |
| Lead | 2090 | mg/kg | | 0.085 | 0.71 | SW-846 6010C | P |
| Magnesium | 170 | mg/kg | | 1.59 | 4.74 | SW-846 6010C | P |
| Manganese | 362 | mg/kg | | 0.046 | 0.71 | SW-846 6010C | P |
| Mercury | 0.020 | mg/kg | | 0.0041 | 0.014 | SW-846 7471B | AV |
| Nickel | 3.18 | mg/kg | | 0.037 | 1.89 | SW-846 6010C | P |
| Potassium | 189 | mg/kg | | 2.16 | 9.47 | SW-846 6010C | P |
| Selenium | 0.23 | mg/kg | U | 0.23 | 1.89 | SW-846 6010C | P |
| Silver | 0.041 | mg/kg | U | 0.041 | 0.47 | SW-846 6010C | P |
| Sodium | 4.83 | mg/kg | B | 4.16 | 47.4 | SW-846 6010C | P |
| Thallium | 0.23 | mg/kg | B | 0.12 | 0.95 | SW-846 6010C | P |
| Vanadium | 30.6 | mg/kg | | 0.059 | 0.95 | SW-846 6010C | P |
| Zinc | 27.9 | mg/kg | | 0.39 | 0.95 | SW-846 6010C | P |

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: AA10-100
Lab Code: LA024 Case No.: Contract:
Matrix: (soil / water) Solid SAS No.: SDG No.: 211020809
Level: (low / med) % Solids: 84.72 Lab Sample ID: 21102080914
Date Received: 02/08/11 Time: 0905 Date Collected: 02/01/11 Time: 1408

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|---------|---------------|-------|---|-------|------|--------------|------|
| Lead | 2570 | mg/kg | | 0.084 | 0.71 | SW-846 6010C | P |

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: FP02-AB10 (0-6)
Lab Code: LA024 Case No.: Contract:
Matrix: (soil / water) Solid SAS No.: SDG No.: 211020809
Level: (low / med) % Solids: 82.03 Lab Sample ID: 21102080915
Date Received: 02/08/11 Time: 0905 Date Collected: 02/01/11 Time: 1321

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|---------|---------------|-------|---|-------|------|--------------|------|
| Lead | 6830 | mg/kg | | 0.086 | 0.73 | SW-846 6010C | P |

INORGANIC ANALYSIS DATA SHEET

| | | | |
|----------------|------------------------|-----------------|---------------------|
| Lab Name: | GCAL | Sample ID: | FP04-AC11 (0-6) |
| Lab Code: | LA024 | Case No.: | |
| Matrix: | (soil / water) Solid | SAS No.: | SDG No.: |
| Level: | (low / med) | % Solids: | 85.62 211020809 |
| Date Received: | 02/08/11 | Time: | 0905 21102080916 |
| | | Date Collected: | 02/01/11 Time: 1346 |

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|---------|---------------|-------|---|-------|------|--------------|------|
| Lead | 2120 | mg/kg | | 0.084 | 0.70 | SW-846 6010C | P |

INORGANIC ANALYSIS DATA SHEET

| | | | |
|--------------------------|-----------------|-----------------|---------------------|
| Lab Name: | GCAL | Sample ID: | FP05-AC10 (0-6) |
| Lab Code: | LA024 | Case No.: | |
| Matrix: (soil / water) | Solid | Contract: | |
| Level: (low / med) | % Solids: 84.67 | SAS No.: | SDG No.: 211020809 |
| Date Received: | 02/08/11 | Lab Sample ID: | 21102080917 |
| | Time: 0905 | Date Collected: | 02/01/11 Time: 1332 |

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|---------|---------------|-------|---|-------|------|--------------|------|
| Lead | 1840 | mg/kg | | 0.084 | 0.71 | SW-846 6010C | P |

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: FP07-AB9 (0-6)
Lab Code: LA024 Case No.: Contract:
Matrix: (soil / water) Solid SAS No.: SDG No.: 211020809
Level: (low / med) % Solids: 91.46 Lab Sample ID: 21102080918
Date Received: 02/08/11 Time: 0905 Date Collected: 02/01/11 Time: 1117

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|---------|---------------|-------|---|------|------|--------------|------|
| Lead | 168000 | mg/kg | | 0.78 | 6.51 | SW-846 6010C | P |

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: (soil / water) Solid
Level: (low / med) % Solids: 89.54
Date Received: 02/08/11 Time: 0905
Sample ID: FP09-AB7 (0-6)
Contract:
SAS No.: SDG No.: 211020809
Lab Sample ID: 21102080919
Date Collected: 02/01/11 Time: 1107

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|---------|---------------|-------|---|------|------|--------------|------|
| Lead | 65000 | mg/kg | | 0.40 | 3.35 | SW-846 6010C | P |

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: FP11-AE10 (0-6)
Lab Code: LA024 Case No.: _____
Matrix: (soil / water) Solid Contract: _____
Level: (low / med) % Solids: 85.32 SAS No.: _____ SDG No.: 211020809
Date Received: 02/08/11 Time: 0905 Lab Sample ID: 21102080920
Date Collected: 02/03/11 Time: 1248

| Analyte | Concentration | Units | C | MDL | PQL | Method | Type |
|---------|---------------|-------|---|-------|------|--------------|------|
| Lead | 89.6 | mg/kg | | 0.084 | 0.70 | SW-846 6010C | P |

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Lab Code: LA024 Case No.:
Calibration Source: 195-44-1 CPI/EXAXOL
Contract: _____
SAS No.: _____ SDG No.: 211020809
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/15/11 Time: 1512

INITIAL CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---------|------|--------|--------|-------|--------------|------|
| Lead | 1.00 | 0.9752 | 98 | mg/L | SW-846 6010C | P |

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract: _____
Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211020809
Calibration Source: 195-46-3 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/15/11 Time: 1524

CRDL STANDARD

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---------|--------|--------|--------|-------|--------------|------|
| Lead | 0.0150 | 0.0123 | 82 | mg/L | SW-846 6010C | P |

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Lab Code: LA024 Case No.:
Calibration Source: 195-46-1 INORGANIC VENTURES

Contract: _____
SAS No.: _____ SDG No.: 211020809
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/15/11 Time: 1552

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---------|-------|--------|--------|-------|--------------|------|
| Lead | 0.500 | 0.5047 | 101 | mg/L | SW-846 6010C | P |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract: _____
Lab Code: LA024 Case No.: _____ SDG No.: 211020809
Calibration Source: 195-46-1 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/15/11 Time: 2103

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---------|-------|--------|--------|-------|--------------|------|
| Lead | 0.500 | 0.5048 | 101 | mg/L | SW-846 6010C | P |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Lab Code: LA024 Case No.:
Calibration Source: 195-46-1 INORGANIC VENTURES
Contract: _____
SAS No.: _____ SDG No.: 211020809
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/15/11 Time: 2221

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---------|-------|--------|--------|-------|--------------|------|
| Lead | 0.500 | 0.4993 | 100 | mg/L | SW-846 6010C | P |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract: _____
Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211020809
Calibration Source: 195-46-1 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/15/11 Time: 2331

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|----------------|-------------|--------------|---------------|--------------|---------------|-------------|
| Lead | 0.500 | 0.4797 | 96 | mg/L | SW-846 6010C | P |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 211020809

Calibration Source: 195-46-8 CPI/EXAXOL

Instrument ID: ICP5

ICAL ID: 3

Date Analyzed: 02/16/11

Time: 1539

INITIAL CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|------------|------|--------|--------|-------|--------------|------|
| Aluminum | 10.0 | 9.50 | 95 | mg/L | SW-846 6010C | P |
| Barium | 1.00 | 0.9552 | 96 | mg/L | SW-846 6010C | P |
| Beryllium | 1.00 | 0.9553 | 96 | mg/L | SW-846 6010C | P |
| Boron | 5.00 | 4.92 | 98 | mg/L | SW-846 6010C | P |
| Cadmium | 1.00 | 0.9418 | 94 | mg/L | SW-846 6010C | P |
| Calcium | 10.0 | 9.16 | 92 | mg/L | SW-846 6010C | P |
| Chromium | 1.00 | 0.9611 | 96 | mg/L | SW-846 6010C | P |
| Cobalt | 1.00 | 0.926 | 93 | mg/L | SW-846 6010C | P |
| Copper | 1.00 | 0.9303 | 93 | mg/L | SW-846 6010C | P |
| Iron | 10.0 | 10.1 | 101 | mg/L | SW-846 6010C | P |
| Lead | 1.00 | 0.9461 | 95 | mg/L | SW-846 6010C | P |
| Lithium | 1.00 | 0.9406 | 94 | mg/L | SW-846 6010C | P |
| Magnesium | 10.0 | 9.32 | 93 | mg/L | SW-846 6010C | P |
| Manganese | 1.00 | 0.9527 | 95 | mg/L | SW-846 6010C | P |
| Molybdenum | 1.00 | 0.9507 | 95 | mg/L | SW-846 6010C | P |
| Nickel | 1.00 | 0.944 | 94 | mg/L | SW-846 6010C | P |
| Potassium | 10.0 | 9.46 | 95 | mg/L | SW-846 6010C | P |
| Selenium | 1.00 | 0.9456 | 95 | mg/L | SW-846 6010C | P |
| Silver | 1.00 | 0.9457 | 95 | mg/L | SW-846 6010C | P |
| Sodium | 10.0 | 9.42 | 94 | mg/L | SW-846 6010C | P |
| Strontium | 1.00 | 0.9498 | 95 | mg/L | SW-846 6010C | P |
| Thallium | 1.00 | 0.9415 | 94 | mg/L | SW-846 6010C | P |
| Tin | 1.00 | 0.9545 | 95 | mg/L | SW-846 6010C | P |
| Titanium | 1.00 | 0.9806 | 98 | mg/L | SW-846 6010C | P |
| Vanadium | 1.00 | 0.927 | 93 | mg/L | SW-846 6010C | P |

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

| | |
|-------------------------------------|------------------------------------|
| Lab Name: GCAL | Contract: |
| Lab Code: LA024 | SAS No.: SDG No.: 211020809 |
| Calibration Source: 195-47-6 EXAXOL | Instrument ID: ICP5 ICAL ID: 3 |
| | Date Analyzed: 02/16/11 Time: 1557 |

INITIAL CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|-----------|------|--------|--------|-------|--------------|------|
| Antimony | 1.00 | 0.9519 | 95 | mg/L | SW-846 6010C | P |
| Arsenic | 1.00 | 1.01 | 101 | mg/L | SW-846 6010C | P |
| Zinc | 1.00 | 0.9921 | 99 | mg/L | SW-846 6010C | P |
| Zirconium | 1.00 | 1.03 | 103 | mg/L | SW-846 6010C | P |

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

| | | |
|---|-------------------------|--------------------|
| Lab Name: GCAL | Contract: | |
| Lab Code: LA024 | SAS No.: _____ | SDG No.: 211020809 |
| Calibration Source: 195-47-2 INORGANIC VENTURES | Instrument ID: ICP5 | ICAL ID: 3 |
| | Date Analyzed: 02/16/11 | Time: 1611 |

CRDL STANDARD

| Analyte | True | Found | CAL %R | Units | Method | Type |
|------------|---------|---------|--------|-------|--------------|------|
| Aluminum | 0.200 | 0.1692 | 85 | mg/L | SW-846 6010C | P |
| Antimony | 0.0600 | 0.0541 | 90 | mg/L | SW-846 6010C | P |
| Arsenic | 0.0100 | 0.00890 | 89 | mg/L | SW-846 6010C | P |
| Barium | 0.0100 | 0.00900 | 90 | mg/L | SW-846 6010C | P |
| Beryllium | 0.00500 | 0.00480 | 97 | mg/L | SW-846 6010C | P |
| Boron | 0.500 | 0.4709 | 94 | mg/L | SW-846 6010C | P |
| Cadmium | 0.00500 | 0.00460 | 93 | mg/L | SW-846 6010C | P |
| Calcium | 0.100 | 0.0932 | 93 | mg/L | SW-846 6010C | P |
| Chromium | 0.0100 | 0.00910 | 91 | mg/L | SW-846 6010C | P |
| Cobalt | 0.0100 | 0.00950 | 95 | mg/L | SW-846 6010C | P |
| Copper | 0.0100 | 0.00740 | 74 | mg/L | SW-846 6010C | P |
| Iron | 0.100 | 0.0906 | 91 | mg/L | SW-846 6010C | P |
| Lead | 0.0150 | 0.0140 | 93 | mg/L | SW-846 6010C | P |
| Lithium | 0.0500 | 0.0474 | 95 | mg/L | SW-846 6010C | P |
| Magnesium | 0.100 | 0.0845 | 85 | mg/L | SW-846 6010C | P |
| Manganese | 0.0150 | 0.0144 | 96 | mg/L | SW-846 6010C | P |
| Molybdenum | 0.0500 | 0.0468 | 94 | mg/L | SW-846 6010C | P |
| Nickel | 0.0400 | 0.0381 | 95 | mg/L | SW-846 6010C | P |
| Potassium | 0.500 | 0.4469 | 89 | mg/L | SW-846 6010C | P |
| Selenium | 0.0400 | 0.0406 | 101 | mg/L | SW-846 6010C | P |
| Silver | 0.0100 | 0.00900 | 90 | mg/L | SW-846 6010C | P |
| Sodium | 1.00 | 0.9533 | 95 | mg/L | SW-846 6010C | P |
| Strontium | 0.0500 | 0.0480 | 96 | mg/L | SW-846 6010C | P |
| Thallium | 0.0100 | 0.0113 | 113 | mg/L | SW-846 6010C | P |
| Tin | 0.100 | 0.0755 | 76 | mg/L | SW-846 6010C | P |
| Titanium | 0.100 | 0.0945 | 94 | mg/L | SW-846 6010C | P |
| Vanadium | 0.0200 | 0.0196 | 98 | mg/L | SW-846 6010C | P |
| Zinc | 0.0200 | 0.0191 | 95 | mg/L | SW-846 6010C | P |
| Zirconium | 0.0100 | 0.00970 | 97 | mg/L | SW-846 6010C | P |

INITIAL AND CONTINUING CALIBRATION VERIFICATION

| | | | |
|---|-----------|-------------------------|--------------------|
| Lab Name: GCAL | Contract: | | |
| Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211020809 |
| Calibration Source: 195-46-7 INORGANIC VENTURES | | Instrument ID: ICP5 | ICAL ID: 3 |
| | | Date Analyzed: 02/16/11 | Time: 1638 |

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|------------|-------|--------|--------|-------|--------------|------|
| Aluminum | 5.00 | 4.96 | 99 | mg/L | SW-846 6010C | P |
| Antimony | 0.500 | 0.4804 | 96 | mg/L | SW-846 6010C | P |
| Arsenic | 0.500 | 0.4994 | 100 | mg/L | SW-846 6010C | P |
| Barium | 0.500 | 0.4943 | 99 | mg/L | SW-846 6010C | P |
| Beryllium | 0.500 | 0.498 | 100 | mg/L | SW-846 6010C | P |
| Boron | 2.50 | 2.51 | 100 | mg/L | SW-846 6010C | P |
| Cadmium | 0.500 | 0.4971 | 99 | mg/L | SW-846 6010C | P |
| Calcium | 5.00 | 4.73 | 95 | mg/L | SW-846 6010C | P |
| Chromium | 0.500 | 0.4951 | 99 | mg/L | SW-846 6010C | P |
| Cobalt | 0.500 | 0.4923 | 98 | mg/L | SW-846 6010C | P |
| Copper | 0.500 | 0.4903 | 98 | mg/L | SW-846 6010C | P |
| Iron | 5.00 | 5.02 | 100 | mg/L | SW-846 6010C | P |
| Lead | 0.500 | 0.4973 | 99 | mg/L | SW-846 6010C | P |
| Lithium | 0.500 | 0.4943 | 99 | mg/L | SW-846 6010C | P |
| Magnesium | 5.00 | 5.03 | 101 | mg/L | SW-846 6010C | P |
| Manganese | 0.500 | 0.4892 | 98 | mg/L | SW-846 6010C | P |
| Molybdenum | 0.500 | 0.4897 | 98 | mg/L | SW-846 6010C | P |
| Nickel | 0.500 | 0.4965 | 99 | mg/L | SW-846 6010C | P |
| Potassium | 10.0 | 9.86 | 99 | mg/L | SW-846 6010C | P |
| Selenium | 0.500 | 0.4902 | 98 | mg/L | SW-846 6010C | P |
| Silicon | 5.00 | 4.97 | 99 | mg/L | SW-846 6010C | P |
| Silver | 0.500 | 0.4905 | 98 | mg/L | SW-846 6010C | P |
| Sodium | 20.0 | 19.9 | 100 | mg/L | SW-846 6010C | P |
| Strontium | 0.500 | 0.4952 | 99 | mg/L | SW-846 6010C | P |
| Thallium | 0.500 | 0.4882 | 98 | mg/L | SW-846 6010C | P |
| Tin | 0.500 | 0.4704 | 94 | mg/L | SW-846 6010C | P |
| Titanium | 0.500 | 0.4942 | 99 | mg/L | SW-846 6010C | P |
| Vanadium | 0.500 | 0.4934 | 99 | mg/L | SW-846 6010C | P |
| Zinc | 0.500 | 0.4853 | 97 | mg/L | SW-846 6010C | P |
| Zirconium | 0.500 | 0.4911 | 98 | mg/L | SW-846 6010C | P |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

| | | |
|---|-------------------------|--------------------|
| Lab Name: GCAL | Contract: | |
| Lab Code: LA024 | SAS No.: _____ | SDG No.: 211020809 |
| Calibration Source: 195-46-7 INORGANIC VENTURES | Instrument ID: ICP5 | ICAL ID: 3 |
| | Date Analyzed: 02/16/11 | Time: 1717 |

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|------------|-------|--------|--------|-------|--------------|------|
| Aluminum | 5.00 | 4.92 | 98 | mg/L | SW-846 6010C | P |
| Antimony | 0.500 | 0.4755 | 95 | mg/L | SW-846 6010C | P |
| Arsenic | 0.500 | 0.4996 | 100 | mg/L | SW-846 6010C | P |
| Barium | 0.500 | 0.4944 | 99 | mg/L | SW-846 6010C | P |
| Beryllium | 0.500 | 0.4965 | 99 | mg/L | SW-846 6010C | P |
| Boron | 2.50 | 2.48 | 99 | mg/L | SW-846 6010C | P |
| Cadmium | 0.500 | 0.4966 | 99 | mg/L | SW-846 6010C | P |
| Calcium | 5.00 | 4.70 | 94 | mg/L | SW-846 6010C | P |
| Chromium | 0.500 | 0.4949 | 99 | mg/L | SW-846 6010C | P |
| Cobalt | 0.500 | 0.4922 | 98 | mg/L | SW-846 6010C | P |
| Copper | 0.500 | 0.4956 | 99 | mg/L | SW-846 6010C | P |
| Iron | 5.00 | 4.95 | 99 | mg/L | SW-846 6010C | P |
| Lead | 0.500 | 0.4949 | 99 | mg/L | SW-846 6010C | P |
| Lithium | 0.500 | 0.4936 | 99 | mg/L | SW-846 6010C | P |
| Magnesium | 5.00 | 4.93 | 99 | mg/L | SW-846 6010C | P |
| Manganese | 0.500 | 0.4891 | 98 | mg/L | SW-846 6010C | P |
| Molybdenum | 0.500 | 0.4856 | 97 | mg/L | SW-846 6010C | P |
| Nickel | 0.500 | 0.4953 | 99 | mg/L | SW-846 6010C | P |
| Potassium | 10.0 | 9.85 | 99 | mg/L | SW-846 6010C | P |
| Selenium | 0.500 | 0.4868 | 97 | mg/L | SW-846 6010C | P |
| Silicon | 5.00 | 4.97 | 99 | mg/L | SW-846 6010C | P |
| Silver | 0.500 | 0.4928 | 99 | mg/L | SW-846 6010C | P |
| Sodium | 20.0 | 19.8 | 99 | mg/L | SW-846 6010C | P |
| Strontium | 0.500 | 0.4924 | 98 | mg/L | SW-846 6010C | P |
| Thallium | 0.500 | 0.480 | 96 | mg/L | SW-846 6010C | P |
| Tin | 0.500 | 0.4609 | 92 | mg/L | SW-846 6010C | P |
| Titanium | 0.500 | 0.4926 | 99 | mg/L | SW-846 6010C | P |
| Vanadium | 0.500 | 0.4945 | 99 | mg/L | SW-846 6010C | P |
| Zinc | 0.500 | 0.4792 | 96 | mg/L | SW-846 6010C | P |
| Zirconium | 0.500 | 0.4926 | 99 | mg/L | SW-846 6010C | P |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

| | | |
|--|--------------------------------|---------------------------|
| Lab Name: <u>GCAL</u> | Contract: | |
| Lab Code: <u>LA024</u> | SAS No.: _____ | SDG No.: <u>211020809</u> |
| Calibration Source: <u>195-46-7 INORGANIC VENTURES</u> | Instrument ID: <u>ICP5</u> | ICAL ID: <u>3</u> |
| | Date Analyzed: <u>02/16/11</u> | Time: <u>1838</u> |

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|------------|-------|--------|--------|-------|--------------|------|
| Aluminum | 5.00 | 4.87 | 97 | mg/L | SW-846 6010C | P |
| Antimony | 0.500 | 0.4834 | 97 | mg/L | SW-846 6010C | P |
| Arsenic | 0.500 | 0.5019 | 100 | mg/L | SW-846 6010C | P |
| Barium | 0.500 | 0.4919 | 98 | mg/L | SW-846 6010C | P |
| Beryllium | 0.500 | 0.4987 | 100 | mg/L | SW-846 6010C | P |
| Boron | 2.50 | 2.47 | 99 | mg/L | SW-846 6010C | P |
| Cadmium | 0.500 | 0.4963 | 99 | mg/L | SW-846 6010C | P |
| Calcium | 5.00 | 4.81 | 96 | mg/L | SW-846 6010C | P |
| Chromium | 0.500 | 0.4918 | 98 | mg/L | SW-846 6010C | P |
| Cobalt | 0.500 | 0.4905 | 98 | mg/L | SW-846 6010C | P |
| Copper | 0.500 | 0.5506 | 110 | mg/L | SW-846 6010C | P |
| Iron | 5.00 | 4.95 | 99 | mg/L | SW-846 6010C | P |
| Lead | 0.500 | 0.4968 | 99 | mg/L | SW-846 6010C | P |
| Lithium | 0.500 | 0.4963 | 99 | mg/L | SW-846 6010C | P |
| Magnesium | 5.00 | 4.92 | 98 | mg/L | SW-846 6010C | P |
| Manganese | 0.500 | 0.4881 | 98 | mg/L | SW-846 6010C | P |
| Molybdenum | 0.500 | 0.4873 | 97 | mg/L | SW-846 6010C | P |
| Nickel | 0.500 | 0.4933 | 99 | mg/L | SW-846 6010C | P |
| Potassium | 10.0 | 9.89 | 99 | mg/L | SW-846 6010C | P |
| Selenium | 0.500 | 0.4878 | 98 | mg/L | SW-846 6010C | P |
| Silicon | 5.00 | 5.00 | 100 | mg/L | SW-846 6010C | P |
| Silver | 0.500 | 0.4937 | 99 | mg/L | SW-846 6010C | P |
| Sodium | 20.0 | 19.9 | 100 | mg/L | SW-846 6010C | P |
| Strontium | 0.500 | 0.4948 | 99 | mg/L | SW-846 6010C | P |
| Thallium | 0.500 | 0.4842 | 97 | mg/L | SW-846 6010C | P |
| Tin | 0.500 | 0.4667 | 93 | mg/L | SW-846 6010C | P |
| Titanium | 0.500 | 0.4948 | 99 | mg/L | SW-846 6010C | P |
| Vanadium | 0.500 | 0.4931 | 99 | mg/L | SW-846 6010C | P |
| Zinc | 0.500 | 0.5009 | 100 | mg/L | SW-846 6010C | P |
| Zirconium | 0.500 | 0.4871 | 97 | mg/L | SW-846 6010C | P |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

| | | | |
|---------------------|-----------------------------|----------------|--------------------|
| Lab Name: | GCAL | Contract: | |
| Lab Code: | LA024 | SAS No.: | SDG No.: 211020809 |
| Calibration Source: | 195-46-7 INORGANIC VENTURES | Instrument ID: | ICAL ID: 3 |
| | | Date Analyzed: | Time: 2002 |

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|------------|-------|--------|--------|-------|--------------|------|
| Aluminum | 5.00 | 4.86 | 97 | mg/L | SW-846 6010C | P |
| Antimony | 0.500 | 0.479 | 96 | mg/L | SW-846 6010C | P |
| Arsenic | 0.500 | 0.4994 | 100 | mg/L | SW-846 6010C | P |
| Barium | 0.500 | 0.4876 | 98 | mg/L | SW-846 6010C | P |
| Beryllium | 0.500 | 0.4984 | 100 | mg/L | SW-846 6010C | P |
| Boron | 2.50 | 2.40 | 96 | mg/L | SW-846 6010C | P |
| Cadmium | 0.500 | 0.4924 | 98 | mg/L | SW-846 6010C | P |
| Calcium | 5.00 | 4.79 | 96 | mg/L | SW-846 6010C | P |
| Chromium | 0.500 | 0.4876 | 98 | mg/L | SW-846 6010C | P |
| Cobalt | 0.500 | 0.4863 | 97 | mg/L | SW-846 6010C | P |
| Copper | 0.500 | 0.5502 | 110 | mg/L | SW-846 6010C | P |
| Iron | 5.00 | 4.95 | 99 | mg/L | SW-846 6010C | P |
| Lead | 0.500 | 0.4942 | 99 | mg/L | SW-846 6010C | P |
| Lithium | 0.500 | 0.4973 | 99 | mg/L | SW-846 6010C | P |
| Magnesium | 5.00 | 4.91 | 98 | mg/L | SW-846 6010C | P |
| Manganese | 0.500 | 0.4836 | 97 | mg/L | SW-846 6010C | P |
| Molybdenum | 0.500 | 0.4838 | 97 | mg/L | SW-846 6010C | P |
| Nickel | 0.500 | 0.4905 | 98 | mg/L | SW-846 6010C | P |
| Potassium | 10.0 | 9.91 | 99 | mg/L | SW-846 6010C | P |
| Selenium | 0.500 | 0.4845 | 97 | mg/L | SW-846 6010C | P |
| Silicon | 5.00 | 5.00 | 100 | mg/L | SW-846 6010C | P |
| Silver | 0.500 | 0.4903 | 98 | mg/L | SW-846 6010C | P |
| Sodium | 20.0 | 19.4 | 97 | mg/L | SW-846 6010C | P |
| Strontium | 0.500 | 0.4808 | 96 | mg/L | SW-846 6010C | P |
| Thallium | 0.500 | 0.480 | 96 | mg/L | SW-846 6010C | P |
| Tin | 0.500 | 0.4618 | 92 | mg/L | SW-846 6010C | P |
| Titanium | 0.500 | 0.4943 | 99 | mg/L | SW-846 6010C | P |
| Vanadium | 0.500 | 0.4871 | 97 | mg/L | SW-846 6010C | P |
| Zinc | 0.500 | 0.5048 | 101 | mg/L | SW-846 6010C | P |
| Zirconium | 0.500 | 0.4841 | 97 | mg/L | SW-846 6010C | P |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

| | |
|--|--|
| Lab Name: <u>GCAL</u> | Contract: |
| Lab Code: <u>LA024</u> | SAS No.: _____ SDG No.: <u>211020809</u> |
| Calibration Source: <u>195-46-7 INORGANIC VENTURES</u> | Instrument ID: <u>ICP5</u> ICAL ID: <u>3</u> |
| | Date Analyzed: <u>02/17/11</u> Time: <u>0918</u> |

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|----------------|-------------|--------------|---------------|--------------|---------------|-------------|
| Aluminum | 5.00 | 4.82 | 96 | mg/L | SW-846 6010C | P |
| Antimony | 0.500 | 0.4665 | 93 | mg/L | SW-846 6010C | P |
| Arsenic | 0.500 | 0.472 | 94 | mg/L | SW-846 6010C | P |
| Barium | 0.500 | 0.4854 | 97 | mg/L | SW-846 6010C | P |
| Beryllium | 0.500 | 0.4939 | 99 | mg/L | SW-846 6010C | P |
| Boron | 2.50 | 2.44 | 98 | mg/L | SW-846 6010C | P |
| Cadmium | 0.500 | 0.4903 | 98 | mg/L | SW-846 6010C | P |
| Calcium | 5.00 | 4.67 | 93 | mg/L | SW-846 6010C | P |
| Chromium | 0.500 | 0.4851 | 97 | mg/L | SW-846 6010C | P |
| Cobalt | 0.500 | 0.4931 | 99 | mg/L | SW-846 6010C | P |
| Copper | 0.500 | 0.4706 | 94 | mg/L | SW-846 6010C | P |
| Iron | 5.00 | 4.91 | 98 | mg/L | SW-846 6010C | P |
| Lead | 0.500 | 0.4847 | 97 | mg/L | SW-846 6010C | P |
| Lithium | 0.500 | 0.4849 | 97 | mg/L | SW-846 6010C | P |
| Magnesium | 5.00 | 4.90 | 98 | mg/L | SW-846 6010C | P |
| Manganese | 0.500 | 0.4767 | 95 | mg/L | SW-846 6010C | P |
| Molybdenum | 0.500 | 0.476 | 95 | mg/L | SW-846 6010C | P |
| Nickel | 0.500 | 0.4878 | 98 | mg/L | SW-846 6010C | P |
| Potassium | 10.0 | 9.76 | 98 | mg/L | SW-846 6010C | P |
| Selenium | 0.500 | 0.4745 | 95 | mg/L | SW-846 6010C | P |
| Silicon | 5.00 | 4.93 | 99 | mg/L | SW-846 6010C | P |
| Silver | 0.500 | 0.4814 | 96 | mg/L | SW-846 6010C | P |
| Sodium | 20.0 | 19.4 | 97 | mg/L | SW-846 6010C | P |
| Strontium | 0.500 | 0.4839 | 97 | mg/L | SW-846 6010C | P |
| Thallium | 0.500 | 0.4819 | 96 | mg/L | SW-846 6010C | P |
| Tin | 0.500 | 0.4602 | 92 | mg/L | SW-846 6010C | P |
| Titanium | 0.500 | 0.4895 | 98 | mg/L | SW-846 6010C | P |
| Vanadium | 0.500 | 0.4871 | 97 | mg/L | SW-846 6010C | P |
| Zinc | 0.500 | 0.4761 | 95 | mg/L | SW-846 6010C | P |
| Zirconium | 0.500 | 0.478 | 96 | mg/L | SW-846 6010C | P |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

| | | |
|--|--------------------------------|---------------------------|
| Lab Name: <u>GCAL</u> | Contract: | |
| Lab Code: <u>LA024</u> | SAS No.: _____ | SDG No.: <u>211020809</u> |
| Calibration Source: <u>195-46-7 INORGANIC VENTURES</u> | Instrument ID: <u>ICP5</u> | ICAL ID: <u>3</u> |
| | Date Analyzed: <u>02/17/11</u> | Time: <u>1046</u> |

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|----------------|-------------|--------------|---------------|--------------|---------------|-------------|
| Aluminum | 5.00 | 4.86 | 97 | mg/L | SW-846 6010C | P |
| Antimony | 0.500 | 0.4803 | 96 | mg/L | SW-846 6010C | P |
| Arsenic | 0.500 | 0.5016 | 100 | mg/L | SW-846 6010C | P |
| Barium | 0.500 | 0.4937 | 99 | mg/L | SW-846 6010C | P |
| Beryllium | 0.500 | 0.501 | 100 | mg/L | SW-846 6010C | P |
| Boron | 2.50 | 2.48 | 99 | mg/L | SW-846 6010C | P |
| Cadmium | 0.500 | 0.5003 | 100 | mg/L | SW-846 6010C | P |
| Calcium | 5.00 | 4.70 | 94 | mg/L | SW-846 6010C | P |
| Chromium | 0.500 | 0.4925 | 99 | mg/L | SW-846 6010C | P |
| Cobalt | 0.500 | 0.496 | 99 | mg/L | SW-846 6010C | P |
| Copper | 0.500 | 0.5101 | 102 | mg/L | SW-846 6010C | P |
| Iron | 5.00 | 4.98 | 100 | mg/L | SW-846 6010C | P |
| Lead | 0.500 | 0.4959 | 99 | mg/L | SW-846 6010C | P |
| Lithium | 0.500 | 0.4941 | 99 | mg/L | SW-846 6010C | P |
| Magnesium | 5.00 | 4.97 | 99 | mg/L | SW-846 6010C | P |
| Manganese | 0.500 | 0.4872 | 97 | mg/L | SW-846 6010C | P |
| Molybdenum | 0.500 | 0.4889 | 98 | mg/L | SW-846 6010C | P |
| Nickel | 0.500 | 0.497 | 99 | mg/L | SW-846 6010C | P |
| Potassium | 10.0 | 9.91 | 99 | mg/L | SW-846 6010C | P |
| Selenium | 0.500 | 0.4878 | 98 | mg/L | SW-846 6010C | P |
| Silicon | 5.00 | 4.92 | 98 | mg/L | SW-846 6010C | P |
| Silver | 0.500 | 0.489 | 98 | mg/L | SW-846 6010C | P |
| Sodium | 20.0 | 20.1 | 100 | mg/L | SW-846 6010C | P |
| Strontium | 0.500 | 0.4994 | 100 | mg/L | SW-846 6010C | P |
| Thallium | 0.500 | 0.4933 | 99 | mg/L | SW-846 6010C | P |
| Tin | 0.500 | 0.4679 | 94 | mg/L | SW-846 6010C | P |
| Titanium | 0.500 | 0.4975 | 99 | mg/L | SW-846 6010C | P |
| Vanadium | 0.500 | 0.4937 | 99 | mg/L | SW-846 6010C | P |
| Zinc | 0.500 | 0.4834 | 97 | mg/L | SW-846 6010C | P |
| Zirconium | 0.500 | 0.486 | 97 | mg/L | SW-846 6010C | P |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

| | | | |
|---|-------------------------|----------------|--------------------|
| Lab Name: GCAL | Contract: | | |
| Lab Code: LA024 | Case No.: _____ | SAS No.: _____ | SDG No.: 211020809 |
| Calibration Source: 195-46-7 INORGANIC VENTURES | Instrument ID: ICP5 | ICAL ID: 3 | |
| | Date Analyzed: 02/17/11 | Time: 1239 | |

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|------------|-------|--------|--------|-------|--------------|------|
| Aluminum | 5.00 | 4.76 | 95 | mg/L | SW-846 6010C | P |
| Antimony | 0.500 | 0.4685 | 94 | mg/L | SW-846 6010C | P |
| Arsenic | 0.500 | 0.4889 | 98 | mg/L | SW-846 6010C | P |
| Barium | 0.500 | 0.4925 | 98 | mg/L | SW-846 6010C | P |
| Beryllium | 0.500 | 0.4916 | 98 | mg/L | SW-846 6010C | P |
| Boron | 2.50 | 2.43 | 97 | mg/L | SW-846 6010C | P |
| Cadmium | 0.500 | 0.4997 | 100 | mg/L | SW-846 6010C | P |
| Calcium | 5.00 | 4.63 | 93 | mg/L | SW-846 6010C | P |
| Chromium | 0.500 | 0.4889 | 98 | mg/L | SW-846 6010C | P |
| Cobalt | 0.500 | 0.4932 | 99 | mg/L | SW-846 6010C | P |
| Copper | 0.500 | 0.4917 | 98 | mg/L | SW-846 6010C | P |
| Iron | 5.00 | 4.97 | 99 | mg/L | SW-846 6010C | P |
| Lead | 0.500 | 0.4917 | 98 | mg/L | SW-846 6010C | P |
| Lithium | 0.500 | 0.4844 | 97 | mg/L | SW-846 6010C | P |
| Magnesium | 5.00 | 4.89 | 98 | mg/L | SW-846 6010C | P |
| Manganese | 0.500 | 0.4846 | 97 | mg/L | SW-846 6010C | P |
| Molybdenum | 0.500 | 0.4791 | 96 | mg/L | SW-846 6010C | P |
| Nickel | 0.500 | 0.4943 | 99 | mg/L | SW-846 6010C | P |
| Potassium | 10.0 | 9.70 | 97 | mg/L | SW-846 6010C | P |
| Selenium | 0.500 | 0.4756 | 95 | mg/L | SW-846 6010C | P |
| Silicon | 5.00 | 4.87 | 97 | mg/L | SW-846 6010C | P |
| Silver | 0.500 | 0.4817 | 96 | mg/L | SW-846 6010C | P |
| Sodium | 20.0 | 19.3 | 96 | mg/L | SW-846 6010C | P |
| Strontium | 0.500 | 0.4811 | 96 | mg/L | SW-846 6010C | P |
| Thallium | 0.500 | 0.481 | 96 | mg/L | SW-846 6010C | P |
| Tin | 0.500 | 0.4551 | 91 | mg/L | SW-846 6010C | P |
| Titanium | 0.500 | 0.4884 | 98 | mg/L | SW-846 6010C | P |
| Vanadium | 0.500 | 0.4904 | 98 | mg/L | SW-846 6010C | P |
| Zinc | 0.500 | 0.5038 | 101 | mg/L | SW-846 6010C | P |
| Zirconium | 0.500 | 0.4829 | 97 | mg/L | SW-846 6010C | P |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract: _____
Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211020809
Calibration Source: 195-40-7 CPI Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 02/08/11 Time: 1829

INITIAL CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---------|---------|---------|--------|-------|--------------|------|
| Mercury | 0.00500 | 0.00520 | 104 | mg/L | SW-846 7471B | AV |

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract: _____
Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211020809
Calibration Source: 195-40-6 EXAXOL Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 02/08/11 Time: 1832

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---------|---------|---------|--------|-------|--------------|------|
| Mercury | 0.00500 | 0.00510 | 101 | mg/L | SW-846 7471B | AV |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract: _____
Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211020809
Calibration Source: 195-40-6 EXAXOL Instrument ID: FIMS1 iCAL ID: 1
Date Analyzed: 02/08/11 Time: 1859

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---------|---------|---------|--------|-------|--------------|------|
| Mercury | 0.00500 | 0.00490 | 99 | mg/L | SW-846 7471B | AV |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract: _____
Lab Code: LA024 Case No.: _____ SDG No.: 211020809
Calibration Source: 195-40-6 EXAXOL Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 02/08/11 Time: 1918

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---------|---------|---------|--------|-------|--------------|------|
| Mercury | 0.00500 | 0.00490 | 98 | mg/L | SW-846 7471B | AV |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Lab Code: LA024 Case No.:
Calibration Source: 195-40-6 EXAXOL

Contract: _____
SAS No.: _____ SDG No.: 211020809
Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 02/09/11 Time: 1131

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---------|---------|---------|--------|-------|--------------|------|
| Mercury | 0.00500 | 0.00400 | 80 | mg/L | SW-846 7471B | AV |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract: _____
Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211020809
Calibration Source: 195-40-6 EXAXOL Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 02/09/11 Time: 1139

CONTINUING CALIBRATION VERIFICATION

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---------|---------|---------|--------|-------|--------------|------|
| Mercury | 0.00500 | 0.00480 | 95 | mg/L | SW-846 7471B | AV |

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

BLANKS

Lab Name: GCAL
 Lab Code: LA024 Case No.:
 Lab Sample ID: ICB
 Lab Sample DESC: ICB FOR HBN 450748 [ICP/6714]
 Instrument ID: ICP5

Contract: _____
 SAS No.: _____ SDG No.: 211020809
 ICAL ID: 2
 Preparation Blank Matrix: (soil / water)
 Date Analyzed: 02/15/11 Time: 1517

INITIAL CALIBRATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|---------|-------|---|-------|--------|-------|--------------|------|
| Lead | 0.015 | U | mg/L | 0.0014 | 0.015 | SW-846 6010C | P |

BLANKS

Lab Name: GCAL
 Lab Code: LA024 Case No.:
 Lab Sample ID: CCB
 Lab Sample DESC: CCB FOR HBN 450748 [ICP/6714]
 Instrument ID: ICP5

Contract: _____
 SAS No.: _____ SDG No.: 211020809
 ICAL ID: 2
 Preparation Blank Matrix: (soil / water) _____
 Date Analyzed: 02/15/11 Time: 1559

CONTINUING CALIBRATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|---------|-------|---|-------|--------|-------|--------------|------|
| Lead | 0.015 | U | mg/L | 0.0014 | 0.015 | SW-846 6010C | P |

BLANKS

Lab Name: GCAL
Lab Code: LA024 Case No.:
Lab Sample ID: CCB
Lab Sample DESC: CCB FOR HBN 450748 [ICP/6714]
Instrument ID: ICP5

Contract: _____
SAS No.: _____ SDG No.: 211020809
ICAL ID: 2
Preparation Blank Matrix: (soil / water)
Date Analyzed: 02/15/11 Time: 2109

CONTINUING CALIBRATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|---------|-------|---|-------|--------|-------|--------------|------|
| Lead | 0.015 | U | mg/L | 0.0014 | 0.015 | SW-846 6010C | P |

BLANKS

Lab Name: GCAL Contract: _____
Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211020809
Lab Sample ID: 919335 ICAL ID: 2
Lab Sample DESC: MB919335 Preparation Blank Matrix: (soil / water) Solid
Instrument ID: ICP5 Date Analyzed: 02/15/11 Time: 2116

PREPARATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|---------|-------|---|-------|-------|------|--------------|------|
| Lead | 0.072 | U | mg/kg | 0.072 | 0.60 | SW-846 6010C | P |

BLANKS

Lab Name: GCAL
 Lab Code: LA024 Case No.:
 Lab Sample ID: CCB
 Lab Sample DESC: CCB FOR HBN 450748 [ICP/6714]
 Instrument ID: ICP5

Contract: _____
 SAS No.: _____ SDG No.: 211020809
 ICAL ID: 2
 Preparation Blank Matrix: (soil / water)
 Date Analyzed: 02/15/11 Time: 2227

CONTINUING CALIBRATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|---------|-------|---|-------|--------|-------|--------------|------|
| Lead | 0.015 | U | mg/L | 0.0014 | 0.015 | SW-846 6010C | P |

BLANKS

Lab Name: GCAL
Lab Code: LA024 Case No.:
Lab Sample ID: CCB
Lab Sample DESC: CCB FOR HBN 450748 [ICP/6714]
Instrument ID: ICP5

Contract: _____
SAS No.: _____ SDG No.: 211020809
ICAL ID: 2
Preparation Blank Matrix: (soil / water) _____
Date Analyzed: 02/15/11 Time: 2338

CONTINUING CALIBRATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|---------|-------|---|-------|--------|-------|--------------|------|
| Lead | 0.015 | U | mg/L | 0.0014 | 0.015 | SW-846 6010C | P |

BLANKS

Lab Name: GCAL
 Lab Code: LA024 Case No.:
 Lab Sample ID: ICB
 Lab Sample DESC: ICB FOR HBN 450848 [ICP/6718]
 Instrument ID: ICP5

Contract: _____
 SAS No.: _____ SDG No.: 211020809
 ICAL ID: 3
 Preparation Blank Matrix: (soil / water)
 Date Analyzed: 02/16/11 Time: 1604

INITIAL CALIBRATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|-----------|---------|---|-------|---------|--------|--------------|------|
| Aluminum | 0.20 | U | mg/L | 0.044 | 0.20 | SW-846 6010C | P |
| Antimony | 0.060 | U | mg/L | 0.0040 | 0.060 | SW-846 6010C | P |
| Arsenic | 0.0026 | B | mg/L | 0.0025 | 0.010 | SW-846 6010C | P |
| Barium | 0.010 | U | mg/L | 0.00011 | 0.010 | SW-846 6010C | P |
| Beryllium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Cadmium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Calcium | 0.10 | U | mg/L | 0.026 | 0.10 | SW-846 6010C | P |
| Chromium | 0.010 | U | mg/L | 0.00034 | 0.010 | SW-846 6010C | P |
| Cobalt | 0.00040 | B | mg/L | 0.00040 | 0.010 | SW-846 6010C | P |
| Copper | 0.010 | U | mg/L | 0.0014 | 0.010 | SW-846 6010C | P |
| Iron | 0.10 | U | mg/L | 0.038 | 0.10 | SW-846 6010C | P |
| Lead | 0.015 | U | mg/L | 0.0014 | 0.015 | SW-846 6010C | P |
| Magnesium | 0.10 | U | mg/L | 0.014 | 0.10 | SW-846 6010C | P |
| Manganese | 0.015 | U | mg/L | 0.0012 | 0.015 | SW-846 6010C | P |
| Nickel | 0.040 | U | mg/L | 0.00096 | 0.040 | SW-846 6010C | P |
| Potassium | 0.50 | U | mg/L | 0.053 | 0.50 | SW-846 6010C | P |
| Selenium | 0.040 | U | mg/L | 0.0043 | 0.040 | SW-846 6010C | P |
| Silver | 0.010 | U | mg/L | 0.00060 | 0.010 | SW-846 6010C | P |
| Sodium | 1.00 | U | mg/L | 0.051 | 1.00 | SW-846 6010C | P |
| Thallium | 0.020 | U | mg/L | 0.0018 | 0.020 | SW-846 6010C | P |
| Vanadium | 0.0011 | B | mg/L | 0.00082 | 0.020 | SW-846 6010C | P |
| Zinc | 0.0028 | B | mg/L | 0.0027 | 0.020 | SW-846 6010C | P |

BLANKS

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Lab Sample ID: CCB
 Lab Sample DESC: CCB FOR HBN 450848 [ICP/6718]
 Instrument ID: ICP5

Contract: _____
 SAS No.: _____ SDG No.: 211020809
 ICAL ID: 3
 Preparation Blank Matrix: (soil / water) _____
 Date Analyzed: 02/16/11 Time: 1645

CONTINUING CALIBRATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|-----------|---------|---|-------|---------|--------|--------------|------|
| Aluminum | 0.20 | U | mg/L | 0.044 | 0.20 | SW-846 6010C | P |
| Antimony | 0.060 | U | mg/L | 0.0040 | 0.060 | SW-846 6010C | P |
| Arsenic | 0.010 | U | mg/L | 0.0025 | 0.010 | SW-846 6010C | P |
| Barium | 0.010 | U | mg/L | 0.00011 | 0.010 | SW-846 6010C | P |
| Beryllium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Cadmium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Calcium | 0.10 | U | mg/L | 0.026 | 0.10 | SW-846 6010C | P |
| Chromium | 0.010 | U | mg/L | 0.00034 | 0.010 | SW-846 6010C | P |
| Cobalt | 0.00056 | B | mg/L | 0.00040 | 0.010 | SW-846 6010C | P |
| Copper | 0.010 | U | mg/L | 0.0014 | 0.010 | SW-846 6010C | P |
| Iron | 0.10 | U | mg/L | 0.038 | 0.10 | SW-846 6010C | P |
| Lead | 0.015 | U | mg/L | 0.0014 | 0.015 | SW-846 6010C | P |
| Magnesium | 0.039 | B | mg/L | 0.014 | 0.10 | SW-846 6010C | P |
| Manganese | 0.015 | U | mg/L | 0.0012 | 0.015 | SW-846 6010C | P |
| Nickel | 0.0012 | B | mg/L | 0.00096 | 0.040 | SW-846 6010C | P |
| Potassium | 0.50 | U | mg/L | 0.053 | 0.50 | SW-846 6010C | P |
| Selenium | 0.040 | U | mg/L | 0.0043 | 0.040 | SW-846 6010C | P |
| Silver | 0.010 | U | mg/L | 0.00060 | 0.010 | SW-846 6010C | P |
| Sodium | 1.00 | U | mg/L | 0.051 | 1.00 | SW-846 6010C | P |
| Thallium | 0.020 | U | mg/L | 0.0018 | 0.020 | SW-846 6010C | P |
| Vanadium | 0.020 | U | mg/L | 0.00082 | 0.020 | SW-846 6010C | P |
| Zinc | 0.0042 | B | mg/L | 0.0027 | 0.020 | SW-846 6010C | P |

BLANKS

| | | | |
|------------------|-------------------------------|--|-----------------------------|
| Lab Name: | GCAL | Contract: | |
| Lab Code: | LA024 | Case No.: | SAS No.: SDG No.: 211020809 |
| Lab Sample ID: | CCB | ICAL ID: | 3 |
| Lab Sample DESC: | CCB FOR HBN 450848 [ICP/6718] | Preparation Blank Matrix: (soil / water) | |
| Instrument ID: | ICP5 | Date Analyzed: | 02/16/11 Time: 1723 |

CONTINUING CALIBRATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|-----------|---------|---|-------|---------|--------|--------------|------|
| Aluminum | 0.20 | U | mg/L | 0.044 | 0.20 | SW-846 6010C | P |
| Antimony | 0.060 | U | mg/L | 0.0040 | 0.060 | SW-846 6010C | P |
| Arsenic | 0.010 | U | mg/L | 0.0025 | 0.010 | SW-846 6010C | P |
| Barium | 0.010 | U | mg/L | 0.00011 | 0.010 | SW-846 6010C | P |
| Beryllium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Cadmium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Calcium | 0.10 | U | mg/L | 0.026 | 0.10 | SW-846 6010C | P |
| Chromium | 0.010 | U | mg/L | 0.00034 | 0.010 | SW-846 6010C | P |
| Cobalt | 0.00065 | B | mg/L | 0.00040 | 0.010 | SW-846 6010C | P |
| Copper | 0.010 | U | mg/L | 0.0014 | 0.010 | SW-846 6010C | P |
| Iron | 0.10 | U | mg/L | 0.038 | 0.10 | SW-846 6010C | P |
| Lead | 0.015 | U | mg/L | 0.0014 | 0.015 | SW-846 6010C | P |
| Magnesium | 0.10 | U | mg/L | 0.014 | 0.10 | SW-846 6010C | P |
| Manganese | 0.015 | U | mg/L | 0.0012 | 0.015 | SW-846 6010C | P |
| Nickel | 0.040 | U | mg/L | 0.00096 | 0.040 | SW-846 6010C | P |
| Potassium | 0.50 | U | mg/L | 0.053 | 0.50 | SW-846 6010C | P |
| Selenium | 0.040 | U | mg/L | 0.0043 | 0.040 | SW-846 6010C | P |
| Silver | 0.010 | U | mg/L | 0.00060 | 0.010 | SW-846 6010C | P |
| Sodium | 1.00 | U | mg/L | 0.051 | 1.00 | SW-846 6010C | P |
| Thallium | 0.020 | U | mg/L | 0.0018 | 0.020 | SW-846 6010C | P |
| Vanadium | 0.020 | U | mg/L | 0.00082 | 0.020 | SW-846 6010C | P |
| Zinc | 0.020 | U | mg/L | 0.0027 | 0.020 | SW-846 6010C | P |

BLANKS

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Lab Sample ID: 921589
 Lab Sample DESC: MB921589
 Instrument ID: ICP5

Contract: _____
 SAS No.: _____ SDG No.: 211020809
 ICAL ID: 3
 Preparation Blank Matrix: (soil / water) Solid
 Date Analyzed: 02/16/11 Time: 1730

PREPARATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|-----------|--------|---|-------|--------|------|--------------|------|
| Aluminum | 0.63 | U | mg/kg | 0.63 | 8.00 | SW-846 6010C | P |
| Antimony | 0.12 | U | mg/kg | 0.12 | 2.40 | SW-846 6010C | P |
| Arsenic | 0.088 | U | mg/kg | 0.088 | 1.60 | SW-846 6010C | P |
| Barium | 0.011 | U | mg/kg | 0.011 | 0.40 | SW-846 6010C | P |
| Beryllium | 0.0028 | U | mg/kg | 0.0028 | 0.20 | SW-846 6010C | P |
| Cadmium | 0.021 | B | mg/kg | 0.0098 | 0.20 | SW-846 6010C | P |
| Calcium | 0.92 | U | mg/kg | 0.92 | 30.0 | SW-846 6010C | P |
| Chromium | 0.012 | U | mg/kg | 0.012 | 0.40 | SW-846 6010C | P |
| Cobalt | 0.022 | U | mg/kg | 0.022 | 0.40 | SW-846 6010C | P |
| Copper | 0.033 | U | mg/kg | 0.033 | 0.40 | SW-846 6010C | P |
| Iron | 1.88 | B | mg/kg | 0.91 | 4.00 | SW-846 6010C | P |
| Lead | 0.17 | B | mg/kg | 0.072 | 0.60 | SW-846 6010C | P |
| Magnesium | 1.34 | U | mg/kg | 1.34 | 4.00 | SW-846 6010C | P |
| Manganese | 0.039 | U | mg/kg | 0.039 | 0.60 | SW-846 6010C | P |
| Nickel | 0.031 | U | mg/kg | 0.031 | 1.60 | SW-846 6010C | P |
| Potassium | 1.82 | U | mg/kg | 1.82 | 8.00 | SW-846 6010C | P |
| Selenium | 0.19 | U | mg/kg | 0.19 | 1.60 | SW-846 6010C | P |
| Silver | 0.035 | U | mg/kg | 0.035 | 0.40 | SW-846 6010C | P |
| Sodium | 3.51 | U | mg/kg | 3.51 | 40.0 | SW-846 6010C | P |
| Thallium | 0.10 | U | mg/kg | 0.10 | 0.80 | SW-846 6010C | P |
| Vanadium | 0.050 | U | mg/kg | 0.050 | 0.80 | SW-846 6010C | P |
| Zinc | 0.33 | U | mg/kg | 0.33 | 0.80 | SW-846 6010C | P |

BLANKS

Lab Name: GCAL
 Lab Code: LA024 Case No.:
 Lab Sample ID: CCB
 Lab Sample DESC: CCB FOR HBN 450848 [ICP/6718]
 Instrument ID: ICP5

Contract: _____
 SAS No.: _____ SDG No.: 211020809
 ICAL ID: 3
 Preparation Blank Matrix: (soil / water)
 Date Analyzed: 02/16/11 Time: 1845

CONTINUING CALIBRATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|-----------|---------|---|-------|---------|--------|--------------|------|
| Aluminum | 0.20 | U | mg/L | 0.044 | 0.20 | SW-846 6010C | P |
| Antimony | 0.060 | U | mg/L | 0.0040 | 0.060 | SW-846 6010C | P |
| Arsenic | 0.010 | U | mg/L | 0.0025 | 0.010 | SW-846 6010C | P |
| Barium | 0.010 | U | mg/L | 0.00011 | 0.010 | SW-846 6010C | P |
| Beryllium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Cadmium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Calcium | 0.10 | U | mg/L | 0.026 | 0.10 | SW-846 6010C | P |
| Chromium | 0.010 | U | mg/L | 0.00034 | 0.010 | SW-846 6010C | P |
| Cobalt | 0.010 | U | mg/L | 0.00040 | 0.010 | SW-846 6010C | P |
| Copper | 0.046 | | mg/L | 0.0014 | 0.010 | SW-846 6010C | P |
| Iron | 0.10 | U | mg/L | 0.038 | 0.10 | SW-846 6010C | P |
| Lead | 0.0030 | B | mg/L | 0.0014 | 0.015 | SW-846 6010C | P |
| Magnesium | 0.10 | U | mg/L | 0.014 | 0.10 | SW-846 6010C | P |
| Manganese | 0.015 | U | mg/L | 0.0012 | 0.015 | SW-846 6010C | P |
| Nickel | 0.040 | U | mg/L | 0.00096 | 0.040 | SW-846 6010C | P |
| Potassium | 0.50 | U | mg/L | 0.053 | 0.50 | SW-846 6010C | P |
| Selenium | 0.040 | U | mg/L | 0.0043 | 0.040 | SW-846 6010C | P |
| Silver | 0.00069 | B | mg/L | 0.00060 | 0.010 | SW-846 6010C | P |
| Sodium | 1.00 | U | mg/L | 0.051 | 1.00 | SW-846 6010C | P |
| Thallium | 0.020 | U | mg/L | 0.0018 | 0.020 | SW-846 6010C | P |
| Vanadium | 0.0015 | B | mg/L | 0.00082 | 0.020 | SW-846 6010C | P |
| Zinc | 0.013 | B | mg/L | 0.0027 | 0.020 | SW-846 6010C | P |

BLANKS

Lab Name: GCAL

Contract: _____

Lab Code: LA024 Case No.: _____

SAS No.: _____ SDG No.: 211020809

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 450848 [ICP/6718]

Preparation Blank Matrix: (soil / water) _____

Instrument ID: ICP5

Date Analyzed: 02/16/11 Time: 2008

CONTINUING CALIBRATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|-----------|--------|---|-------|---------|--------|--------------|------|
| Aluminum | 0.20 | U | mg/L | 0.044 | 0.20 | SW-846 6010C | P |
| Antimony | 0.0043 | B | mg/L | 0.0040 | 0.060 | SW-846 6010C | P |
| Arsenic | 0.010 | U | mg/L | 0.0025 | 0.010 | SW-846 6010C | P |
| Barium | 0.010 | U | mg/L | 0.00011 | 0.010 | SW-846 6010C | P |
| Beryllium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Cadmium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Calcium | 0.10 | U | mg/L | 0.026 | 0.10 | SW-846 6010C | P |
| Chromium | 0.010 | U | mg/L | 0.00034 | 0.010 | SW-846 6010C | P |
| Cobalt | 0.010 | U | mg/L | 0.00040 | 0.010 | SW-846 6010C | P |
| Copper | 0.049 | | mg/L | 0.0014 | 0.010 | SW-846 6010C | P |
| Iron | 0.10 | U | mg/L | 0.038 | 0.10 | SW-846 6010C | P |
| Lead | 0.0033 | B | mg/L | 0.0014 | 0.015 | SW-846 6010C | P |
| Magnesium | 0.10 | U | mg/L | 0.014 | 0.10 | SW-846 6010C | P |
| Manganese | 0.015 | U | mg/L | 0.0012 | 0.015 | SW-846 6010C | P |
| Nickel | 0.040 | U | mg/L | 0.00096 | 0.040 | SW-846 6010C | P |
| Potassium | 0.50 | U | mg/L | 0.053 | 0.50 | SW-846 6010C | P |
| Selenium | 0.040 | U | mg/L | 0.0043 | 0.040 | SW-846 6010C | P |
| Silver | 0.010 | U | mg/L | 0.00060 | 0.010 | SW-846 6010C | P |
| Sodium | 1.00 | U | mg/L | 0.051 | 1.00 | SW-846 6010C | P |
| Thallium | 0.020 | U | mg/L | 0.0018 | 0.020 | SW-846 6010C | P |
| Vanadium | 0.020 | U | mg/L | 0.00082 | 0.020 | SW-846 6010C | P |
| Zinc | 0.019 | B | mg/L | 0.0027 | 0.020 | SW-846 6010C | P |

BLANKS

Lab Name: GCAL
 Lab Code: LA024 Case No.:
 Lab Sample ID: CCB
 Lab Sample DESC: CCB FOR HBN 450848 [ICP/6718]
 Instrument ID: ICP5

Contract: _____
 SAS No.: _____ SDG No.: 211020809
 ICAL ID: 3
 Preparation Blank Matrix: (soil / water)
 Date Analyzed: 02/17/11 Time: 0924

CONTINUING CALIBRATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|-----------|--------|---|-------|---------|--------|--------------|------|
| Aluminum | 0.20 | U | mg/L | 0.044 | 0.20 | SW-846 6010C | P |
| Antimony | 0.060 | U | mg/L | 0.0040 | 0.060 | SW-846 6010C | P |
| Arsenic | 0.010 | U | mg/L | 0.0025 | 0.010 | SW-846 6010C | P |
| Barium | 0.010 | U | mg/L | 0.00011 | 0.010 | SW-846 6010C | P |
| Beryllium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Cadmium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Calcium | 0.10 | U | mg/L | 0.026 | 0.10 | SW-846 6010C | P |
| Chromium | 0.010 | U | mg/L | 0.00034 | 0.010 | SW-846 6010C | P |
| Cobalt | 0.010 | U | mg/L | 0.00040 | 0.010 | SW-846 6010C | P |
| Copper | 0.0042 | B | mg/L | 0.0014 | 0.010 | SW-846 6010C | P |
| Iron | 0.046 | B | mg/L | 0.038 | 0.10 | SW-846 6010C | P |
| Lead | 0.015 | U | mg/L | 0.0014 | 0.015 | SW-846 6010C | P |
| Magnesium | 0.10 | U | mg/L | 0.014 | 0.10 | SW-846 6010C | P |
| Manganese | 0.015 | U | mg/L | 0.0012 | 0.015 | SW-846 6010C | P |
| Nickel | 0.0016 | B | mg/L | 0.00096 | 0.040 | SW-846 6010C | P |
| Potassium | 0.50 | U | mg/L | 0.053 | 0.50 | SW-846 6010C | P |
| Selenium | 0.040 | U | mg/L | 0.0043 | 0.040 | SW-846 6010C | P |
| Silver | 0.010 | U | mg/L | 0.00060 | 0.010 | SW-846 6010C | P |
| Sodium | 1.00 | U | mg/L | 0.051 | 1.00 | SW-846 6010C | P |
| Thallium | 0.020 | U | mg/L | 0.0018 | 0.020 | SW-846 6010C | P |
| Vanadium | 0.0020 | B | mg/L | 0.00082 | 0.020 | SW-846 6010C | P |
| Zinc | 0.0092 | B | mg/L | 0.0027 | 0.020 | SW-846 6010C | P |

BLANKS

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Lab Sample ID: CCB
 Lab Sample DESC: CCB FOR HBN 450848 [ICP/6718]
 Instrument ID: ICP5

Contract: _____
 SAS No.: _____ SDG No.: 211020809
 ICAL ID: 3
 Preparation Blank Matrix: (soil / water) _____
 Date Analyzed: 02/17/11 Time: 1103

CONTINUING CALIBRATION BLANK

| Analyte | Conc. | C | Units | MDL | PQL | Method | Type |
|-----------|---------|---|-------|---------|--------|--------------|------|
| Aluminum | 0.20 | U | mg/L | 0.044 | 0.20 | SW-846 6010C | P |
| Antimony | 0.060 | U | mg/L | 0.0040 | 0.060 | SW-846 6010C | P |
| Arsenic | 0.010 | U | mg/L | 0.0025 | 0.010 | SW-846 6010C | P |
| Barium | 0.010 | U | mg/L | 0.00011 | 0.010 | SW-846 6010C | P |
| Beryllium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Cadmium | 0.0050 | U | mg/L | 0.00011 | 0.0050 | SW-846 6010C | P |
| Calcium | 0.10 | U | mg/L | 0.026 | 0.10 | SW-846 6010C | P |
| Chromium | 0.010 | U | mg/L | 0.00034 | 0.010 | SW-846 6010C | P |
| Cobalt | 0.010 | U | mg/L | 0.00040 | 0.010 | SW-846 6010C | P |
| Copper | 0.022 | | mg/L | 0.0014 | 0.010 | SW-846 6010C | P |
| Iron | 0.041 | B | mg/L | 0.038 | 0.10 | SW-846 6010C | P |
| Lead | 0.015 | U | mg/L | 0.0014 | 0.015 | SW-846 6010C | P |
| Magnesium | 0.10 | U | mg/L | 0.014 | 0.10 | SW-846 6010C | P |
| Manganese | 0.015 | U | mg/L | 0.0012 | 0.015 | SW-846 6010C | P |
| Nickel | 0.040 | U | mg/L | 0.00096 | 0.040 | SW-846 6010C | P |
| Potassium | 0.50 | U | mg/L | 0.053 | 0.50 | SW-846 6010C | P |
| Selenium | 0.040 | U | mg/L | 0.0043 | 0.040 | SW-846 6010C | P |
| Silver | 0.010 | U | mg/L | 0.00060 | 0.010 | SW-846 6010C | P |
| Sodium | 1.00 | U | mg/L | 0.051 | 1.00 | SW-846 6010C | P |
| Thallium | 0.020 | U | mg/L | 0.0018 | 0.020 | SW-846 6010C | P |
| Vanadium | 0.00086 | B | mg/L | 0.00082 | 0.020 | SW-846 6010C | P |
| Zinc | 0.0055 | B | mg/L | 0.0027 | 0.020 | SW-846 6010C | P |