



Sterling Environmental Engineering, P.C.

**SUPPLEMENTAL SITE INVESTIGATION
AND FOCUSED FEASIBILITY STUDY**

**FORMER PAULSEN-HOLBROOK SITE
ALBANY MIRON LUMBER CORP. PROPERTY**

**TOWN OF GUILDERLAND
ALBANY COUNTY, NEW YORK**

NYSDEC SITE #401046

Prepared For:

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54 Railroad Avenue
Albany, New York 12205

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TABLE OF CONTENTS

	<u>Page #</u>
EXECUTIVE SUMMARY	1
1.0 PREVIOUS INVESTIGATIONS	1
1.1 Site Description & Background	1
1.1.1 Remedial Investigations	2
1.1.2 Supplemental Field Investigations	2
1.2 Soil Investigation	2
1.3 Groundwater Monitoring and Sampling	3
1.4 Conclusions	4
1.5 Exposure Analysis	4
2.0 REMEDIAL ACTION OBJECTIVES	5
2.1 Remedial Goals	5
2.2 Applicable or Relevant and Appropriate Requirements (ARARs)	5
2.2.1 Chemical-Specific ARARs & TBCs	5
2.2.2 Action-Specific ARARs & TBCs	6
2.2.3 Site Specific Action Levels	7
3.0 REMEDIAL TECHNOLOGY SCREENING PROCESS	7
3.1 Identification & Screening of Technologies	7
3.1.1 Source Controls	8
3.2 Development of Remedial Alternatives	8
4.0 DETAILED EVALUATION OF ALTERNATIVES	10
4.1 Individual Analysis of Alternatives	11
4.1.1 Alternative 1: No Further Action	11
4.1.2 Alternative 2: Low Permeability Capping & Institutional Controls	11

4.1.3	Alternative 3: Soil Excavation & Off-Site Disposal	12
4.1.4	Alternative 4: In-Situ Soil Treatment	13
4.2	Comparative Analysis of Alternatives	14
4.2.1	Protection of Human Health and the Environment	14
4.2.2	Compliance with ARARs	14
4.2.3	Long-Term Effectiveness and Permanence	14
4.2.4	Reduction of Toxicity, Mobility, and Volume through Treatment	15
4.2.5	Short-Term Effectiveness	15
4.2.6	Implementability	15
4.2.7	Cost	15
5.0	RECOMMENDED REMEDIAL ALTERNATIVE	15

List of Figures

Figure 1:	Site Location Map
Figure 2:	Soil Screening Investigation Results
Figure 3:	Groundwater Monitoring Well Locations and Contour Elevations
Figure 4:	Clean Up Cost Comparison

List of Tables

Table 1:	Soil Investigation and Sampling Results
Table 2:	Groundwater Analyses Summary
Table 3:	Potential Exposure Pathways
Table 4:	Applicable or Relevant and Appropriate Requirements (ARARs)
Table 5A:	Cost Estimate, Alternative #2A: Low Permeability Capping (200 PPM Clean Up Goal)
Table 5B:	Cost Estimate, Alternative #2B: Low Permeability Capping (100 PPM Clean Up Goal)
Table 5C:	Cost Estimate, Alternative #2C: Low Permeability Capping (50 PPM Clean Up Goal)
Table 5D:	Cost Estimate, Alternative #2D: Low Permeability Capping (7.5 PPM Clean Up Goal)
Table 6A:	Cost Estimate, Alternative #3A: Excavation & Off-Site Disposal (200 PPM Clean Up Goal)
Table 6B:	Cost Estimate, Alternative #3B: Excavation & Off-Site Disposal (100 PPM Clean Up Goal)
Table 6C:	Cost Estimate, Alternative #3C: Excavation & Off-Site Disposal (50 PPM Clean Up Goal)
Table 6D:	Cost Estimate, Alternative #3D: Excavation & Off-Site Disposal (7.5 PPM Clean Up Goal)
Table 7A:	Cost Estimate, Alternative #4A: Soil Stabilization (200 PPM Clean Up Goal)
Table 7B:	Cost Estimate, Alternative #4B: Soil Stabilization (100 PPM Clean Up Goal)
Table 7C:	Cost Estimate, Alternative #4C: Soil Stabilization (50 PPM Clean Up Goal)
Table 7D:	Cost Estimate, Alternative #4D: Soil Stabilization (7.5 PPM Clean Up Goal)

List of Appendices

Appendix 1	Soil Sampling Analytical Reports
Appendix 2	Groundwater Sampling Analytical Reports
Appendix 3	Groundwater Sampling Field Parameter Measurements
Appendix 4	Remedies and Cleanup Goals for CCA Sites

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EXECUTIVE SUMMARY

This report is a Supplemental Site Investigation and Focused Feasibility Study (FFS) prepared by Sterling Environmental Engineering, P.C. (STERLING) for the Albany Miron Lumber Corp. property (Miron Lumber) located at 54 Railroad Avenue, Albany, New York, known as the former Paulsen-Holbrook site (NYSDEC Site #401046).

The metals Chromium, Copper and Arsenic are present at varying levels in surface soil. Chromium, Copper and Arsenic are the primary constituents of Chromated Copper Arsenate (CCA), a lumber preservative. Wood treatment and preservation operations were historically conducted on the site.

Based on the FFS analysis and intended use of the property, the recommended remedy for the site consists of soil management controls consisting of capping with low permeability soil or pavement, that will: 1) Minimize human exposure to surface soils; and 2) Minimize infiltration and leaching of metals into groundwater and surface water.

Soil containing elevated concentrations of CCA will remain on-site in designated areas. In addition to capping, institutional controls will be employed to minimize future exposure. Periodic groundwater monitoring will also continue.

On-site management of contaminated soil has been endorsed by the New York State Department of Environmental Conservation (NYSDEC) for properties with significant contamination by heavy metals, such as similar wood preservation sites and orchard land. Typically, contaminated soil is encapsulated under roads and parking areas, or covered so that human exposure to the soil is minimized. Such remedial measures are commonly employed, even when the intended future use of the property is residential.

The proposed remedy addresses all areas known to be contaminated with the metals of concern.

1.0 PREVIOUS INVESTIGATIONS

1.1 Site Description & Background

The Miron Lumber site consists of an approximate 8.8-acre parcel located at 54 Railroad Avenue in the Town of Guilderland, Albany County, New York (Figure 1). The Miron Lumber site is the subject of a February 2003 report prepared by Conestoga, Rovers & Associates (CRA) entitled "Site Investigation Report and Proposed Soils Remediation Plan". The site is also the subject of a Supplemental Site Investigation conducted in September and October 2004 undertaken by STERLING.

The Miron Lumber site has been vacant during most of the period since the early 1990s. Much of the site is covered by the warehouse building, an adjoining concrete retort pad, paved driveways, and concrete pads. Some areas of the site are unpaved.

The property and surrounding lands are supplied with public water.

Wood treatment and preservation operations were conducted on the subject site from the 1950s through the late 1970s, producing pressure-treated, insect-resistant wood. The treatment process utilized chromated copper arsenate (CCA), a blend of chromic acid (CrO_3), copper oxide (CuO) and arsenic acid (As_2O_5), all in a solution of water.

1.1.1 Remedial Investigations

Since 1989 various investigations of the property have been undertaken as follows:

1. Installation of shallow soil borings with collection and analyses of soil samples (Richard H. Burns, P.E., 1989);
2. Installation of five boreholes with soil sample collection and analyses and subsequent installation of monitoring wells (The Chazen Companies, August 1996);
3. Installation of shallow test pits (The Chazen Companies, December 1996);
4. Installation of 13 boreholes with collection and analyses of soil samples (The Chazen Companies, March 1999);
5. The Baseline Investigation (CRA, October 2001); and
6. Site Investigation Report and Proposed Soils Remediation Plan (CRA, February 2003).

These investigations and reports identify the presence of Chromium, Copper, and Arsenic in soil and groundwater. The south central portion of the site in the vicinity of the former wood preserving operation exhibited the most elevated levels.

The prior studies, while performed incrementally, address the requirements established by the NYSDEC for Remedial Investigations.

Subsequent to the February 2003 site investigation and report by CRA, the NYSDEC raised concerns that the delineation of impacted soils was not complete and requested additional definition of the distribution of CCA in surficial soils. Specifically, the NYSDEC required that all soils impacted in excess of Technical and Administrative Guidance Memorandum (TAGM) 4046 values be identified. The NYSDEC also requested that on-site groundwater monitoring wells be resampled. In August 2004, following negotiations with the NYSDEC, STERLING was retained to perform supplemental site investigations and prepare the Focused Feasibility Study (FFS). This work was completed in September and October 2004 as discussed in the following section.

1.1.2 Supplemental Field Investigations

Supplemental field investigations included: 1) Soil screening, sampling and analysis to delineate the lateral distribution of impacted soil within the uppermost soil; and 2) Resampling of existing on-site groundwater monitoring wells. The location and methodology of soil and on-site groundwater sampling were reviewed and approved by the NYSDEC prior to commencement of the supplemental field investigation. The supplemental field investigation is discussed below.

1.2 Soil Investigation

Field screening of the surficial soil layer was conducted with a portable XRF Analyzer to determine the Arsenic concentration boundary approaching the TAGM 4046 soil cleanup objective level of 7.5 parts per million (ppm) (Note: The NYSDEC proposed that Arsenic levels in soil serve as an indicator of impacted soils). This was accomplished by field screening of surficial soils adjacent to the previously identified primary source area and progressing outwardly. Once the outer boundary was field delineated, nine (9) surficial soil samples were collected at various locations and submitted for laboratory analysis for Arsenic, Chromium and Copper utilizing United States Environmental Protection Agency (USEPA) Method 6010/E200.7. Results of the soil screening and soil sample locations are summarized in Figure 2, "Soil Screening Investigation Results." Soil analyses results are summarized in Table 1 and the corresponding laboratory report is provided as Appendix 1.

Initial soil screening locations were laid out in a grid pattern near the Osmose Area. Subsequent locations were screened until Arsenic level readings approached the TAGM 4046 soil cleanup objective level of 7.5 ppm. Arsenic readings at levels above 200 ppm were recorded at screening locations north, south and east of the Osmose Area. An isolated hot spot was measured approximately 20 feet north of the Construction Equipment Division Building (Grid Location P4, Arsenic = 229 ppm). Screening locations where Arsenic levels approach the TAGM 4046 cleanup level of 7.5 ppm extend from the Osmose Area approximately 110 feet to the northeast and northwest and approximately 115 feet to the southeast. Field screening did not occur in soils that are located beneath the surrounding buildings.

Nine (9) soil samples (S-1 through S-9) were collected on September 23, 2004 at screening locations where Arsenic levels measured with the portable XRF Analyzer approached 7.5 ppm. The sampling locations are shown on Figure 2. Soil samples were collected from 0 to 2 inches below the asphalt pavement with a stainless steel spoon.

The laboratory data was very consistent with the field screening data.

1.3 Groundwater Monitoring and Sampling

Groundwater levels were measured and groundwater samples were collected for twelve (12) of the existing monitoring wells located on the site property. Two (2) existing monitoring wells, MW-15 and MW-16, located to the south and off the site property, were not sampled. With the exceptions of MW-8 and MW-9, groundwater was sampled by low-flow pumping, following USEPA sampling method guidelines and analyzed for Arsenic, Copper and Chromium. Monitoring wells, MW-8 and MW-9 with smaller diameter well casings required sampling with bailers. Groundwater sample results are summarized in Table 2 and the corresponding laboratory report is provided as Appendix 2. Groundwater levels were measured prior to sampling. Groundwater Contour Elevations are shown in Figure 3.

Groundwater elevations and flow direction are similar to measurements recorded in November 2003 by Conestoga-Rover Associates (CRA). The apparent groundwater flow is to the southeast towards Patroon Creek.

Twelve (12) monitoring wells (ML-1 through ML-5 and ML-8 through ML-14) were sampled October 1-5, 2004. Ten (10) wells were purged using low-flow pumping and samples were collected after field parameter measurements stabilized. Field parameter readings are provided in Appendix 3. Wells MW-8 and MW-9 were purged and sampled with bailers, as the small diameter risers precluded the use of the submersible pump.

Groundwater samples were collected from each well and submitted to Severn Trent Laboratories (STL) located in Newburgh, New York for analysis of total and dissolved Arsenic, Copper and Chromium (USEPA Method 200.7). In addition, a duplicate sample, matrix spike and matrix spike duplicate and equipment blank were collected. Results are summarized in Table 2 and the corresponding laboratory report is provided as Appendix 2.

Water samples observed above the NYSDEC Ambient Water Quality Standards (NYSDEC Standard) for total or dissolved Arsenic and Chromium (ML-2, ML-4, ML-5, ML-13 and ML-14) are generally downgradient from the source area with respect to groundwater flow. Water samples from ML-8 and ML-9, which are sidegradient, indicate levels above the NYSDEC Standard for total Arsenic, Copper and Chromium. Results for wells considered upgradient or sidegradient (ML-1, ML-3, ML-10, ML-11 and ML-12) indicate total and dissolved levels for the measured parameters below the NYSDEC Standards.

Compared with results from the November 2003 sampling event, the October 2004 water sample results indicate an improvement in water quality as follows:

- Wells ML-1, ML-3, ML-10 and ML-12 indicate parameter concentrations below the NYSDEC Standards and are significantly lower than past results.
- Wells ML-8 and ML-9 (bailed wells) are relatively unchanged.
- Wells ML-2R and ML-4 indicate lower total Arsenic levels, but higher dissolved Arsenic levels.
- Wells ML-5 and ML-13 show improved water quality, but concentrations remain above the NYSDEC Standards.
- Well ML-14 indicates lower Arsenic and Copper concentrations, but higher Chromium levels.

1.4 Conclusions

Field screening results for surface soils indicate Arsenic levels above the TAGM 4046 soil cleanup objective of 7.5 ppm in an area of approximately 1.5 acres, including the Osmose Area.

Groundwater concentrations for total and dissolved Arsenic, Copper and Chromium are improving overall and are generally lower or unchanged as compared with the November 2003 sampling results. Several on-site downgradient wells have parameter concentrations exceeding the NYSDEC Ambient Water Quality Standards, although off-site downgradient wells have parameter concentrations below the NYSDEC Ambient Water Quality Standards.

1.5 Exposure Analysis

The human health risk associated with Arsenic, Chromium and Copper depends entirely upon the potential for humans to be exposed to soil or groundwater containing these metals. Exposure can only occur when a mechanism, or exposure pathway, exists.

At the Miron Lumber site, there are two (2) affected media that represent potential exposure risks: 1) surface and subsurface soil; and 2) groundwater. There are few pathways by which human exposure is possible. Potential exposure pathways are summarized in Table 3.

Of the affected media and routes of exposure identified, only exposure to soil indicates a potential risk. Groundwater, while known to contain metals at elevated concentrations in certain on-site monitoring wells, does not display elevated concentrations in off-site monitoring wells. Further, groundwater at and near the site is not used for drinking or any other purpose and the entire area is served by municipal water. As such, there is no potential for direct exposure to humans.

On-site soil is the only affected medium included in the screening and evaluation of remedial alternatives. In Table 3, two soil exposure pathways are identified: 1) Ingestion or inhalation of contaminated soil or dust by on-site workers; and 2) Ingestion, inhalation, or dermal contact with contaminated soil or dust by future on-site construction workers.

2.0 REMEDIAL ACTION OBJECTIVES

The remedial goal is to reduce or eliminate risk to human health and the environment to the extent feasible. The remedial action will focus upon the identified substances of concern, namely Chromium, Copper and Arsenic. Further, the site consists of long-term industrial/heavy commercial use which predated the wood preservation activities and continues to date. This long-term use is taken into consideration in evaluating the predisposal condition.

Remedial action objectives reflect the results of the Remedial Investigation (RI) and applicable regulatory requirements and guidance, specifically the New York State recommended soil cleanup objectives. Remedial objectives are selected that will be protective of human health and the environment.

2.1 Remedial Goals

The Miron Lumber remedial action objectives are as follows:

- 1) Minimize exposure (inhalation, ingestion, and dermal contact) to soils containing unacceptable levels of Arsenic, Chromium and Copper.
- 2) Prevent degradation of off-site groundwater and stream quality resulting from movement of metals from soil into groundwater and surface water.

2.2 Applicable or Relevant and Appropriate Requirements (ARARs)

Applicable requirements are defined as cleanup standards or standards of control that specifically address a hazardous substance or contaminant detected at a New York State inactive hazardous waste disposal site. The NYSDEC defines applicable requirements as all Standards, Guidance and Criteria (SGCs) relevant to the site remedial alternatives. *Relevant and appropriate* requirements are Federal or State requirements that, while not applicable, address problems sufficiently similar to those encountered at Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) sites that their application is appropriate.

In addition to ARARs and SGCs, other Federal, State, and local criteria, advisories, or guidance may also apply to the conditions found at the site, and are known as *to-be-considered* (TBC) items. TBCs are not legally binding, but may be useful for assessing site risks and selecting site cleanup goals.

Chemical-specific ARARs provide guidance on acceptable or permissible contaminant concentrations in soil, air and water (Table 4).

2.2.1 Chemical-Specific ARARs and TBCs

New York State Groundwater Standards have been promulgated by the NYSDEC and apply to Class GA groundwater, which underlies the site and vicinity: The best usage of Class GA waters is as a source of potable water supply. Class GA waters are fresh groundwaters found in the saturated zone of unconsolidated deposits and consolidated rock or bedrock. Class GA groundwater standards are equivalent to the maximum contaminant levels (MCLs) established by the New York State Department of Health (NYSDOH) for public drinking water supplies, and are published in the New York Code of Rules and Regulations (NYCRR) Title 10 Chapter I (State Sanitary Code) Subpart 5-1. Class GA standards for the metals of concern are: Arsenic (25 parts per billion (ppb)); Chromium (50 ppb); and Copper (200 ppb).

New York State Recommended Soil Cleanup Objectives are TBCs published by the NYSDEC in TAGM #4046 [NYSDEC 1994]. This guidance outlines the basis and procedure for determining soil cleanup levels at inactive hazardous waste sites. The cleanup objectives apply to unsaturated soils above the water table for sites with future unrestricted use.

The Occupational Safety and Health Administration (OSHA) has promulgated *permissible exposure limits (PELs)* for workers for a variety of contaminants in the air (29 CFE 1910, Subpart Z). The PELs are *time-weighted average (TWA)* concentrations to which workers may be exposed over an 8-hour exposure period without adverse health effects. PELs and TWAs are intended for adult workers exposed in an occupational setting and are not directly applicable to CERCLA or New York inactive hazardous waste sites. The PELs and TWAs may be used as guidance values to determine whether long-term exposures to contaminants in air pose a potential human health risk.

The National Institute for Occupational Safety and Health (NIOSH) has developed concentrations for contaminants in the air that are *immediately dangerous to life or health (IDLH)* for individuals in occupational settings. The IDLH is the maximum concentration, in the event of respirator failure, that could be tolerated for 30 minutes without experiencing irreversible health effects. The IDLHs are appropriate only for subchronic exposures to noncarcinogenic compounds or effects of compounds in air. These values are not directly applicable to CERCLA or inactive hazardous waste sites; however, they may provide guidance regarding on-site workers. NIOSH also has *recommended exposure limits (RELs)* for each metal. An REL is generally a 10-hour time-weighted average based on toxicological and industrial hygiene data.

The American Conference of Governmental Industrial Hygienists (ACGIH) has developed threshold limit values (TLVs) for occupational settings. The TLV is a time-weighted average concentration of contaminant under which most people can work consistently for 8 hours per day, day after day, and avoid harmful effects.

2.2.2 Action-Specific ARARs and TBCs

The Resource Conservation and Recovery Act (RCRA) and the ***New York State Hazardous Waste Regulations*** deal with the treatment and disposal methods of hazardous wastes. Wastes generated on the site must be handled in accordance with the Federal hazardous waste regulations (40 CFR Part 260-268) promulgated under RCRA as well as New York State Hazardous Waste Regulations (6 NYCRR Parts 370-376), if applicable. Disposal to off-site landfills shall be in accordance with Federal and State land disposal restrictions. Determination of the presence and appropriate waste code for any hazardous wastes at the site will be made in accordance with 6 NYCRR Part 371 (Identification and Listing of Hazardous Wastes). If soils need to be removed from the site as hazardous, they will be assigned an appropriate waste classification based on the waste characterization analysis.

6 NYCRR Part 375 describes general provision for inactive hazardous waste disposal sites and remediation thereof. This regulation describes the procedure for conducting *Interim Remedial Measures (IRMs)*.

The Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), specifically Section 121, Subsections 104 and 106, states that the selected remedial alternative must attain a cleanup level that is protective of human health and the environment.

EPA Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA (EPA/540/G-89/004) establishes the methodology that the Superfund program has set up for characterizing the nature and extent of the risks posed by uncontrolled hazardous wastes sites and for

evaluating potential remedial options. This TBC would apply if the site were to become an USEPA Superfund-listed site.

2.2.3 Site Specific Action Levels

TAGM 4046 provides that future use of the property be considered in developing site specific action levels. The NYS Recommended Soil Cleanup Objectives presented in TAGM 4046 establish cleanup guidance values which assume future unrestricted use with a high likelihood of human exposure. The Miron Lumber property is currently developed with industrial/heavy commercial use. As such, it is appropriate the remedial program incorporate the continuation of this use into the development of site specific cleanup values.

The detailed evaluation of remedial alternatives examines a range of cleanup objectives from site background for each metal of concern to levels of 50 ppm, 100 ppm and 200 ppm for each individual metal. The extent of impacted soils requiring remediation are presented respectively on Figure 2. The alternatives are compared to one another at the varying cleanup objectives in order to evaluate the relative cost benefit of each.

TAGM 4046 states the following recommended soil cleanup objectives for sites with unrestricted use:

Parameter	TAGM (ppm) Recommended Cleanup Objective	Apparent Site Background (ppm)
Arsenic	7.5	7.5
Chromium	10	12.6
Copper	25	25

Various NYSDEC publications indicate background values for soil in New York State as:

Parameter	Typical NYS Background Range (ppm)
Arsenic	2.2 – 23.1
Chromium	11.2 – 51.2
Copper	5.8 – 64.8

In consideration of the future continued industrial/heavy commercial use, the property will not be unrestricted. In such cases, NYSDEC and Federal remedial decisions for sites contaminated with Arsenic, Copper and/or Chromium have utilized alternative, site specific cleanup values. Appendix 4 provides a summary of examples where significantly higher cleanup objectives were deemed appropriate.

3.0 REMEDIAL TECHNOLOGY SCREENING PROCESS

An initial screening is performed to develop a list of potentially applicable remedial technologies applicable to site conditions, contaminants, and contaminated media. Applicable technologies undergo a detailed analysis of alternatives.

3.1 Identification & Screening of Technologies

The screening of technology types and process options is discussed below. This screening was based on the criteria of effectiveness for treating impacted soils, and implementability.

3.1.1 Source Controls

Controls to prevent the continued migration of contaminants from source soils include institutional measures, containment, in-situ treatment, removal, on-site treatment, and disposal. These general response actions and the applicable technology types are described below.

Institutional Measures for addressing soil contamination can include use restrictions and deed restrictions to reduce the possibility of human contact with contaminants. Fencing will deter unauthorized access to contaminated soil/source areas on the site. Signs can be placed on the site to warn utility and construction workers of the contaminated soil and advise calling the NYSDEC prior to disturbance of the gravel surface. Deed restrictions will provide notice to prospective owners that certain uses and/or development of the site may be restricted without further remedial action, in the event the property should be transferred in the future.

Containment of contaminated soils in place will minimize human contact through capping. Much of the site is already paved or covered by buildings. Pavement will divert precipitation away from the contaminated area and reduce infiltration, reducing potential for contaminant leaching into groundwater.

In-Situ Treatment technologies include biological, thermal, and physical/chemical treatment processes. Many of these processes are innovative technologies, with unproven effectiveness. As a result, the need for treatability or pilot-scale studies often makes these technologies less economically feasible and impractical.

Excavation & Removal of contaminated soil above the water table can be accomplished with conventional construction equipment.

On-site Treatment of contaminated soils is sometimes employed, but is usually only economically feasible if large quantities of soil require treatment.

Disposal options for soil excavated from the site include on-site landfilling or off-site landfilling/treatment. Construction of a landfill on the site is not likely to be in compliance with ARARs.

3.2 Development of Remedial Alternatives

In accordance with NYSDEC's TAGM HWR-89-4025, Guidelines for Remedial Investigations/Feasibility Studies (NYSDEC 1989) and HWR- 90-4030, Selection of Remedial Actions at Inactive Hazardous Waste Sites (NYSDEC 1990), preliminary alternatives are evaluated against the criteria of effectiveness and implementability. The development and selection of remedial alternatives which address the New York State and National Contingency Plan requirements of feasibility studies are presented below. Each alternative is evaluated for implementation at cleanup objectives of site background, 50 ppm, 100 ppm and 200 ppm.

Alternative 1 is the No Further Action alternative, which will allow contaminated soil to be left in place. No monitoring of groundwater will be conducted in the future. This alternative will necessitate institutional controls, such as groundwater and land use restrictions, to minimize human contact with contaminated media. Signs will be posted to warn construction or utility workers to contact the NYSDEC before excavating.

Existing pavement and buildings will act as a low-permeability cap by diverting water away from some areas of contaminated soil, thereby reducing infiltration of surface water.

Alternative 2 consists of Low Permeability Capping & Institutional Controls.

Remediation by utilizing asphalt pavement and low-permeability capping over portions of the site in conjunction with some minor soil consolidation is proposed. The CCA impacted soils will be stabilized to control erosion by wind and storm water runoff.

Consolidation and covering the identified soil contamination with low-permeability pavement, clean soil or other materials, combined with appropriate storm water runoff controls, will: 1) Minimize potential contact with contaminated surface soil by on-site workers; and 2) Minimize leaching of metals by preventing infiltration of precipitation and storm water.

Under this remedy, all soil exceeding the specified action level will be covered in-place by asphalt pavement or other low-permeability material, which would be used as parking lots and roadways. The buildings will remain in place, effectively capping contaminated soil beneath the building. The buildings are suitable for industrial/heavy commercial uses. Such use or comparable use is expected to continue. Capping will minimize contact with contaminated soil, and the low-permeability pavement will be an effective barrier to infiltration of water into underlying soil. Paving and associated drainage controls will be employed to divert storm water from coming into contact with contaminated soil. Cutting off the recharge of precipitation water through impacted soils is an effective means of eliminating the continuing source. Groundwater use restrictions will be implemented, and institutional controls in the form of deed restrictions will disallow or significantly restrict future construction or other disturbance within designated areas of the site. This alternative also includes ongoing monitoring of on-site groundwater twice annually for at least two (2) years.

Alternative 3 includes excavation and off-site disposal of impacted soils, which will prevent continued leaching of contaminants to groundwater. Soil will be removed to a depth of one (1) foot in the identified excavation area and deeper in the identified hot spot area at the osmose pad. The buildings and underlying soil will remain in place.

Excavation will be conducted using conventional earthmoving equipment, such as backhoes, excavators and front-end loaders. For cost estimating purposes, it is assumed that post-excavation samples will be collected from the bottom of the excavation and analyzed for Arsenic, Chromium and Copper. The excavation will be backfilled with suitable clean fill material, then left unpaved.

This alternative also includes long-term groundwater monitoring. The buildings will require institutional controls to prevent future disturbance or exposure to contaminated soils remaining on-site.

Alternative 4 includes in-situ treatment of contaminated soil. A variety of in-situ treatment technologies have been developed for soils contaminated with metals. Under this approach, metals-contaminated soil remain, and one or more of four (4) primary soil treatment approaches are employed: 1) electrokinetic remediation; 2) phytoremediation; 3) soil flushing; and 4) solidification/stabilization. These are described as follows:

Electrokinetic techniques rely on the application of low-intensity direct current between electrodes placed in the soil, which mobilizes charged ions, causing them to move toward the electrodes, where they are removed and subsequently treated aboveground. Most experience with this technology is limited to bench and pilot scale studies. Because of limited performance data for electrokinetic remediation for metals, and because inadequate soil moisture in the vadose zone can limit its effectiveness, this approach is not considered a viable alternative.

Phytoremediation techniques include both phytoextraction, which relies on uptake of metals and subsequent harvesting, and phytostabilization, which relies on plant secretions that form metal complexes with reduced solubility. Phytoremediation for Copper, Chromium and Arsenic have not been adequately developed, and for these reasons, phytoremediation is not considered a viable alternative. Additionally, the use of plantings for remediation of soils are potentially not suitable for an industrial setting.

Soil flushing involves extraction of metals from soil using water or other suitable aqueous agents. Leached contaminants are typically recovered from the underlying groundwater via pump-and-treat methods.

Solidification and stabilization involves changes to the physical or chemical properties of the soil in order to immobilize contaminants.

The stabilization technique potentially appropriate for this site utilizes cement dust and/or coal ash, which is spread on and disked into the surficial soil in contaminated areas. The introduction of these materials into the soil reduces the pH of the soil and binds the metals within the soils matrix.

This treatment option may be used for the entire site or may be used in any areas not being considered for roadways, parking areas or buildings.

Alternative 4 also includes long-term groundwater monitoring. The buildings and areas designated for in-situ treatment might require institutional controls to prevent future disturbance to contaminated soils remaining on-site.

4.0 DETAILED EVALUATION OF ALTERNATIVES

This section presents an evaluation of the remedial alternatives described in Section 3.0. The purpose of the evaluation is to identify the advantages and disadvantages of each alternative as well as key trade-offs among the alternatives. The criteria used to evaluate the alternatives are specified in the USEPA guidance (USEPA 1988), which is accepted by the NYSDEC, and are as follows:

- Overall Protection of Human Health and the Environment
- Compliance with ARARs
- Long-Term Effectiveness and Permanence
- Reduction of Toxicity, Mobility and Volume through Treatment
- Short-Term Effectiveness
- Implementability
- Cost

Community and State acceptance are also considered after public comments have been received on the Supplemental Site Investigation/Focused Feasibility Study report and proposed remedial action plan. The Record of Decision (ROD) for the site will address community and State acceptance.

Each alternative is evaluated for the following action levels based on Arsenic distribution in soil:

- 7.5 ppm
- 50 ppm
- 100 ppm
- 200 ppm

4.1 Individual Analysis of Alternatives

4.1.1 Alternative 1: No Further Action

Protection of Human Health and the Environment. There is no demonstrated off-site impact due to the site, and potential exposure to groundwater via drinking water wells does not exist. Alternative 1 is protective of human health through the use of institutional measures (groundwater use restrictions) to prevent human contact with the contaminants that will remain at the site and in the groundwater; however, the potential for human exposure to the soil contaminants will remain. Remaining contaminants in surface soil may be inhaled or directly contacted by workers that excavate in this area.

Compliance With ARARs. Chemical-specific ARARs and TBCs for the site, including the New York State soil cleanup objectives and the Class GA groundwater standards, will not be achieved.

Long-Term Effectiveness and Permanence. As the no further action alternative, Alternative 1 does not provide a permanent remedy.

Reduction of Toxicity, Mobility and Volume through Treatment. While groundwater quality appears to be improving, implementation of Alternative 1 will not result in a reduction of toxicity, mobility or volume of contamination present at the site.

Short-Term Effectiveness. As the no further action alternative, Alternative 1 does not provide a high degree of short-term effectiveness.

Implementability. Institutional controls, such as deed restrictions, are straightforward to implement.

Cost. Estimated capital and long-term Operation and Maintenance (O&M) costs for Alternative 1 are presumed to be zero.

4.1.2 Alternative 2: Low Permeability Capping & Institutional Controls

Protection of Human Health and the Environment. Alternative 2 will eliminate direct exposure to public health and environment by placing a permanent soil and/or paved cap over contaminated surface soil. The cap also provides for effective source control and is protective of groundwater by preventing storm water from coming into contact with underlying impacted soil. Alternative 2 is further protective of human health through the use of groundwater use restrictions and deed restrictions to prevent human contact with contaminants that will remain at the site and in the soil and groundwater.

Compliance With ARARs. Chemical-specific ARARs and TBCs for the site, including the New York State soil cleanup objectives and the Class GA groundwater standards, will not be achieved for unrestricted use where the highest and best use is presumed residential. However, as this site has been a long-term industrial/heavy commercial site and will have restricted use, alternative site specific cleanup objectives can be established.

Long-Term Effectiveness and Permanence. Alternative 2 provides a high degree of effectiveness and permanence. Institutional controls ensure that the encapsulated areas and drainage controls are properly maintained, and prevent future disturbance or construction within the capped area without further remediation.

Reduction of Toxicity, Mobility and Volume through Treatment. Alternative 2 provides effective source control by preventing the mobility of subsurface metals by preventing infiltration of water. Surface wind and water erosion of impacted soils will also be prevented.

Short-Term Effectiveness. Alternative 2 will be immediately effective, in that the potential for worker exposure to surface soil is eliminated. Soil disturbance at this site could temporarily result in potential exposure to on-site workers through the generation of contaminated dust and metals emission. Controls will be implemented during the excavation phase to reduce the risk of exposure to contaminants.

Implementability. Alternative 2 is readily implemented. Implementation of remedial measures can be incorporated into future construction. Groundwater use restrictions and deed restrictions will be arranged by the owner through the NYSDEC.

Cost. Estimated capital costs for Alternative 2 vary with soil cleanup objectives. Tables 5A-D represent the cost to remediate to site background conditions, 50 ppm, 100 ppm and 200 ppm of Arsenic. Figure 4 provides a relative comparison to closing at alternative cleanup values. Long-term monitoring and maintenance costs include pavement maintenance and groundwater monitoring.

4.1.3 Alternative 3: Soil Excavation & Off-Site Disposal

Protection of Human Health and the Environment. Alternative 3 includes remediation through excavation and off-site disposal of contaminated soils and monitoring groundwater in on-site monitoring wells. This alternative will reduce further leaching of metals into groundwater, and will eliminate the potential health risk posed by human contact with contaminated soil. A major drawback of excavation is the potential exposure of on-site workers and remediation personnel to metals via ingestion and inhalation of airborne dust during excavation, loading and off-site transport. Site access and egress are via Railroad Avenue, which passes through a developed commercial area. There is also a high potential for spread of metals via soil erosion. Appropriate measures must be incorporated into any excavation/disposal work plan to prevent human exposure.

For groundwater, Alternative 3 is protective of human health through the use of institutional measures to reduce human contact with the contaminants in groundwater. Long-term groundwater monitoring is included in this alternative to assess whether contaminants are moving off-site.

Compliance With ARARs. By removing contaminated soil from the site, Alternative 3 would achieve chemical-specific ARARs and TBCs, including New York State soil cleanup objectives in those areas where soil is excavated. Although some improvement in local groundwater quality may be expected under Alternative 3, Class GA groundwater standards will probably not be achieved.

Long-Term Effectiveness and Permanence. Alternative 3 provides a high degree of effectiveness and permanence.

Reduction of Toxicity, Mobility, and Volume through Treatment. Alternative 3 will reduce the volume of contaminated soil by virtually 100% in those areas which are excavated.

Short-Term Effectiveness. Alternative 3 will be immediately effective, in that the potential for human exposure to surface soil would be eliminated. Soil excavation at the site during remediation has the potential to temporarily result in potential adverse health effects for on-site workers through the generation of contaminated dust and metals emission. Controls will be implemented during the excavation phase to reduce the risk of exposure to contaminants.

Implementability. Excavation and backfilling are commonly applied technologies at hazardous waste sites and do not require special equipment or operators. However, off-site transport of excavated wastes may not be possible given current market conditions. Recent canvassing of permitted facilities in southern New York indicate that, local landfills such as the City of Albany and Town of Colonie are not available for contaminated soil. Until additional disposal capacity becomes available in southern New York, this alternative does not appear feasible. Institutional controls for groundwater use restrictions may be established by the owner in consultation with the NYSDEC. Long-term groundwater monitoring and sampling are also readily accomplished.

Cost. Estimated capital costs for Alternative 3 vary widely with cleanup objective due primarily with the estimated soil volume requiring off-site management. Tables 6A-D represent the cost to remediate to site background conditions 50 ppm, 100 ppm, and 200 ppm of Arsenic. Figure 4 provides a relative comparison to closing at alternate cleanup values. Long-term monitoring and maintenance costs include groundwater monitoring.

4.1.4 Alternative 4: In-Situ Soil Treatment

Protection of Human Health and the Environment. This alternative will reduce further leaching of metals into groundwater, and will eliminate the potential health risk posed by human contact with contaminated soil. Phytoextraction techniques could lead to ingestion of contaminated plants by herbivores. Applicability of soil flushing is site specific, and is not applicable on sites where contamination might spread via groundwater movement.

For groundwater, Alternative 4 is protective of human health through the use of institutional measures to reduce human contact with the contaminants in groundwater. Long-term groundwater monitoring is included in this alternative to assess whether contaminants are moving off-site.

Compliance With ARARs. Because most in situ remediation techniques do not remove metals from the soil, it is questionable whether Alternative 4 will achieve chemical-specific ARARs and TBCs, including New York State soil cleanup objectives. Although some improvement in local groundwater quality may be expected under Alternative 4, Class GA groundwater standards will probably not be achieved.

Long-Term Effectiveness and Permanence. Long-term effectiveness and permanence for most in-situ remediation techniques are unproven or inconclusive and would need bench and pilot scale studies.

Reduction of Toxicity, Mobility, and Volume through Treatment. Alternative 4 is designed to significantly reduce the mobility of contaminated soil. The toxicity may not be significantly reduced. Volume will not be reduced.

Short-Term Effectiveness. Alternative 4 will be immediately effective, in that the potential for metal mobility will be significantly reduced. Exposure to soils during remediation could temporarily result in potential adverse health effects for on-site workers through the generation of contaminated dust and metals emission. Controls would be implemented during the excavation phase to reduce the risk of exposure to contaminants.

Implementability. Most in-situ remediation techniques have not been available commercially for very long. Because all in-situ methods are highly site-specific, bench or pilot scale tests would precede full-scale remediation. This would significantly delay the remediation of the site.

Institutional controls for groundwater use restrictions may be established by the owner in consultation with the NYSDEC. Long-term groundwater monitoring and sampling are also readily accomplished.

Cost. Estimated capital costs for stabilization vary with cleanup objective. Tables 7A-D present the cost for remediation to site background conditions 50 ppm, 100 ppm and 200 ppm of Arsenic. Figure 4 presents a relative comparison to closing at alternate cleanup values. Long-term monitoring and maintenance costs include groundwater monitoring.

4.2 Comparative Analysis of Alternatives

In the previous section, each of the remedial alternatives is individually evaluated with respect to seven (7) criteria. The comparative performance of the alternatives are now evaluated where common elements exist among alternatives.

4.2.1 Protection of Human Health and the Environment

Alternative 1 provides the least protection of human health, as workers excavating unprotected contaminated soil may be exposed to metal contaminants. Airborne dust will be a potential threat. Institutional measures may be implemented to prevent human exposure to contaminants in the area of concern. In comparison to Alternative 1, Alternative 2 provides significantly greater protection to the community by eliminating the potential for direct exposure to contaminated soil, and by minimizing contact between storm water and contaminated soil, thereby controlling the source and protecting groundwater. Alternatives 3 and 4 will also eliminate exposure pathways to contaminants in soil and minimize leaching of metals into groundwater. Alternative 3, however, will entail complete disturbance of contaminated soil over a period of many weeks while soil is excavated, loaded and transported off-site, which will create significant exposure potential for on-site workers.

4.2.2 Compliance With ARARs

Alternative 2 will effectively control the source and eliminate potential exposure pathways of soil and groundwater ingestion, dermal contact and dust inhalation. Alternatives 1, 2 and 4 will not result in compliance with chemical-specific ARARs and TBCs for New York State soil cleanup objectives. Alternative 3 (off-site soil disposal) will result in compliance with ARARs and TBCs.

4.2.3 Long-Term Effectiveness and Permanence

Alternative 1 provides the least long-term effectiveness and permanence. Alternative 2 provides immediate effectiveness by eliminating all potential on-site exposure pathways. Incorporating remedial measures into new commercial development of the site ensures that the remedy is consistent with site use, reducing the likelihood that future use of the site will conflict with remedial actions. Alternative 3 provides immediate effectiveness by transporting metal contaminants off-site. The long-term effectiveness of Alternative 4 is less certain, and will depend, in part, on soil characteristics and on selection of the most appropriate treatment/immobilization methods indicated by pre-remediation pilot studies.

4.2.4 Reduction of Toxicity, Mobility and Volume Through Treatment

Alternatives 1 and 2 do not achieve a reduction in the toxicity or volume of contamination, but Alternative 2 will provide effective source control by reducing the mobility of metals in soil by preventing infiltration of water, thereby reducing the potential for leaching. Alternative 3 will reduce the volume of contaminants. Alternative 4 will reduce contaminant mobility, but not toxicity or volume.

4.2.5 Short-Term Effectiveness

Alternatives 2, 3 and 4 will all be immediately effective by eliminating direct exposure pathways affecting on-site receptors. Institutional controls, once implemented, would also prevent exposure short-term and long-term. No short-term adverse impacts will result from the implementation of Alternative 1. Alternatives 2 and 4 will have minimal potential short-term adverse impacts, but only for a short period during active handling of contaminated soil in preparation for paving (Alternative 2) or during treatment of surface soil (Alternative 4). Alternative 3 will have the most significant adverse effects in the short term as the potential for airborne dust movement will extend over the entire period of soil excavation, loading and transport.

4.2.6 Implementability

Alternative 1 is the easiest alternative to implement. Alternative 2 is the next easiest alternative to implement as it involves standard materials, techniques and equipment. Alternative 2 will require long-term maintenance of new paved surfaces and drainage features. Alternatives 2 and 3 involve standard techniques and equipment, but will require extensive monitoring and control of fugitive dust, storm water and sediment during the remediation process. Alternative 4 involves specialized equipment for mixing and applying stabilizing agents to the soil. Alternative 4 would also be preceded by bench- or pilot-scale tests to determine the applicability and effectiveness of various soil treatment methods.

4.2.7 Cost

Alternative 1, the no further action alternative, has an estimated capital cost of zero. The capital costs for each alternative varies significantly with cleanup objective. Figure 4 compares the capital cost of each alternative effectuated at cleanup objectives of site background, 50 ppm, 100 ppm, and 200 ppm.

5.0 RECOMMENDED REMEDIAL ALTERNATIVE

Based on the FFS analysis and intended use of the property, the recommended remedy for the site consists of soil management controls, including low permeability capping, that will: 1) Minimize human exposure to surface soils; and 2) Minimize infiltration and leaching of metals into groundwater and surface water. These soil management controls are readily implemented.

Soil containing elevated concentrations of CCA will remain on-site in designated areas. In addition to capping, institutional controls will also be employed to minimize future exposure. Periodic groundwater and surface water monitoring will also continue.

On-site management of contaminated soil has been endorsed by the NYSDEC for properties with significant contamination by heavy metals, such as similar wood preservation sites and orchard land. On those sites, which typically exhibit higher concentrations of metals, contaminated soil is encapsulated under roads and parking areas, or covered so that human exposure to the soil is minimized. Such remedial measures are commonly employed, even when the intended future use of the property is

residential.

The proposed remedy addresses all areas known to be contaminated with the metals of concern.

Alternative 2 will improve groundwater quality over time by eliminating percolation of precipitation through CCA-impacted soils. Adjacent areas are served by municipal water, and are not, therefore, exposed to any CCA-impacted groundwater.

Capping contaminated soil beneath permanent parking lots and buildings will eliminate erosion of contaminated surface soil, which will provide sufficient stream protection.

While Alternative 2 effectively caps contaminated soil exceeding site background for the individual metals of concern, disturbance of contaminated areas may necessitate that dust and erosion control measures be incorporated into any future site development.

The institutional controls under Alternative 2 will permanently eliminate potential exposure to metals in groundwater and soil on-site. For these reasons, Alternative 2 is the preferred remedial option for the site.

21061/Reports/Focused Feasibility Study/FFS__text_revJan2005.doc

FIGURES



MAP REFERENCE: NYSDOT ALBANY QUADRANGLE, 1993

STERLING

Sterling Environmental Engineering, P.C.

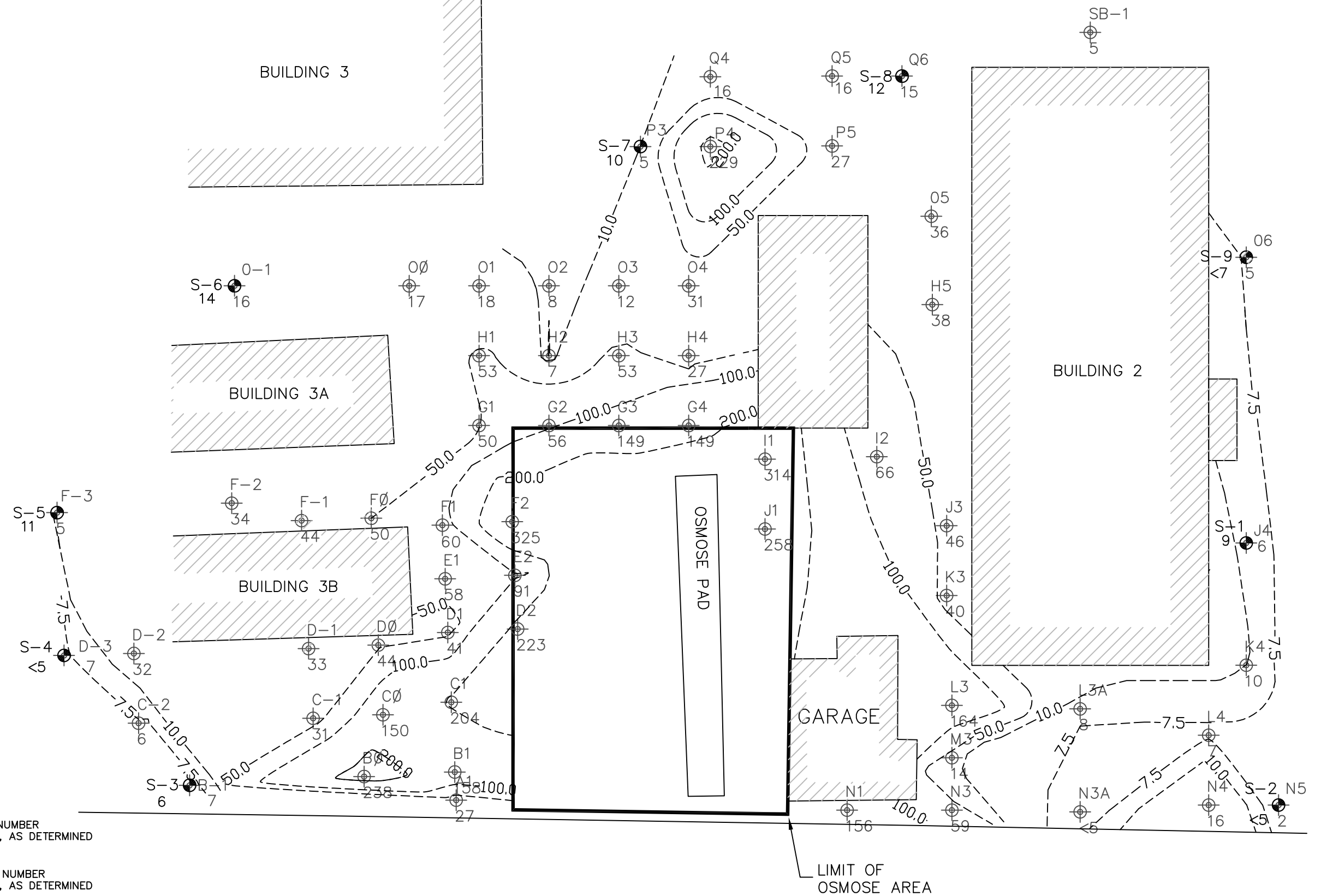
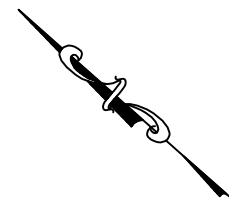
24 Wade Road • Latham, New York 12110

SITE LOCATION MAP
ALBANY MIRON LUMBER CORP.

TOWN OF GUILDERLAND

ALBANY CO., N.Y.

PROJ. No.: 21061 | DATE: 10/25/04 | SCALE: 1" = 2000' | DWG. NO. 21061003 | FIGURE 1



LEGEND:

- S-2 15 ● SOIL SAMPLING LOCATION (BOTTOM NUMBER REPRESENTS ARSENIC LEVEL IN PPM, AS DETERMINED BY LABORATORY RESULTS)
- N5 ⊕ SOIL SCREENING LOCATION (BOTTOM NUMBER REPRESENTS ARSENIC LEVEL IN PPM, AS DETERMINED BY FIELD SCREENING)

- - - - - ARSENIC FIELD SCREENING CONCENTRATION ISOPLETH (PPM)

NOTE:

- 1) BASE MAP SOURCE: SOILS REMEDIATION WORK PLAN (DRAFT) - ALBANY MIRON LUMBER: FIGURE 2.1 - "LOCATIONS OF HOTSPOT SOILS", BY CONESTOGA-ROVERS & ASSOCIATES DATED 10/17/2002
- 2) WHERE LABORATORY DATA AND SCREENING DATA ARE AVAILABLE FOR ONE POINT, THE LABORATORY RESULTS ARE USED TO DETERMINE THE ISOPLETHS. WHERE LABORATORY DATA IS NOT AVAILABLE, ISOPLETH CONTOURS ARE DETERMINED BY FIELD SOIL SCREENING VALUES.
INSTRUMENT SENSITIVITY: +/-7 PPM MAX

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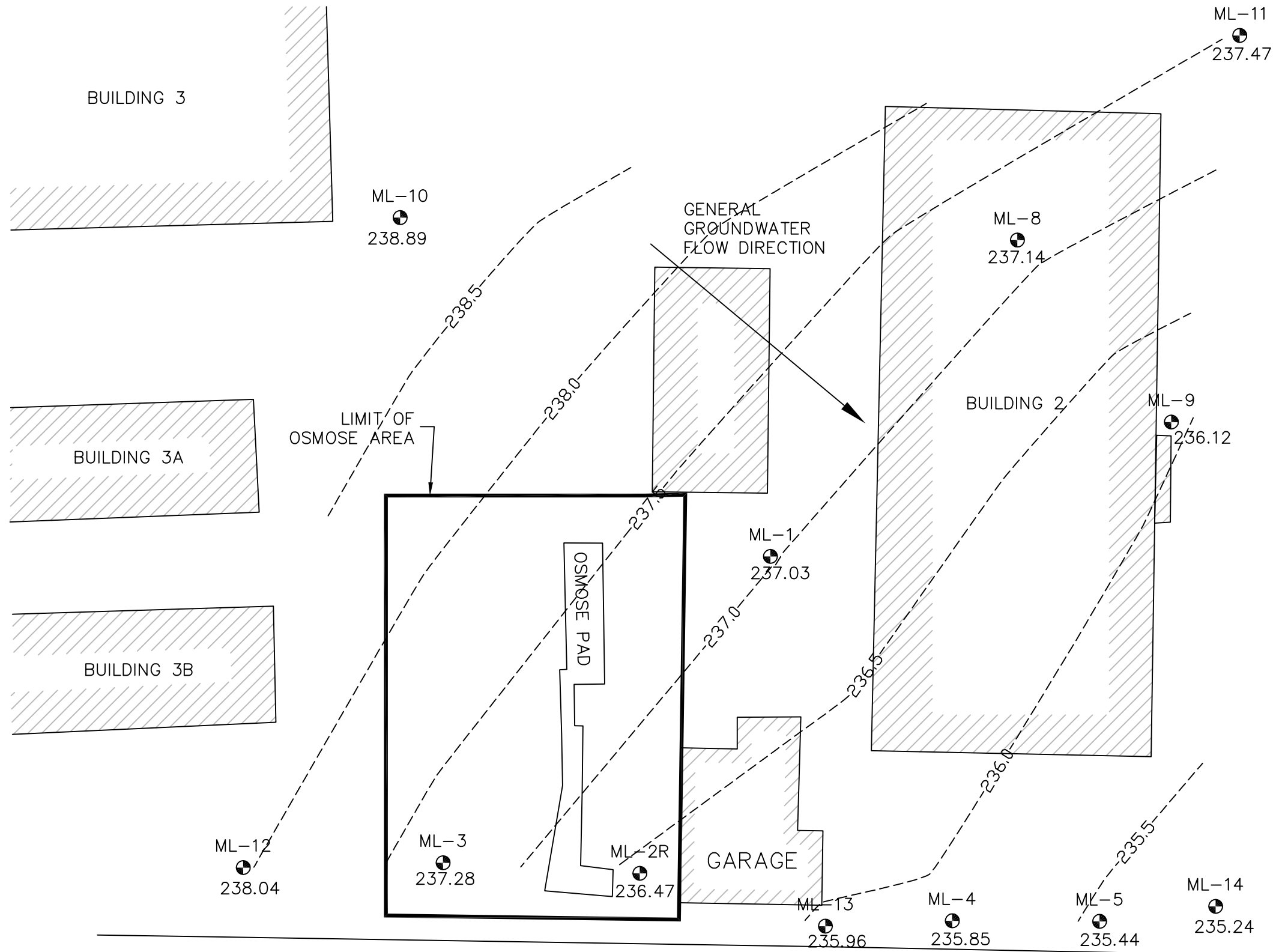
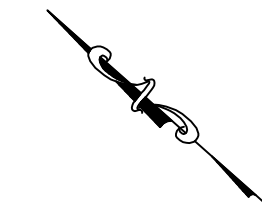
SOIL SCREENING INVESTIGATION RESULTS
9/21/04 - 9/23/04

ALBANY MIRON LUMBER CORP.

TOWN OF GUILDERLAND

ALBANY CO., N.Y.

PROJ. No.: 21061 | DATE: 9/28/04 | SCALE: 1" = 30' | DWG. NO. 21061001 | FIGURE 2



MONITORING WELL	TOP OF CASING(2) ELEV (FT ASML)	GROUND ELEV.(2) (FT ASML)	GROUNDWATER ELEVATION (10/01/04) (FT ASML)
ML-1	249.57	250.0	237.03
ML-2R	249.57	250.0	236.47
ML-3	250.04	250.5	237.28
ML-4	248.24	248.6	235.85
ML-5	247.51	248.0	235.44
ML-8	249.96	250.0	237.14
ML-9	248.42	248.6	236.12
ML-10	251.83	252.2	238.89
ML-11	248.71	249.1	237.47
ML-12	250.68	251.1	238.04
ML-13	249.57	250.0	235.96
ML-14	247.16	247.5	235.24

LEGEND:

ML-12 GROUNDWATER MONITORING WELL
238.04 GROUNDWATER ELEVATION

NOTE:

1) BASE MAP SOURCE: "MONITORING WELL LOCATIONS - FORMER MYRON [MIRON] LUMBER SITE", BY CONESTOGA-ROVERS & ASSOCIATES DATED 07/14/04 AND NUMBERED 03-58-L
2) TOP OF CASING AND GROUND ELEVATIONS REPORTED FROM TECHNICAL MEMORANDUM, PHASE 2 GROUNDWATER INVESTIGATION RESULTS BY CONESTOGA-ROVERS & ASSOCIATES, NOVEMBER 21, 2003

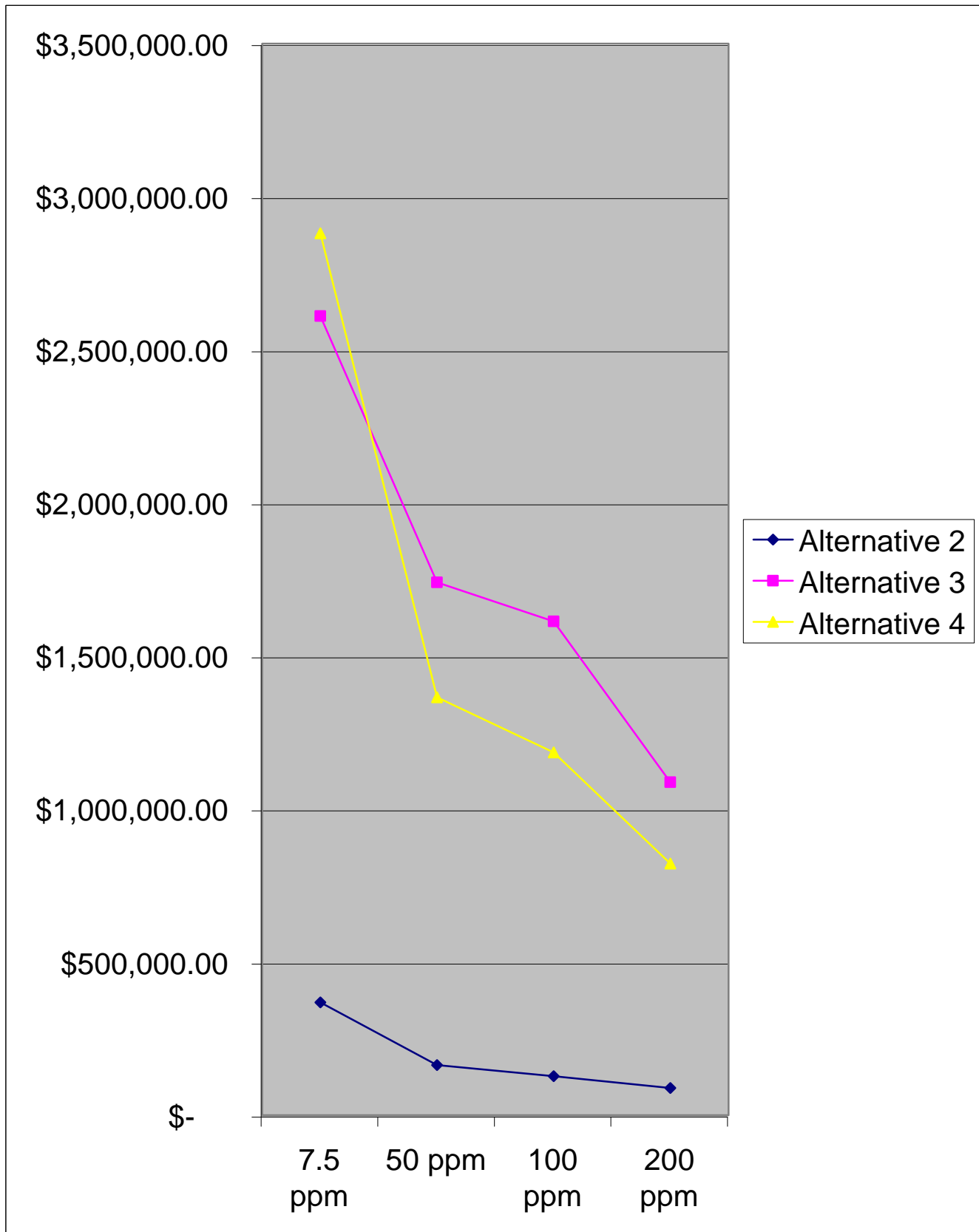


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GROUNDWATER MONITORING WELL LOCATIONS
AND CONTOUR ELEVATIONS - OCTOBER 2004
ALBANY MIRON LUMBER CORP.

TOWN OF GUILDERLAND ALBANY CO, N.Y.

Figure 4
Clean Up Cost Comparison



TABLES

TABLE 1
Albany Miron Lumber
Soil Investigation and Sampling Results
9/21/04 - 9/23/04

Parameters	Units	Recommended Soil Cleanup Objectives ^[1]	Site Background	SAMPLE LOCATION								
				SB-1 [J4]	SB-2 [N5]	SB-3 [B(-1)]	SB-4 [D(-3)]	SB-5 [F(-3)]	SB-6 [O(-1)]	SB-7 [P3]	SB-8 [Q6]	SB-9 [O6]
Laboratory results												
Arsenic	mg/Kg	7.5 or SB		5.72	2.35	6.91	6.76	4.94	15.8	4.59	14.6	5.31
Chromium	mg/Kg	10 or SB		14	5.44	17	13.8	8.73	20.2	10.3	13.7	10.4
Copper	mg/Kg	30 or SB		32.6	11.6	24.4	21.5	35.7	29.8	21.3	22.2	22.9
Field Screening Results^[3]												
Arsenic	mg/Kg	--	5 +/- 2	9 +/- 2	<5	6 +/- 2	<5	11 +/- 2	14 +/- 2	10 +/- 2	12 +/- 2	<7
Chromium	mg/Kg	--	<40	<38	<27	<46	<43	<34	<38	<37	<46	<38
Copper	mg/Kg	--	<14	<15	<12	17 +/- 5	31 +/- 5	29 +/- 5	25 +/- 3	<137	<16	<14

^[1] From NYSDEC DHWR TAGM 4046 (1994), "Determination of Soil Cleanup Objectives and Cleanup Levels" and supporting NYSDEC Memorandums dated: 12/20/00, 4/10/01, and 7/10/01.

^[2] The Soil Sample ID number is listed, with the corresponding Soil Screening Grid Location in brackets (see Figure 1 for locations).

^[3] Field screening results were determined with a XRF Analyzer.

TABLE 2
Albany Miron Lumber
Groundwater Analyses Summary
October 1-5, 2004

Sample Locations			ML-1		ML-2R		ML-3		ML-4		ML-5		ML-8		ML-9	
Parameters	Units	NYSDEC Ambient Water Quality Standards (ug/l)														
Arsenic	ug/L	25	2	B	8470		2.7	U	828		246		46.9		55.9	
Arsenic (Dissolved)	ug/L	-	11.9		21100		1.9	U	922		95.6		1.9	U	1.9	U
Chromium	ug/L	50	27.6		168		0.7	U	488		140		91		129	
Chromium (Dissolved)	ug/L	-	26.2		165		1.5	B	486		5.5	B	3.1	B	1	B
Copper	ug/L	200	10.4	B	84.1		3.3	U	3.3	U	50.9		235		326	
Copper (Dissolved)	ug/L	-	1.6	U	33		1.6	U	2.9	B	3.5	B	1.6	U	1.6	B

Sample Locations			ML-10		ML-11		ML-12		ML-13		ML-14		EQ. BL.	
Parameters	Units	NYSDEC Ambient Water Quality Standards (ug/l)											[2]	
Arsenic	ug/L	25	5	B	2.7	U	3.7	B	2190		4.6/3 ^[1]	B	6.1	B
Arsenic (Dissolved)	ug/L	-	1.9	U	1.9	U	1.9	U	1920		1.9/1.9	U	4.2	B
Chromium	ug/L	50	1.2	B	3	B	0.82	B	984		104/103		1.6	B
Chromium (Dissolved)	ug/L	-	2.3	B	3.7	B	1.6	B	909		107/104		1.3	B
Copper	ug/L	200	3.3	U	3.3	U	3.8	B	5.4	B	7.3/6.7	B	3.3	U
Copper (Dissolved)	ug/L	-	2.5	B	2.4	B	1.6	U	1.6	U	1.6/1.6	U	1.8	B

Notes:

U = Indicates the compound was analyzed for, but not detected.

B = The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL).

[1] Duplicate sample, includes results corresponding to Laboratory sample "ML-6"

[2] Equipment Blank

- Values in **BOLD** indicate reported concentrations above applicable water quality standards.

TABLE 3**POTENTIAL EXPOSURE PATHWAYS
MIRON LUMBER WOOD TREATING SITE**

Potential Receptor	Exposure Route, Contaminated Media, and Point of Exposure	Pathway Selected for Evaluation (Yes/No)	Reason for Selection or Exclusion
Human	Ingestion of soils on-site.	No	Area is zoned commercial/industrial. Residential development will not occur. Site will be used for non-residential use.
Human	Ingestion of soils off-site.	No	Residential development and use will not occur.
Human	Ingestion of groundwater on-site.	No	Railroad Avenue and surrounding area are supplied by municipal water system.
Human	Ingestion of groundwater off-site.	No	Nearby homes are supplied by municipal water system. There are no users of off-site groundwater.
On-site workers	Ingestion or inhalation of soil or dust.	Yes	Surface soils are contaminated with metals.
On-site workers	Ingestion of groundwater on-site.	No	Municipal water is supplied to the site.
On-site construction workers	Ingestion, inhalation or dermal contact with soils on-site.	Yes	Surface & subsurface soils are contaminated with metals. Future construction on-site is possible.

TABLE 4**APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARs)****Soil and Groundwater Standards**

Standard	Chromium	Arsenic	Copper
NYS Groundwater Standard (Class GA) (ug/L)	50	25	200
NYS Soil Cleanup Objectives (site background) (mg/kg)	23	25	35

Exposure Limits To Be Considered (T.B.C.)

Standard	Chromium			Arsenic	Copper
	Cr (metal)	Cr (VI) Soluble	Cr (VI) Insoluble		(Dusts and Mists)
NIOSH IDLH mg/m³	-	15	-	5 Ca	100
NIOSH - REL/TWA mg/m³	-	-	-	0.02 C	1
OSHA - PEL mg/m³	-	0.1	-	0.010	1
ACGIH - TLV mg/m³	0.5	0.05 A1	0.01 A1	0.01 A1	1

- = Not Available

IDLH = Immediate danger to life or health

REL = Recommended Exposure Limit

TWA = Time Weighted Average

PEL = Permissible Exposure Limit

ACGIH = American Conference of Governmental Industrial Hygienists

TLV = Threshold Limit Value

A1 = Confirmed Human Carcinogen

Ca = Potential Human Carcinogen

C = Ceiling

TABLE 5A**COST ESTIMATE - ALTERNATIVE #2A
LOW PERMEABILITY CAPPING
200 PPM CLEAN UP GOAL**

CAPITAL COSTS	UNIT COST	QUANTITY	UNITS	COST
Direct:				
Asphalt Paving	\$3.50	11,900	Square Feet	\$41,650
Grading and Subbase Preparation	L.S.	25,000	L.S.	\$25,000
SUBTOTAL DIRECT COSTS:				\$66,650
Indirect:				
Engineering and Design @ 8.5% Capital Costs				\$5,665
Construction Monitoring, Reporting @ 5% Capital Costs				\$3,333
Contingency @ 20%				\$13,330
SUBTOTAL INDIRECT COSTS:				\$22,328
TOTAL CAPITAL COST:				\$88,978
Operation & Maintenance Costs:				
Annual GW Monitoring	\$7,500			
TOTAL ANNUAL O&M COST:		\$7,500		

TABLE 5B**COST ESTIMATE - ALTERNATIVE #2B
LOW PERMEABILITY CAPPING
100 PPM CLEAN UP GOAL**

CAPITAL COSTS	UNIT COST	QUANTITY	UNITS	COST
Direct:				
Asphalt Paving	\$3.50	20,100	Square Feet	\$70,350
Grading and Subbase Preparation	L.S.	25,000	L.S.	\$25,000
SUBTOTAL DIRECT COSTS:				\$95,350
Indirect:				
Engineering and Design @ 8.5% Capital Costs				\$8,105
Construction Monitoring, Reporting @ 5% Capital Costs				\$4,768
Contingency @ 20%				\$19,070
SUBTOTAL INDIRECT COSTS:				\$31,942
TOTAL CAPITAL COST:				\$127,292
Operation & Maintenance Costs:				
Annual GW Monitoring	\$7,500			
TOTAL ANNUAL O&M COST:		\$7,500		

TABLE 5C**COST ESTIMATE - ALTERNATIVE #2C
LOW PERMEABILITY CAPPING
50 PPM CLEAN UP GOAL**

CAPITAL COSTS	UNIT COST	QUANTITY	UNITS	COST
Direct:				
Asphalt Paving	\$3.50	25,100	Square Feet	\$87,850
Grading and Subbase Preparation	L.S.	35,000	L.S.	\$35,000
SUBTOTAL DIRECT COSTS:				\$122,850
Indirect:				
Engineering and Design @ 8.5% Capital Costs				\$10,442
Construction Monitoring, Reporting @ 5% Capital Costs				\$6,143
Contingency @ 20%				\$24,570
SUBTOTAL INDIRECT COSTS:				\$41,155
TOTAL CAPITAL COST:				\$164,005
Operation & Maintenance Costs:				
Annual GW Monitoring	\$7,500			
TOTAL ANNUAL O&M COST:		\$7,500		

TABLE 5D**COST ESTIMATE - ALTERNATIVE #2D
LOW PERMEABILITY CAPPING
7.5 PPM CLEAN UP GOAL**

CAPITAL COSTS	UNIT COST	QUANTITY	UNITS	COST
Direct:				
Asphalt Paving	\$3.50	67,400	Square Feet	\$235,900
Grading and Subbase Preparation	L.S.	40,000	L.S.	\$40,000
SUBTOTAL DIRECT COSTS:				\$275,900
Indirect:				
Engineering and Design @ 8.5% Capital Costs				\$23,452
Construction Monitoring, Reporting @ 5% Capital Costs				\$13,795
Contingency @ 20%				\$55,180
SUBTOTAL INDIRECT COSTS:				\$92,427
TOTAL CAPITAL COST:				\$368,327
Operation & Maintenance Costs:				
Annual GW Monitoring	\$7,500			
TOTAL ANNUAL O&M COST:		\$7,500		

TABLE 6A**COST ESTIMATE - ALTERNATIVE #3A
EXCAVATION & OFF-SITE DISPOSAL
200 PPM CLEAN UP GOAL**

CAPITAL COSTS	UNIT COST	QUANTITY	UNITS	COST
Direct:				
Excavation & Loading of Soil	\$18	3,000	Cubic Yards	\$54,000
Confirmatory Sampling for As, Cr, Cu	\$130	25	Each	\$3,250
Soil Disposal Fee (T&D)	\$150	4,500	Ton	\$675,000
Clean Backfill	\$12.50	3,000	Cubic Yards	\$37,500
Place, Grade and Compact	\$15	3,000	Cubic Yards	\$45,000
SUBTOTAL DIRECT COSTS:				\$814,750
Indirect:				
Engineering and Design @ 8.5% Capital Costs				\$69,254
Construction Monitoring, Reporting @ 5% Capital Costs				\$40,738
Contingency @ 20%				\$162,950
SUBTOTAL INDIRECT COSTS:				\$272,941
TOTAL CAPITAL COST:				\$1,087,691
Operation & Maintenance Costs:				
Annual GW Monitoring	\$7,500			
TOTAL ANNUAL O&M COST:		\$7,500		

TABLE 6B

**COST ESTIMATE - ALTERNATIVE #3B
EXCAVATION & OFF-SITE DISPOSAL
100 PPM CLEAN UP GOAL**

CAPITAL COSTS	UNIT COST	QUANTITY	UNITS	COST
Direct:				
Excavation & Loading of Soil	\$15	4,500	Cubic Yards	\$67,500
Confirmatory Sampling for As, Cr, Cu	\$130	35	Each	\$4,550
Soil Disposal Fee (T&D)	\$150	6,750	Ton	\$1,012,500
Clean Backfill	\$12.50	4,500	Cubic Yards	\$56,250
Place, Grade and Compact	\$15	4,500	Cubic Yards	\$67,500
SUBTOTAL DIRECT COSTS:				\$1,208,300
Indirect:				
Engineering and Design @ 8.5% Capital Costs				\$102,706
Construction Monitoring, Reporting @ 5% Capital Costs				\$60,415
Contingency @ 20%				\$241,660
SUBTOTAL INDIRECT COSTS:				\$404,781
TOTAL CAPITAL COST:				\$1,613,081
Operation & Maintenance Costs:				
Annual GW Monitoring	\$7,500			
TOTAL ANNUAL O&M COST:		\$7,500		

TABLE 6C

**COST ESTIMATE - ALTERNATIVE #3C
EXCAVATION & OFF-SITE DISPOSAL
50 PPM CLEAN UP GOAL**

CAPITAL COSTS	UNIT COST	QUANTITY	UNITS	COST
Direct:				
Excavation & Loading of Soil	\$18	4,800	Cubic Yards	\$86,400
Confirmatory Sampling for As, Cr, Cu	\$130	40	Each	\$5,200
Soil Disposal Fee (T&D)	\$150	7,200	Ton	\$1,080,000
Clean Backfill	\$12.50	4,800	Cubic Yards	\$60,000
Place, Grade and Compact	\$15	4,800	Cubic Yards	\$72,000
SUBTOTAL DIRECT COSTS:				\$1,303,600
Indirect:				
Engineering and Design @ 8.5% Capital Costs				\$110,806
Construction Monitoring, Reporting @ 5% Capital Costs				\$65,180
Contingency @ 20%				\$260,720
SUBTOTAL INDIRECT COSTS:				\$436,706
TOTAL CAPITAL COST:				\$1,740,306
Operation & Maintenance Costs:				
Annual GW Monitoring		\$7,500		
TOTAL ANNUAL O&M COST:		\$7,500		

TABLE 6D

**COST ESTIMATE - ALTERNATIVE #3D
EXCAVATION & OFF-SITE DISPOSAL
7.5 PPM CLEAN UP GOAL**

CAPITAL COSTS	UNIT COST	QUANTITY	UNITS	COST
Direct:				
Excavation & Loading of Soil	\$18	7,200	Cubic Yards	\$129,600
Confirmatory Sampling for As, Cr, Cu	\$130	60	Each	\$7,800
Soil Disposal Fee (T&D)	\$150	10,800	Ton	\$1,620,000
Clean Backfill	\$12.50	7,200	Cubic Yards	\$90,000
Place, Grade and Compact	\$15	7,200	Cubic Yards	\$108,000
SUBTOTAL DIRECT COSTS:				\$1,955,400
Indirect:				
Engineering and Design @ 8.5% Capital Costs				\$166,209
Construction Monitoring, Reporting @ 5% Capital Costs				\$97,770
Contingency @ 20%				\$391,080
SUBTOTAL INDIRECT COSTS:				\$655,059
TOTAL CAPITAL COST:				\$2,610,459
Operation & Maintenance Costs:				
Annual GW Monitoring	\$7,500			
TOTAL ANNUAL O&M COST:		\$7,500		

TABLE 7A

**COST ESTIMATE - ALTERNATIVE #4A
SOIL STABILIZATION
200 PPM CLEAN UP GOAL**

CAPITAL COSTS	UNIT COST	QUANTITY	UNITS	COST
Direct:				
Pilot Program and Test Panel Construction	LS			\$60,000
Construction, Evaluation, & Monitoring				
Site Preparation (Pavement Demolition, Soil Tilling)	\$20	11,900	Square Feet	\$238,000
Soil Stabilization (Disc/Mix Cement Dust)	\$50	3,000	Cubic Yards	\$150,000
Storm Water Management During Stabilization	LS			\$120,000
Pavement Placement	\$4.00	11,900	LS	\$47,600
SUBTOTAL DIRECT COSTS:				\$615,600
Indirect:				
Engineering and Design @ 8.5% Capital Costs				\$52,326
Construction Monitoring, Reporting @ 5% Capital Costs				\$30,780
Contingency @ 20%				\$123,120
SUBTOTAL INDIRECT COSTS:				\$206,226
TOTAL CAPITAL COST:				\$821,826
Operation & Maintenance Costs:				
Annual GW Monitoring	\$7,500			
TOTAL ANNUAL O&M COST:		\$7,500		

TABLE 7B

**COST ESTIMATE - ALTERNATIVE #4B
SOIL STABILIZATION
100 PPM CLEAN UP GOAL**

CAPITAL COSTS	UNIT COST	QUANTITY	UNITS	COST
Direct:				
Pilot Program and Test Panel Construction	LS			\$60,000
Construction, Evaluation, & Monitoring				
Site Preparation (Pavement Demolition, Soil Tilling)	\$20	20,100	Square Feet	\$402,000
Soil Stabilization (Disc/Mix Cement Dust)	\$50	4,500	Cubic Yards	\$225,000
Storm Water Management During Stabilization	LS			\$120,000
Pavement Placement	\$4.00	20,100	LS	\$80,400
SUBTOTAL DIRECT COSTS:				\$887,400
Indirect:				
Engineering and Design @ 8.5% Capital Costs				\$75,429
Construction Monitoring, Reporting @ 5% Capital Costs				\$44,370
Contingency @ 20%				\$177,480
SUBTOTAL INDIRECT COSTS:				\$297,279
TOTAL CAPITAL COST:				\$1,184,679
Operation & Maintenance Costs:				
Annual GW Monitoring	\$7,500			
TOTAL ANNUAL O&M COST:		\$7,500		

TABLE 7C

**COST ESTIMATE - ALTERNATIVE #4C
SOIL STABILIZATION
50 PPM CLEAN UP GOAL**

CAPITAL COSTS	UNIT COST	QUANTITY	UNITS	COST
Direct:				
Pilot Program and Test Panel Construction	LS			\$60,000
Construction, Evaluation, & Monitoring				
Site Preparation (Pavement Demolition, Soil Tilling)	\$20	25,100	Sq Ft	\$502,000
Soil Stabilization (Disc/Mix Cement Dust)	\$50	4,800	Cubic Yards	\$240,000
Storm Water Management During Stabilization	LS			\$120,000
Pavement Placement	\$4.00	25,100	LS	\$100,400
SUBTOTAL DIRECT COSTS:				\$1,022,400
Indirect:				
Engineering and Design @ 8.5% Capital Costs				\$86,904
Construction Monitoring, Reporting @ 5% Capital Costs				\$51,120
Contingency @ 20%				\$204,480
SUBTOTAL INDIRECT COSTS:				\$342,504
TOTAL CAPITAL COST:				\$1,364,904
Operation & Maintenance Costs:				
Annual GW Monitoring	\$7,500			
TOTAL ANNUAL O&M COST:		\$7,500		

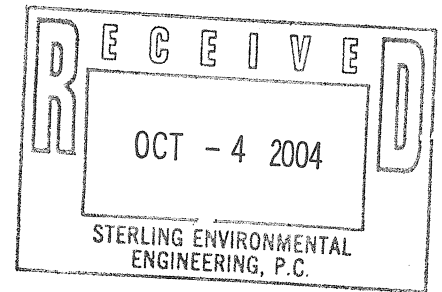
TABLE 7D

**COST ESTIMATE - ALTERNATIVE #4D
SOIL STABILIZATION
7.5 PPM CLEAN UP GOAL**

CAPITAL COSTS	UNIT COST	QUANTITY	UNITS	COST
Direct:				
Pilot Program and Test Panel Construction	LS			\$60,000
Construction, Evaluation, & Monitoring				
Site Preparation (Pavement Demolition, Soil Tilling)	\$20	67,400	Sq Ft	\$1,348,000
Soil Stabilization (Disc/Mix Cement Dust)	\$50	7,200	Cubic Yards	\$360,000
Storm Water Management During Stabilization	LS			\$120,000
Pavement Placement	\$4	67,400	LS	\$269,600
SUBTOTAL DIRECT COSTS:				\$2,157,600
Indirect:				
Engineering and Design @ 8.5% Capital Costs				\$183,396
Construction Monitoring, Reporting @ 5% Capital Costs				\$107,880
Contingency @ 20%				\$431,520
SUBTOTAL INDIRECT COSTS:				\$722,796
TOTAL CAPITAL COST:				\$2,880,396
Operation & Maintenance Costs:				
Annual GW Monitoring		\$7,500		
TOTAL ANNUAL O&M COST:		\$7,500		

APPENDIX 1

SOIL SAMPLING ANALYTICAL REPORTS



Thursday, September 30, 2004

Sterling Env. Engineering
24 Wade Road
Latham NY 12110

Attention: Ms Liz Davis

Sample ID#: AF88494-88502

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in cursive script that reads "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
NY Lab Registration #11301
RI Lab Registration #63
NH Lab Registration #213693-A,B
ME Lab Registration #CT-007
NJ Lab Registration #CT-003



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 30, 2004

FOR: Attn: Ms. Liz Davis
Sterling Env. Engineering
24 Wade Road
Latham, NY 12110

Sample Information

Matrix: SOIL
Location Code: STERLING
Rush Request:
P.O.#: 21061

Custody Information

Collected by: LD
Received by: KJB
Analyzed by: see "By" below

Date

09/23/04
09/24/04

Time

14:10
10:45

Laboratory Data

SDG I.D.: GAF88494
Phoenix I.D.: AF88494

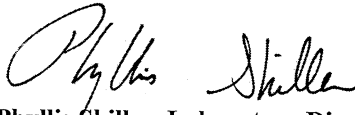
Client ID: MIRON LUMBER S-1

Parameter	Result	RL	Units	Date	Time	By	Reference
Arsenic	5.72	1	mg/Kg	09/28/04		EK	6010/E200.7
Chromium	14	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Copper	32.6	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Percent Solid	79		%	09/27/04		K/E	E160.3
Total Metals Digest	Completed			09/27/04		X/Y	SW846 - 3050

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.


Phyllis Shiller, Laboratory Director
September 30, 2004



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 30, 2004

FOR: Attn: Ms. Liz Davis
Sterling Env. Engineering
24 Wade Road
Latham, NY 12110

Sample Information

Matrix: SOIL
Location Code: STERLING
Rush Request:
P.O.#: 21061

Custody Information

Collected by: LD
Received by: KJB
Analyzed by: see "By" below

Date

Time

09/23/04 14:15
09/24/04 10:45

Laboratory Data

SDG I.D.: GAF88494
Phoenix I.D.: AF88495


Client ID: MIRON LUMBER S-2

Parameter	Result	RL	Units	Date	Time	By	Reference
Arsenic	2.35	1	mg/Kg	09/28/04		EK	6010/E200.7
Chromium	5.44	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Copper	11.6	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Percent Solid	94		%	09/27/04		K/E	E160.3
Total Metals Digest	Completed			09/27/04		X/Y	SW846 - 3050

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.


Phyllis Shiller, Laboratory Director
September 30, 2004



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 30, 2004

FOR: Attn: Ms. Liz Davis
Sterling Env. Engineering
24 Wade Road
Latham, NY 12110

Sample Information

Matrix: SOIL
Location Code: STERLING
Rush Request:
P.O.#: 21061

Custody Information

Collected by: LD
Received by: KJB
Analyzed by: see "By" below

Date

09/23/04
09/24/04

Time

14:20
10:45

Laboratory Data

SDG I.D.: GAF88494
Phoenix I.D.: AF88496

Client ID: MIRON LUMBER S-3

Parameter	Result	RL	Units	Date	Time	By	Reference
Arsenic	6.91	1	mg/Kg	09/28/04		EK	6010/E200.7
Chromium	17	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Copper	24.4	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Percent Solid	91		%	09/27/04		K/E	E160.3
Total Metals Digest	Completed			09/24/04		AG	SW846 - 3050

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
September 30, 2004



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 30, 2004

FOR: Attn: Ms. Liz Davis
Sterling Env. Engineering
24 Wade Road
Latham, NY 12110

Sample Information

Matrix: SOIL
Location Code: STERLING
Rush Request:
P.O.#: 21061

Custody Information

Collected by: LD
Received by: KJB
Analyzed by: see "By" below

Date

09/23/04

09/24/04

Time

14:26

10:45

Laboratory Data

SDG I.D.: GAF88494

Phoenix I.D.: AF88497

Client ID: MIRON LUMBER S-4

Parameter	Result	RL	Units	Date	Time	By	Reference
Arsenic	6.76	1	mg/Kg	09/28/04		EK	6010/E200.7
Chromium	13.8	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Copper	21.5	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Percent Solid	91		%	09/27/04		K/E	E160.3
Total Metals Digest	Completed			09/27/04		X/Y	SW846 - 3050

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
September 30, 2004



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 30, 2004

FOR: Attn: Ms. Liz Davis
Sterling Env. Engineering
24 Wade Road
Latham, NY 12110

Sample Information

Matrix: SOIL
Location Code: STERLING
Rush Request:
P.O.#: 21061

Custody Information

Collected by: LD
Received by: KJB
Analyzed by: see "By" below

Date

09/23/04
09/24/04

Time

14:32
10:45

Laboratory Data

SDG I.D.: GAF88494
Phoenix I.D.: AF88498

Client ID: MIRON LUMBER S-5

Parameter	Result	RL	Units	Date	Time	By	Reference
Arsenic	4.94	1	mg/Kg	09/28/04		EK	6010/E200.7
Chromium	8.73	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Copper	35.7	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Percent Solid	90		%	09/27/04		K/E	E160.3
Total Metals Digest	Completed			09/27/04		X/Y	SW846 - 3050

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
September 30, 2004



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 30, 2004

FOR: Attn: Ms. Liz Davis
Sterling Env. Engineering
24 Wade Road
Latham, NY 12110

Sample Information

Matrix: SOIL
Location Code: STERLING
Rush Request:
P.O.#: 21061

Custody Information

Collected by: LD
Received by: KJB
Analyzed by: see "By" below

Date

Time

09/23/04 14:37
09/24/04 10:45

Laboratory Data

SDG I.D.: GAF88494
Phoenix I.D.: AF88499

Client ID: MIRON LUMBER S-6

Parameter	Result	RL	Units	Date	Time	By	Reference
Arsenic	15.8	1	mg/Kg	09/28/04		EK	6010/E200.7
Chromium	20.2	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Copper	29.8	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Percent Solid	94		%	09/27/04		K/E	E160.3
Total Metals Digest	Completed			09/27/04		X/Y	SW846 - 3050

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
September 30, 2004



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 30, 2004

FOR: Attn: Ms. Liz Davis
Sterling Env. Engineering
24 Wade Road
Latham, NY 12110

Sample Information

Matrix: SOIL
Location Code: STERLING
Rush Request:
P.O.#: 21061

Custody Information

Collected by: LD
Received by: KJB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
09/23/04	14:40
09/24/04	10:45

Laboratory Data

SDG I.D.: GAF88494
Phoenix I.D.: AF88500

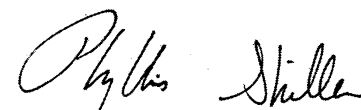
Client ID: MIRON LUMBER S-7

Parameter	Result	RL	Units	Date	Time	By	Reference
Arsenic	4.59	1	mg/Kg	09/28/04		EK	6010/E200.7
Chromium	10.3	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Copper	21.3	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Percent Solid	95		%	09/27/04		K/E	E160.3
Total Metals Digest	Completed			09/27/04		X/Y	SW846 - 3050

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.


Phyllis Shiller, Laboratory Director
September 30, 2004



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 30, 2004

FOR: Attn: Ms. Liz Davis
Sterling Env. Engineering
24 Wade Road
Latham, NY 12110

Sample Information

Matrix: SOIL
Location Code: STERLING
Rush Request:
P.O.#: 21061

Custody Information

Collected by: LD
Received by: KJB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
09/23/04	14:25
09/24/04	10:45

Laboratory Data

SDG I.D.: GAF88494
Phoenix I.D.: AF88501


Client ID: MIRON LUMBER S-8

Parameter	Result	RL	Units	Date	Time	By	Reference
Arsenic	14.6	1	mg/Kg	09/28/04		EK	6010/E200.7
Chromium	13.7	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Copper	22.2	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Percent Solid	94		%	09/27/04		K/E	E160.3
Total Metals Digest	Completed			09/24/04		AG	SW846 - 3050

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.


Phyllis Shiller, Laboratory Director
September 30, 2004



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 30, 2004

FOR: Attn: Ms. Liz Davis
Sterling Env. Engineering
24 Wade Road
Latham, NY 12110

Sample Information

Matrix: SOIL
Location Code: STERLING
Rush Request:
P.O.#: 21061

Custody Information

Collected by: LD
Received by: KJB
Analyzed by: see "By" below

Date

Time

09/23/04 14:00
09/24/04 10:45

Laboratory Data

SDG I.D.: GAF88494
Phoenix I.D.: AF88502

Client ID: MIRON LUMBER S-9

Parameter	Result	RL	Units	Date	Time	By	Reference
Arsenic	5.31	1	mg/Kg	09/28/04		EK	6010/E200.7
Chromium	10.4	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Copper	22.9	0.5	mg/Kg	09/28/04		EK	6010/E200.7
Percent Solid	91		%	09/27/04		K/E	E160.3
Total Metals Digest	Completed			09/24/04		AG	SW846 - 3050

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
September 30, 2004



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

September 30, 2004

QA/QC Data

SDG I.D.: GAF88494

Parameter	Blank	LCS %	Dup RPD	MS Rec %	MS Dup Rec %	RPD
-----------	-------	-------	------------	----------	-----------------	-----

QA/QC Batch Sample No: AF88496 (AF88496, AF88501, AF88502)

ICP Metals - Soil

Aluminum	BDL	116	11.6	NC	NC	NC
Antimony	BDL	92.4	NC	0.4	1.30	105.9
Arsenic	BDL	93.1	24.7	52.0	52.2	0.4
Barium	BDL	102	3.30	55.6	56.9	2.3
Beryllium	BDL	99.6	NC	53.2	54.9	3.1
Boron	5.9		BDL			
Cadmium	BDL	98.0	NC	51.1	52.5	2.7
Calcium	BDL		BDL			
Chromium	BDL	102	1.60	55.0	54.7	0.5
Cobalt	BDL	101	9.30	51.5	53.4	3.6
Copper	BDL	102	3.30	55.5	55.1	0.7
Iron	1.9	NC	2.40	NC	NC	NC
Lead	BDL	98.0	4.70	48.5	52.3	7.5
Magnesium	BDL		BDL			
Manganese	BDL	105	3.80	-38.4	69.7	NC
Molybdenum	BDL		BDL			
Nickel	BDL	99.6	0.8	48.8	51.7	5.8
Phosphorus	BDL		BDL			
Potassium						
Selenium	BDL	90.1	NC	50.5	51.1	1.2
Silver	BDL	96.5	NC	54.8	54.6	0.4
Sodium						
Thallium	BDL	96.6	NC	50.2	51.4	2.4
Tin	BDL		BDL			
Vanadium	BDL	100	0.8	55.6	55.2	0.7
Zinc	BDL	92.6	0.8	45.7	49.5	8.0

QA/QC Batch Sample No: AF88872 (AF88494, AF88495, AF88497, AF88498, AF88499, AF88500)

ICP Metals - Soil

Aluminum	-	92.1	1.60	NC	NC	NC
Antimony	BDL	75.8	NC	57.4	55.8	2.8
Arsenic	BDL	77.4	NC	69.0	67.8	1.8

QA/QC Data

SDG I.D.: GAF88494

Parameter	Blank	LCS %	Dup RPD	MS Rec %	MS Dup Rec %	RPD
Barium	BDL	81.8	7.20	71.2	69.6	2.3
Beryllium	BDL	80.9	NC	71.0	70.6	0.6
Boron	BDL		BDL			
Cadmium	BDL	80.4	NC	69.5	68.3	1.7
Calcium	BDL		BDL			
Chromium	BDL	81.3	2.40	74.5	74.4	0.1
Cobalt	BDL	81.5	6.50	69.3	68.4	1.3
Copper	BDL	81.6	7.50	67.4	63.4	6.1
Iron	-	NC	8.30	NC	NC	NC
Lead	BDL	80.6	21.1	59.7	57.8	3.2
Magnesium	-		BDL			
Manganese	-	82.8	3.30	87.7	73.7	17.3
Molybdenum	BDL		BDL			
Nickel	BDL	81.5	11.9	67.1	66.4	1.0
Phosphorus	-		BDL			
Potassium						
Selenium	BDL	74.4	NC	66.6	65.7	1.4
Silver	0.7	89.4	NC	71.2	66.7	6.5
Sodium						
Thallium	BDL	79.3	NC	66.0	64.6	2.1
Tin	BDL		BDL			
Vanadium	BDL	80.2	0.9	71.7	69.3	3.4
Zinc	BDL	74.9	28.0	52.1	52.2	0.2

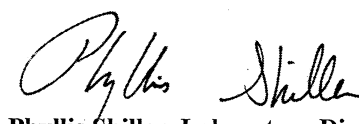
If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

RPD - Relative Percent Difference

LCS - Laboratory Control Sample


Phyllis Shiller, Laboratory Director
September 30, 2004



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: service@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-8726

Temp Pg of

Data Delivery (check one):

☐ Fax #:

☒ Email: liz@sterlingenvironmental.com

Format: ☐ Excel ☒ Pdf ☐ Gis Key

Customer: Sterling Env. Eng.

Address: 84 Wade Road

Latham NY 12110

Project: Miron Lumber

Report to: Liz Davis

Invoice to:

Project P.O.: 21061

Phone #: 518-456-4900

Fax #: 518-456-3532

Client Sample - Information - Identification

Sampler's Signature: Liz Davis Date: 9/23/04

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=other
GW=groundwater SL=sludge A=air

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
88494	S-1	S	9/23/04	14:10
88495	S-2			14:15
88496	S-3			14:20
88497	S-4			14:26
88498	S-5			14:32
88499	S-6			14:37
88500	S-7			14:40
88501	S-8			14:25
88502	S-9			14:00

Analysis Request

Metals - As, Cd, Cr

Soil VOA Vials [] methanol [] Sd Boukate
GL Soil container (4) oz
GL VOA Vial [] As is [] H2SO4
GL Amber 1000ml [] As is [] HCl
PL As is [] 250ml [] 500ml [] 1000ml
PL H2SO4 [] 250ml [] 500ml [] 1000ml
PL HNO3 250ml
Bacteria Bottle

Relinquished by: Liz Davis

Accepted by: Liz Davis

Date: 9/23

Time: 1630

Turnaround:

- ☐ 1 Day*
☐ 2 Days*
☒ 3 Days*
☐ Standard
☐ Other

* Surcharge Applies

Requirements for CI

- ☐ Res. Criteria
☐ GW Protection
☐ GA Mobility
☐ GB Mobility
☐ SW Protection
☐ Res. Vol.
☐ Ind. Vol.

Requirements for MA

- ☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MCP Certification
☐ Other

Comments, Special Requirements or Regulations:

Metals - Arsenic, Copper, Chromium
* detection limit for Arsenic must be below 7.5 ppm

3 empty jars sent back

APPENDIX 2

GROUNDWATER SAMPLING ANALYTICAL REPORTS

SAMPLE DATA SUMMARY PACKAGE

Sterling Environmental Engineering

Latham, NY

Project: Miron Lumber 21061

STL Lab. #: 241274

Matrix: Water

1 of 1

STL Newburgh is a part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS											
Job Number: 241274				Date: 10/26/2004							
CUSTOMER: Sterling Environmental Engineering, PC				PROJECT: MIRON LUMBER 21061				ATTN: Liz Davis			
Customer Sample ID: ML-10 Date Sampled.....: 10/01/2004 Time Sampled.....: 00:00 Sample Matrix.....: Water				Laboratory Sample ID: 241274-1 Date Received.....: 10/06/2004 Time Received.....: 12:10							
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)										
	Arsenic (As)	5.0	B		2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	1.9	U		1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	1.2	B		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	2.3	U		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	3.3	U		3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	2.5	B		1.6	25.0	1	ug/L		10/12/04	mwh

LABORATORY TEST RESULTS											
Job Number: 241274				Date: 10/26/2004							
CUSTOMER: Sterling Environmental Engineering, PC				PROJECT: MIRON LUMBER 21061							
Customer Sample ID: ML-12 Date Sampled.....: 10/02/2004 Time Sampled.....: 00:00 Sample Matrix.....: Water				Laboratory Sample ID: 241274-2 Date Received.....: 10/06/2004 Time Received.....: 12:10							
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)										
	Arsenic (As)	3.7	B		2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	1.9	U		1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	0.82	B		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	1.6	B		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	3.8	B		3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	1.6	U		1.6	25.0	1	ug/L		10/12/04	mwh

* In Description = Dry Wgt.

LABORATORY TEST RESULTS											
Job Number: 241274						Date:10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC											
PROJECT: MIRON LUMBER 21061 ,											
ATTN: Liz Davis											
Laboratory Sample ID: 241274-3											
Date Sampled.....: 10/03/2004											
Date Received.....: 10/06/2004											
Time Sampled.....: 00:00											
Time Received.....: 12:10											
Sample Matrix.....: Water											
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)										
	Arsenic (As)	2.7	U		2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	1.9	U		1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	0.70	U		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	1.5	B		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	3.3	U		3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	1.6	U		1.6	25.0	1	ug/L		10/12/04	mwh

* In Description = Dry Wgt.

LABORATORY TEST RESULTS										
Job Number: 241274					Date: 10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC					PROJECT: MIRON LUMBER 21061					
Customer Sample ID: ML-11 Date Sampled.....: 10/04/2004 Time Sampled.....: 00:00 Sample Matrix.....: Water					Laboratory Sample ID: 241274-4 Date Received.....: 10/06/2004 Time Received.....: 12:10					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	2.7	U	2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	1.9	U	1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	3.0	B	0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	3.7	B	0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	3.3	U	3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	2.4	B	1.6	25.0	1	ug/L		10/12/04	mwh

* In Description = Dry Wgt.

Job Number: 241274

Date:10/26/2004

LABORATORY TEST RESULTS

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: MIRON LUMBER 21061

ATTN: Liz Davis

Customer Sample ID: ML-9
Date Sampled.....: 10/04/2004
Time Sampled.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID: 241274-5
Date Received.....: 10/06/2004
Time Received.....: 12:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	55.9	U	1.9	10.0	1	ug/L		10/13/04	mad
	Arsenic (As), Diss.	1.9		1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	129		0.60	10.0	1	ug/L		10/13/04	mad
	Chromium (Cr), Diss.	1.0	B	0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	326		1.6	25.0	1	ug/L		10/13/04	mad
	Copper (Cu), Diss.	1.6	B	1.6	25.0	1	ug/L		10/12/04	mwh

LABORATORY TEST RESULTS										
Job Number: 241274		Date: 10/26/2004								
CUSTOMER: Sterling Environmental Engineering, PC		PROJECT: MIRON LUMBER 21061		ATTN: Liz Davis						
Customer Sample ID: ML-14		Laboratory Sample ID: 241274-6								
Date Sampled.....: 10/04/2004		Date Received.....: 10/06/2004								
Time Sampled.....: 13:15		Time Received.....: 12:10								
Sample Matrix.....: Water										
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	4.6	B	2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	1.9	U	1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	104		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	104		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	7.3	B	3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	1.6	U	1.6	25.0	1	ug/L		10/12/04	mwh

LABORATORY TEST RESULTS									
Job Number: 241274					Date: 10/26/2004				
CUSTOMER: Sterling Environmental Engineering, PC					ATTN: Liz Davis				
PROJECT: MIRON LUMBER 21061									
Customer Sample ID: ML-8 Date Sampled.....: 10/04/2004 Time Sampled.....: 12:50 Sample Matrix.....: Water					Laboratory Sample ID: 241274-7 Date Received.....: 10/06/2004 Time Received.....: 12:10				
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DATE	TECH
EPA 200.7	Metals Analysis (ICP)								
	Arsenic (As)	46.9	U	1.9	10.0	1	ug/L	10/13/04	mad
	Arsenic (As), Diss.	1.9		1.9	10.0	1	ug/L	10/12/04	mwh
	Chromium (Cr)	91.0		0.60	10.0	1	ug/L	10/13/04	mad
	Chromium (Cr), Diss.	3.1	B	0.60	10.0	1	ug/L	10/12/04	mwh
	Copper (Cu)	235		1.6	25.0	1	ug/L	10/13/04	mad
	Copper (Cu), Diss.	1.6	U	1.6	25.0	1	ug/L	10/12/04	mwh

LABORATORY TEST RESULTS										
Job Number: 241274			Date: 10/26/2004							
CUSTOMER: Sterling Environmental Engineering, PC										
PROJECT: MIRON LUMBER 21061										
ATTN: Liz Davis										
Laboratory Sample ID: 241274-8										
Date Received.....: 10/06/2004										
Time Received.....: 12:10										
Customer Sample ID: ML-6										
Date Sampled.....: 10/04/2004										
Time Sampled.....: 13:30										
Sample Matrix.....: Water										
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	3.0	B	2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	1.9	U	1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	103		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	107		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	6.7	B	3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	1.6	B	1.6	25.0	1	ug/L		10/12/04	mwh

LABORATORY TEST RESULTS											
Job Number: 241274		Date: 10/26/2004									
CUSTOMER: Sterling Environmental Engineering, PC		PROJECT: MIRON LUMBER 21061									
		ATTN: Liz Davis									
Customer Sample ID: ML-13		Laboratory Sample ID: 241274-9									
Date Sampled.....: 10/05/2004		Date Received.....: 10/06/2004									
Time Sampled.....: 12:00		Time Received.....: 12:10									
Sample Matrix.....: Water											
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)										
	Arsenic (As)	2190			2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	1920			1.9	10.0	1	ug/L		10/12/04	nmh
	Chromium (Cr)	984			0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	909			0.60	10.0	1	ug/L		10/12/04	nmh
	Copper (Cu)	5.4		B	3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	1.6		U	1.6	25.0	1	ug/L		10/12/04	nmh

* In Description = Dry Wgt.

LABORATORY TEST RESULTS										
Job Number: 241274					Date: 10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC					PROJECT: MIRON LUMBER 21061			ATTN: Liz Davis		
Customer Sample ID: ML-1 Date Sampled.....: 10/05/2004 Time Sampled.....: 14:25 Sample Matrix.....: Water					Laboratory Sample ID: 241274-10 Date Received.....: 10/06/2004 Time Received.....: 12:10					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	2.0	B	1.9	10.0	1	ug/L		10/13/04	mad
	Arsenic (As), Diss.	11.9		1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	27.6		0.60	10.0	1	ug/L		10/13/04	mad
	Chromium (Cr), Diss.	26.2		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	10.4	B	1.6	25.0	1	ug/L		10/13/04	mad
	Copper (Cu), Diss.	1.6	U	1.6	25.0	1	ug/L		10/12/04	mwh

* In Description = Dry Wgt.

LABORATORY TEST RESULTS											
Job Number: 241274						Date: 10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC						ATTN: Liz Davis					
PROJECT: MIRON LUMBER 21061											
Customer Sample ID: Equip. Blank						Laboratory Sample ID: 241274-11					
Date Sampled.....: 10/05/2004						Date Received.....: 10/06/2004					
Time Sampled.....: 14:25						Time Received.....: 12:10					
Sample Matrix.....: Water											
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)										
	Arsenic (As)	6.1	B		2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	4.2	B		1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	1.6	B		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	1.3	B		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	3.3	U		3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	1.8	B		1.6	25.0	1	ug/L		10/12/04	mwh

LABORATORY TEST RESULTS											
Job Number: 241274				Date: 10/26/2004							
CUSTOMER: Sterling Environmental Engineering, PC				PROJECT: MIRON LUMBER 21061				ATTN: Liz Davis			
Customer Sample ID: ML-2R Date Sampled.....: 10/05/2004 Time Sampled.....: 13:40 Sample Matrix.....: Water				Laboratory Sample ID: 241274-12 Date Received.....: 10/06/2004 Time Received.....: 12:10							
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)										
	Arsenic (As)	25400			8.1	30.0	3	ug/L		10/12/04	mad
	Arsenic (As), Diss.	21100			5.7	30.0	3.000	ug/L		10/12/04	mwh
	Chromium (Cr)	168			0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	165			0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	84.1			3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	33.0			1.6	25.0	1	ug/L		10/12/04	mwh

LABORATORY TEST RESULTS										
Job Number: 241274			Date: 10/26/2004							
CUSTOMER: Sterling Environmental Engineering, PC			PROJECT: MIRON LUMBER 21061			ATTN: Liz Davis				
Customer Sample ID: ML-4 Date Sampled.....: 10/04/2004 Time Sampled.....: 00:00 Sample Matrix.....: Water			Laboratory Sample ID: 241274-13 Date Received.....: 10/06/2004 Time Received.....: 12:10							
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	828		2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	922		1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	488		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	486		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	3.3	U	3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	2.9	B	1.6	25.0	1	ug/L		10/12/04	mwh

L A B O R A T O R Y T E S T R E S U L T S

Date: 10/26/2004

Job Number: 241274

ATTN: Liz Davis

PROJECT: MIRON LUMBER 21061

CUSTOMER: Sterling Environmental Engineering, PC

Laboratory Sample ID: 241274-14
Date Received: 10/06/2004
Time Received: 12:10

Customer Sample ID: ML-5
Date Sampled: 10/04/2004
Time Sampled: 00:00
Sample Matrix: Water

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)										
	Arsenic (As)	246			2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	95.6			1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	140			0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	5.5	B		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	50.9			3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	3.5	B		1.6	25.0	1	ug/L		10/12/04	mwh

* In Description = Dry Wgt.

6
DUPLICATES

ML-2RD

Contract: _____

SAS No. :

SDG No. :

Level (low/med) :

% Solids for Duplicate: _____

Concentration Units (ug/L or mg/Kg dry weight): ug/L

[illegible]

ILM04.0

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

U. S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

ML-2RD

Lab Name: STL Newburgh

Contract: _____

Lab Code: 10142 Case No.: _____

SAS No. : _____

SDG No. : _____

Matrix (soil/water): Water

Level (low/med) : _____

% Solids for Sample: _____

% Solids for Duplicate: _____

Concentration Units (ug/L or mg/Kg dry weight): ug/L

[illegible]

FORM VI - IN

ILM04.0

STL Newburgh is a part of Severn Trent Laboratories, Inc.

SEVERN
TRENT **STL**

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

5A
SPIKE SAMPLE RECOVERY

ML-2RS

Contract: _____

SAS No. : _____

SDG No. : _____

Level (low/med) : _____

% Solids for Sample: _____

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Comments :

5A
SPIKE SAMPLE RECOVERY

ML-2RS

Contract:

SAS No. :

SDG No. :

Level (low/med) :

% Solids for Sample: _____

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Comments:

3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

[illegible]

ILM04.0

SEVERN
TRENT **STL**

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

ILM04.0

**SEVERN
TRENT** **STL**

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

ILM04.0

SEVERN
TRENT **STL**

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

ILM04.0

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3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

ILM04.0

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3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

ILM04.0

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TRENT** **STL**

STL Newburgh
315 Fullerton Avenue
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Fax (845) 562-0841

Sterling Environmental Engineering
Latham, NY
Project: Miron Lumber 21061
STL Lab. # 241274
Matrix: Water
1 of 1

STL Newburgh is a part of Severn Trent Laboratories, Inc.

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550

Tel: 845 562 0890 Fax: 845 562 0841
www.stl-inc.com

10/26/2004

Sterling Environmental Engineering, PC
24 Wade Road
Latham, NY 12110

Attn: Liz Davis

SUBJECT: Case Narrative, Miron Lumber 21061,
STL Job Number 241274.

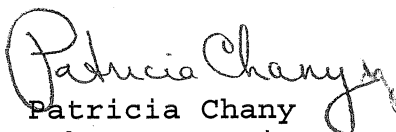
Dear Liz Davis:

Enclosed are the analytical results for the Miron Lumber 21061 project. The samples were received on 10/06/2004. The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements.

Any exceptions to NELAP requirements are noted in the attached case narrative. The case narrative is an integral part of this report.

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

STL NEWBURGH


Patricia Chany
Laboratory Director

000001

CASE NARRATIVE
Client: Sterling Environmental Engineering
Date: 10/26/04
STL Lab No. 241274
Page 1 of 1

Inorganics

ICP

Sample Dilutions

The following samples were diluted for arsenic at the indicated amount and reanalyzed due to the presence of arsenic in the undiluted samples at concentrations above the linear range of the instrument:

ML-2R (241274-12): 3x
ML-2RMD (241274-12MD): 3x
ML-2RMS (241274-12MS): 3x
ML-2RL (241274-12L): 3x

Dissolved metals

Due to turbidity results less than 1.0, the samples in laboratory number 241274 being analyzed for dissolved metals did not require digestion.

000002

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SAMPLE INFORMATION

Date: 10/26/2004

Job Number.: 241274

Customer....: Sterling Environmental Engineering, PC

Attn.....: Liz Davis

Project Number.....: 20000865

Customer Project ID....: MIRON LUMBER 21061

Project Description....: Wheelabrator 22042

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
241274-1	ML-10	Water	10/01/2004	00:00	10/06/2004	12:10
241274-2	ML-12	Water	10/02/2004	00:00	10/06/2004	12:10
241274-3	ML-3	Water	10/03/2004	00:00	10/06/2004	12:10
241274-4	ML-11	Water	10/04/2004	00:00	10/06/2004	12:10
241274-5	ML-9	Water	10/04/2004	00:00	10/06/2004	12:10
241274-6	ML-14	Water	10/04/2004	13:15	10/06/2004	12:10
241274-7	ML-8	Water	10/04/2004	12:50	10/06/2004	12:10
241274-8	ML-6	Water	10/04/2004	13:30	10/06/2004	12:10
241274-9	ML-13	Water	10/05/2004	12:00	10/06/2004	12:10
241274-10	ML-1	Water	10/05/2004	14:25	10/06/2004	12:10
241274-11	Equip. Blank	Water	10/05/2004	14:25	10/06/2004	12:10
241274-12	ML-2R	Water	10/05/2004	13:40	10/06/2004	12:10
241274-13	ML-4	Water	10/04/2004	00:00	10/06/2004	12:10
241274-14	ML-5	Water	10/04/2004	00:00	10/06/2004	12:10

LABORATORY CHRONICLE

Job Number: 241274

Date: 10/26/2004

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: MIRON LUMBER 21061

ATTN: Liz Davis

Lab ID: 241274-1	Client ID: ML-10	Date Recvd: 10/06/2004	Sample Date: 10/01/2004		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #	(S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	76962		10/07/2004 1030
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	77096		10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400		10/12/2004 1156
EPA 200.7	Metals Analysis (ICP)	1	77408	76962	10/12/2004 1620
QA Services	Quality Assurance Services	1	78173		
Lab ID: 241274-2	Client ID: ML-12	Date Recvd: 10/06/2004	Sample Date: 10/02/2004		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #	(S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	76962		10/07/2004 1030
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	77096		10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400		10/12/2004 1200
EPA 200.7	Metals Analysis (ICP)	1	77408	76962	10/12/2004 1625
QA Services	Quality Assurance Services	1	78173		
Lab ID: 241274-3	Client ID: ML-3	Date Recvd: 10/06/2004	Sample Date: 10/03/2004		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #	(S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	76962		10/07/2004 1030
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	77096		10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400		10/12/2004 1204
EPA 200.7	Metals Analysis (ICP)	1	77408	76962	10/12/2004 1629
QA Services	Quality Assurance Services	1	78173		
Lab ID: 241274-4	Client ID: ML-11	Date Recvd: 10/06/2004	Sample Date: 10/04/2004		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #	(S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	76962		10/07/2004 1030
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	77096		10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400		10/12/2004 1208
EPA 200.7	Metals Analysis (ICP)	1	77408	76962	10/12/2004 1633
QA Services	Quality Assurance Services	1	78173		
Lab ID: 241274-5	Client ID: ML-9	Date Recvd: 10/06/2004	Sample Date: 10/04/2004		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #	(S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	76962		10/07/2004 1030
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	77096		10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400		10/12/2004 1212
EPA 200.7	Metals Analysis (ICP)	1	77571	76962	10/13/2004 1602
QA Services	Quality Assurance Services	1	78173		
Lab ID: 241274-6	Client ID: ML-14	Date Recvd: 10/06/2004	Sample Date: 10/04/2004		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #	(S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	76962		10/07/2004 1030
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	77096		10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400		10/12/2004 1216
EPA 200.7	Metals Analysis (ICP)	1	77408	76962	10/12/2004 1641
QA Services	Quality Assurance Services	1	78173		
Lab ID: 241274-7	Client ID: ML-8	Date Recvd: 10/06/2004	Sample Date: 10/04/2004		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #	(S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	76962		10/07/2004 1030
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	77096		10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400		10/12/2004 1220
EPA 200.7	Metals Analysis (ICP)	1	77571	76962	10/13/2004 1603
QA Services	Quality Assurance Services	1	78173		
Lab ID: 241274-8	Client ID: ML-6	Date Recvd: 10/06/2004	Sample Date: 10/04/2004		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #	(S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	76962		10/07/2004 1030

LABORATORY CHRONICLE

Job Number: 241274

Date: 10/26/2004

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: MIRON LUMBER 21061

ATTN: Liz Davis

Lab ID: 241274-8	Client ID: ML-6	Date Recvd: 10/06/2004	Sample Date: 10/04/2004
METHOD	DESCRIPTION	RUN#	BATCH# PREP BT # (S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion, Total Recoverable(ICAP)	1	77096 10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400 10/12/2004 1225
EPA 200.7	Metals Analysis (ICP)	1	77408 76962 10/12/2004 1650
QA Services	Quality Assurance Services	1	78173

Lab ID: 241274-9	Client ID: ML-13	Date Recvd: 10/06/2004	Sample Date: 10/05/2004
METHOD	DESCRIPTION	RUN#	BATCH# PREP BT # (S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion, Total Recoverable(ICAP)	1	76962 10/07/2004 1030
EPA 200.7	Acid Digestion, Total Recoverable(ICAP)	1	77096 10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400 10/12/2004 1229
EPA 200.7	Metals Analysis (ICP)	1	77408 76962 10/12/2004 1711
QA Services	Quality Assurance Services	1	78173

Lab ID: 241274-10	Client ID: ML-1	Date Recvd: 10/06/2004	Sample Date: 10/05/2004
METHOD	DESCRIPTION	RUN#	BATCH# PREP BT # (S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion, Total Recoverable(ICAP)	1	76962 10/07/2004 1030
EPA 200.7	Acid Digestion, Total Recoverable(ICAP)	1	77096 10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400 10/12/2004 1233
EPA 200.7	Metals Analysis (ICP)	1	77571 76962 10/13/2004 1603
QA Services	Quality Assurance Services	1	78173

Lab ID: 241274-11	Client ID: Equip. Blank	Date Recvd: 10/06/2004	Sample Date: 10/05/2004
METHOD	DESCRIPTION	RUN#	BATCH# PREP BT # (S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion, Total Recoverable(ICAP)	1	76962 10/07/2004 1030
EPA 200.7	Acid Digestion, Total Recoverable(ICAP)	1	77096 10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400 10/12/2004 1249
EPA 200.7	Metals Analysis (ICP)	1	77408 76962 10/12/2004 1720
QA Services	Quality Assurance Services	1	78173

Lab ID: 241274-12	Client ID: ML-2R	Date Recvd: 10/06/2004	Sample Date: 10/05/2004
METHOD	DESCRIPTION	RUN#	BATCH# PREP BT # (S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion, Total Recoverable(ICAP)	1	76962 10/07/2004 1030
EPA 200.7	Acid Digestion, Total Recoverable(ICAP)	1	77096 10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400 10/12/2004 1253
EPA 200.7	Metals Analysis (ICP)	1	77400 10/12/2004 1416 3.000
EPA 200.7	Metals Analysis (ICP)	1	77408 76962 10/12/2004 1724
EPA 200.7	Metals Analysis (ICP)	1	77408 76962 10/12/2004 1801 3
QA Services	Quality Assurance Services	1	78173

Lab ID: 241274-13	Client ID: ML-4	Date Recvd: 10/06/2004	Sample Date: 10/04/2004
METHOD	DESCRIPTION	RUN#	BATCH# PREP BT # (S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion, Total Recoverable(ICAP)	1	76962 10/07/2004 1030
EPA 200.7	Acid Digestion, Total Recoverable(ICAP)	1	77096 10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400 10/12/2004 1309
EPA 200.7	Metals Analysis (ICP)	1	77408 76962 10/12/2004 1818
QA Services	Quality Assurance Services	1	78173

Lab ID: 241274-14	Client ID: ML-5	Date Recvd: 10/06/2004	Sample Date: 10/04/2004
METHOD	DESCRIPTION	RUN#	BATCH# PREP BT # (S) DATE/TIME ANALYZED DILUTION
EPA 200.7	Acid Digestion, Total Recoverable(ICAP)	1	76962 10/07/2004 1030
EPA 200.7	Acid Digestion, Total Recoverable(ICAP)	1	77096 10/11/2004 1000
EPA 200.7	Metals Analysis (ICP)	1	77400 10/12/2004 1313
EPA 200.7	Metals Analysis (ICP)	1	77408 76962 10/12/2004 1823
QA Services	Quality Assurance Services	1	78173

THE ANALYTICAL METHODS MAY UTILIZE ONE OR MORE OF THE FOLLOWING
REFERENCES:

"Methods for Chemical Analysis of Water and Wastewater",
EPA-600/4-79-020, March 1983

"Standard Methods for the Examination of Water and Wastewater", 18th
Edition, 1992

Atomic Absorption - Furnace Technique

"Test Methods for Evaluating Solid Waste", USEPA-SW846, Third Edition,
September 1986 with all current revisions.

"Standard Methods for the Examination of Water and Wastewater",
17th Edition, 1989.

HACH8000 1979 Handbook

"New York State Department of Environmental Conservation Analytical
Services Protocol, Vol.2, October 1995.

"Determination of Cyanide" (Macro Distillation Method in Waters),
QUIK CHEM Method 10-204-00-1-A, Karin Wendt, Revised June 6,
1996, Lachat Instruments, Milwaukee, Wi. 53218

"Determination of Nitrate/Nitrite in Surface and Wastewaters by Flow
Injection Analysis", QUICK CHEM Method 10-107041A, Karin Wendt,
Revised June 24, 1997, Zellweger Analytics, Milwaukee, Wi. 53218

"Determination of Total Recoverable Phenols by Flow Injection
Analysis Colorimetry", QUIK CHEM Method 10-210-00-1-A, Ninglan
Liao, Revised August 6, 1996, Lachat Instruments, Milwaukee, Wi.
53218.

"Determination of Nitrogen, Total Kjeldahl by Flow Injection Analysis
Colorimetry" QUIK CHEM Method 10-107-06-2-D, Kevin Switala,
Revised October 7, 1997, Lachat Instruments, Milwaukee, Wi 53218.

Enterolert - (Idexx)

"American Society for Testing and Materials."

STL Newburgh

CUSTOMER NAME	Sterling Env. Eng. P.C.		
ADDRESS	24 Wade Road		
CITY, STATE, ZIP	Latham, NY 12110		
NAME OF CONTACT	PHONE NO.		
Liz Davis	(518) 456-4900		
PROJECT LOCATION	Miron Lumber		
PROJECT NUMBER / PO NO.	21061		

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ± 2°C.

STL #	SAMPLING DATE	TIME AM PM	COMP	GRAB	MATRIX	CLIENT I.D.
1	10/1				X GW	ML-10
2	10/02					ML-12
3	10/03					ML-3
4	10/4					ML-11
5	10/4					ML-9
6	10/4	13:15				ML-14
7	10/4	12:50				ML-8
8	10/4	13:30				ML-6
9	10/5	12:00				ML-13
10		14:25				ML-1
11		13:40				EQUIP. BLANK
12						ML-2R

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECT TO THE STL TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
W. Davis	Sterling	10/05/04	17:00				
SAMPLED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

COMMENTS

STL Newburgh

CUSTOMER NAME	Sterling Env. Eng. P.C.		
ADDRESS	24 Wade Rd		
CITY, STATE, ZIP	Latham, NY 12110		
NAME OF CONTACT	Liz Davis	PHONE NO.	(518) 456-9900
PROJECT LOCATION	Miron Lumber		
PROJECT NUMBER / PO NO.	21061		

REPORT TYPE	TURNAROUND
STANDARD <input type="checkbox"/> ISRA <input type="checkbox"/>	<input checked="" type="checkbox"/> NORMAL
NJ REG <input type="checkbox"/>	<input type="checkbox"/> QUICK
NYASP A <input type="checkbox"/> B <input checked="" type="checkbox"/> CLP <input type="checkbox"/>	<input type="checkbox"/> VERBAL
OTHER	

REPORT # (Lab Use Only)	2412774
SAMPLE TEMP	41° C
SAMPLE REC'D ON ICE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
PH CHECK	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
CHLORINE (RESIDUAL)	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
REVIEWED BY:	ag
NY PUBLIC WATER SUPPLIES	
SOURCE ID	
ELRP TYPE	
FEDERAL ID	

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

**NOTE: SAMPLE TEMPERATURE UPON
RECEIPT MUST BE 4° ± 2°C.**

STL #	SAMPLING DATE	TIME	GRAB	MATRIX	CLIENT I.D.	Total of Containers	40mL H ₂ O	Liter Amber H ₂ O	250mL Amber Sulfuric	Liter Organic Washed	250mL Plastic Nitric Acid	250mL Plastic Sodium Hydroxide	Liter Plastic Sulfuric Acid	250mL Plastic Sterile	8 oz. Soil	2 oz. Gorpak	250mL Plastic NAOH / ZN ACC
12	10/05/04		✓	GW	ML-2R (MS)	2					500						
12	10/05/04		✓		ML-2R (MSD)	2					500						
13	10/05/04		✓		ML-4	2											
14	10/05/04		✓		ML-5	2											
LAB USE ONLY																	
800 000																	

ANALYSIS REQUESTED

TOTAL + DISSOLVED METALS
FOR AS, CU, CR
EPA METHOD 200.7

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECTED TO THE STL TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY	COMPANY	DATE	TIME
Liz Davis	Sterling	10/05/04	17:00
SAMPLED BY	COMPANY	DATE	TIME
		10/06/04	1210
RELINQUISHED BY	COMPANY	DATE	TIME

COMMENTS

DATA REPORTING QUALIFIERS

Data qualifiers are used in the analytical report for organics and inorganics. The qualifiers are equivalent to those used by the USEPA in its Contract Laboratory Program.

ORGANIC QUALIFIERS

- U - Indicates that the compound was analyzed for but not detected. The sample detection limit is corrected for dilution and percent moisture. This detection limit is not necessarily the instrument detection limit.
- J - Indicates an estimated value. This qualifier is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria and the result is less than the specified detection limit but greater than zero.
- B - Indicates that the analyte was found in both the sample and its associated laboratory blank. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- C - This qualifier applies to pesticide parameters where the identification has been confirmed by gas chromatography/mass spectrometry.
- E - This qualifier indicates compounds whose concentrations exceed the calibration range of the instrument for the specific analysis.
- D - Indicates all compounds identified in an analysis at a secondary dilution factor.
- DL - This suffix indicates a diluted sample and is appended to the sample number on the result form.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
- P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentration between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with an "P".
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- RE - This suffix indicates a re-analyzed sample and is appended to the sample number on the result form.

DATA REPORTING QUALIFIERS

Page 2

RR - This suffix indicates a re-extracted and re-analyzed sample and is appended to the sample number on the result form.

INORGANICS

Concentration Qualifiers (C)

U - Indicates that the analyte was analyzed for but not detected.

B - The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL).

Quality Qualifiers (Q)

E - Indicates an estimated value because of the presence of interference.

M - Duplicate injection precision not met.

N - Spiked sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

W - Post digestion spike for furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

Method Qualifiers (M)

P - for ICP.

A - for Flame AA.

F - for Furnace AA.

PM - for ICP when Microwave Digestion is used.

AM - for Flame AA when Microwave Digestion is used.

FM - for Furnace AA when Microwave Digestion is used.

CV - for Manual Cold Vapor AA.

AV - for Automated Cold Vapor AA.

AS - for Semi-Automated Spectrophotometric

C - for Manual Spectrophotometric

T - for Titrimetric.

NR - if the analyte is not required to be analyzed.

LABORATORY TEST RESULTS										
Job Number: 241274					Date: 10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC					PROJECT: MIRON LUMBER 21061					
Customer Sample ID: ML-10 Date Sampled.....: 10/01/2004 Time Sampled.....: 00:00 Sample Matrix.....: Water					Laboratory Sample ID: 241274-1 Date Received.....: 10/06/2004 Time Received.....: 12:10					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	5.0	B	2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	1.9	U	1.9	10.0	1	ug/L		10/12/04	mwH
	Chromium (Cr)	1.2	B	0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	2.3	B	0.60	10.0	1	ug/L		10/12/04	mwH
	Copper (Cu)	3.3	U	3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	2.5	B	1.6	25.0	1	ug/L		10/12/04	mwH

000011

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LABORATORY TEST RESULTS										
Job Number: 241274					Date: 10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC					PROJECT: MIRON LUMBER 21061					
Customer Sample ID: ML-12 Date Sampled.....: 10/02/2004 Time Sampled.....: 00:00 Sample Matrix.....: Water					Laboratory Sample ID: 241274-2 Date Received.....: 10/06/2004 Time Received.....: 12:10					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)	3.7	B	2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As)	1.9	U	1.9	10.0	1	ug/L		10/12/04	mwh
	Arsenic (As), Diss.	0.82	B	0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr)	1.6	B	0.60	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr), Diss.	3.8	B	3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu)	1.6	U	1.6	25.0	1	ug/L		10/12/04	mwh
000012										

000012

LABORATORY TEST RESULTS										
Job Number: 241274					Date: 10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC					PROJECT: MIRON LUMBER 21061					
Customer Sample ID: ML-3 Date Sampled.....: 10/03/2004 Time Sampled.....: 00:00 Sample Matrix.....: Water					Laboratory Sample ID: 241274-3 Date Received.....: 10/06/2004 Time Received.....: 12:10					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)	2.7	U	2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As)	1.9	U	1.9	10.0	1	ug/L		10/12/04	mwh
	Arsenic (As), Diss.	0.70	U	0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr)	1.5	B	0.60	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr), Diss.	3.3	U	3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu)	1.6	U	1.6	25.0	1	ug/L		10/12/04	mwh
000013										

LABORATORY TEST RESULTS										
Job Number: 241274					Date:10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC					PROJECT: MIRON LUMBER 21061					
ATTN: Liz Davis										
Customer Sample ID: ML-11					Laboratory Sample ID: 241274-4					
Date Sampled.....: 10/04/2004					Date Received.....: 10/06/2004					
Time Sampled.....: 00:00					Time Received.....: 12:10					
Sample Matrix.....: Water										
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	2.7	U	2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	1.9	U	1.9	10.0	1	ug/L		10/12/04	nwh
	Chromium (Cr)	3.0	B	0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	3.7	B	0.60	10.0	1	ug/L		10/12/04	nwh
	Copper (Cu)	3.3	U	3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	2.4	B	1.6	25.0	1	ug/L		10/12/04	nwh

000014

000014

Job Number: 241274

LABORATORY TEST RESULTS

Date:10/26/2004

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: MIRON LUMBER 21061

ATTN: Liz Davis

Customer Sample ID: ML-9

Date Sampled.....: 10/04/2004

Time Sampled.....: 00:00

Sample Matrix.....: Water

Laboratory Sample ID: 241274-5

Date Received.....: 10/06/2004

Time Received.....: 12:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	55.9		1.9	10.0	1	ug/L		10/13/04	mad
	Arsenic (As), Diss.	1.9	U	1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	129		0.60	10.0	1	ug/L		10/13/04	mad
	Chromium (Cr), Diss.	1.0	B	0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	326		1.6	25.0	1	ug/L		10/13/04	mad
	Copper (Cu), Diss.	1.6	B	1.6	25.0	1	ug/L		10/12/04	mwh

000015

* In Description = Dry Wgt.

LABORATORY TEST RESULTS										
Job Number: 241274					Date: 10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC					PROJECT: MIRON LUMBER 21061					
					ATTN: Liz Davis					
Customer Sample ID: ML-14					Laboratory Sample ID: 241274-6					
Date Sampled.....: 10/04/2004					Date Received.....: 10/06/2004					
Time Sampled.....: 13:15					Time Received.....: 12:10					
Sample Matrix.....: Water										
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	4.6	B	2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	1.9	U	1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	104		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	104		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	7.3	B	3.3	25.0	1	ug/L		10/12/04	mad
000016	Copper (Cu), Diss.	1.6	U	1.6	25.0	1	ug/L		10/12/04	mwh

LABORATORY TEST RESULTS										
Job Number: 241274					Date: 10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC					PROJECT: MIRON LUMBER 21061					
ATTN: Liz Davis										
Customer Sample ID: ML-8					Laboratory Sample ID: 241274-7					
Date Sampled.....: 10/04/2004					Date Received.....: 10/06/2004					
Time Sampled.....: 12:50					Time Received.....: 12:10					
Sample Matrix.....: Water										
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	46.9		1.9	10.0	1	ug/L		10/13/04	mad
	Arsenic (As), Diss.	1.9	U	1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	91.0		0.60	10.0	1	ug/L		10/13/04	mad
	Chromium (Cr), Diss.	3.1	B	0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	235		1.6	25.0	1	ug/L		10/13/04	mad
	Copper (Cu), Diss.	1.6	U	1.6	25.0	1	ug/L		10/12/04	mwh

000017

000017

LABORATORY TEST RESULTS										
Job Number: 241274					Date: 10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC					PROJECT: MIRON LUMBER 21061					
Customer Sample ID: ML-6 Date Sampled.....: 10/04/2004 Time Sampled.....: 13:30 Sample Matrix.....: Water					Laboratory Sample ID: 241274-8 Date Received.....: 10/06/2004 Time Received.....: 12:10					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	3.0	B	2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	1.9	U	1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	103		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	107		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	6.7	B	3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	1.6	B	1.6	25.0	1	ug/L		10/12/04	mwh

000018

000018

LABORATORY TEST RESULTS										
Job Number: 241274					Date:10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC					ATTN: Liz Davis					
PROJECT: MIRON LUMBER 21061										
Customer Sample ID: ML-13 Date Sampled.....: 10/05/2004 Time Sampled.....: 12:00 Sample Matrix.....: Water					Laboratory Sample ID: 241274-9 Date Received.....: 10/06/2004 Time Received.....: 12:10					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	2190		2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	1920		1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	984		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	909		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	5.4	B	3.3	25.0	1	ug/L		10/12/04	mad
000019	Copper (Cu), Diss.	1.6	U	1.6	25.0	1	ug/L		10/12/04	mwh

* In Description = Dry Wgt.

LABORATORY TEST RESULTS										
Job Number: 241274					Date: 10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC					PROJECT: MIRON LUMBER 21061					
ATTN: Liz Davis										
Customer Sample ID: ML-1					Laboratory Sample ID: 241274-10					
Date Sampled.....: 10/05/2004					Date Received.....: 10/06/2004					
Time Sampled.....: 14:25					Time Received.....: 12:10					
Sample Matrix.....: Water										
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	2.0	B	1.9	10.0	1	ug/L		10/13/04	mad
	Arsenic (As), Diss.	11.9		1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	27.6		0.60	10.0	1	ug/L		10/13/04	mad
	Chromium (Cr), Diss.	26.2		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	10.4	B	1.6	25.0	1	ug/L		10/13/04	mad
	Copper (Cu), Diss.	1.6	U	1.6	25.0	1	ug/L		10/12/04	mwh

000020

LABORATORY TEST RESULTS											
Job Number: 241274					Date: 10/26/2004						
CUSTOMER: Sterling Environmental Engineering, PC					PROJECT: MIRON LUMBER 21061						
Customer Sample ID: Equip. Blank Date Sampled.....: 10/05/2004 Time Sampled.....: 14:25 Sample Matrix.....: Water					Laboratory Sample ID: 241274-11 Date Received.....: 10/06/2004 Time Received.....: 12:10 ATTN: Liz Davis						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)										
	Arsenic (As)	6.1	B		2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	4.2	B		1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	1.6	B		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	1.3	B		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	3.3	U		3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	1.8	B		1.6	25.0	1	ug/L		10/12/04	mwh
000021											

* In Description = Dry Wgt.

LABORATORY TEST RESULTS											
Job Number: 241274					Date: 10/26/2004						
CUSTOMER: Sterling Environmental Engineering, PC					PROJECT: MIRON LUMBER 21061						
Customer Sample ID: ML-2R Date Sampled.....: 10/05/2004 Time Sampled.....: 13:40 Sample Matrix.....: Water					Laboratory Sample ID: 241274-12 Date Received.....: 10/06/2004 Time Received.....: 12:10						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP) Arsenic (As) Arsenic (As), Diss. Chromium (Cr) Chromium (Cr), Diss. Copper (Cu) Copper (Cu), Diss.	25400 21100 168 165 84.1 33.0			8.1 5.7 0.70 0.60 3.3 1.6	30.0 30.0 10.0 10.0 25.0 25.0	3 3.000 1 1 1 1	ug/L ug/L ug/L ug/L ug/L ug/L		10/12/04 10/12/04 10/12/04 10/12/04 10/12/04 10/12/04	mad nmh mad nmh mad nmh

000022

LABORATORY TEST RESULTS										
Job Number: 241274					Date: 10/26/2004					
CUSTOMER: Sterling Environmental Engineering, PC					PROJECT: MIRON LUMBER 21061					
Customer Sample ID: ML-4 Date Sampled.....: 10/04/2004 Time Sampled.....: 00:00 Sample Matrix.....: Water					Laboratory Sample ID: 241274-13 Date Received.....: 10/06/2004 Time Received.....: 12:10					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	828		2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	922		1.9	10.0	1	ug/L		10/12/04	nmh
	Chromium (Cr)	488		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	486		0.60	10.0	1	ug/L		10/12/04	nmh
	Copper (Cu)	3.3	U	3.3	25.0	1	ug/L		10/12/04	mad
000023	Copper (Cu), Diss.	2.9	B	1.6	25.0	1	ug/L		10/12/04	nmh

* In Description = Dry Wgt.

Job Number: 241274

Date: 10/26/2004

LABORATORY TEST RESULTS

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: MIRON LUMBER 21061

ATTN: Liz Davis

Customer Sample ID: ML-4

Date Sampled.....: 10/04/2004

Time Sampled.....: 00:00

Sample Matrix.....: Water

Laboratory Sample ID: 241274-13

Date Received.....: 10/06/2004

Time Received.....: 12:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	828		2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	922		1.9	10.0	1	ug/L		10/12/04	mwh
	Chromium (Cr)	488		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	486		0.60	10.0	1	ug/L		10/12/04	mwh
	Copper (Cu)	3.3	U	3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	2.9	B	1.6	25.0	1	ug/L		10/12/04	mwh

000023

* In Description = Dry Wgt.

Job Number: 241274

Date: 10/26/2004

LABORATORY TEST RESULTS

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: MIRON LUMBER 21061

ATTN: Liz Davis

Customer Sample ID: ML-5

Laboratory Sample ID: 241274-14

Date Sampled.....: 10/04/2004

Date Received.....: 10/06/2004

Time Sampled.....: 00:00

Time Received.....: 12:10

Sample Matrix.....: Water

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Metals Analysis (ICP)									
	Arsenic (As)	246		2.7	10.0	1	ug/L		10/12/04	mad
	Arsenic (As), Diss.	95.6		1.9	10.0	1	ug/L		10/12/04	nmh
	Chromium (Cr)	140		0.70	10.0	1	ug/L		10/12/04	mad
	Chromium (Cr), Diss.	5.5	B	0.60	10.0	1	ug/L		10/12/04	nmh
	Copper (Cu)	50.9		3.3	25.0	1	ug/L		10/12/04	mad
	Copper (Cu), Diss.	3.5	B	1.6	25.0	1	ug/L		10/12/04	nmh

000024

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

[illegible]

000025

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

[illegible]

000026

SEVERN
TRENT **STL**

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315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

2A

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

[illegible]

000028

SEVERN
TRENT **STL**

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Fax (845) 562-0841

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

[illegible]

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Fax (845) 562-0841

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Fax (845) 562-0841

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: SAS No.: SDG No.:

Initial Calibration Source: M03IRICV01

Continuing Calibration Source: M03IRCCV02

Concentration Units: ug/L

[illegible]

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Form II (PART 1) - IN

000031

ILM04.0

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

[illegible]

Form II (PART 1) - IN

ILM04.0

000032

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

ILM04.0

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Newburgh, NY 12550
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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

[illegible]

Form II (PART 1) - IN

000034

ILM04.0

SEVERN
TRENT
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M-NY049

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: SAS No.: SDG No.:

Initial Calibration Source: M02ISBICV1

Continuing Calibration Source: M02ISBCCV1

Concentration Units: ug/L

[illegible]

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Form II (PART 1) - IN

ILM04.0

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000035

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EPA NY049

PA 68-378

M-NY049

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Fax (845) 562-0841

2A

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: _____

Initial Calibration Source: M03IRICV01

Continuing Calibration Source: M03IRCCV02

[illegible]

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Fax (845) 562-0841

2A

2A

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: _____

Initial Calibration Source: M03IRICV01

Continuing Calibration Source: M03IRCCV02

[illegible]

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2B
CRDL STANDARD FOR AA AND ICP

Concentration Units: ug/L

[illegible]

000039

ILM04.0
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2B
CRDL STANDARD FOR AA AND ICP

Concentration Units: ug/L

[illegible]

000040

STL Newburgh
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Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

2B
CRDL STANDARD FOR AA AND ICP

Concentration Units: ug/L

[illegible]

Form II (PART 2) - IN
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000041

ILM04.0
STL Newburgh

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PA 68-378

M-NY049

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2B
CRDL STANDARD FOR AA AND ICP

Concentration Units: ug/L

[illegible]

Form II (PART 2) - IN
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000042

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Newburgh, NY 12550
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Fax (845) 562-0841

3
BLANKS

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: SAS No.: SDG No.:

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L[illegible]

FORM III - IN

ILM04.0

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000043

SEVERN
TRENT **STL**

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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Tel (845) 562-0890
Fax (845) 562-0841

3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): _____

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Fax (845) 562-0841

3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

00045

3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

000046

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
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Newburgh, NY 12550
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Fax (845) 562-0841

3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

000047

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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Fax (845) 562-0841

3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

000048

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4
ICP INTERFERENCE CHECK SAMPLE

ICS Source: M03ISA001/M03ISR001

[illegible]

M-NY049

4
ICP INTERFERENCE CHECK SAMPLE

ICS Source: M03ISA002/M03ISR002

[illegible]

STL Newburgh
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Newburgh, NY 12550
Tel (845) 562-0890
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4

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: _____

ICP ID Number: ICP3 ICS Source: M03ISA002/M03ISR002

000051

ILM04.0

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

4
ICP INTERFERENCE CHECK SAMPLE

ICS Source: M03ISA002/M03ISR002

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

4
ICP INTERFERENCE CHECK SAMPLE

ICS Source: M03ISA002/M03ISR002

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ML-2RS

Lab Name: STL Newburgh

Contract: _____

Lab Code: 10142 Case No.: _____

SAS No. : _____

SDG No. : _____

Matrix (soil/water): Water

Level (low/med) : _____

% Solids for Sample: _____

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Comments :

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000054

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fuller Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

5A
SPIKE SAMPLE RECOVERY

ML-2RS

% Solids for Sample: _____

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Comments:

6
DUPLICATES

EPA SAMPLE NO.

ML-2RD

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: SAS No.: SDG No.:

Matrix (soil/water): Water Level (low/med):

% Solids for Sample: % Solids for Duplicate:

Concentration Units (ug/L or mg/Kg dry weight): ug/L

[illegible]

FORM VI - IN

ILM04.0

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000056

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NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
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Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

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6
DUPLICATES

EPA SAMPLE NO.

ML-2RD

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: SAS No.: SDG No.:

Matrix (soil/water): Water Level (low/med):

% Solids for Sample: _____ % Solids for Duplicate: _____

Concentration Units (ug/L or mg/Kg dry weight): ug/L

FORM VI - IN

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PA 68-378

M-NY049

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7

LABORATORY CONTROL SAMPLE

Lab Name: STZ-Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: _____

Solid LCS Source: M04SO47UGL

Aqueous LCS Source: M04ILCS003

000058

ILM04.0

Form VII - IN
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315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

9

ICP SERIAL DILUTIONS

ML-2R

Level (low/med): _____

000059

FORM IX - IN

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CTDOHS PH-0554

EPA NY049

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STL Newburgh
315 Fulton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

9

ICP SERIAL DILUTIONS

ML-2R

Level (low/med) : _____

00060

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ST. Newburgh
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Tel (845) 562-0890
Fax (845) 562-0841

13

Contract:

SDG NO.: 241274

Method : P

00061

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Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

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14
ANALYSIS RUN LOG

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID Number: ICP1 Method: P
 Start Date: 10/12/2004 End Date: 10/12/2004

EPA Sample No.	D/F	Time	% R	Analytes																					
				S C	A L	S B	A S	B A	B E	C D	C A H	C A	C R	C O	C U	F E	P B	M G	M N	N I	K	S E	A G	N A	T L
IS	1.00	1453		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAL	1.00	1454		-	X	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
CAL	1.00	1458		-	X	-	-	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
CAL	1.00	1501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAL	1.00	1505		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
K	1.00	1508		-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
SB	1.00	1512		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS	1.00	1516		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NA	1.00	1519		-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
3-3	1.00	1522		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	1526		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	1530		-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	1534		-	X	-	-	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
ICB	1.00	1538		-	X	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
CRI	1.00	1542		-	-	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
ICSA	1.00	1547		-	X	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
ICSAB	1.00	1552		-	X	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
CCV	1.00	1556		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1600		-	X	-	-	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
CCV	1.00	1604		-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1608		-	X	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
MB	1.00	1612		-	-	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
LCSW	1.00	1616		-	-	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
ML-10	1.00	1620		-	-	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
ML-12	1.00	1625		-	-	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
ML-3	1.00	1629		-	-	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
ML-11	1.00	1633		-	-	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
ML-9	1.00	1637		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ML-14	1.00	1641		-	-	-	X	-	-	-	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-8	1.00	1646		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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 Newburgh, NY 12550
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 Fax (845) 562-0841

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14
ANALYSIS RUN LOG

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID Number: ICP1 Method: P
 Start Date: 10/12/2004 End Date: 10/12/2004

EPA Sample No.	D/F	Time	% R	Analytes																					
				S C	A L	S B	A S	B A	B E	C D	C A H	C A	C R	C O	C U	F E	P B	M G	M N	N I	K	S E	A G	N A	T L
ML-6	1.00	1650		-	-	-	X	-	-	-	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1654		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1659		-	X	-	-	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
CCV	1.00	1703		-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1707		-	-	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
ML-13	1.00	1711		-	-	-	X	-	-	-	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-1	1.00	1716		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p. Blank	1.00	1720		-	-	-	X	-	-	-	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-2R	1.00	1724		-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-
ML-2RD	1.00	1728		-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-
ML-2RS	1.00	1732		-	-	-	-	-	-	-	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-2RS	1.00	1737		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ML-2RL	5.00	1741		-	-	-	-	-	-	-	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1745		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1749		-	X	-	-	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
CCV	1.00	1753		-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1757		-	X	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
ML-2R	3.00	1801		-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ML-2RD	3.00	1806		-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ML-2RS	3.00	1810		-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ML-2RL	15.00	1814		-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ML-4	1.00	1818		-	-	-	X	-	-	-	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-5	1.00	1823		-	-	-	X	-	-	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-
CRI	1.00	1827		-	-	-	X	-	-	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-
ICSA	1.00	1832		-	X	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
ICSAB	1.00	1836		-	X	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
CCV	1.00	1840		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1845		-	X	-	-	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-
CCV	1.00	1849		-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1853		-	X	-	X	-	-	-	-	X	X	-	X	X	-	X	-	-	-	-	-	-	-

000063

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

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PA 68-378

M-NY049

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315 Futerich Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

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14
ANALYSIS RUN LOG

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID Number: ICP3 Method: P
 Start Date: 10/12/2004 End Date: 10/12/2004

EPA Sample No.	D/F	Time	% R	Analytes																	
				S C	A L	A S	B A	C A H	C R	C O	C U	F E	M G	C A							
IS	1.00	1101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAL	1.00	1102		-	X	X	-	-	X	-	X	X	X	X	-	-	-	-	-	-	-
CAL	1.00	1106		-	X	-	-	-	X	-	X	X	X	X	-	-	-	-	-	-	-
K	1.00	1110		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-
AS	1.00	1114		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	1118		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	1122		-	X	-	-	-	X	-	X	X	X	X	-	-	-	-	-	-	-
ICB	1.00	1126		-	X	X	-	-	X	-	X	X	X	X	-	-	-	-	-	-	-
CRI	1.00	1130		-	-	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	1134		-	X	X	-	-	X	-	X	X	X	X	-	-	-	-	-	-	-
ICSAB	1.00	1139		-	X	X	-	-	X	-	X	X	X	X	-	-	-	-	-	-	-
CCV	1.00	1144		-	X	-	-	-	X	-	X	X	X	X	-	-	-	-	-	-	-
CCV	1.00	1148		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1152		-	X	X	-	-	X	-	X	X	X	X	-	-	-	-	-	-	-
ML-10	1.00	1156		-	-	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-12	1.00	1200		-	-	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-3	1.00	1204		-	-	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-11	1.00	1208		-	-	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-9	1.00	1212		-	-	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-14	1.00	1216		-	-	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-8	1.00	1220		-	-	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-6	1.00	1225		-	-	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-13	1.00	1229		-	-	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-1	1.00	1233		-	-	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1237		-	X	-	-	-	X	-	X	X	X	X	-	-	-	-	-	-	-
CCV	1.00	1241		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1245		-	X	X	-	-	X	-	X	X	X	X	-	-	-	-	-	-	-
p. Blank	1.00	1249		-	-	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-2R	1.00	1253		-	-	-	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
ML-2RD	1.00	1257		-	-	-	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-

000064

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NJDEP 73015

CTDOHS PH-0554

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Tel (845) 562-0890
Fax (845) 562-0841

14
ANALYSIS RUN LOG

End Date: 10/12/2004

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Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

14
ANALYSIS RUN LOG

Start Date: 10/13/2004 End Date: 10/13/2004

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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Tel (845) 562-0890
Fax (845) 562-0841

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14
ANALYSIS RUN LOG

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: _____
Instrument ID Number: ICP3 Method: P
Start Date: 10/13/2004 End Date: 10/13/2004

EPA Sample No.	D/F	Time	% R	Analytes																				
				S C	A L	S B	A S	B A	B E	C D	C A H	C R	C O	C U	F E	P B	M G	M N	N I	K	S E	A G	N A	T L
ZZZZZZ	1.00	1550		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1551		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1551		-	X	-	-	-	-	-	-	X	-	X	X	-	X	-	-	-	-	-	-	-
CCV	1.00	1551		-	X	-	X	-	-	-	-	X	-	X	X	-	X	-	-	-	-	-	-	-
CCB	1.00	1552		-	X	-	X	-	-	-	-	X	-	X	X	-	X	-	-	-	-	-	-	-
ZZZZZZ	1.00	1552		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1552		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1553		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1553		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1553		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1553		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1554		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	1554		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	1554		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	1555		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1555		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1555		-	X	-	-	-	-	-	-	X	-	X	X	-	X	-	-	-	-	-	-	-
CCV	1.00	1556		-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1556		-	X	-	X	-	-	-	-	X	-	X	X	-	X	-	-	-	-	-	-	-
ZZZZZZ	1.00	1556		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1557		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1557		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1558		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD	1.00	1558		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MS	1.00	1558		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MS	1.00	1559		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SD	1.00	1559		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1559		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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FORM XIV - IN

000067

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TRENT

STL

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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14
ANALYSIS RUN LOG

[illegible]

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14
ANALYSIS RUN LOG

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U. S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID Number: ICP3 Method: P
 Start Date: 10/13/2004 End Date: 10/13/2004

EPA Sample No.	D/F	Time	% R	Analytes																			
				Z N	B	M O	C A	N A L															
ZZZZZZ	1.00	1550																					
CCV	1.00	1551																					
CCV	1.00	1551					X																
CCV	1.00	1551					X																
CCB	1.00	1552					X																
ZZZZZZ	1.00	1552																					
ZZZZZZ	1.00	1552																					
ZZZZZZ	1.00	1553																					
ZZZZZZ	1.00	1553																					
ZZZZZZ	1.00	1553																					
ZZZZZZ	1.00	1553																					
ZZZZZZ	1.00	1554																					
CRI	1.00	1554																					
ICSA	1.00	1554																					
ICSAB	1.00	1555																					
CCV	1.00	1555																					
CCV	1.00	1555					X																
CCV	1.00	1556					X																
CCB	1.00	1556					X																
ZZZZZZ	1.00	1556																					
ZZZZZZ	1.00	1557																					
ZZZZZZ	1.00	1557																					
ZZZZZZ	1.00	1558																					
MD	1.00	1558																					
MS	1.00	1558																					
MS	1.00	1559																					
SD	1.00	1559																					
ZZZZZZ	1.00	1559																					
ZZZZZZ	1.00	1600																					
CCV	1.00	1600																					

000070

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FORM XIV - IN



NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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14
ANALYSIS RUN LOG

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INSTRUMENT DETECTION LIMITS

Lab Name: STL NEWBURGH

Lab Code: 10142

ICP ID Number: ICP-1

Flame AA ID Number:

Furnace AA ID Number:

Contract:

SDG NO.: 241274

Date : March-04

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/l)	IDL (ug/l)	M
Aluminum	308.22		200.0	38.4	P
Antimony	206.83		60.0	7.1	P
Arsenic	188.98		10.0	2.7	P
Barium	233.53		200.0	0.4	P
Beryllium	313.11		5.0	0.4	P
Boron	249.68		50.0	4.1	P
Cadmium	226.50		5.0	0.4	P
Calcium	430.25		5000.0	51.7	P
Calcium	227.55		5000.0	76	P
Chromium	205.55		10.0	0.7	P
Cobalt			50.0	3.2	P
Copper	324.75		25.0	3.3	P
Iron	273.96		100.0	18.9	P
Lead	220.35		3.0	2.5	P
Magnesium	279.08		5000.0	11.7	P
Manganese	257.61		15.0	1.1	P
Mercury					P
Molybdenum	202.03		50.0	2.3	P
Nickel	231.60		40.0	2.6	P
Potassium	766.49		5000.0	54.8	P
Selenium	196.03		5.0	6.6	P
Silver	338.29		10.0	1.9	P
Sodium	330.24		5000.0	130	P
Sodium	589.00		5000.0	18.8	P
Thallium	190.80		10.0	2.8	P
Tin	189.93		200.0		P
Vanadium	292.40		50.0	3.3	P
Zinc	206.20		20.0	1.9	P

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000072

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL NEWBURGH
Lab Code: 10142
ICP ID Number: ICP-1

Contract:
SDG No.: 241274
Date: March-04

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Mn
Aluminum	308.22		0.0000000	-0.0150000	0.0000000	0.0000000
Antimony	206.33	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	188.98	0.0630000	0.0000000	-0.0900000	0.0000000	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.11	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0300000	0.0000000	0.0000000
Calcium	430.25	0.0000000		0.0000000	0.0000000	0.0000000
Chromium	205.55	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	-0.0100000	0.0000000	0.0000000
Iron	273.96	-0.0150000	0.0000000		0.0000000	0.0000000
Lead	220.35	-0.0500000	0.0005000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000		0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0250000	
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	-0.0050000	-0.0400000	0.5000000	0.0000000	0.0000000
Silver	338.29	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.24	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	-0.0550000	0.0000000	0.0000000	0.0000000	1.5000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0350000	0.0000000

FORM XI (PART 1) - IN

000073

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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Fax (845) 562-0841

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL NEWBURGH
Lab Code: 10142
ICP ID Number: ICP-1

Contract:
SDG No.: 241274
Date: March-04

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		CO	V			
Aluminum	308.22	0.0000000	0.0000000			
Antimony	206.33	0.0000000	0.0000000			
Arsenic	188.98	0.0000000	0.0000000			
Barium	233.53	0.0000000	0.0000000			
Beryllium	313.11	0.0000000	0.0000000			
Cadmium	226.50	0.2300000	0.0000000			
Calcium	430.25	0.0000000	0.0000000			
Chromium	205.55	0.0000000	0.0000000			
Cobalt	228.62		0.0000000			
Copper	324.75	0.0000000	0.0000000			
Iron	273.96	0.0000000	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Magnesium	279.08	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Mercury		0.0000000	0.0000000			
Nickel	231.60	0.0000000	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.03	0.0000000	0.0000000			
Silver	338.29	0.0000000	0.0000000			
Sodium	330.24	0.0000000	0.0000000			
Thallium	190.80	0.0000000	1.0755400			
Vanadium	292.40	0.0000000				
Zinc	206.20	0.0000000	0.0000000			

FORM XI (PART 1) - IN

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000074

12
ICP LINEAR RANGES

Lab Name: STL NEWBURGH
Lab Code: 10142
ICP ID Number: ICP-1

Contract:
SDG No.: 241274
Date: March-04

Analyte	Integ. Time (Sec.)	Concentration (ug/l)	M
Aluminum	20.0	500000.0	P
Antimony	20.0	10000.0	P
Arsenic	20.0	20000.0	P
Barium	20.0	50000.0	P
Beryllium	20.0	10000.0	P
Cadmium	20.0	10000.0	P
Calcium	20.0	600000.0	P
Chromium	20.0	40000.0	P
Cobalt	20.0	50000.0	P
Copper	20.0	50000.0	P
Iron	20.0	100000.0	P
Lead	20.0	25000.0	P
Magnesium	20.0	500000.0	P
Manganese	20.0	20000.0	P
Mercury	20.0		
Nickel	20.0	50000.0	P
Potassium	20.0	10000.0	P
Selenium	20.0	10000.0	P
Silver	20.0	2500.0	P
Sodium	20.0	500000.0	P
Thallium	20.0	10000.0	
Vanadium	20.0	50000.0	P
Zinc	20.0	20000.0	P

FORM XII - IN

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

000075

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Fax (845) 562-0841

10
INSTRUMENT DETECTION LIMITS

Lab Name: STL NEWBURGH
Lab Code: 10142
ICP ID Number: ICP-3
Flame AA ID Number:
Furnace AA ID Number:

Contract:
SDG NO.: 241274
Date : March-04

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/l)	IDL (ug/l)	M
Aluminum	308.22		200.0	18.2	P
Antimony	206.83		60.0	5.8	P
Arsenic	188.98		10.0	1.9	P
Barium	233.53		200.0	0.4	P
Beryllium	313.11		5.0	0.3	P
Boron	249.68		50.0	2.3	P
Cadmium	226.50		5.0	0.4	P
Calcium	430.25		5000.0	35.8	P
Calcium	227.55		5000.0	90	P
Chromium	205.55		10.0	0.6	P
Cobalt	228.62		50.0	2.5	P
Copper	324.75		25.0	1.6	P
Iron	273.96		100.0	16.8	P
Gold	242.80		50.0	6.3	P
Lead	220.35		3.0	1.1	P
Lithium	670.78		50.0		P
Magnesium	279.08		5000.0	6.0	P
Manganese	257.61		15.0	0.9	P
Mercury					
Nickel	231.60		40.0	1.7	P
Molybdenum	202.03		50.0	4.4	P
Potassium	766.49		5000.0	40.9	P
Selenium	196.03		10.0	8.7	P
Silicon	251.61		50.0	17.5	P
Silver	338.29		10.0	2.2	P
Sodium	330.24		5000.0	9	P
Sodium	589.00		5000.0	23	P
Thallium	190.80		10.0	3.3	P
Vanadium	292.40		50.0	2.3	P
Zinc	206.20		20.0	3.9	P
Tungsten	207.91		100.0	2.3	

FORM X - IN

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000076

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL NEWBURGH
Lab Code: 10142
ICP ID Number: ICP-3

Contract:
SDG NO.: 241274
Date: January-04

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca 430.253	Fe	Mg	Mn
Aluminum	308.22		0.1650160	0.0000000	0.0000000	0.0000000
Antimony	206.33	0.0000000	0.0500000	0.0000000	0.0000000	0.0000000
Arsenic	188.98	0.0000000	-0.0200000	0.0000000	0.0050000	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.11	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	381.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0700000	0.0000000	0.0000000
Calcium	430.25	0.9870310		0.0000000	0.0000000	0.0000000
Calcium	227.55	0.0000000	0.0000000	-15.0779000	0.0000000	0.0000000
Chromium	205.55	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Gold	242.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	273.96	0.0000000	0.0000000		0.0000000	0.0000000
Lead	220.35	-0.1000000	-0.0200000	0.0246664	0.0000000	0.1579530
Lithium	670.78	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000		0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0162963	
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0313362	0.0150000	-0.3422160	-0.0118411	0.0000000
Silver	338.29	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.24	0.0000000	2.4839700	0.0000000	0.0000000	29.7667000
Thallium	190.80	0.0000000	-0.0300000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0368777	0.0000000	0.0000000	0.0300000	0.0000000

FORM XI (PART 1) - IN

000077

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11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL NEWBURGH
 Lab Code: 10142
 ICP ID Number: ICP-3

Contract:
 SDG No.: 241274
 Date: January-04

Analyte	Wave-length (nm)	Interelement Correction Factors for:			
		Co	Ba	V	Cu
Aluminum	308.22	0.0000000	0.0000000	20.2132000	0.0000000
Antimony	206.33	0.0000000	0.5267820	-3.8615900	0.0000000
Arsenic	188.98	-0.8342930	0.0000000	0.0000000	0.0000000
Barium	233.53	0.0000000		0.0000000	0.0000000
Beryllium	313.11	0.0000000	0.0000000	2.8087200	0.0000000
Boron	381.80	1.7012200	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	430.25	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	227.55	136.8500000	0.0000000	0.0000000	0.0000000
Chromium	205.55	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62		0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	
Gold	242.80	0.0000000	0.0000000	0.0000000	0.0000000
Iron	273.96	0.0000000	0.0000000	53.2503000	0.0000000
Lead	220.35	-0.0851148	0.0000000	0.0000000	0.1909740
Lithium	670.78	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	-0.2096530	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	-0.6000000	0.0000000	-0.6000000	0.0000000
Silver	338.29	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.24	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	1.8000000	0.0000000	-0.5356470	0.0000000
Vanadium	292.40	0.0000000	0.0000000		0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000

FORM XI (PART 1) - IN

000078

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12
ICP LINEAR RANGES

Lab Name: STL NEWBURGH
Lab Code: 10142
ICP ID Number: ICP-3

Contract:
SDG No.: 241274
Date: December-04

Analyte	Integ. Time (Sec.)	Concentration (ug/l)	M
Aluminum	20.0	500000.0	P
Antimony	20.0	10000.0	P
Arsenic	20.0	20000.0	P
Barium	20.0	50000.0	P
Beryllium	20.0	10000.0	P
Cadmium	20.0	10000.0	P
Calcium	20.0	600000.0	P
Chromium	20.0	40000.0	P
Cobalt	20.0	50000.0	P
Copper	20.0	50000.0	P
Gold	20.0	3000.0	P
Iron	20.0	250000.0	P
Lead	20.0	25000.0	P
Lithium	20.0	5000.0	P
Magnesium	20.0	500000.0	P
Manganese	20.0	20000.0	P
Mercury	20.0		
Nickel	20.0	50000.0	P
Potassium	20.0	10000.0	P
Selenium	20.0	10000.0	P
Silver	20.0	2500.0	P
Sodium	20.0	500000.0	P
Thallium	20.0	10000.0	
Vanadium	20.0	50000.0	P
Zinc	20.0	20000.0	P

FORM XII - IN

000079

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ICPI

File Description

Default Sample Information File

10/12/04

Parameters Common To All Samples

Batch ID

Volume Units

mL

Weight Units

g

Parameters That Vary With All Samples

	A/S Location	Sample ID
001	24	MB 76962
002	25	LCS 76962
003	26	241274-001
004	27	241274-002
005	28	241274-003
006	29	241274-004
007	30	241274-005 -rerun
008	31	241274-006
009	32	241274-007 -rerun
010	33	② 241274-008
011	34	241274-009
012	35	241274-010 -rerun
013	36	241274-011
014	37	241274-012 -no AS
015	38	241274-012 MD
016	39	241274-012 MS
017	40	241274-012 MSF
018	41	③ 241274-012 SD
019	42	241274-012X 3X
020	43	241274-012X MD 3X
021	44	241274-012X MSF 3X
022	45	241274-012X SD 3X
023	46	241274-013
024	47	241274-014
025	48	-④ MB 76961
026	49	LCS 76961
027	50	241267-001
028	51	241267-002
029	52	241267-004
030	53	241245-001 -nok
031	54	241245-001 MD
032	55	241245-001 MS
033	56	241245-001 MSF
034	57	⑤ 241245-001 SD
035	58	241230-003 -nok
036	59	241230-003D
037	60	241234-001
038	61	241234-001D
039	62	241235-001
040	63	241235-001D
041	64	⑥ 241236-001
042	65	241236-001D
043	66	241237-001
044	67	241237-001D
045	68	241239-001
046	69	241240-001
047	70	241254-003
048	71	241263-001
049		
050		

241274
77408

241267
77424

Reg # 77425

Hardness
77430

000080

Calibration Summary

Method: CLP

Date: 10/12/04

2:52:23 PM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Method: CLP						
Results: 04oct12a			IEC: 82097.1ec		MSF:	
Sample Info: oct12			Spectra Stored: Yes		Method Stored: Yes	
Method Description: CLP			User: User1		Date: 10/12/04 2:52:23 PM	

Mean Data	Seq. No.: 1	A/S Pos: 1
ID: IS Init	Data: Original	Date: 10/12/04 2:53:47 PM

Element	Mean Corr. Intensity
360.073	71524.3
361.384	312240.5

Mean Data	Seq. No.: 2	A/S Pos: 1
ID: Calib Blank 1	Data: Original	Date: 10/12/04 2:54:27 PM

Element	Mean Corr. Intensity	Conc. Units	Calib
360.073	70564.6	0.987	µg/L
361.384	291529.4	0.934	µg/L
308.215	14333.1	0	µg/L
206.833	30.7	0	µg/L
188.979	-14.4	0	µg/L
233.527	-184.2	0	µg/L
313.107	151.9	0	µg/L
226.502	-85.4	0	µg/L
430.253	10189.5	0	µg/L
227.547	-112.5	0	µg/L
205.560	-25.4	0	µg/L
228.616	25.7	0	µg/L
324.754	2768.1	0	µg/L
273.955	368.0	0	µg/L
220.353	78.9	0	µg/L
279.079	3170.4	0	µg/L
257.610	521.9	0	µg/L
231.604	30.3	0	µg/L
766.491	7396.9	0	µg/L
196.026	38.6	0	µg/L
338.289	-736.7	0	µg/L
330.237	-133.6	0	µg/L
190.800	-45.2	0	µg/L
292.402	-97.2	0	µg/L
206.200	84.2	0	µg/L
589.592	14640.5	0	µg/L
202.030	2.0	0	µg/L
182.527	-27.6	0	µg/L

Mean Data	Seq. No.: 3	A/S Pos: 15
ID: CAL-1-A	Data: Original	Date: 10/12/04 2:58:18 PM

Element	Mean Corr. Intensity	Conc. Units	Calib
360.073	64683.5	0.904	µg/L
361.384	301160.1	0.965	µg/L
308.215	468929.2	20000	µg/L
233.527	2672441.5	20000	µg/L
313.107	809026.1	500	µg/L
430.253	597774.4	50000	µg/L
227.547	4506.6	50000	µg/L
205.560	68091.8	2000	µg/L
228.616	184305.0	5000	µg/L

000081

Cu 324.754	340169.5	2500 µg/L
Fe 273.955	505273.3	10000 µg/L
Mg 279.079	1433989.0	50000 µg/L
Mn 257.610	4596940.9	5000 µg/L
Ni 231.604	150613.3	5000 µg/L
Na 330.237	14913.9	50000 µg/L
V 292.402	370842.4	5000 µg/L
Zn 206.200	377717.7	5000 µg/L

Mean Data

ID: CAL-1-B

Seq. No.: 4
Data: OriginalA/S Pos: 16
Date: 10/12/04 3:01:42 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	68817.7	0.962 µg/L	
Sc 361.384	277693.8	0.889 µg/L	
Ag 338.289	49448.0	750 µg/L	

Mean Data

ID: CAL-3

Seq. No.: 5
Data: OriginalA/S Pos: 17
Date: 10/12/04 3:04:59 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	67163.4	0.939 µg/L	
Sc 361.384	299910.1	0.961 µg/L	
Cd 226.502	62064.7	1000 µg/L	
Pb 220.353	14605.1	2000 µg/L	
Fl 190.800	5443.2	2000 µg/L	

Mean Data

ID: K

Seq. No.: 6
Data: OriginalA/S Pos: 18
Date: 10/12/04 3:08:29 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	70282.1	0.983 µg/L	
Sc 361.384	309258.2	0.990 µg/L	
Ca 430.253	109256.0	10000 µg/L	
Ca 227.547	709.8	10000 µg/L	
K 766.491	2982958.2	10000 µg/L	
Na 330.237	2375.2	10000 µg/L	
Na 589.592	4692886.8	10000 µg/L	
B 182.527	4319.4	2500 µg/L	

Mean Data

ID: SB

Seq. No.: 7
Data: OriginalA/S Pos: 19
Date: 10/12/04 3:11:55 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	71152.2	0.995 µg/L	
Sc 361.384	292754.7	0.938 µg/L	
Sb 206.833	4292.3	2500 µg/L	

Mean Data

ID: AS

Seq. No.: 8
Data: OriginalA/S Pos: 20
Date: 10/12/04 3:15:34 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	69723.2	0.975 µg/L	
Sc 361.384	290840.1	0.931 µg/L	
As 188.979	1812.9	750 µg/L	
Se 196.026	1699.3	750 µg/L	

Mean Data

ID: Na

Seq. No.: 9
Data: OriginalA/S Pos: 21
Date: 10/12/04 3:19:17 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
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000082

360.073	71358.5	0.998 µg/L
c 361.384	307530.3	0.985 µg/L
a 430.253	58150.8	5000 µg/L
a 227.547	298.8	5000 µg/L
a 330.237	1123.6	5000 µg/L
a 589.592	2101788.5	5000 µg/L

ean Data -----

D: 3-3	Seq. No.: 10	A/S Pos: 22
	Data: Original	Date: 10/12/04 3:22:39 PM

lement	Mean Corr. Intensity	Calib Conc. Units
360.073	71356.8	0.998 µg/L
c 361.384	314732.2	1.008 µg/L
o 202.030	59815.1	6500 µg/L

alibration Summary -----

Method: CLP Date: 10/12/04 3:22:57 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
l 308.215	1	Linear	14333.1	22.7	0.00000	1.000000
b 206.833	1	Linear	30.7	1.7	0.00000	1.000000
s 188.979	1	Linear	-14.4	2.4	0.00000	1.000000
a 233.527	1	Linear	-184.2	133.6	0.00000	1.000000
e 313.107	1	Linear	151.9	1617.7	0.00000	1.000000
d 226.502	1	Linear	-85.4	62.2	0.00000	1.000000
a 430.253	3	Linear	424.8	11.9	0.00000	0.999534
a 227.547	3	Linear	-163.0	0.1	0.00000	0.999774
r 205.560	1	Linear	-25.4	34.1	0.00000	1.000000
o 228.616	1	Linear	25.7	36.9	0.00000	1.000000
u 324.754	1	Linear	2768.1	135.0	0.00000	1.000000
e 273.955	1	Linear	368.0	50.5	0.00000	1.000000
b 220.353	1	Linear	78.9	7.3	0.00000	1.000000
g 279.079	1	Linear	3170.4	28.6	0.00000	1.000000
n 257.610	1	Linear	521.9	919.3	0.00000	1.000000
i 231.604	1	Linear	30.3	30.1	0.00000	1.000000
766.491	1	Linear	7396.9	297.6	0.00000	1.000000
e 196.026	1	Linear	38.6	2.2	0.00000	1.000000
g 338.289	1	Linear	-736.7	66.9	0.00000	1.000000
a 330.237	3	Linear	-381.9	0.3	0.00000	0.999487
l 190.800	1	Linear	-45.2	2.7	0.00000	1.000000
292.402	1	Linear	-97.2	74.2	0.00000	1.000000
n 206.200	1	Linear	84.2	75.5	0.00000	1.000000
a 589.592	2	Linear	-69351.2	467.8	0.00000	0.998072
o 202.030	1	Linear	2.0	9.2	0.00000	1.000000
182.527	1	Linear	-27.6	1.7	0.00000	1.000000

ean Data -----

D: ICVM03AGICV01	Seq. No.: 11	Sample No.: 2	A/S Pos: 9
sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0: 1.0	
	Data: Original	Date: 10/12/04	3:26:12 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	72276.7	1.011	µg/L		
c 361.384	304240.6	0.974	µg/L		
l 308.215	15029.9	30.6556	µg/L		
b 206.833	6.1	-14.4617	µg/L		
s 188.979	-11.4	1.23008	µg/L		
a 233.527	-104.4	0.597640	µg/L		
e 313.107	242.3	0.0558972	µg/L		
d 226.502	-79.6	0.0934483	µg/L		
a 430.253	9845.2	791.453	µg/L		
a 227.547	-120.3	458.441	µg/L		
r 205.560	-3.5	0.643127	µg/L		
o 228.616	-91.3	-3.17204	µg/L		
u 324.754	16629.5	102.707	µg/L		
e 273.955	403.2	0.696416	µg/L		
b 220.353	49.4	-4.05831	µg/L		
g 279.079	2808.5	-12.6495	µg/L		

000083

Mn 257.610	749.4	0.247765	µg/L
Ni 231.604	28.5	-0.0603995	µg/L
K 766.491	10536.0	10.5496	µg/L
Se 196.026	41.4	1.29653	µg/L
Ag 338.289	5843.8	98.3448	µg/L
Na 330.237	-137.4	802.277	µg/L
Tl 190.800	212.8	94.0223	µg/L
V 292.402	-198.2	-1.36058	µg/L
Zn 206.200	196.5	1.48784	µg/L
Na 589.592	17107.5	184.810	µg/L
Mo 202.030	18918.7	2055.71	µg/L
B 182.527	3302.9	1915.43	µg/L

Mean Data		Seq. No.: 12	Sample No.: 3	A/S Pos: 10
ID: ICM02ISBICV1				
Sample Qty: 1.0000 g		Prep. Vol.: 1.0 L		Dilution: 1.0: 1.0
		Data: Original		Date: 10/12/04 3:30:05 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	71709.3	1.003	µg/L		
Sc 361.384	322367.2	1.032	µg/L		
Al 308.215	14715.0	16.8015	µg/L		
Sb 206.833	1124.6	641.705	µg/L		
As 188.979	1268.6	526.596	µg/L		
Ba 233.527	-205.1	-0.156275	µg/L		
Be 313.107	204.2	0.0323018	µg/L		
Cd 226.502	15696.8	253.937	µg/L		
Ca 430.253	10135.1	815.811	µg/L		
Ca 227.547	-119.7	464.884	µg/L		
Cr 205.560	-8.5	0.497366	µg/L		
Co 228.616	31.4	0.156234	µg/L		
Cu 324.754	2838.4	0.520704	µg/L		
Fe 273.955	386.8	0.371570	µg/L		
Pb 220.353	3454.7	464.787	µg/L		
Mg 279.079	2945.1	-7.87484	µg/L		
Mn 257.610	482.7	-0.0424308	µg/L		
Ni 231.604	34.7	0.143958	µg/L		
K 766.491	9833.6	8.18903	µg/L		
Se 196.026	1227.7	537.013	µg/L		
Ag 338.289	-667.9	1.02856	µg/L		
Na 330.237	-179.0	666.010	µg/L		
Tl 190.800	1245.8	470.455	µg/L		
V 292.402	-125.2	-0.377150	µg/L		
Zn 206.200	226.2	1.88035	µg/L		
Na 589.592	15480.7	181.333	µg/L		
Mo 202.030	5659.2	614.779	µg/L		
B 182.527	17.6	26.0055	µg/L		

Mean Data		Seq. No.: 13	Sample No.: 4	A/S Pos: 11
ID: ICM04IRICV01				
Sample Qty: 1.0000 g		Prep. Vol.: 1.0 L		Dilution: 1.0: 1.0
		Data: Original		Date: 10/12/04 3:34:14 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	69391.6	0.970	µg/L		
Sc 361.384	294806.6	0.944	µg/L		
Al 308.215	121866.9	4731.44	µg/L		
Sb 206.833	1232.2	704.820	µg/L		
As 188.979	-14.2	0.0139772	µg/L		
Ba 233.527	678413.6	5078.14	µg/L		
Be 313.107	191761.2	118.442	µg/L		
Cd 226.502	-37.3	0.420034	µg/L		
Ca 430.253	140200.3	11743.2	µg/L		
Ca 227.547	933.3	11769.3	µg/L		
Cr 205.560	17105.6	502.987	µg/L		
Co 228.616	45182.4	1225.23	µg/L		
Cu 324.754	82986.0	594.620	µg/L		
Fe 273.955	121731.2	2403.68	µg/L		
Pb 220.353	96.4	2.75271	µg/L		
Mg 279.079	344700.6	11934.8	µg/L		
Mn 257.610	1119443.3	1216.87	µg/L		

000084

Ni 231.604	37474.2	1243.30	µg/L
K 766.491	4027390.7	13510.0	µg/L
Se 196.026	52.5	6.74648	µg/L
Ag 338.289	30020.2	459.656	µg/L
Na 330.237	3272.2	11991.7	µg/L
Fl 190.800	-43.7	-2.32414	µg/L
V 292.402	89886.4	1212.91	µg/L
Zn 206.200	93155.1	1231.87	µg/L
Na 589.592	6403498.5	13836.1	µg/L
*QC exceeds upper limit for Na 589.592 Recovery = 110.69% Action = Continue			
Mo 202.030	5791.5	629.149	µg/L
B 182.527	-15.8	6.80712	µg/L

Mean Data -----		Seq. No.: 14	Sample No.: 5	A/S Pos: 1
ID: ICB		Prep. Vol.: 1.0 L		Dilution: 1.0: 1.0
Sample Qty: 1.0000 g		Data: Original		Date: 10/12/04 3:38:17 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	70203.8	0.982	µg/L		
Sc 361.384	282229.0	0.904	µg/L		
Al 308.215	14543.3	9.24679	µg/L		
Sb 206.833	37.6	3.99732	µg/L		
As 188.979	-9.0	2.23895	µg/L		
Ba 233.527	40.0	1.67777	µg/L		
Se 313.107	274.9	0.0760227	µg/L		
Cd 226.502	-77.8	0.121250	µg/L		
Ca 430.253	10313.6	830.808	µg/L		
Ca 227.547	-114.7	519.274	µg/L		
Cr 205.560	-12.5	0.378343	µg/L		
Co 228.616	40.2	0.394748	µg/L		
Cu 324.754	2852.0	0.621653	µg/L		
Fe 273.955	531.0	3.22673	µg/L		
Pb 220.353	84.2	0.725850	µg/L		
Mg 279.079	3217.5	1.64482	µg/L		
Mn 257.610	865.3	0.373522	µg/L		
Ni 231.604	50.2	0.661160	µg/L		
K 766.491	13404.3	20.1891	µg/L		
Se 196.026	39.9	0.598184	µg/L		
Ag 338.289	-705.1	0.472541	µg/L		
Na 330.237	-117.7	867.033	µg/L		
Fl 190.800	-45.2	-0.0013139	µg/L		
V 292.402	-78.9	0.247303	µg/L		
Zn 206.200	146.3	0.822637	µg/L		
Na 589.592	19401.0	189.712	µg/L		
Mo 202.030	50.0	5.20818	µg/L		
B 182.527	-21.3	3.67122	µg/L		

Mean Data -----		Seq. No.: 15	Sample No.: 6	A/S Pos: 12
ID: CRIM04ICRI001		Prep. Vol.: 1.0 L		Dilution: 1.0: 1.0
Sample Qty: 1.0000 g		Data: Original		Date: 10/12/04 3:42:10 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	69077.2	0.966	µg/L		
Sc 361.384	298126.6	0.955	µg/L		
Al 308.215	14503.4	7.49564	µg/L		
Sb 206.833	262.6	136.008	µg/L		
As 188.979	45.1	24.4483	µg/L		
Ba 233.527	-107.8	0.571689	µg/L		
Se 313.107	15712.8	9.61884	µg/L		
Cd 226.502	537.3	9.99670	µg/L		
Ca 430.253	10540.0	849.821	µg/L		
Ca 227.547	-111.9	548.806	µg/L		
Cr 205.560	686.1	20.8921	µg/L		
Co 228.616	3586.2	96.6068	µg/L		
Cu 324.754	9768.3	51.8711	µg/L		
Fe 273.955	1611.3	24.6244	µg/L		
Pb 220.353	132.3	7.35874	µg/L		
Mg 279.079	3121.4	-1.71404	µg/L		
Mn 257.610	29946.6	32.0084	µg/L		

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Ni 231.604	2416.3	79.2240	µg/L
K 766.491	12536.6	17.2730	µg/L
Se 196.026	67.9	13.2675	µg/L
Ag 338.289	537.5	19.0427	µg/L
Na 330.237	-144.3	779.605	µg/L
Tl 190.800	4.9	18.1093	µg/L
V 292.402	7065.3	96.5455	µg/L
Zn 206.200	3396.1	43.8511	µg/L
Na 589.592	21054.0	193.246	µg/L
Mo 202.030	15.2	1.43578	µg/L
B 182.527	-22.7	2.82139	µg/L

Mean Data -----

ID: ISAM03ISA001	Seq. No.: 16	Sample No.: 7	A/S Pos: 5
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	3:46:31 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	60963.2	0.852	µg/L		
Sc 361.384	276373.7	0.885	µg/L		
Al 308.215	11473480.9	504182	µg/L		
Sb 206.833	24.8	-3.46056	µg/L		
As 188.979	-0.1	-9.87498	µg/L		
Ba 233.527	-155.9	0.212208	µg/L		
Be 313.107	-651.4	-0.496543	µg/L		
Cd 226.502	378.7	2.13495	µg/L		
Ca 430.253	6322121.1	531117	µg/L		
Ca 227.547	49013.0	527926	µg/L		
Cr 205.560	28.0	1.56818	µg/L		
Co 228.616	17.8	-0.214221	µg/L		
Cu 324.754	-1268.9	-12.1414	µg/L		
Fe 273.955	8973114.1	177711	µg/L		
Pb 220.353	-121.8	2.88344	µg/L		
Mg 279.079	13947439.8	487283	µg/L		
Mn 257.610	10934.4	-0.855278	µg/L		
Ni 231.604	81.3	1.69292	µg/L		
K 766.491	21167.6	46.2792	µg/L		
Se 196.026	6.8	27.1606	µg/L		
Ag 338.289	-1199.8	-6.92090	µg/L		
Na 330.237	-182.6	654.002	µg/L		
Tl 190.800	-68.4	19.3011	µg/L		
V 292.402	-132.0	-0.469019	µg/L		
Zn 206.200	1129.2	-3.21888	µg/L		
Na 589.592	62701.2	282.269	µg/L		
Mo 202.030	1.4	-0.0660135	µg/L		
B 182.527	-138.0	-63.4604	µg/L		

Mean Data -----

ID: ISRM03ISR001	Seq. No.: 17	Sample No.: 9	A/S Pos: 7
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	3:51:20 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	59857.9	0.837	µg/L		
Sc 361.384	252203.4	0.808	µg/L		
Al 308.215	11982154.1	526562	µg/L		
Sb 206.833	1330.2	762.323	µg/L		
*QC exceeds upper limit for Sb 206.833 Recovery = 127.05% Action = Continue					
As 188.979	282.1	105.234	µg/L		
Ba 233.527	74352.9	557.782	µg/L		
Be 313.107	820897.5	507.338	µg/L		
Cd 226.502	60727.0	972.812	µg/L		
Ca 430.253	6590270.8	553646	µg/L		
Ca 227.547	50609.9	545070	µg/L		
Cr 205.560	16906.3	497.136	µg/L		
Co 228.616	16858.3	456.716	µg/L		
Cu 324.754	71890.5	530.695	µg/L		
Fe 273.955	9355274.5	185280	µg/L		
Pb 220.353	209.3	49.8183	µg/L		
Mg 279.079	14502905.9	506694	µg/L		
Mn 257.610	485249.7	514.621	µg/L		

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Li 231.604	28600.6	948.654	µg/L
K 766.491	21276.7	46.6461	µg/L
Se 196.026	137.1	87.8047	µg/L
QC exceeds upper limit for Se 196.026 Recovery = 175.61% Action = Continue			
Ag 338.289	12517.9	198.087	µg/L
Na 330.237	-153.3	750.055	µg/L
Al 190.800	164.3	103.988	µg/L
Cr 292.402	36830.0	497.752	µg/L
Mn 206.200	74231.1	963.996	µg/L
Na 589.592	61531.6	279.769	µg/L
Pb 202.030	-4.6	-0.722147	µg/L
Bi 182.527	-146.4	-68.2707	µg/L

Mean Data -----

ID: CCVM03AGCCV01	Seq. No.: 18	Sample No.: 11	A/S Pos: 4
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	3:55:40 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Li 360.073	71822.4	1.004	µg/L		
Na 361.384	287425.2	0.921	µg/L		
Al 308.215	19073.4	208.579	µg/L		
Pb 206.833	18.1	-7.39894	µg/L		
As 188.979	-8.9	2.27265	µg/L		
Na 233.527	80.5	1.98101	µg/L		
Se 313.107	711.8	0.346086	µg/L		
Ag 226.502	-40.7	0.714392	µg/L		
Na 430.253	11640.4	942.276	µg/L		
Na 227.547	-99.5	682.462	µg/L		
Cr 205.560	6.2	0.928248	µg/L		
Pb 228.616	-11.7	-1.01257	µg/L		
Bi 324.754	41939.9	290.261	µg/L		
Se 273.955	8148.2	154.091	µg/L		
Pb 220.353	64.9	-1.91994	µg/L		
Ag 279.079	8645.9	191.342	µg/L		
Mn 257.610	1370.7	0.918529	µg/L		
Li 231.604	81.5	1.69904	µg/L		
K 766.491	12199.3	16.1396	µg/L		
Se 196.026	43.2	2.11242	µg/L		
Ag 338.289	18534.4	288.003	µg/L		
Na 330.237	-113.3	881.328	µg/L		
Al 190.800	708.0	274.491	µg/L		
Cr 292.402	-91.2	0.0813876	µg/L		
Mn 206.200	452.8	4.87335	µg/L		
Na 589.592	18593.7	187.987	µg/L		
Pb 202.030	9648.1	1048.26	µg/L		
Bi 182.527	1712.3	1000.65	µg/L		

Mean Data -----

ID: CCVM04IRCCV01	Seq. No.: 19	Sample No.: 12	A/S Pos: 2
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	4:00:03 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Li 360.073	69012.6	0.965	µg/L		
Na 361.384	273776.7	0.877	µg/L		
Al 308.215	219640.2	9033.44	µg/L		
Pb 206.833	1005.9	572.069	µg/L		
As 188.979	-27.4	-5.48859	µg/L		
Na 233.527	1333576.0	9980.90	µg/L		
Se 313.107	380744.2	235.260	µg/L		
Ag 226.502	-43.1	0.0002766	µg/L		
Na 430.253	276653.4	23207.3	µg/L		
Na 227.547	1953.8	22725.4	µg/L		
Cr 205.560	33726.0	990.979	µg/L		
Pb 228.616	86604.9	2349.13	µg/L		
Bi 324.754	156700.4	1141.04	µg/L		
Se 273.955	235488.2	4656.72	µg/L		
Pb 220.353	110.3	5.00584	µg/L		
Ag 279.079	681839.9	23716.1	µg/L		
Mn 257.610	2216730.6	2410.21	µg/L		

000087

Ni 231.604	71734.9	2380.90	µg/L
K 766.491	8781515.0	29487.3	µg/L
Se 196.026	52.5	7.12810	µg/L
Ag 338.289	45332.2	688.490	µg/L
Na 330.237	6902.4	23904.9	µg/L
Tl 190.800	-44.7	-5.39605	µg/L
V 292.402	169842.2	2290.66	µg/L
Zn 206.200	179179.6	2370.46	µg/L
Na 589.592	14231258.3	30568.3	µg/L
Mo 202.030	4810.5	522.549	µg/L
B 182.527	-15.9	6.76984	µg/L

Mean Data		Seq. No.: 20	Sample No.: 13	A/S Pos: 3
ID: CCVM02ISBCCV1				
Sample Qty: 1.0000 g		Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
		Data: Original	Date: 10/12/04	4:04:18 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	70823.5	0.990	µg/L		
Sc 361.384	297252.8	0.952	µg/L		
Al 308.215	15105.6	33.9895	µg/L		
Sb 206.833	989.1	562.186	µg/L		
*QC exceeds upper limit for Sb 206.833 Recovery = 112.44% Action = Continue					
As 188.979	2501.0	1032.45	µg/L		
Ba 233.527	459.1	4.81385	µg/L		
Be 313.107	444.5	0.180839	µg/L		
Cd 226.502	31976.2	515.872	µg/L		
Ca 430.253	10290.0	828.819	µg/L		
Ca 227.547	-113.4	533.075	µg/L		
Cr 205.560	2.8	0.829051	µg/L		
Co 228.616	77.6	1.40966	µg/L		
Cu 324.754	3108.3	2.52321	µg/L		
Fe 273.955	1481.4	22.0505	µg/L		
Pb 220.353	6815.3	927.491	µg/L		
Mg 279.079	3789.1	21.6196	µg/L		
Mn 257.610	1537.2	1.10389	µg/L		
Ni 231.604	81.7	1.70613	µg/L		
K 766.491	20401.3	43.7040	µg/L		
Se 196.026	2389.9	1061.86	µg/L		
Ag 338.289	-431.6	4.56010	µg/L		
Na 330.237	-164.4	713.744	µg/L		
Tl 190.800	2515.9	933.278	µg/L		
V 292.402	-24.1	0.985725	µg/L		
Zn 206.200	320.3	3.12542	µg/L		
Na 589.592	28928.1	210.077	µg/L		
Mo 202.030	4831.9	524.867	µg/L		
B 182.527	-19.9	4.47367	µg/L		

Mean Data		Seq. No.: 21	Sample No.: 14	A/S Pos: 1
ID: CCB				
Sample Qty: 1.0000 g		Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
		Data: Original	Date: 10/12/04	4:08:12 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	69838.6	0.976	µg/L		
Sc 361.384	284450.4	0.911	µg/L		
Al 308.215	14734.7	17.6684	µg/L		
Sb 206.833	49.1	10.7493	µg/L		
As 188.979	-5.6	3.62668	µg/L		
Ba 233.527	-97.8	0.646739	µg/L		
Be 313.107	209.8	0.0357688	µg/L		
Cd 226.502	-66.1	0.309338	µg/L		
Ca 430.253	10235.5	824.240	µg/L		
Ca 227.547	-115.8	507.376	µg/L		
Cr 205.560	-18.7	0.196644	µg/L		
Co 228.616	31.4	0.156282	µg/L		
Cu 324.754	2858.4	0.669761	µg/L		
Fe 273.955	773.4	8.02797	µg/L		
Pb 220.353	91.1	1.68769	µg/L		
Mg 279.079	3618.4	15.6528	µg/L		
Mn 257.610	622.0	0.108531	µg/L		

000088

Li 231.604	44.2	0.459408	µg/L
766.491	11501.3	13.7935	µg/L
e 196.026	47.1	3.85583	µg/L
g 338.289	-675.6	0.913728	µg/L
a 330.237	-130.6	824.740	µg/L
l 190.800	-44.8	0.173072	µg/L
292.402	-112.3	-0.203224	µg/L
n 206.200	120.8	0.483934	µg/L
a 589.592	16292.5	183.068	µg/L
o 202.030	38.4	3.95782	µg/L
182.527	-25.5	1.22644	µg/L

Mean Data -----

D: MB 76962	Seq. No.: 22	Sample No.: 1	A/S Pos: 24
Sample Qty: 1.0000 mL	Prep. Vol.: 1.0 mL	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	4:12:04 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	71803.4	1.004	µg/L		
c 361.384	309846.7	0.992	µg/L		
l 308.215	14235.1	-4.26005	µg/L	-4.26005	µg/L
b 206.833	38.6	4.61704	µg/L	4.61704	µg/L
s 188.979	-11.0	1.42412	µg/L	1.42412	µg/L
a 233.527	-127.6	0.424010	µg/L	0.424010	µg/L
e 313.107	209.5	0.0355716	µg/L	0.0355716	µg/L
d 226.502	-74.2	0.171626	µg/L	0.171626	µg/L
a 430.253	10097.6	812.661	µg/L	812.661	µg/L
a 227.547	-118.8	474.925	µg/L	474.925	µg/L
r 205.560	-4.6	0.611301	µg/L	0.611301	µg/L
o 228.616	37.9	0.332582	µg/L	0.332582	µg/L
u 324.754	3008.8	1.80991	µg/L	1.80991	µg/L
e 273.955	13548.8	261.053	µg/L	261.053	µg/L
b 220.353	86.4	1.02960	µg/L	1.02960	µg/L
g 279.079	3555.6	13.4586	µg/L	13.4586	µg/L
n 257.610	1086.7	0.614055	µg/L	0.614055	µg/L
i 231.604	54.6	0.805871	µg/L	0.805871	µg/L
766.491	10085.8	9.03651	µg/L	9.03651	µg/L
e 196.026	40.4	0.887662	µg/L	0.887662	µg/L
g 338.289	-681.8	0.821337	µg/L	0.821337	µg/L
a 330.237	-62.6	1047.92	µg/L	1047.92	µg/L
l 190.800	-45.7	-0.168407	µg/L	-0.168407	µg/L
292.402	-90.3	0.0932672	µg/L	0.0932672	µg/L
n 206.200	1743.4	21.9672	µg/L	21.9672	µg/L
a 589.592	19363.0	189.631	µg/L	189.631	µg/L
o 202.030	14.0	1.30577	µg/L	1.30577	µg/L
182.527	-26.5	0.654092	µg/L	0.654092	µg/L

Mean Data -----

D: LCS 76962	Seq. No.: 23	Sample No.: 2	A/S Pos: 25
Sample Qty: 1.0000 mL	Prep. Vol.: 1.0 mL	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	4:16:09 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	72766.4	1.017	µg/L		
c 361.384	306910.8	0.983	µg/L		
l 308.215	53318.7	1715.55	µg/L	1715.55	µg/L
b 206.833	958.6	544.295	µg/L	544.295	µg/L
s 188.979	4825.9	1986.75	µg/L	1986.75	µg/L
a 233.527	136794.6	1025.05	µg/L	1025.05	µg/L
e 313.107	1440376.0	890.265	µg/L	890.265	µg/L
d 226.502	58528.9	942.830	µg/L	942.830	µg/L
a 430.253	29407.5	2434.98	µg/L	2434.98	µg/L
a 227.547	57.6	2368.58	µg/L	2368.58	µg/L
r 205.560	16198.2	476.344	µg/L	476.344	µg/L
o 228.616	35672.7	967.201	µg/L	967.201	µg/L
u 324.754	250392.2	1834.98	µg/L	1834.98	µg/L
e 273.955	95991.0	1893.88	µg/L	1893.88	µg/L
b 220.353	12895.7	1764.75	µg/L	1764.75	µg/L
g 279.079	57320.6	1892.28	µg/L	1892.28	µg/L
n 257.610	918759.6	998.815	µg/L	998.815	µg/L
i 231.604	57821.1	1918.90	µg/L	1918.90	µg/L

000089

766.491	1482503.4	4957.41	µg/L	4957.41	µg/L
196.026	4406.7	1972.76	µg/L	1972.76	µg/L
338.289	1221.5	29.2655	µg/L	29.2655	µg/L
330.237	1980.5	7752.64	µg/L	7752.64	µg/L
190.800	4859.3	1784.83	µg/L	1784.83	µg/L
292.402	67197.0	907.077	µg/L	907.077	µg/L
206.200	72800.1	962.717	µg/L	962.717	µg/L
589.592	3897369.8	8479.08	µg/L	8479.08	µg/L
202.030	18469.2	2006.86	µg/L	2006.86	µg/L
182.527	3415.8	1980.33	µg/L	1980.33	µg/L

Mean Data -----
 ID: 241274-001 Seq. No.: 24 Sample No.: 3 A/S Pos: 26
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
 Data: Original Date: 10/12/04 4:20:19 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	67169.2	0.939	µg/L		
361.384	271414.4	0.869	µg/L		
308.215	16142.0	79.5976	µg/L	79.5976	µg/L
206.833	63.1	19.0016	µg/L	19.0016	µg/L
188.979	-2.1	5.04888	µg/L	5.04888	µg/L
233.527	1300.1	11.1076	µg/L	11.1076	µg/L
313.107	893.8	0.458584	µg/L	0.458584	µg/L
226.502	-62.6	0.363790	µg/L	0.363790	µg/L
430.253	685663.2	57570.3	µg/L	57570.3	µg/L
227.547	4867.7	54007.2	µg/L	54007.2	µg/L
205.560	16.2	1.22181	µg/L	1.22181	µg/L
228.616	89.7	1.73648	µg/L	1.73648	µg/L
324.754	3149.3	2.83168	µg/L	2.83168	µg/L
273.955	4079.7	73.5119	µg/L	73.5119	µg/L
220.353	107.2	4.46678	µg/L	4.46678	µg/L
279.079	168305.0	5770.63	µg/L	5770.63	µg/L
257.610	27022.7	28.6835	µg/L	28.6835	µg/L
231.604	88.8	1.94203	µg/L	1.94203	µg/L
766.491	927838.9	3093.34	µg/L	3093.34	µg/L
196.026	80.3	18.9781	µg/L	18.9781	µg/L
338.289	-792.7	-0.836572	µg/L	-0.836572	µg/L
330.237	26375.7	87810.4	µg/L	87810.4	µg/L
190.800	-45.1	0.0228899	µg/L	0.0228899	µg/L
292.402	-53.6	0.588447	µg/L	0.588447	µg/L
206.200	1520.3	18.8124	µg/L	18.8124	µg/L
589.592	Saturated				
202.030	100.1	10.6627	µg/L	10.6627	µg/L
182.527	40.9	39.3932	µg/L	39.3932	µg/L

Mean Data -----
 ID: 241274-002 Seq. No.: 25 Sample No.: 4 A/S Pos: 27
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
 Data: Original Date: 10/12/04 4:24:27 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	64321.2	0.899	µg/L		
361.384	269249.7	0.862	µg/L		
308.215	17964.5	159.802	µg/L	159.802	µg/L
206.833	43.2	7.29778	µg/L	7.29778	µg/L
188.979	-5.5	3.67780	µg/L	3.67780	µg/L
233.527	2457.3	19.7671	µg/L	19.7671	µg/L
313.107	239.5	0.0541541	µg/L	0.0541541	µg/L
226.502	-98.8	-0.221625	µg/L	-0.221625	µg/L
430.253	1094875.3	91950.3	µg/L	91950.3	µg/L
227.547	8950.6	97839.2	µg/L	97839.2	µg/L
205.560	2.5	0.820983	µg/L	0.820983	µg/L
228.616	150.8	3.39480	µg/L	3.39480	µg/L
324.754	3272.8	3.75851	µg/L	3.75851	µg/L
273.955	9846.6	187.730	µg/L	187.730	µg/L
220.353	99.1	3.70401	µg/L	3.70401	µg/L
279.079	451685.7	15673.4	µg/L	15673.4	µg/L
257.610	105249.7	113.531	µg/L	113.531	µg/L
231.604	73.4	1.42930	µg/L	1.42930	µg/L
766.491	520384.0	1724.00	µg/L	1724.00	µg/L

000090

Se 196.026	81.6	21.3673	µg/L	21.3673	µg/L
Ag 338.289	-784.5	-0.714225	µg/L	-0.714225	µg/L
Na 330.237	20924.0	69919.6	µg/L	69919.6	µg/L
Tl 190.800	-49.6	-1.76006	µg/L	-1.76006	µg/L
V 292.402	-80.6	0.223756	µg/L	0.223756	µg/L
Zn 206.200	364.5	3.16233	µg/L	3.16233	µg/L
Na 589.592	Saturated				
Mo 202.030	28.5	2.87618	µg/L	2.87618	µg/L
B 182.527	69.5	55.8906	µg/L	55.8906	µg/L

Mean Data

ID: 241274-003

Seq. No.: 26

Sample No.: 5

A/S Pos: 28

Sample Qty: 1.0000 mL

Prep. Vol.: 1.0 mL

Dilution:

1.0:

1.0

Data: Original

Date: 10/12/04

4:28:36 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	69653.3	0.974	µg/L		
Sc 361.384	283471.8	0.908	µg/L		
Al 308.215	16083.5	77.0408	µg/L	77.0408	µg/L
Sb 206.833	29.7	-0.610976	µg/L	-0.610976	µg/L
As 188.979	-10.6	1.57894	µg/L	1.57894	µg/L
Ba 233.527	466.6	4.87035	µg/L	4.87035	µg/L
Be 313.107	225.9	0.0457180	µg/L	0.0457180	µg/L
Cd 226.502	-84.1	0.0159459	µg/L	0.0159459	µg/L
Ca 430.253	818382.9	68720.7	µg/L	68720.7	µg/L
Ca 227.547	6097.0	67204.7	µg/L	67204.7	µg/L
Cr 205.560	-10.9	0.425373	µg/L	0.425373	µg/L
Co 228.616	66.1	1.09761	µg/L	1.09761	µg/L
Cu 324.754	3154.0	2.87485	µg/L	2.87485	µg/L
Fe 273.955	8097.4	153.086	µg/L	153.086	µg/L
Pb 220.353	95.3	2.94271	µg/L	2.94271	µg/L
Mg 279.079	163501.7	5602.78	µg/L	5602.78	µg/L
Mn 257.610	1157958.0	1258.92	µg/L	1258.92	µg/L
Ni 231.604	60.2	0.992700	µg/L	0.992700	µg/L
K 766.491	52309.0	150.936	µg/L	150.936	µg/L
Se 196.026	72.2	17.7919	µg/L	17.7919	µg/L
Ag 338.289	-746.5	-0.146697	µg/L	-0.146697	µg/L
Na 330.237	1622.8	6578.93	µg/L	6578.93	µg/L
Tl 190.800	-43.6	-1.29185	µg/L	-1.29185	µg/L
V 292.402	-108.8	-0.156287	µg/L	-0.156287	µg/L
Zn 206.200	790.9	9.16012	µg/L	9.16012	µg/L
Na 589.592	3050539.4	6668.93	µg/L	6668.93	µg/L
Mo 202.030	16.4	1.56382	µg/L	1.56382	µg/L
B 182.527	114.8	81.9215	µg/L	81.9215	µg/L

Mean Data

ID: 241274-004

Seq. No.: 27

Sample No.: 6

A/S Pos: 29

Sample Qty: 1.0000 mL

Prep. Vol.: 1.0 mL

Dilution:

1.0:

1.0

Data: Original

Date: 10/12/04

4:32:46 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	66897.5	0.935	µg/L		
Sc 361.384	278619.2	0.892	µg/L		
Al 308.215	16588.5	99.2472	µg/L	99.2472	µg/L
Sb 206.833	38.8	4.72663	µg/L	4.72663	µg/L
As 188.979	-9.3	2.09732	µg/L	2.09732	µg/L
Ba 233.527	3175.3	25.1398	µg/L	25.1398	µg/L
Be 313.107	181.5	0.0183190	µg/L	0.0183190	µg/L
Cd 226.502	-72.0	0.212002	µg/L	0.212002	µg/L
Ca 430.253	729990.2	61294.4	µg/L	61294.4	µg/L
Ca 227.547	5042.4	55882.5	µg/L	55882.5	µg/L
Cr 205.560	75.7	2.96809	µg/L	2.96809	µg/L
Co 228.616	46.9	0.576919	µg/L	0.576919	µg/L
Cu 324.754	3131.3	2.70163	µg/L	2.70163	µg/L
Fe 273.955	5724.6	106.091	µg/L	106.091	µg/L
Pb 220.353	92.1	2.42198	µg/L	2.42198	µg/L
Mg 279.079	246089.1	8488.80	µg/L	8488.80	µg/L
Mn 257.610	9516.8	9.57250	µg/L	9.57250	µg/L
Ni 231.604	50.0	0.652286	µg/L	0.652286	µg/L
K 766.491	1412900.9	4723.49	µg/L	4723.49	µg/L
Se 196.026	69.1	11.7919	µg/L	11.7919	µg/L

000091

Ag 338.289	-757.4	-0.309619	µg/L	-0.309619	µg/L
Na 330.237	54309.9	179482	µg/L	179482	µg/L
Fl 190.800	-52.5	-2.64234	µg/L	-2.64234	µg/L
V 292.402	-94.0	0.0431421	µg/L	0.0431421	µg/L
Zn 206.200	326.0	2.90455	µg/L	2.90455	µg/L
Na 589.592	Saturated				
Mo 202.030	14.5	1.35494	µg/L	1.35494	µg/L
B 182.527	51.0	45.2365	µg/L	45.2365	µg/L

Mean Data -----

ID: 241274-005	Seq. No.: 28	Sample No.: 7	A/S Pos: 30
Sample Qty: 1.0000 mL	Prep. Vol.: 1.0 mL	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	4:37:06 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	307548.9	4.300	µg/L		
Sc 361.384	367288.0	1.176	µg/L		
Al 308.215	618243.1	26579.6	µg/L	26579.6	µg/L
Si 206.833	5.4	-14.8772	µg/L	-14.8772	µg/L
As 188.979	42.3	26.3507	µg/L	26.3507	µg/L
Ba 233.527	12446.9	94.5223	µg/L	94.5223	µg/L
Se 313.107	2982.6	1.74974	µg/L	1.74974	µg/L
Cd 226.502	21.6	0.138890	µg/L	0.138890	µg/L
Ca 430.253	201976.0	16933.3	µg/L	16933.3	µg/L
Ca 227.547	1479.2	17630.1	µg/L	17630.1	µg/L
Cr 205.560	1141.0	34.2466	µg/L	34.2466	µg/L
Co 228.616	1156.2	30.6760	µg/L	30.6760	µg/L
Cu 324.754	11429.9	69.4308	µg/L	69.4308	µg/L
Fe 273.955	2651273.6	52503.0	µg/L	52503.0	µg/L
Pb 220.353	261.5	26.6319	µg/L	26.6319	µg/L
Mg 279.079	227781.1	7849.03	µg/L	7849.03	µg/L
Mn 257.610	2611004.7	2839.50	µg/L	2839.50	µg/L
Ni 231.604	1622.1	52.8541	µg/L	52.8541	µg/L
K 766.491	1803446.5	6036.00	µg/L	6036.00	µg/L
Se 196.026	-1.9	-12.2755	µg/L	-12.2755	µg/L
Ag 338.289	-535.0	3.01541	µg/L	3.01541	µg/L
Na 330.237	251.4	2078.39	µg/L	2078.39	µg/L
Fl 190.800	-11.1	9.59404	µg/L	9.59404	µg/L
V 292.402	4215.3	58.1291	µg/L	58.1291	µg/L
Zn 206.200	12587.6	165.274	µg/L	165.274	µg/L
Na 589.592	812695.6	1885.42	µg/L	1885.42	µg/L
Mo 202.030	1.3	-0.0819996	µg/L	-0.0819996	µg/L
B 182.527	38.8	38.1999	µg/L	38.1999	µg/L

Mean Data -----

ID: 241274-006	Seq. No.: 29	Sample No.: 8	A/S Pos: 31
Sample Qty: 1.0000 mL	Prep. Vol.: 1.0 mL	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	4:41:24 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	74864.2	1.047	µg/L		
Sc 361.384	277846.4	0.890	µg/L		
Al 308.215	115765.5	4463.75	µg/L	4463.75	µg/L
Si 206.833	28.1	-1.55496	µg/L	-1.55496	µg/L
As 188.979	-3.8	4.61386	µg/L	4.61386	µg/L
Ba 233.527	3344.5	26.4063	µg/L	26.4063	µg/L
Se 313.107	530.1	0.233746	µg/L	0.233746	µg/L
Cd 226.502	-71.6	0.0386113	µg/L	0.0386113	µg/L
Ca 430.253	565603.6	47483.5	µg/L	47483.5	µg/L
Ca 227.547	4208.1	46926.1	µg/L	46926.1	µg/L
Cr 205.560	3506.6	103.705	µg/L	103.705	µg/L
Co 228.616	130.6	2.84695	µg/L	2.84695	µg/L
Cu 324.754	3677.9	7.34978	µg/L	7.34978	µg/L
Fe 273.955	307468.5	6082.34	µg/L	6082.34	µg/L
Pb 220.353	103.2	4.04071	µg/L	4.04071	µg/L
Mg 279.079	200902.3	6909.75	µg/L	6909.75	µg/L
Mn 257.610	240333.8	260.696	µg/L	260.696	µg/L
Ni 231.604	183.7	5.09416	µg/L	5.09416	µg/L
K 766.491	1029831.9	3436.11	µg/L	3436.11	µg/L
Se 196.026	59.2	11.6389	µg/L	11.6389	µg/L
Ag 338.289	-663.4	1.09546	µg/L	1.09546	µg/L

000392

Na 330.237	2029.3	7912.94	µg/L	7912.94	µg/L
Tl 190.800	-47.2	-0.885042	µg/L	-0.885042	µg/L
V 292.402	453.0	7.41603	µg/L	7.41603	µg/L
Zn 206.200	2221.5	28.0565	µg/L	28.0565	µg/L
Na 589.592	3866609.5	8413.33	µg/L	8413.33	µg/L
Mo 202.030	11.0	0.974828	µg/L	0.974828	µg/L
B 182.527	84.0	64.1833	µg/L	64.1833	µg/L

Mean Data

ID: 241274-007

Seq. No.: 30

Sample No.: 9

A/S Pos: 32

Sample Qty: 1.0000 mL

Prep. Vol.: 1.0 mL

Dilution:

1.0:

1.0

Data: Original

Date: 10/12/04

4:45:44 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	354908.3	4.962	µg/L		
Sc 361.384	322026.4	1.031	µg/L		
Al 308.215	453786.7	19340.1	µg/L	19340.1	µg/L
Sb 206.833	4.1	-15.6048	µg/L	-15.6048	µg/L
As 188.979	27.9	18.9885	µg/L	18.9885	µg/L
Ba 233.527	10557.0	80.3794	µg/L	80.3794	µg/L
Be 313.107	2130.1	1.22280	µg/L	1.22280	µg/L
Cd 226.502	11.7	0.609869	µg/L	0.609869	µg/L
Ca 430.253	144201.5	12079.4	µg/L	12079.4	µg/L
Ca 227.547	1068.9	13225.3	µg/L	13225.3	µg/L
Cr 205.560	662.9	20.2093	µg/L	20.2093	µg/L
Co 228.616	607.6	15.7898	µg/L	15.7898	µg/L
Cu 324.754	6867.2	33.5321	µg/L	33.5321	µg/L
Fe 273.955	1595754.2	31597.7	µg/L	31597.7	µg/L
Pb 220.353	148.8	10.7090	µg/L	10.7090	µg/L
Mg 279.079	131987.8	4501.52	µg/L	4501.52	µg/L
Mn 257.610	1424978.9	1549.42	µg/L	1549.42	µg/L
Ni 231.604	883.8	28.3391	µg/L	28.3391	µg/L
K 766.491	1160757.7	3876.11	µg/L	3876.11	µg/L
Se 196.026	2.1	-12.7927	µg/L	-12.7927	µg/L
Ag 338.289	-441.1	4.41783	µg/L	4.41783	µg/L
Na 330.237	274.2	2153.17	µg/L	2153.17	µg/L
Tl 190.800	-11.1	11.1499	µg/L	11.1499	µg/L
V 292.402	2468.7	34.5866	µg/L	34.5866	µg/L
Zn 206.200	6763.7	88.2810	µg/L	88.2810	µg/L
Na 589.592	778880.6	1813.14	µg/L	1813.14	µg/L
Mo 202.030	2.2	0.0157554	µg/L	0.0157554	µg/L
B 182.527	25.6	30.6405	µg/L	30.6405	µg/L

Mean Data

ID: 241274-008

Seq. No.: 31

Sample No.: 10

A/S Pos: 33

Sample Qty: 1.0000 mL

Prep. Vol.: 1.0 mL

Dilution:

1.0:

1.0

Data: Original

Date: 10/12/04

4:50:00 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	76387.3	1.068	µg/L		
Sc 361.384	268401.6	0.860	µg/L		
Al 308.215	126664.5	4943.37	µg/L	4943.37	µg/L
Sb 206.833	34.8	2.35891	µg/L	2.35891	µg/L
As 188.979	-7.7	3.04516	µg/L	3.04516	µg/L
Ba 233.527	3600.1	28.3195	µg/L	28.3195	µg/L
Be 313.107	538.2	0.238767	µg/L	0.238767	µg/L
Cd 226.502	-71.5	0.0206394	µg/L	0.0206394	µg/L
Ca 430.253	565299.2	47457.9	µg/L	47457.9	µg/L
Ca 227.547	4206.9	46912.5	µg/L	46912.5	µg/L
Cr 205.560	3483.6	103.029	µg/L	103.029	µg/L
Co 228.616	176.3	4.08743	µg/L	4.08743	µg/L
Cu 324.754	3587.8	6.74309	µg/L	6.74309	µg/L
Fe 273.955	338560.3	6698.13	µg/L	6698.13	µg/L
Pb 220.353	108.7	4.82143	µg/L	4.82143	µg/L
Mg 279.079	203088.6	6986.15	µg/L	6986.15	µg/L
Mn 257.610	245501.1	266.315	µg/L	266.315	µg/L
Ni 231.604	297.6	8.87656	µg/L	8.87656	µg/L
K 766.491	1068647.0	3566.55	µg/L	3566.55	µg/L
Se 196.026	63.0	13.4504	µg/L	13.4504	µg/L
Ag 338.289	-720.7	0.239437	µg/L	0.239437	µg/L
Na 330.237	1967.8	7711.17	µg/L	7711.17	µg/L

000093

Fl 190.800	-47.4	-0.931815	µg/L	-0.931815	µg/L
V 292.402	515.7	8.26128	µg/L	8.26128	µg/L
Zn 206.200	3141.9	40.2402	µg/L	40.2402	µg/L
Va 589.592	3842982.6	8362.82	µg/L	8362.82	µg/L
Co 202.030	9.9	0.851254	µg/L	0.851254	µg/L
B 182.527	86.9	65.8825	µg/L	65.8825	µg/L

Mean Data -----

ID: CCVM03AGCCV01	Seq. No.: 32	Sample No.: 11	A/S Pos: 4
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	4:54:04 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
F 360.073	71051.0	0.993	µg/L		
Sc 361.384	290010.4	0.929	µg/L		
Al 308.215	16707.9	104.489	µg/L		
B 206.833	15.3	-9.07514	µg/L		
As 188.979	-8.0	2.64504	µg/L		
Ba 233.527	69.4	1.89774	µg/L		
Be 313.107	508.2	0.220225	µg/L		
Cd 226.502	-69.1	0.260385	µg/L		
Ca 430.253	10466.3	843.633	µg/L		
Ca 227.547	-113.7	529.113	µg/L		
Cr 205.560	0.8	0.768844	µg/L		
Co 228.616	-11.4	-1.00631	µg/L		
Cu 324.754	43476.8	301.639	µg/L		
Fe 273.955	2828.2	48.7243	µg/L		
Pb 220.353	71.9	-0.963376	µg/L		
Pg 279.079	4700.6	53.4723	µg/L		
Mn 257.610	1697.7	1.27775	µg/L		
Ni 231.604	71.3	1.35946	µg/L		
Cr 766.491	18023.8	35.7139	µg/L		
Se 196.026	39.9	0.621349	µg/L		
Pg 338.289	19107.7	296.571	µg/L		
La 330.237	-94.4	943.614	µg/L		
Fl 190.800	719.2	278.565	µg/L		
V 292.402	-121.8	-0.331572	µg/L		
Mn 206.200	443.3	4.75314	µg/L		
Va 589.592	32451.5	217.609	µg/L		
Co 202.030	9959.6	1082.11	µg/L		
B 182.527	1775.0	1036.68	µg/L		

Mean Data -----

ID: CCVM04IRCCV01	Seq. No.: 33	Sample No.: 12	A/S Pos: 2
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	4:58:29 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
F 360.073	68769.7	0.961	µg/L		
Sc 361.384	277445.5	0.889	µg/L		
Al 308.215	220060.8	9051.94	µg/L		
B 206.833	1023.8	582.553	µg/L		
As 188.979	-19.1	-2.05191	µg/L		
Ba 233.527	1351641.5	10116.1	µg/L		
Be 313.107	383986.3	237.265	µg/L		
Cd 226.502	-45.4	-0.0403414	µg/L		
Ca 430.253	278012.6	23321.5	µg/L		
Ca 227.547	1964.2	22836.2	µg/L		
Cr 205.560	33982.2	998.503	µg/L		
Co 228.616	87113.4	2362.93	µg/L		
Cu 324.754	158915.6	1157.45	µg/L		
Fe 273.955	236151.4	4669.85	µg/L		
Pb 220.353	111.8	5.20421	µg/L		
Pg 279.079	687418.0	23911.1	µg/L		
Mn 257.610	2240311.1	2435.85	µg/L		
Ni 231.604	72308.6	2399.95	µg/L		
Cr 766.491	8946297.6	30041.1	µg/L		
Se 196.026	57.6	9.43517	µg/L		
Pg 338.289	45458.9	690.384	µg/L		
La 330.237	7035.4	24341.4	µg/L		
Fl 190.800	-41.2	-4.15938	µg/L		

000094

V 292.402	171073.0	2307.25	µg/L
Zn 206.200	180973.8	2394.20	µg/L
Na 589.592	14468202.2	31074.8	µg/L
Mo 202.030	4883.3	530.458	µg/L
B 182.527	-16.6	6.36794	µg/L

Mean Data -----

ID: CCVM02ISBCCV1	Seq. No.: 34	Sample No.: 13	A/S Pos: 3
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0: 1.0	Date: 10/12/04 5:02:47 PM
Data: Original			

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	71945.4	1.006	µg/L		
Sc 361.384	299618.8	0.960	µg/L		
Al 308.215	14459.4	5.55771	µg/L		
Sb 206.833	966.9	549.195	µg/L		
As 188.979	2427.1	1002.11	µg/L		
Ba 233.527	333.0	3.87040	µg/L		
Be 313.107	357.7	0.127202	µg/L		
Cd 226.502	31088.5	501.589	µg/L		
Ca 430.253	10104.0	813.197	µg/L		
Ca 227.547	-107.7	594.207	µg/L		
Cr 205.560	0.7	0.767756	µg/L		
Co 228.616	72.5	1.27079	µg/L		
Cu 324.754	2930.7	1.20630	µg/L		
Fe 273.955	1086.1	14.2224	µg/L		
Pb 220.353	6659.6	906.046	µg/L		
Mg 279.079	3210.7	1.40590	µg/L		
Mn 257.610	1474.1	1.03580	µg/L		
Ni 231.604	70.3	1.32843	µg/L		
K 766.491	23540.8	54.2547	µg/L		
Se 196.026	2312.0	1026.68	µg/L		
Ag 338.289	-419.6	4.73900	µg/L		
Na 330.237	-137.9	800.661	µg/L		
Tl 190.800	2456.7	911.715	µg/L		
V 292.402	-53.3	0.592569	µg/L		
Zn 206.200	303.3	2.90070	µg/L		
Na 589.592	34025.3	220.973	µg/L		
Mo 202.030	4700.0	510.534	µg/L		
B 182.527	-19.4	4.73558	µg/L		

Mean Data -----

ID: CCB	Seq. No.: 35	Sample No.: 14	A/S Pos: 1
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0: 1.0	Date: 10/12/04 5:06:40 PM
Data: Original			

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	70668.1	0.988	µg/L		
Sc 361.384	289884.2	0.928	µg/L		
Al 308.215	14320.2	-0.565953	µg/L		
Sb 206.833	49.0	10.7292	µg/L		
As 188.979	-8.1	2.60787	µg/L		
Ba 233.527	-137.2	0.351753	µg/L		
Be 313.107	197.4	0.0281377	µg/L		
Cd 226.502	-68.8	0.266648	µg/L		
Ca 430.253	10099.0	812.772	µg/L		
Ca 227.547	-112.6	540.805	µg/L		
Cr 205.560	-24.0	0.0416747	µg/L		
Co 228.616	22.4	-0.0872411	µg/L		
Cu 324.754	2797.5	0.218568	µg/L		
Fe 273.955	599.8	4.58924	µg/L		
Pb 220.353	106.4	3.78732	µg/L		
Mg 279.079	3135.9	-1.20802	µg/L		
Mn 257.610	704.5	0.198683	µg/L		
Ni 231.604	41.2	0.362889	µg/L		
K 766.491	13247.6	19.6623	µg/L		
Se 196.026	46.3	3.49321	µg/L		
Ag 338.289	-685.0	0.773344	µg/L		
Na 330.237	-127.1	836.253	µg/L		
Tl 190.800	-44.1	0.426065	µg/L		
V 292.402	-111.1	-0.186913	µg/L		

000095

Zn 206.200	130.3	0.610556	µg/L
Na 589.592	20318.8	191.674	µg/L
Co 202.030	43.1	4.46196	µg/L
Bi 182.527	-25.6	1.19124	µg/L

Mean Data		Seq. No.: 36	Sample No.: 11	A/S Pos: 34
ID: 241274-009				
Sample Qty: 1.0000 mL		Prep. Vol.: 1.0 mL		Dilution: 1.0: 1.0
		Data: Original		Date: 10/12/04 5:10:52 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Zn 360.073	70584.7	0.987	µg/L		
Na 361.384	280177.1	0.897	µg/L		
Al 308.215	157135.8	6283.19	µg/L	6283.19	µg/L
Pb 206.833	152.9	71.6457	µg/L	71.6457	µg/L
As 188.979	5324.3	2191.12	µg/L	2191.12	µg/L
Ca 233.527	1450.0	12.2296	µg/L	12.2296	µg/L
Se 313.107	516.6	0.225455	µg/L	0.225455	µg/L
Co 226.502	-77.8	0.0355500	µg/L	0.0355500	µg/L
Ca 430.253	441922.1	37092.4	µg/L	37092.4	µg/L
Ca 227.547	3215.8	36273.2	µg/L	36273.2	µg/L
Cr 205.560	33484.9	983.902	µg/L	983.902	µg/L
Co 228.616	114.4	2.40735	µg/L	2.40735	µg/L
Cu 324.754	3456.3	5.38452	µg/L	5.38452	µg/L
Fe 273.955	144462.7	2853.89	µg/L	2853.89	µg/L
Pb 220.353	86.3	1.69528	µg/L	1.69528	µg/L
Pg 279.079	192598.5	6619.57	µg/L	6619.57	µg/L
Mn 257.610	453983.2	493.111	µg/L	493.111	µg/L
Li 231.604	282.6	8.37543	µg/L	8.37543	µg/L
Cr 766.491	1616129.5	5406.48	µg/L	5406.48	µg/L
Se 196.026	65.7	13.6664	µg/L	13.6664	µg/L
Pg 338.289	-639.4	1.45388	µg/L	1.45388	µg/L
Ca 330.237	4219.6	15100.7	µg/L	15100.7	µg/L
Al 190.800	-43.8	0.139702	µg/L	0.139702	µg/L
Cr 292.402	-114.6	-0.234145	µg/L	-0.234145	µg/L
Zn 206.200	1062.8	12.7251	µg/L	12.7251	µg/L
Na 589.592	7987958.8	17222.9	µg/L	17222.9	µg/L
Co 202.030	23.4	2.32285	µg/L	2.32285	µg/L
Bi 182.527	637.0	382.268	µg/L	382.268	µg/L

Mean Data		Seq. No.: 37	Sample No.: 12	A/S Pos: 35
ID: 241274-010				
Sample Qty: 1.0000 mL		Prep. Vol.: 1.0 mL		Dilution: 1.0: 1.0
		Data: Original		Date: 10/12/04 5:15:24 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Zn 360.073	127104.7	1.777	µg/L		
Na 361.384	288687.9	0.925	µg/L		
Al 308.215	75879.1	2708.61	µg/L	2708.61	µg/L
Pb 206.833	21.6	-5.37407	µg/L	-5.37407	µg/L
As 188.979	0.1	6.21615	µg/L	6.21615	µg/L
Ca 233.527	2944.3	23.4114	µg/L	23.4114	µg/L
Se 313.107	327.7	0.108654	µg/L	0.108654	µg/L
Co 226.502	-41.7	0.568963	µg/L	0.568963	µg/L
Ca 430.253	484328.6	40655.2	µg/L	40655.2	µg/L
Ca 227.547	3611.7	40522.9	µg/L	40522.9	µg/L
Cr 205.560	432.4	13.4435	µg/L	13.4435	µg/L
Co 228.616	101.7	2.06277	µg/L	2.06277	µg/L
Cu 324.754	2236.6	-3.49289	µg/L	-3.49289	µg/L
Fe 273.955	225211.7	4453.18	µg/L	4453.18	µg/L
Pb 220.353	67.7	-1.00801	µg/L	-1.00801	µg/L
Pg 279.079	143471.3	4902.82	µg/L	4902.82	µg/L
Mn 257.610	178495.6	193.478	µg/L	193.478	µg/L
Li 231.604	139.9	3.63738	µg/L	3.63738	µg/L
Cr 766.491	1331927.5	4451.36	µg/L	4451.36	µg/L
Se 196.026	37.4	1.21920	µg/L	1.21920	µg/L
Pg 338.289	-460.3	4.13151	µg/L	4.13151	µg/L
Ca 330.237	3929.5	14148.8	µg/L	14148.8	µg/L
Al 190.800	-26.6	6.64271	µg/L	6.64271	µg/L
Cr 292.402	322.5	5.65800	µg/L	5.65800	µg/L
Zn 206.200	1455.4	17.9832	µg/L	17.9832	µg/L

Na 589.592	7866664.1	16963.7	µg/L	16963.7	µg/L
Mo 202.030	8.0	0.651499	µg/L	0.651499	µg/L
B 182.527	224.2	144.819	µg/L	144.819	µg/L

Mean Data -----

ID: 241274-011	Seq. No.: 38	Sample No.: 13	A/S Pos: 36
Sample Qty: 1.0000 mL	Prep. Vol.: 1.0 mL	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	5:19:39 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	70749.3	0.989	µg/L		
Sc 361.384	297970.4	0.954	µg/L		
Al 308.215	16062.7	76.1177	µg/L	76.1177	µg/L
Sb 206.833	31.0	0.164149	µg/L	0.164149	µg/L
As 188.979	0.5	6.13173	µg/L	6.13173	µg/L
Ba 233.527	-85.0	0.742479	µg/L	0.742479	µg/L
Be 313.107	196.9	0.0278386	µg/L	0.0278386	µg/L
Cd 226.502	-70.5	0.235448	µg/L	0.235448	µg/L
Ca 430.253	14302.6	1165.94	µg/L	1165.94	µg/L
Ca 227.547	-87.2	814.431	µg/L	814.431	µg/L
Cr 205.560	28.2	1.57301	µg/L	1.57301	µg/L
Co 228.616	69.1	1.17803	µg/L	1.17803	µg/L
Cu 324.754	3045.3	2.06702	µg/L	2.06702	µg/L
Fe 273.955	6898.8	129.346	µg/L	129.346	µg/L
Pb 220.353	96.6	2.44663	µg/L	2.44663	µg/L
Ag 279.079	3962.5	27.6792	µg/L	27.6792	µg/L
Mn 257.610	4672.3	4.51411	µg/L	4.51411	µg/L
Ni 231.604	54.2	0.793735	µg/L	0.793735	µg/L
K 766.491	24874.2	58.7362	µg/L	58.7362	µg/L
Se 196.026	48.3	4.44978	µg/L	4.44978	µg/L
Ag 338.289	-739.7	-0.0448390	µg/L	-0.0448390	µg/L
Na 330.237	5.5	1271.36	µg/L	1271.36	µg/L
Fl 190.800	-48.6	-1.23785	µg/L	-1.23785	µg/L
I 292.402	-95.8	0.0191628	µg/L	0.0191628	µg/L
Zn 206.200	1149.3	14.1010	µg/L	14.1010	µg/L
Na 589.592	136937.2	440.952	µg/L	440.952	µg/L
Mo 202.030	-1.5	-0.380009	µg/L	-0.380009	µg/L
B 182.527	-20.1	4.35022	µg/L	4.35022	µg/L

Mean Data -----

ID: 241274-012	Seq. No.: 39	Sample No.: 14	A/S Pos: 37
Sample Qty: 1.0000 mL	Prep. Vol.: 1.0 mL	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	5:23:46 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	67904.7	0.949	µg/L		
Sc 361.384	279271.6	0.894	µg/L		
Al 308.215	58122.5	1926.59	µg/L	1926.59	µg/L
Sb 206.833	91.9	35.8690	µg/L	35.8690	µg/L
As 188.979	60412.3	24801.6	µg/L	24801.6	µg/L
Ba 233.527	484.0	5.00039	µg/L	5.00039	µg/L
Be 313.107	221.0	0.0427000	µg/L	0.0427000	µg/L
Cd 226.502	-75.5	0.147645	µg/L	0.147645	µg/L
Ca 430.253	917105.6	77014.9	µg/L	77014.9	µg/L
Ca 227.547	6746.1	74173.0	µg/L	74173.0	µg/L
Cr 205.560	5686.4	167.707	µg/L	167.707	µg/L
Co 228.616	84.8	1.60449	µg/L	1.60449	µg/L
Cu 324.754	14118.8	84.1420	µg/L	84.1420	µg/L
Fe 273.955	19463.2	378.193	µg/L	378.193	µg/L
Pb 220.353	99.5	3.69345	µg/L	3.69345	µg/L
Ag 279.079	312021.8	10792.8	µg/L	10792.8	µg/L
Mn 257.610	1035716.9	1125.82	µg/L	1125.82	µg/L
Ni 231.604	413.3	12.7156	µg/L	12.7156	µg/L
K 766.491	1126423.0	3760.72	µg/L	3760.72	µg/L
Se 196.026	80.8	21.4101	µg/L	21.4101	µg/L
Ag 338.289	-745.4	-0.129289	µg/L	-0.129289	µg/L
Na 330.237	9492.9	32406.4	µg/L	32406.4	µg/L
Fl 190.800	-49.3	-3.08580	µg/L	-3.08580	µg/L
I 292.402	148.4	3.31130	µg/L	3.31130	µg/L
Zn 206.200	1601.4	19.7106	µg/L	19.7106	µg/L
Na 589.592	Saturated				

-Run As at dil 010/3/04

000097

to 202.030	22.6	2.23100	µg/L	2.23100	µg/L
182.527	840.6	499.349	µg/L	499.349	µg/L

Mean Data -----

D: 241274-012	MD	Seq. No.: 40	Sample No.: 15	A/S Pos: 38
Sample Qty:	1.0000 mL	Prep. Vol.:	1.0 mL	Dilution: 1.0: 1.0
		Data: Original		Date: 10/12/04 5:28:00 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	66926.2	0.936	µg/L		
c 361.384	278717.5	0.893	µg/L		
l 308.215	58890.1	1960.37	µg/L	1960.37	µg/L
b 206.833	91.5	35.6569	µg/L	35.6569	µg/L
s 188.979	61071.4	25072.1	µg/L	25072.1	µg/L
a 233.527	475.2	4.93459	µg/L	4.93459	µg/L
e 313.107	242.9	0.0562318	µg/L	0.0562318	µg/L
d 226.502	-58.4	0.422321	µg/L	0.422321	µg/L
a 430.253	929141.4	78026.1	µg/L	78026.1	µg/L
a 227.547	6760.9	74331.7	µg/L	74331.7	µg/L
r 205.560	5725.9	168.865	µg/L	168.865	µg/L
o 228.616	95.2	1.88640	µg/L	1.88640	µg/L
u 324.754	14304.2	85.5172	µg/L	85.5172	µg/L
e 273.955	20201.4	392.814	µg/L	392.814	µg/L
b 220.353	102.6	4.13738	µg/L	4.13738	µg/L
g 279.079	316748.0	10958.0	µg/L	10958.0	µg/L
n 257.610	1050682.9	1142.09	µg/L	1142.09	µg/L
i 231.604	420.8	12.9674	µg/L	12.9674	µg/L
766.491	1143435.6	3817.90	µg/L	3817.90	µg/L
e 196.026	79.0	20.6333	µg/L	20.6333	µg/L
g 338.289	-736.7	0.0003294	µg/L	0.0003294	µg/L
a 330.237	9629.2	32853.4	µg/L	32853.4	µg/L
l 190.800	-46.5	-2.08957	µg/L	-2.08957	µg/L
292.402	145.4	3.26970	µg/L	3.26970	µg/L
n 206.200	1610.6	19.8268	µg/L	19.8268	µg/L
a 589.592	Saturated				
o 202.030	17.0	1.62769	µg/L	1.62769	µg/L
182.527	850.9	505.228	µg/L	505.228	µg/L

Mean Data -----

D: 241274-012	MS	Seq. No.: 41	Sample No.: 16	A/S Pos: 39
Sample Qty:	1.0000 mL	Prep. Vol.:	1.0 mL	Dilution: 1.0: 1.0
		Data: Original		Date: 10/12/04 5:32:16 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	73113.3	1.022	µg/L		
c 361.384	308230.1	0.987	µg/L		
l 308.215	91751.3	3406.27	µg/L	3406.27	µg/L
b 206.833	76.4	26.7911	µg/L	26.7911	µg/L
s 188.979	53947.6	22148.2	µg/L	22148.2	µg/L
a 233.527	265713.5	1989.79	µg/L	1989.79	µg/L
e 313.107	70693.7	43.6049	µg/L	43.6049	µg/L
d 226.502	-57.7	0.304142	µg/L	0.304142	µg/L
a 430.253	851883.2	71535.3	µg/L	71535.3	µg/L
a 227.547	6270.9	69070.9	µg/L	69070.9	µg/L
r 205.560	11415.9	335.929	µg/L	335.929	µg/L
o 228.616	16565.8	448.778	µg/L	448.778	µg/L
u 324.754	42373.2	293.580	µg/L	293.580	µg/L
e 273.955	62922.6	1238.94	µg/L	1238.94	µg/L
b 220.353	60.5	-1.64916	µg/L	-1.64916	µg/L
g 279.079	280225.1	9681.69	µg/L	9681.69	µg/L
n 257.610	1388269.9	1509.35	µg/L	1509.35	µg/L
i 231.604	13614.0	451.036	µg/L	451.036	µg/L
766.491	1056670.7	3526.31	µg/L	3526.31	µg/L
e 196.026	92.9	26.8358	µg/L	26.8358	µg/L
g 338.289	981.9	25.6838	µg/L	25.6838	µg/L
a 330.237	8343.7	28635.0	µg/L	28635.0	µg/L
l 190.800	-63.6	-9.25600	µg/L	-9.25600	µg/L
292.402	33356.1	450.926	µg/L	450.926	µg/L
n 206.200	36482.0	481.581	µg/L	481.581	µg/L
a 589.592	Saturated				
o 202.030	9411.3	1022.53	µg/L	1022.53	µg/L

000398

B 182.527 2490.7 1448.30 µg/L 1448.30 µg/L

Mean Data

ID: 241274-012 MSF Seq. No.: 42 Sample No.: 17 A/S Pos: 40
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
 Date: 10/12/04 5:36:28 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	65283.9	0.913	µg/L		
Sc 361.384	273222.3	0.875	µg/L		
Al 308.215	61824.8	2089.49	µg/L	2089.49	µg/L
Sb 206.833	320.8	170.152	µg/L	170.152	µg/L
As 188.979	64025.3	26284.5	µg/L	26284.5	µg/L
Ba 233.527	914.7	8.22374	µg/L	8.22374	µg/L
Be 313.107	410.7	0.159993	µg/L	0.159993	µg/L
Cd 226.502	3190.9	52.7027	µg/L	52.7027	µg/L
Ca 430.253	949081.7	79701.4	µg/L	79701.4	µg/L
Ce 227.547	7088.6	77849.0	µg/L	77849.0	µg/L
Cr 205.560	6040.3	178.098	µg/L	178.098	µg/L
Co 228.616	128.6	2.79344	µg/L	2.79344	µg/L
Cu 324.754	15054.4	91.0785	µg/L	91.0785	µg/L
Fe 273.955	21580.0	420.117	µg/L	420.117	µg/L
Pb 220.353	242.6	23.4304	µg/L	23.4304	µg/L
Hg 279.079	331024.6	11456.9	µg/L	11456.9	µg/L
Mn 257.610	1071412.5	1164.63	µg/L	1164.63	µg/L
Ni 231.604	470.8	14.6261	µg/L	14.6261	µg/L
K 766.491	1166860.4	3896.62	µg/L	3896.62	µg/L
Se 196.026	100.6	30.3838	µg/L	30.3838	µg/L
Ag 338.289	-762.1	-0.379900	µg/L	-0.379900	µg/L
Va 330.237	10113.4	34442.3	µg/L	34442.3	µg/L
Cl 190.800	91.1	48.0315	µg/L	48.0315	µg/L
I 292.402	217.5	4.24196	µg/L	4.24196	µg/L
Zn 206.200	1921.5	23.9251	µg/L	23.9251	µg/L
Va 589.592	Saturated				
Co 202.030	71.7	7.56970	µg/L	7.56970	µg/L
B 182.527	913.6	541.310	µg/L	541.310	µg/L

Mean Data

ID: 241274-012 SD Seq. No.: 43 Sample No.: 18 A/S Pos: 41
 Sample Qty: 1.0000 mL *5X* Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
 Date: 10/12/04 5:40:35 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	69699.8	0.974	µg/L		
Sc 361.384	277310.9	0.888	µg/L		
Al 308.215	22734.1	369.617	µg/L	369.617	µg/L
Sb 206.833	45.7	8.77737	µg/L	8.77737	µg/L
As 188.979	12163.8	4998.46	µg/L	4998.46	µg/L
Ba 233.527	-42.4	1.06104	µg/L	1.06104	µg/L
Be 313.107	205.1	0.0328652	µg/L	0.0328652	µg/L
Cd 226.502	-89.4	-0.0660776	µg/L	-0.0660776	µg/L
Ca 430.253	175667.9	14723.1	µg/L	14723.1	µg/L
Ce 227.547	1240.2	15064.5	µg/L	15064.5	µg/L
Cr 205.560	1123.6	33.7353	µg/L	33.7353	µg/L
Co 228.616	35.1	0.255050	µg/L	0.255050	µg/L
Cu 324.754	5011.4	16.6284	µg/L	16.6284	µg/L
Fe 273.955	3738.6	66.7556	µg/L	66.7556	µg/L
Pb 220.353	91.3	1.86632	µg/L	1.86632	µg/L
Hg 279.079	66740.7	2221.47	µg/L	2221.47	µg/L
Mn 257.610	203824.9	221.098	µg/L	221.098	µg/L
Ni 231.604	118.8	2.93906	µg/L	2.93906	µg/L
K 766.491	166829.9	535.808	µg/L	535.808	µg/L
Se 196.026	49.8	5.52302	µg/L	5.52302	µg/L
Ag 338.289	-695.9	0.610858	µg/L	0.610858	µg/L
Va 330.237	1662.2	6707.99	µg/L	6707.99	µg/L
Cl 190.800	-45.0	-0.242251	µg/L	-0.242251	µg/L
I 292.402	-52.2	0.606966	µg/L	0.606966	µg/L
Zn 206.200	508.4	5.53838	µg/L	5.53838	µg/L
Va 589.592	2884265.8	6313.51	µg/L	6313.51	µg/L
Co 202.030	13.9	1.28640	µg/L	1.28640	µg/L
B 182.527	163.5	109.928	µg/L	109.928	µg/L

000099

Mean Data -----
 ID: CCVM03AGCCV01 Seq. No.: 44 Sample No.: 11 A/S Pos: 4
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Original Date: 10/12/04 5:44:36 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	71356.0	0.998	µg/L		
c 361.384	304506.8	0.975	µg/L		
l 308.215	16333.4	88.0058	µg/L		
b 206.833	17.3	-7.89643	µg/L		
s 188.979	9.5	9.82083	µg/L		
a 233.527	65.6	1.86981	µg/L		
e 313.107	546.1	0.243658	µg/L		
d 226.502	-55.3	0.484125	µg/L		
a 430.253	10667.9	860.573	µg/L		
a 227.547	-111.0	558.603	µg/L		
r 205.560	4.2	0.869988	µg/L		
o 228.616	-1.7	-0.743147	µg/L		
u 324.754	42258.9	292.612	µg/L		
e 273.955	1616.8	24.7327	µg/L		
b 220.353	73.6	-0.720115	µg/L		
g 279.079	4593.7	49.7349	µg/L		
n 257.610	1448.4	1.00666	µg/L		
i 231.604	75.0	1.48207	µg/L		
766.491	12942.3	18.6363	µg/L		
e 196.026	44.5	2.68447	µg/L		
g 338.289	18466.7	286.990	µg/L		
a 330.237	-104.6	910.075	µg/L		
l 190.800	699.1	271.243	µg/L		
292.402	-88.8	0.114111	µg/L		
n 206.200	413.7	4.36030	µg/L		
a 589.592	33172.4	219.150	µg/L		
o 202.030	9190.3	998.506	µg/L		
182.527	1766.2	1031.67	µg/L		

Mean Data -----
 ID: CCVM04IRCCV01 Seq. No.: 45 Sample No.: 12 A/S Pos: 2
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Original Date: 10/12/04 5:48:59 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	67893.3	0.949	µg/L		
c 361.384	278558.1	0.892	µg/L		
l 308.215	222622.4	9164.65	µg/L		
b 206.833	1046.6	595.968	µg/L		
s 188.979	-8.3	2.36680	µg/L		
a 233.527	1361744.7	10191.7	µg/L		
e 313.107	387112.1	239.197	µg/L		
d 226.502	-29.2	0.213180	µg/L		
a 430.253	280189.5	23504.4	µg/L		
a 227.547	2000.3	23224.0	µg/L		
r 205.560	34479.4	1013.10	µg/L		
o 228.616	87989.7	2386.70	µg/L		
u 324.754	160949.0	1172.52	µg/L		
e 273.955	237956.4	4705.60	µg/L		
b 220.353	103.7	4.10218	µg/L		
g 279.079	691721.8	24061.4	µg/L		
n 257.610	2256900.7	2453.89	µg/L		
i 231.604	73055.8	2424.76	µg/L		
766.491	9140576.5	30694.0	µg/L		
e 196.026	52.6	7.19169	µg/L		
g 338.289	44925.9	682.418	µg/L		
a 330.237	7081.8	24493.7	µg/L		
l 190.800	-44.9	-5.55182	µg/L		
292.402	172585.7	2327.64	µg/L		
n 206.200	183119.0	2422.60	µg/L		
a 589.592	14762724.7	31704.4	µg/L		
o 202.030	4979.1	540.873	µg/L		
182.527	-13.2	8.29546	µg/L		

000100

Mean Data -----
 ID: CCVM02ISBCCV1 Seq. No.: 46 Sample No.: 13 A/S Pos: 3
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Date: Original Date: 10/12/04 5:53:15 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	69349.4	0.970	µg/L		
361.384	295032.9	0.945	µg/L		
308.215	15243.4	40.0508	µg/L		
206.833	1010.1	574.524	µg/L		
QC exceeds upper limit for Sb 206.833 Recovery = 114.90% Action = Continue					
188.979	2579.2	1064.54	µg/L		
233.527	408.7	4.43714	µg/L		
313.107	416.4	0.163490	µg/L		
226.502	33221.8	535.914	µg/L		
430.253	10517.9	847.966	µg/L		
227.547	-114.2	523.639	µg/L		
205.560	7.5	0.967644	µg/L		
228.616	73.9	1.30818	µg/L		
324.754	3150.3	2.83338	µg/L		
273.955	927.4	11.0789	µg/L		
220.353	7027.2	956.667	µg/L		
279.079	3384.6	7.48497	µg/L		
257.610	1541.3	1.10875	µg/L		
231.604	78.5	1.59912	µg/L		
766.491	21164.0	46.2673	µg/L		
196.026	2446.9	1087.65	µg/L		
338.289	-394.6	5.11336	µg/L		
330.237	-179.3	664.852	µg/L		
190.800	2581.9	957.314	µg/L		
292.402	-35.9	0.826811	µg/L		
206.200	322.1	3.14923	µg/L		
589.592	34305.4	221.571	µg/L		
202.030	4957.9	538.566	µg/L		
182.527	-16.2	6.56706	µg/L		

Mean Data -----
 ID: CCB Seq. No.: 47 Sample No.: 14 A/S Pos: 1
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Date: Original Date: 10/12/04 5:57:09 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	70421.0	0.985	µg/L		
361.384	286714.1	0.918	µg/L		
308.215	14337.2	0.179005	µg/L		
206.833	44.8	8.23012	µg/L		
188.979	-1.9	5.13215	µg/L		
233.527	-134.2	0.374202	µg/L		
313.107	172.3	0.0125883	µg/L		
226.502	-67.4	0.289149	µg/L		
430.253	10199.9	821.250	µg/L		
227.547	-115.2	513.564	µg/L		
205.560	-24.5	0.0266685	µg/L		
228.616	27.9	0.0605107	µg/L		
324.754	2842.9	0.554286	µg/L		
273.955	412.5	0.879430	µg/L		
220.353	75.8	-0.425946	µg/L		
279.079	3118.0	-1.83158	µg/L		
257.610	675.0	0.166625	µg/L		
231.604	44.0	0.454444	µg/L		
766.491	12206.8	16.1646	µg/L		
196.026	43.5	2.26234	µg/L		
338.289	-743.1	-0.0951428	µg/L		
330.237	-133.6	814.811	µg/L		
190.800	-43.7	0.550418	µg/L		
292.402	-103.6	-0.0866059	µg/L		
206.200	125.0	0.540510	µg/L		
589.592	19078.8	189.024	µg/L		
202.030	38.0	3.90390	µg/L		
182.527	-26.0	0.932141	µg/L		

000101

Mean Data
 ID: 241274-012X **3X** Seq. No.: 48 Sample No.: 19 A/S Pos: 42
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
for As @ 10/13/04 Data: Original Date: 10/12/04 6:01:12 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	70785.2	0.990	µg/L		
Sc 361.384	299008.4	0.958	µg/L		
Al 308.215	28520.2	624.188	µg/L	624.188	µg/L
B 206.833	58.2	16.0912	µg/L	16.0912	µg/L
As 188.979	20617.2	8468.05	µg/L	8468.05	µg/L
Ba 233.527	90.0	2.05220	µg/L	2.05220	µg/L
Be 313.107	222.1	0.0433750	µg/L	0.0433750	µg/L
Bd 226.502	-78.2	0.111927	µg/L	0.111927	µg/L
Ca 430.253	298943.4	25080.0	µg/L	25080.0	µg/L
Ca 227.547	2186.1	25218.4	µg/L	25218.4	µg/L
Cr 205.560	1933.7	57.5213	µg/L	57.5213	µg/L
Co 228.616	54.6	0.786648	µg/L	0.786648	µg/L
Cu 324.754	6551.4	28.0452	µg/L	28.0452	µg/L
Fe 273.955	6713.3	125.672	µg/L	125.672	µg/L
Pb 220.353	85.1	1.13423	µg/L	1.13423	µg/L
Mg 279.079	112511.3	3820.92	µg/L	3820.92	µg/L
Mn 257.610	353816.7	384.220	µg/L	384.220	µg/L
Ni 231.604	173.5	4.75585	µg/L	4.75585	µg/L
K 766.491	303318.6	994.507	µg/L	994.507	µg/L
Se 196.026	58.0	9.54081	µg/L	9.54081	µg/L
Ag 338.289	-706.8	0.447353	µg/L	0.447353	µg/L
Na 330.237	2976.2	11020.3	µg/L	11020.3	µg/L
Cl 190.800	-44.9	-0.409828	µg/L	-0.409828	µg/L
F 292.402	-32.6	0.871266	µg/L	0.871266	µg/L
Zn 206.200	692.6	7.92150	µg/L	7.92150	µg/L
Na 589.592	5265365.2	11403.2	µg/L	11403.2	µg/L
Po 202.030	20.4	1.99729	µg/L	1.99729	µg/L
B 182.527	271.0	171.760	µg/L	171.760	µg/L

Mean Data
 ID: 241274-012X MD **3X** Seq. No.: 49 Sample No.: 20 A/S Pos: 43
 Sample Qty: 1.0000 mL **09/15/04** Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
 Data: Original Date: 10/12/04 6:05:25 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	70208.5	0.982	µg/L		
Sc 361.384	294999.6	0.945	µg/L		
Al 308.215	28656.1	630.168	µg/L	630.168	µg/L
B 206.833	50.4	11.5117	µg/L	11.5117	µg/L
As 188.979	20613.9	8466.73	µg/L	8466.73	µg/L
Ba 233.527	56.8	1.80336	µg/L	1.80336	µg/L
Be 313.107	223.9	0.0445128	µg/L	0.0445128	µg/L
Bd 226.502	-71.2	0.224565	µg/L	0.224565	µg/L
Ca 430.253	299688.9	25142.7	µg/L	25142.7	µg/L
Ca 227.547	2206.0	25432.0	µg/L	25432.0	µg/L
Cr 205.560	1944.7	57.8453	µg/L	57.8453	µg/L
Co 228.616	39.8	0.384805	µg/L	0.384805	µg/L
Cu 324.754	6539.7	27.9588	µg/L	27.9588	µg/L
Fe 273.955	6931.5	129.993	µg/L	129.993	µg/L
Pb 220.353	89.3	1.70409	µg/L	1.70409	µg/L
Mg 279.079	112164.4	3808.80	µg/L	3808.80	µg/L
Mn 257.610	353678.5	384.070	µg/L	384.070	µg/L
Ni 231.604	165.9	4.50082	µg/L	4.50082	µg/L
K 766.491	303899.8	996.460	µg/L	996.460	µg/L
Se 196.026	58.7	9.82190	µg/L	9.82190	µg/L
Ag 338.289	-722.9	0.206652	µg/L	0.206652	µg/L
Na 330.237	2994.2	11079.2	µg/L	11079.2	µg/L
Cl 190.800	-49.3	-2.00958	µg/L	-2.00958	µg/L
F 292.402	-21.0	1.02748	µg/L	1.02748	µg/L
Zn 206.200	691.6	7.90917	µg/L	7.90917	µg/L
Na 589.592	5328171.6	11537.5	µg/L	11537.5	µg/L
Po 202.030	11.8	1.06539	µg/L	1.06539	µg/L
B 182.527	272.8	172.811	µg/L	172.811	µg/L

Mean Data

000102

ID: 241274-012X MSF

Sample Qty: 1.0000 mL

Seq. No.: 50

Prep. Vol.: 1.0 mL

Data: Original

Sample No.: 21

1.0 mL

A/S Pos: 44

Dilution:

1.0:

1.0

Date: 10/12/04

6:09:38 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
C 360.073	69957.5	0.978	µg/L		
Sc 361.384	295363.6	0.946	µg/L		
Al 308.215	28968.0	643.891	µg/L	643.891	µg/L
Si 206.833	124.5	54.9914	µg/L	54.9914	µg/L
As 188.979	20850.4	8563.79	µg/L	8563.79	µg/L
Ba 233.527	164.9	2.61262	µg/L	2.61262	µg/L
Be 313.107	235.0	0.0513595	µg/L	0.0513595	µg/L
Ca 430.253	992.5	17.3382	µg/L	17.3382	µg/L
Ca 227.547	300183.3	25184.2	µg/L	25184.2	µg/L
Cr 205.560	2210.6	25482.4	µg/L	25482.4	µg/L
Co 228.616	1963.2	58.3892	µg/L	58.3892	µg/L
Cu 324.754	61.7	0.977020	µg/L	0.977020	µg/L
Fe 273.955	6574.8	28.2195	µg/L	28.2195	µg/L
Pb 220.353	7089.2	133.117	µg/L	133.117	µg/L
Mg 279.079	137.9	8.40343	µg/L	8.40343	µg/L
Mn 257.610	112717.9	3828.14	µg/L	3828.14	µg/L
Ni 231.604	355588.6	386.147	µg/L	386.147	µg/L
K 766.491	173.7	4.76060	µg/L	4.76060	µg/L
Se 196.026	303920.6	996.530	µg/L	996.530	µg/L
Ag 338.289	65.5	12.9314	µg/L	12.9314	µg/L
Na 330.237	-724.8	0.177630	µg/L	0.177630	µg/L
Fl 190.800	3012.4	11139.2	µg/L	11139.2	µg/L
Zn 206.200	-0.6	15.7286	µg/L	15.7286	µg/L
Na 589.592	1.7	1.33287	µg/L	1.33287	µg/L
Mo 202.030	758.7	8.79631	µg/L	8.79631	µg/L
B 182.527	5360746.6	11607.1	µg/L	11607.1	µg/L
	16.5	1.57660	µg/L	1.57660	µg/L
	277.3	175.376	µg/L	175.376	µg/L

Mean Data

ID: 241274-012X SD

Sample Qty: 1.0000 mL

Seq. No.: 51

Prep. Vol.: 1.0 mL

Data: Original

Sample No.: 22

1.0 mL

A/S Pos: 45

Dilution:

1.0:

1.0

Date: 10/12/04

6:13:46 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
C 360.073	70202.4	0.982	µg/L		
Sc 361.384	283147.8	0.907	µg/L		
Al 308.215	17013.3	117.921	µg/L	117.921	µg/L
Si 206.833	36.0	3.11160	µg/L	3.11160	µg/L
As 188.979	3887.1	1601.33	µg/L	1601.33	µg/L
Ba 233.527	-119.4	0.485099	µg/L	0.485099	µg/L
Be 313.107	180.6	0.0177505	µg/L	0.0177505	µg/L
Ca 430.253	-70.9	0.231601	µg/L	0.231601	µg/L
Ca 227.547	63692.1	5315.40	µg/L	5315.40	µg/L
Cr 205.560	339.7	5396.66	µg/L	5396.66	µg/L
Co 228.616	373.0	11.6983	µg/L	11.6983	µg/L
Cu 324.754	32.2	0.176600	µg/L	0.176600	µg/L
Fe 273.955	3547.3	5.77545	µg/L	5.77545	µg/L
Pb 220.353	1449.9	21.4262	µg/L	21.4262	µg/L
Mg 279.079	83.8	0.729156	µg/L	0.729156	µg/L
Mn 257.610	24628.7	749.858	µg/L	749.858	µg/L
Ni 231.604	70578.3	76.1888	µg/L	76.1888	µg/L
K 766.491	61.1	1.02221	µg/L	1.02221	µg/L
Se 196.026	53935.7	156.403	µg/L	156.403	µg/L
Ag 338.289	45.8	3.42640	µg/L	3.42640	µg/L
Na 330.237	-742.4	-0.0850613	µg/L	-0.0850613	µg/L
Fl 190.800	459.0	2759.73	µg/L	2759.73	µg/L
Zn 206.200	-47.3	-0.860519	µg/L	-0.860519	µg/L
Na 589.592	-93.7	0.0473774	µg/L	0.0473774	µg/L
Mo 202.030	350.8	3.50349	µg/L	3.50349	µg/L
B 182.527	855944.4	1977.87	µg/L	1977.87	µg/L
	7.5	0.592621	µg/L	0.592621	µg/L
	37.3	37.3393	µg/L	37.3393	µg/L

Mean Data

ID: 241274-013

Seq. No.: 52

Sample No.: 23

A/S Pos: 46

000103

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0
 Data: Original Date: 10/12/04 6:18:06 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	70611.6	0.987	µg/L		
Sc 361.384	282817.0	0.906	µg/L		
Al 308.215	29667.7	674.808	µg/L	674.808	µg/L
Sb 206.833	56.3	14.9954	µg/L	14.9954	µg/L
As 188.979	2002.8	827.991	µg/L	827.991	µg/L
Ba 233.527	1508.8	12.6697	µg/L	12.6697	µg/L
Be 313.107	156.9	0.0030576	µg/L	0.0030576	µg/L
Cd 226.502	-81.4	0.0389864	µg/L	0.0389864	µg/L
Ca 430.253	680078.5	57101.1	µg/L	57101.1	µg/L
Ca 227.547	5015.1	55589.5	µg/L	55589.5	µg/L
Cr 205.560	16580.7	487.575	µg/L	487.575	µg/L
Co 228.616	56.1	0.825983	µg/L	0.825983	µg/L
Cu 324.754	3067.9	2.30300	µg/L	2.30300	µg/L
Fe 273.955	41419.5	813.053	µg/L	813.053	µg/L
Pb 220.353	98.9	3.34581	µg/L	3.34581	µg/L
Mg 279.079	250867.7	8655.79	µg/L	8655.79	µg/L
Mn 257.610	67915.3	73.0944	µg/L	73.0944	µg/L
Ni 231.604	70.0	1.31865	µg/L	1.31865	µg/L
K 766.491	1222635.9	4084.07	µg/L	4084.07	µg/L
Se 196.026	68.3	15.3309	µg/L	15.3309	µg/L
Ag 338.289	-692.3	0.664192	µg/L	0.664192	µg/L
Na 330.237	5210.4	18352.3	µg/L	18352.3	µg/L
Fl 190.800	-49.1	-1.48633	µg/L	-1.48633	µg/L
V 292.402	-164.0	-0.900356	µg/L	-0.900356	µg/L
Zn 206.200	320.4	2.82395	µg/L	2.82395	µg/L
Va 589.592	10190844.8	21931.7	µg/L	21931.7	µg/L
Mo 202.030	15.0	1.47136	µg/L	1.47136	µg/L
B 182.527	481.2	292.636	µg/L	292.636	µg/L

Mean Data -----
 ID: 241274-014 Seq. No.: 53 Sample No.: 24 A/S Pos: 47
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0
 Data: Original Date: 10/12/04 6:22:39 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	75010.6	1.049	µg/L		
Sc 361.384	283679.3	0.909	µg/L		
Al 308.215	112159.4	4305.11	µg/L	4305.11	µg/L
Sb 206.833	43.2	7.31664	µg/L	7.31664	µg/L
As 188.979	584.9	246.296	µg/L	246.296	µg/L
Ba 233.527	3721.0	29.2241	µg/L	29.2241	µg/L
Be 313.107	471.8	0.197709	µg/L	0.197709	µg/L
Cd 226.502	-65.9	0.127514	µg/L	0.127514	µg/L
Ca 430.253	633754.1	53209.2	µg/L	53209.2	µg/L
Ca 227.547	4617.7	51322.8	µg/L	51322.8	µg/L
Cr 205.560	4732.6	139.700	µg/L	139.700	µg/L
Co 228.616	167.6	3.85112	µg/L	3.85112	µg/L
Cu 324.754	9554.2	50.8989	µg/L	50.8989	µg/L
Fe 273.955	311885.0	6169.81	µg/L	6169.81	µg/L
Pb 220.353	114.7	5.67303	µg/L	5.67303	µg/L
Mg 279.079	191036.7	6564.99	µg/L	6564.99	µg/L
Mn 257.610	1310188.7	1424.50	µg/L	1424.50	µg/L
Ni 231.604	174.9	4.80123	µg/L	4.80123	µg/L
K 766.491	999757.3	3335.04	µg/L	3335.04	µg/L
Se 196.026	64.9	13.9761	µg/L	13.9761	µg/L
Ag 338.289	-739.7	-0.0441898	µg/L	-0.0441898	µg/L
Va 330.237	8057.3	27695.1	µg/L	27695.1	µg/L
Fl 190.800	-44.3	-1.57877	µg/L	-1.57877	µg/L
V 292.402	405.0	6.76980	µg/L	6.76980	µg/L
Zn 206.200	2107.0	26.5533	µg/L	26.5533	µg/L
Va 589.592	15917122.0	34171.9	µg/L	34171.9	µg/L
Mo 202.030	12.9	1.17998	µg/L	1.17998	µg/L
B 182.527	398.3	244.954	µg/L	244.954	µg/L

Mean Data -----
 ID: CRIM04ICRI001 Seq. No.: 54 Sample No.: 6 A/S Pos: 12
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0

000104

Data: Original

Date: 10/12/04

6:26:51 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	70701.7	0.988	µg/L		
361.384	290661.7	0.931	µg/L		
308.215	14381.5	2.13392	µg/L		
206.833	255.4	131.797	µg/L		
188.979	48.0	25.6256	µg/L		
233.527	-137.0	0.353588	µg/L		
313.107	15614.2	9.55789	µg/L		
226.502	540.0	10.0395	µg/L		
430.253	10405.5	838.522	µg/L		
227.547	-115.3	511.916	µg/L		
205.560	669.9	20.4163	µg/L		
228.616	3517.8	94.7524	µg/L		
324.754	9875.5	52.6657	µg/L		
273.955	1998.0	32.2832	µg/L		
220.353	130.8	7.15409	µg/L		
279.079	3093.3	-2.69600	µg/L		
257.610	30277.0	32.3677	µg/L		
231.604	2383.1	78.1213	µg/L		
766.491	12342.6	16.6211	µg/L		
196.026	59.2	9.32780	µg/L		
338.289	616.7	20.2263	µg/L		
330.237	-119.5	861.121	µg/L		
190.800	9.3	19.7295	µg/L		
292.402	6954.4	95.0510	µg/L		
206.200	3335.4	43.0465	µg/L		
589.592	40305.6	234.397	µg/L		
202.030	1.0	-0.112690	µg/L		
182.527	-18.3	5.36900	µg/L		

Mean Data
 D: ISAM03ISA001
 Sample Qty: 1.0000 g
 Seq. No.: 55
 Prep. Vol.: 1.0 L
 Data: Original
 Sample No.: 7
 A/S Pos: 5
 Dilution: 1.0: 1.0
 Date: 10/12/04 6:31:13 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	61008.3	0.853	µg/L		
361.384	271813.5	0.871	µg/L		
308.215	11501799.1	505428	µg/L		
206.833	21.5	-5.44770	µg/L		
188.979	5.7	-7.61893	µg/L		
233.527	-177.1	0.0535307	µg/L		
313.107	-627.5	-0.481787	µg/L		
226.502	377.8	2.13411	µg/L		
430.253	6284221.3	527933	µg/L		
227.547	48611.1	523612	µg/L		
205.560	21.6	1.37957	µg/L		
228.616	7.6	-0.490065	µg/L		
324.754	-1232.9	-11.9183	µg/L		
273.955	8951037.1	177274	µg/L		
220.353	-116.2	3.67928	µg/L		
279.079	13947557.3	487287	µg/L		
257.610	11040.6	-0.739880	µg/L		
231.604	84.5	1.79837	µg/L		
766.491	20306.4	43.3849	µg/L		
196.026	4.0	25.7520	µg/L		
338.289	-1201.5	-6.94594	µg/L		
330.237	-193.2	619.320	µg/L		
190.800	-71.0	18.3936	µg/L		
292.402	-138.7	-0.559397	µg/L		
206.200	1127.8	-3.23744	µg/L		
589.592	85158.0	330.272	µg/L		
202.030	-8.8	-1.18168	µg/L		
182.527	-143.4	-66.5755	µg/L		

Mean Data
 D: ISRM03ISR001
 Sample Qty: 1.0000 g
 Seq. No.: 56
 Prep. Vol.: 1.0 L
 Data: Original
 Sample No.: 9
 A/S Pos: 7
 Dilution: 1.0: 1.0
 Date: 10/12/04 6:36:02 PM

000105

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	60657.2	0.848	µg/L		
Sc 361.384	255492.2	0.818	µg/L		
Al 308.215	11893803.6	522675	µg/L		
Sb 206.833	1327.4	760.678	µg/L		
*QC exceeds upper limit for Sb 206.833 Recovery = 126.78% Action = Continue					
As 188.979	277.1	103.176	µg/L		
Ba 233.527	74164.5	556.372	µg/L		
Be 313.107	808905.1	499.925	µg/L		
Cd 226.502	60574.5	970.440	µg/L		
Ca 430.253	6519403.7	547692	µg/L		
Ca 227.547	50554.7	544477	µg/L		
Cr 205.560	16735.2	492.112	µg/L		
Co 228.616	16604.5	449.831	µg/L		
Cu 324.754	72266.0	533.214	µg/L		
Fe 273.955	9222027.8	182641	µg/L		
Pb 220.353	221.6	51.2519	µg/L		
Mg 279.079	14380859.4	502429	µg/L		
Mn 257.610	482465.8	511.699	µg/L		
Ni 231.604	28270.3	937.688	µg/L		
K 766.491	20623.3	44.4500	µg/L		
Se 196.026	125.3	81.9474	µg/L		
*QC exceeds upper limit for Se 196.026 Recovery = 163.89% Action = Continue					
Ag 338.289	12408.4	196.451	µg/L		
Na 330.237	-160.0	728.192	µg/L		
Fl 190.800	162.8	103.263	µg/L		
V 292.402	36550.5	493.985	µg/L		
Zn 206.200	73795.1	958.373	µg/L		
Na 589.592	71516.6	301.112	µg/L		
Mo 202.030	-2.5	-0.487609	µg/L		
B 182.527	-143.1	-66.3778	µg/L		

Mean Data -----
ID: CCVM03AGCCV01 Seq. No.: 57 Sample No.: 11 A/S Pos: 4
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 10/12/04 6:40:22 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	70592.3	0.987	µg/L		
Sc 361.384	277688.6	0.889	µg/L		
Al 308.215	19303.0	218.682	µg/L		
Sb 206.833	15.1	-9.15875	µg/L		
As 188.979	-7.3	2.92218	µg/L		
Ba 233.527	76.9	1.95391	µg/L		
Be 313.107	744.4	0.366217	µg/L		
Cd 226.502	-37.5	0.765449	µg/L		
Ca 430.253	11586.0	937.705	µg/L		
Ca 227.547	-106.5	607.078	µg/L		
Cr 205.560	4.6	0.882363	µg/L		
Co 228.616	-9.6	-0.957122	µg/L		
Cu 324.754	43817.7	304.175	µg/L		
Fe 273.955	8067.7	152.497	µg/L		
Pb 220.353	60.9	-2.46895	µg/L		
Mg 279.079	8342.8	180.749	µg/L		
Mn 257.610	1453.5	1.00892	µg/L		
Ni 231.604	77.8	1.57829	µg/L		
K 766.491	12263.7	16.3559	µg/L		
Se 196.026	42.5	1.79326	µg/L		
Ag 338.289	19153.5	297.256	µg/L		
Na 330.237	-118.2	865.275	µg/L		
Fl 190.800	731.0	282.867	µg/L		
V 292.402	-59.8	0.504131	µg/L		
Zn 206.200	468.8	5.08597	µg/L		
Na 589.592	21333.5	193.843	µg/L		
Mo 202.030	10085.0	1095.73	µg/L		
B 182.527	1791.9	1046.45	µg/L		

Mean Data -----
ID: CCVM04IRCCV01 Seq. No.: 58 Sample No.: 12 A/S Pos: 2
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

000106

Data: Original

Date: 10/12/04

6:44:45 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	68749.7	0.961	µg/L		
361.384	275855.6	0.883	µg/L		
308.215	220745.7	9082.07	µg/L		
206.833	1031.5	587.073	µg/L		
188.979	-20.1	-2.45922	µg/L		
233.527	1356922.2	10155.6	µg/L		
313.107	382722.4	236.483	µg/L		
226.502	1.2	0.713161	µg/L		
430.253	276769.1	23217.1	µg/L		
227.547	1958.5	22775.7	µg/L		
205.560	33885.9	995.676	µg/L		
228.616	86425.3	2344.26	µg/L		
324.754	160593.6	1169.89	µg/L		
273.955	235839.0	4663.67	µg/L		
220.353	104.4	4.19451	µg/L		
279.079	686236.2	23869.8	µg/L		
257.610	2238755.4	2434.16	µg/L		
231.604	71801.4	2383.11	µg/L		
766.491	8987569.0	30179.8	µg/L		
196.026	57.0	9.16136	µg/L		
338.289	43945.3	667.763	µg/L		
330.237	7007.9	24251.2	µg/L		
190.800	-43.4	-4.94310	µg/L		
292.402	169114.6	2280.85	µg/L		
206.200	179920.1	2380.25	µg/L		
589.592	14515835.7	31176.6	µg/L		
202.030	4877.7	529.846	µg/L		
182.527	-16.0	6.72095	µg/L		

Mean Data -----
 ID: CCVM02ISBCCV1 Seq. No.: 59 Sample No.: 13 A/S Pos: 3
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Original Date: 10/12/04 6:48:59 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	71855.6	1.005	µg/L		
361.384	306596.9	0.982	µg/L		
308.215	14643.6	13.6661	µg/L		
206.833	969.0	550.406	µg/L		
188.979	2449.0	1011.11	µg/L		
233.527	413.9	4.47613	µg/L		
313.107	422.9	0.167500	µg/L		
226.502	31114.5	502.008	µg/L		
430.253	10118.3	814.398	µg/L		
227.547	-109.8	571.022	µg/L		
205.560	1.8	0.799744	µg/L		
228.616	78.0	1.42050	µg/L		
324.754	2979.3	1.56723	µg/L		
273.955	1724.0	26.8560	µg/L		
220.353	6690.6	910.324	µg/L		
279.079	3532.9	12.6668	µg/L		
257.610	1555.5	1.12409	µg/L		
231.604	76.9	1.54680	µg/L		
766.491	20845.5	45.1969	µg/L		
196.026	2330.5	1035.06	µg/L		
338.289	-402.8	4.98984	µg/L		
330.237	-159.3	730.460	µg/L		
190.800	2464.5	914.559	µg/L		
292.402	-33.9	0.853643	µg/L		
206.200	320.4	3.12709	µg/L		
589.592	30870.2	214.229	µg/L		
202.030	4718.8	512.580	µg/L		
182.527	-19.7	4.57289	µg/L		

Mean Data -----
 ID: CCB Seq. No.: 60 Sample No.: 14 A/S Pos: 1
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Original Date: 10/12/04 6:52:53 PM

000107

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	70754.9	0.989	µg/L		
c 361.384	284934.8	0.913	µg/L		
l 308.215	14356.0	1.00878	µg/L		
b 206.833	48.9	10.6279	µg/L		
s 188.979	-6.4	3.29741	µg/L		
a 233.527	-108.7	0.564934	µg/L		
e 313.107	207.2	0.0341538	µg/L		
d 226.502	-69.7	0.251876	µg/L		
a 430.253	9994.0	803.952	µg/L		
a 227.547	-121.0	451.428	µg/L		
r 205.560	-17.1	0.243667	µg/L		
o 228.616	28.5	0.0761089	µg/L		
u 324.754	2776.7	0.0651022	µg/L		
e 273.955	925.6	11.0427	µg/L		
b 220.353	103.3	3.36662	µg/L		
g 279.079	3357.7	6.54441	µg/L		
n 257.610	695.4	0.188610	µg/L		
i 231.604	45.9	0.517558	µg/L		
766.491	11946.7	15.2906	µg/L		
e 196.026	40.9	1.07909	µg/L		
g 338.289	-625.7	1.65869	µg/L		
a 330.237	-112.7	883.471	µg/L		
l 190.800	-40.1	1.86949	µg/L		
292.402	-101.2	-0.0530712	µg/L		
n 206.200	123.0	0.513497	µg/L		
a 589.592	16947.1	184.467	µg/L		
o 202.030	46.0	4.78297	µg/L		
182.527	-24.2	1.98621	µg/L		

ean Data -----
D: MB 76961 Seq. No.: 61 Sample No.: 25 A/S Pos: 48
sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 10/12/04 6:56:47 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
360.073	71656.0	1.002	µg/L		
c 361.384	302876.0	0.970	µg/L		
l 308.215	14850.5	22.7660	µg/L	22.7660	µg/L
b 206.833	39.7	5.28168	µg/L	5.28168	µg/L
s 188.979	-8.1	2.59951	µg/L	2.59951	µg/L
a 233.527	-140.7	0.325392	µg/L	0.325392	µg/L
e 313.107	204.4	0.0324742	µg/L	0.0324742	µg/L
d 226.502	-79.6	0.0926160	µg/L	0.0926160	µg/L
a 430.253	10011.3	805.402	µg/L	805.402	µg/L
a 227.547	-120.3	458.998	µg/L	458.998	µg/L
r 205.560	-6.9	0.544278	µg/L	0.544278	µg/L
o 228.616	34.9	0.251965	µg/L	0.251965	µg/L
u 324.754	2877.7	0.812781	µg/L	0.812781	µg/L
e 273.955	753.5	7.63377	µg/L	7.63377	µg/L
b 220.353	82.5	0.499958	µg/L	0.499958	µg/L
g 279.079	3503.2	11.6287	µg/L	11.6287	µg/L
n 257.610	581.2	0.0641928	µg/L	0.0641928	µg/L
i 231.604	44.8	0.481173	µg/L	0.481173	µg/L
766.491	9720.5	7.80884	µg/L	7.80884	µg/L
e 196.026	43.8	2.37648	µg/L	2.37648	µg/L
g 338.289	-628.0	1.62504	µg/L	1.62504	µg/L
a 330.237	-45.0	1105.57	µg/L	1105.57	µg/L
l 190.800	-43.3	0.708997	µg/L	0.708997	µg/L
292.402	-98.8	-0.0214659	µg/L	-0.0214659	µg/L
n 206.200	108.5	0.321685	µg/L	0.321685	µg/L
a 589.592	18451.9	187.684	µg/L	187.684	µg/L
o 202.030	12.5	1.13836	µg/L	1.13836	µg/L
182.527	-28.2	-0.302877	µg/L	-0.302877	µg/L

ean Data -----
D: LCS 76961 Seq. No.: 62 Sample No.: 26 A/S Pos: 48
sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 10/12/04 7:00:56 PM

000108

Sample Information Detail Report
Document Name: OCT12

File Description
IDL

Parameters Common To All Samples

Volume Units L
* Sample Units µg/L
Weight Units µg

10/12/04 10/12
ICP 3

Parameters That Vary With All Samples

	A/S Location	Sample ID	Aliquot Volume	Diluted To Vol.
001	24	241274-001D		
002	25	241274-002D		
003	26	241274-003D		
004	27	241274-004D		
005	28	241274-005D		
006	29	241274-006D		
007	30	241274-007D		
008	31	241274-008D		
009	32	241274-009D		
010	33	241274-010D		
011	34	241274-011D		
012	35	241274-012D		
013	36	241274-012D MD		
014	37	241274-012D MS		
015	38	241274-012D SD		
016	39	241274-013D		
017	40	241274-014D		
018				
019				
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050				
051				

Batch # 77400
~~77368~~ mwr
241274 D
AS, CV, CU

NO AS
↓

See Next Page

Labnet

Sample Information Detail Report
Document Name: OCT12A

File Description
IDL

2012

Parameters Common To All Samples

Volume Units L
* Sample Units µg/L
Weight Units µg

Parameters That Vary With All Samples

	A/S Location	Sample ID	Aliquot Volume	Diluted To Vol.
001	1	blk		
002	55	241274-012D	3	9
003	56	241274-012D MD	3	9
004	57	241274-012D MS	3	9
005	58	241274-012D SD	3	9
006	59	241274-012		
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051				

pg 1 of 1

Calibration Summary

Method: As,Cr,Cu

Date: 10/12/04 11:00:08 AM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Method: As,Cr,Cu IEC: 060404.IEC MSF:						
Results: 101204 Spectra Stored: Yes Method Stored: Yes						
Sample Info: oct12 User: User1 Date: 10/12/04 11:00:08 AM						
Method Description: As,Cr,Cu						

Mean Data

ID: IS Init

Seq. No.: 1
Data: OriginalA/S Pos: 1
Date: 10/12/04 11:01:43 AM

Element	Mean Corr. Intensity
Y 360.073	107760.7
Sc 361.383	500430.9

Mean Data

ID: CALBLK

Seq. No.: 2
Data: OriginalA/S Pos: 1
Date: 10/12/04 11:02:21 AM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	108788.3	1.010	µg/L
Sc 361.383	495793.1	0.991	µg/L
Al 308.215	22272.8	0	µg/L
As 188.979	-13.9	0	µg/L
Ba 233.527	-164.4	0	µg/L
Ca 430.253	354.4	0	µg/L
Cr 205.560	-16.8	0	µg/L
Co 228.616	21.9	0	µg/L
Cu 324.752	9874.4	0	µg/L
Fe 273.955	-41.4	0	µg/L
Mg 279.077	418.8	0	µg/L
Ca 227.546	63.8	0	µg/L

Mean Data

ID: CAL-1-A

Seq. No.: 3
Data: OriginalA/S Pos: 15
Date: 10/12/04 11:06:14 AM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	99569.6	0.924	µg/L
Sc 361.383	481726.8	0.963	µg/L
Al 308.215	711032.3	20000	µg/L
Ba 233.527	3228964.3	20000	µg/L
Ca 430.253	382436.2	50000	µg/L
Cr 205.560	45704.7	2000	µg/L
Co 228.616	175388.1	5000	µg/L
Cu 324.752	1199660.9	2500	µg/L
Fe 273.955	306451.4	10000	µg/L
Mg 279.077	1115303.6	50000	µg/L
Ca 227.546	7717.4	50000	µg/L

Mean Data

ID: K

Seq. No.: 4
Data: OriginalA/S Pos: 18
Date: 10/12/04 11:09:50 AM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	104915.2	0.974	µg/L
Sc 361.383	488874.9	0.977	µg/L
Ca 430.253	70857.1	10000	µg/L
Ca 227.546	1517.4	10000	µg/L

Mean Data

ID: As

Seq. No.: 5

A/S Pos: 21

000111

Data: Original

Date: 10/12/04 11:13:39 AM

Element	Mean Corr. Intensity	Calib Conc. Units
Y 360.073	106255.7	0.986 µg/L
Sc 361.383	490319.9	0.980 µg/L
As 188.979	1500.7	750 µg/L

Calibration Summary

Method: As,Cr,Cu

Date: 10/12/04 11:14:17 AM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Al 308.215	1	Linear	22272.8	34.4	0.00000	1.000000
As 188.979	1	Linear	-13.9	2.0	0.00000	1.000000
Ba 233.527	1	Linear	-164.4	161.5	0.00000	1.000000
Ca 430.253	2	Linear	-2461.6	7.7	0.00000	0.999874
Cr 205.560	1	Linear	-16.8	22.9	0.00000	1.000000
Co 228.616	1	Linear	21.9	35.1	0.00000	1.000000
Cu 324.752	1	Linear	9874.4	475.9	0.00000	1.000000
Fe 273.955	1	Linear	-41.4	30.6	0.00000	1.000000
Mg 279.077	1	Linear	418.8	22.3	0.00000	1.000000
Ca 227.546	2	Linear	27.1	0.2	0.00000	0.999946

Mean Data

ID: ICVM02ISBICV1

Sample Qty: 1.0000 g

Seq. No.: 6

Prep. Vol.: 1.0 L

Data: Original

Sample No.: 3

1.0 L

A/S Pos: 10

Dilution:

Date: 10/12/04 11:17:41 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107107.5	0.994	µg/L		
Sc 361.383	500959.1	1.001	µg/L		
Al 308.215	23068.7	23.0502	µg/L		
As 188.979	1009.3	506.631	µg/L		
Ba 233.527	1718.0	11.6589	µg/L		
Ca 430.253	482.2	383.092	µg/L		
Cr 205.560	13.8	1.33783	µg/L		
Co 228.616	100.6	2.24577	µg/L		
Cu 324.752	10544.4	1.40780	µg/L		
Fe 273.955	193.1	7.65333	µg/L		
Mg 279.077	814.5	17.7471	µg/L		
Ca 227.546	66.1	253.664	µg/L		

Mean Data

ID: ICVM03IRICV01

Sample Qty: 1.0000 g

Seq. No.: 7

Prep. Vol.: 1.0 L

Data: Original

Sample No.: 4

1.0 L

A/S Pos: 11

Dilution:

Date: 10/12/04 11:21:41 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	105236.4	0.977	µg/L		
Sc 361.383	498252.7	0.996	µg/L		
Al 308.215	184152.4	4698.66	µg/L		
As 188.979	-11.2	-0.233105	µg/L		
Ba 233.527	847558.3	5250.47	µg/L		
Ca 430.253	88533.4	11837.7	µg/L		
Cr 205.560	11415.0	500.062	µg/L		
Co 228.616	44240.8	1260.76	µg/L		
Cu 324.752	293917.0	596.835	µg/L		
Fe 273.955	75946.4	2479.27	µg/L		
Mg 279.077	277138.4	12410.2	µg/L		
Ca 227.546	1851.8	11742.9	µg/L		

Mean Data

ID: ICB

Sample Qty: 1.0000 g

Seq. No.: 8

Prep. Vol.: 1.0 L

Data: Original

Sample No.: 5

1.0 L

A/S Pos: 1

Dilution:

Date: 10/12/04 11:25:42 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108029.3	1.002	µg/L		

000112

Sc	361.383	491366.3	0.982	µg/L
Al	308.215	22637.7	10.5312	µg/L
As	188.979	-12.2	0.818374	µg/L
Ba	233.527	1992.0	13.3555	µg/L
Ca	430.253	573.2	394.956	µg/L
Cr	205.560	15.1	1.39466	µg/L
Co	228.616	141.0	3.39683	µg/L
Cu	324.752	10666.1	1.66344	µg/L
Fe	273.955	203.4	7.98968	µg/L
Mg	279.077	1167.5	33.5787	µg/L
Ca	227.546	69.6	276.384	µg/L

Mean Data

ID: CRIM03ICRI001

Seq. No.: 9

Sample No.: 6

A/S Pos: 12

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 10/12/04 11:29:41 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107324.1	0.996	µg/L		
Sc 361.383	495249.5	0.990	µg/L		
Al 308.215	22482.7	6.03473	µg/L		
As 188.979	25.3	19.4934	µg/L		
Ba 233.527	1111.5	7.90216	µg/L		
Ca 430.253	326.0	362.787	µg/L		
Cr 205.560	493.8	22.3352	µg/L		
Co 228.616	3836.0	108.749	µg/L		
Cu 324.752	34735.3	52.2381	µg/L		
Fe 273.955	838.9	28.7234	µg/L		
Mg 279.077	595.5	7.92638	µg/L		
Ca 227.546	65.7	236.896	µg/L		

Mean Data

ID: ISAM03ISA002

Seq. No.: 10

Sample No.: 7

A/S Pos: 5

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 10/12/04 11:34:07 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	89794.6	0.833	µg/L		
Sc 361.383	438416.6	0.876	µg/L		
Al 308.215	17641726.7	511537	µg/L		
As 188.979	-47.7	-8.16875	µg/L		
Ba 233.527	1421.0	9.81899	µg/L		
Ca 430.253	4264536.0	554813	µg/L		
Cr 205.560	40.2	2.49358	µg/L		
Co 228.616	139.6	3.35739	µg/L		
Cu 324.752	8651.7	-2.56909	µg/L		
Fe 273.955	5748114.2	187546	µg/L		
Mg 279.077	11178286.5	501301	µg/L		
Ca 227.546	83600.0	546844	µg/L		

Mean Data

ID: ISBM03ISR002

Seq. No.: 11

Sample No.: 9

A/S Pos: 7

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 10/12/04 11:38:58 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	90262.7	0.838	µg/L		
Sc 361.383	431177.6	0.862	µg/L		
Al 308.215	17957417.2	520702	µg/L		
As 188.979	163.8	96.8168	µg/L		
Ba 233.527	87873.6	545.274	µg/L		
Ca 430.253	4334260.4	563879	µg/L		
Cr 205.560	11598.0	508.066	µg/L		
Co 228.616	17116.0	487.383	µg/L		
Cu 324.752	271475.7	549.681	µg/L		
Fe 273.955	5855082.0	191036	µg/L		
Mg 279.077	11350574.3	509028	µg/L		
Ca 227.546	84805.9	554680	µg/L		

Mean Data

000113

ID: CCVM03IRCCV02

Seq. No.: 12

Sample No.: 12

A/S Pos: 2

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 10/12/04 11:43:32 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	102685.0	0.953	µg/L		
Sc 361.383	482110.0	0.963	µg/L		
Al 308.215	411277.0	11291.5	µg/L		
*QC exceeds upper limit for Al 308.215 Recovery = 112.92% Action = Continue					
As 188.979	-17.0	-4.56741	µg/L		
Ba 233.527	1687405.2	10452.2	µg/L		
Ca 430.253	195204.3	25713.6	µg/L		
Cr 205.560	23247.1	1017.63	µg/L		
Co 228.616	88171.6	2513.30	µg/L		
Cu 324.752	593478.4	1226.28	µg/L		
Fe 273.955	172800.1	5639.34	µg/L		
*QC exceeds upper limit for Fe 273.955 Recovery = 112.79% Action = Continue					
Mg 279.077	591971.5	26529.8	µg/L		
Ca 227.546	3985.6	25509.2	µg/L		

Mean Data

ID: CCVM02ISBCCV1

Seq. No.: 13

Sample No.: 13

A/S Pos: 3

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 10/12/04 11:47:41 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	105766.1	0.981	µg/L		
Sc 361.383	491316.3	0.982	µg/L		
Al 308.215	48768.0	769.179	µg/L		
As 188.979	1999.1	996.786	µg/L		
Ba 233.527	3403.8	22.1000	µg/L		
Ca 430.253	5949.6	1093.90	µg/L		
Cr 205.560	47.0	2.79011	µg/L		
Co 228.616	200.0	5.07918	µg/L		
Cu 324.752	11458.4	3.32836	µg/L		
Fe 273.955	10787.9	353.331	µg/L		
Mg 279.077	20244.8	889.153	µg/L		
Ca 227.546	182.7	1017.54	µg/L		

Mean Data

ID: CCB

Seq. No.: 14

Sample No.: 14

A/S Pos: 1

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 10/12/04 11:51:41 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	106898.8	0.992	µg/L		
Sc 361.383	487357.9	0.974	µg/L		
Al 308.215	38190.8	462.090	µg/L		
As 188.979	-9.2	2.32794	µg/L		
Ba 233.527	1583.0	10.8227	µg/L		
Ca 430.253	3798.2	814.214	µg/L		
Cr 205.560	16.3	1.44801	µg/L		
Co 228.616	122.7	2.87594	µg/L		
Cu 324.752	10698.0	1.73057	µg/L		
Fe 273.955	6066.6	199.288	µg/L		
Mg 279.077	12456.4	539.858	µg/L		
Ca 227.546	138.8	730.121	µg/L		

Mean Data

ID: 241274-001D

Seq. No.: 15

Sample No.: 1

A/S Pos: 24

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 10/12/04 11:55:40 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	105706.3	0.981	µg/L		
Sc 361.383	471694.7	0.943	µg/L		
Al 308.215	33488.7	315.729	µg/L	315.729	µg/L
As 188.979	-15.0	0.588641	µg/L	0.588641	µg/L
Ba 233.527	3131.7	20.4148	µg/L	20.4148	µg/L

000114

Ca 430.253	461147.4	60335.0	µg/L	60335.0	µg/L
Cr 205.560	35.8	2.29744	µg/L	2.29744	µg/L
Co 228.616	184.6	4.63902	µg/L	4.63902	µg/L
Cu 324.752	11082.5	2.53843	µg/L	2.53843	µg/L
Fe 273.955	3431.4	113.309	µg/L	113.309	µg/L
Mg 279.077	145382.6	6501.29	µg/L	6501.29	µg/L
Ca 227.546	9474.0	61495.9	µg/L	61495.9	µg/L

Mean Data

ID: 241274-002D

Sample Qty: 1.0000 L

Seq. No.: 16

Sample No.: 2

A/S Pos: 25

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Original

Date: 10/12/04

11:59:49 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	105134.7	0.976	µg/L		
Sc 361.383	478775.4	0.957	µg/L		
Al 308.215	29600.7	196.722	µg/L	196.722	µg/L
As 188.979	-14.9	1.31984	µg/L	1.31984	µg/L
Ba 233.527	3869.7	24.9852	µg/L	24.9852	µg/L
Ca 430.253	745538.8	97346.6	µg/L	97346.6	µg/L
Cr 205.560	19.8	1.60018	µg/L	1.60018	µg/L
Co 228.616	158.2	3.88663	µg/L	3.88663	µg/L
Cu 324.752	10496.2	1.30648	µg/L	1.30648	µg/L
Fe 273.955	2134.6	70.9973	µg/L	70.9973	µg/L
Mg 279.077	376025.5	16845.1	µg/L	16845.1	µg/L
Ca 227.546	15327.3	99597.1	µg/L	99597.1	µg/L

Mean Data

ID: 241274-003D

Sample Qty: 1.0000 L

Seq. No.: 17

Sample No.: 3

A/S Pos: 26

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Original

Date: 10/12/04

12:04:02 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	106187.9	0.985	µg/L		
Sc 361.383	478633.6	0.956	µg/L		
Al 308.215	27385.6	135.842	µg/L	135.842	µg/L
As 188.979	-17.6	-0.373821	µg/L	-0.373821	µg/L
Ba 233.527	1174.9	8.29464	µg/L	8.29464	µg/L
Ca 430.253	585371.5	76502.0	µg/L	76502.0	µg/L
Cr 205.560	18.0	1.51854	µg/L	1.51854	µg/L
Co 228.616	131.8	3.13537	µg/L	3.13537	µg/L
Cu 324.752	10492.3	1.29844	µg/L	1.29844	µg/L
Fe 273.955	1359.8	45.7172	µg/L	45.7172	µg/L
Mg 279.077	141811.4	6341.13	µg/L	6341.13	µg/L
Ca 227.546	12052.6	78280.0	µg/L	78280.0	µg/L

Mean Data

ID: 241274-004D

Sample Qty: 1.0000 L

Seq. No.: 18

Sample No.: 4

A/S Pos: 27

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Original

Date: 10/12/04

12:08:17 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	99107.4	0.920	µg/L		
Sc 361.383	449134.3	0.897	µg/L		
Al 308.215	27627.3	144.909	µg/L	144.909	µg/L
As 188.979	-18.8	-1.21658	µg/L	-1.21658	µg/L
Ba 233.527	4437.3	28.5007	µg/L	28.5007	µg/L
Ca 430.253	489857.5	64071.6	µg/L	64071.6	µg/L
Cr 205.560	68.9	3.74505	µg/L	3.74505	µg/L
Co 228.616	115.2	2.66017	µg/L	2.66017	µg/L
Cu 324.752	11004.8	2.37522	µg/L	2.37522	µg/L
Fe 273.955	908.6	30.9983	µg/L	30.9983	µg/L
Mg 279.077	209374.6	9371.18	µg/L	9371.18	µg/L
Ca 227.546	9955.2	64627.1	µg/L	64627.1	µg/L

Mean Data

ID: 241274-005D

Sample Qty: 1.0000 L

Seq. No.: 19

Sample No.: 5

A/S Pos: 28

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Original

Date: 10/12/04

12:12:24 PM

000115

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	104422.2	0.969	µg/L		
Sc 361.383	461248.0	0.922	µg/L		
Al 308.215	25931.7	98.3521	µg/L	98.3521	µg/L
As 188.979	-13.4	1.16825	µg/L	1.16825	µg/L
Ba 233.527	1116.3	7.93172	µg/L	7.93172	µg/L
Ca 430.253	365134.0	47839.8	µg/L	47839.8	µg/L
Cr 205.560	6.1	0.998786	µg/L	0.998786	µg/L
Co 228.616	139.9	3.36542	µg/L	3.36542	µg/L
Cu 324.752	10640.7	1.61025	µg/L	1.61025	µg/L
Fe 273.955	661.1	22.9227	µg/L	22.9227	µg/L
Mg 279.077	113783.0	5084.12	µg/L	5084.12	µg/L
Ca 227.546	7653.7	49645.3	µg/L	49645.3	µg/L

Mean Data -----
 ID: 241274-006D Seq. No.: 20 Sample No.: 6 A/S Pos: 29
 Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Original Date: 10/12/04 12:16:28 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	106512.6	0.988	µg/L		
Sc 361.383	472382.4	0.944	µg/L		
Al 308.215	25321.9	79.5623	µg/L	79.5623	µg/L
As 188.979	-19.8	-1.90702	µg/L	-1.90702	µg/L
Ba 233.527	1625.2	11.0839	µg/L	11.0839	µg/L
Ca 430.253	415597.3	54407.2	µg/L	54407.2	µg/L
Cr 205.560	2353.2	103.671	µg/L	103.671	µg/L
Co 228.616	111.2	2.54720	µg/L	2.54720	µg/L
Cu 324.752	10600.1	1.52489	µg/L	1.52489	µg/L
Fe 273.955	477.2	16.9215	µg/L	16.9215	µg/L
Mg 279.077	161232.3	7212.11	µg/L	7212.11	µg/L
Ca 227.546	8642.9	56084.2	µg/L	56084.2	µg/L

Mean Data -----
 ID: 241274-007D Seq. No.: 21 Sample No.: 7 A/S Pos: 30
 Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Original Date: 10/12/04 12:20:31 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	106385.0	0.987	µg/L		
Sc 361.383	468690.8	0.937	µg/L		
Al 308.215	24832.8	68.2179	µg/L	68.2179	µg/L
As 188.979	-15.2	0.0764062	µg/L	0.0764062	µg/L
Ba 233.527	708.0	5.40278	µg/L	5.40278	µg/L
Ca 430.253	282549.4	37092.0	µg/L	37092.0	µg/L
Cr 205.560	53.8	3.08770	µg/L	3.08770	µg/L
Co 228.616	88.8	1.90821	µg/L	1.90821	µg/L
Cu 324.752	10392.3	1.08828	µg/L	1.08828	µg/L
Fe 273.955	323.3	11.9004	µg/L	11.9004	µg/L
Mg 279.077	90416.6	4036.20	µg/L	4036.20	µg/L
Ca 227.546	5964.4	38649.1	µg/L	38649.1	µg/L

Mean Data -----
 ID: 241274-008D Seq. No.: 22 Sample No.: 8 A/S Pos: 31
 Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Original Date: 10/12/04 12:24:34 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	103869.8	0.964	µg/L		
Sc 361.383	460961.6	0.921	µg/L		
Al 308.215	24939.9	68.2769	µg/L	68.2769	µg/L
As 188.979	-17.0	-0.470793	µg/L	-0.470793	µg/L
Ba 233.527	1484.5	10.2127	µg/L	10.2127	µg/L
Ca 430.253	424520.5	55568.5	µg/L	55568.5	µg/L
Cr 205.560	2422.6	106.704	µg/L	106.704	µg/L
Co 228.616	92.4	2.01017	µg/L	2.01017	µg/L
Cu 324.752	10649.8	1.62925	µg/L	1.62925	µg/L
Fe 273.955	231.8	8.91399	µg/L	8.91399	µg/L
Mg 279.077	163763.3	7325.63	µg/L	7325.63	µg/L

000116

Ca 227.546 8802.9 57126.0 µg/L 57126.0 µg/L

Mean Data

ID: 241274-009D

Sample Qty: 1.0000 L

Seq. No.: 23

Sample No.: 9

A/S Pos: 32

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Original

Date: 10/12/04

12:28:37 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107794.2	1.000	µg/L		
Sc 361.383	494280.3	0.988	µg/L		
Al 308.215	126901.9	3031.91	µg/L	3031.91	µg/L
As 188.979	3869.8	1923.85	µg/L	1923.85	µg/L
Ba 233.527	248.4	2.55644	µg/L	2.55644	µg/L
Ca 430.253	290190.9	38083.6	µg/L	38083.6	µg/L
Cr 205.560	20774.4	909.472	µg/L	909.472	µg/L
Co 228.616	94.7	2.07702	µg/L	2.07702	µg/L
Cu 324.752	10534.9	1.38780	µg/L	1.38780	µg/L
Fe 273.955	121.9	5.32849	µg/L	5.32849	µg/L
Mg 279.077	145691.0	6515.12	µg/L	6515.12	µg/L
Ca 227.546	6052.7	39223.8	µg/L	39223.8	µg/L

Mean Data

ID: 241274-010D

Sample Qty: 1.0000 L

Seq. No.: 24

Sample No.: 10

A/S Pos: 33

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Original

Date: 10/12/04

12:32:47 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	116952.2	1.085	µg/L		
Sc 361.383	467932.5	0.935	µg/L		
Al 308.215	24484.1	50.3214	µg/L	50.3214	µg/L
As 188.979	6.9	11.9026	µg/L	11.9026	µg/L
Ba 233.527	3424.5	22.2283	µg/L	22.2283	µg/L
Ca 430.253	644388.2	84182.7	µg/L	84182.7	µg/L
Cr 205.560	582.4	26.2087	µg/L	26.2087	µg/L
Co 228.616	129.9	3.08119	µg/L	3.08119	µg/L
Cu 324.752	10448.2	1.20564	µg/L	1.20564	µg/L
Fe 273.955	24.5	2.15197	µg/L	2.15197	µg/L
Mg 279.077	207397.6	9282.52	µg/L	9282.52	µg/L
Ca 227.546	13300.6	86403.6	µg/L	86403.6	µg/L

Mean Data

ID: GCVM03IRCCV02

Sample Qty: 1.0000 g

Seq. No.: 25

Sample No.: 12

A/S Pos: 2

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Original

Date: 10/12/04

12:37:03 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	101549.5	0.942	µg/L		
Sc 361.383	483622.4	0.966	µg/L		
Al 308.215	352041.1	9571.84	µg/L		
As 188.979	-10.0	-1.10530	µg/L		
Ba 233.527	1655542.9	10254.8	µg/L		
Ca 430.253	178045.7	23482.3	µg/L		
Cr 205.560	22797.7	997.978	µg/L		
Co 228.616	85896.3	2448.43	µg/L		
Cu 324.752	569577.9	1176.06	µg/L		
Fe 273.955	150730.4	4919.26	µg/L		
Mg 279.077	555573.1	24897.4	µg/L		
Ca 227.546	3686.1	23557.3	µg/L		

Mean Data

ID: GCVM02ISBCCV1

Sample Qty: 1.0000 g

Seq. No.: 26

Sample No.: 13

A/S Pos: 3

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Original

Date: 10/12/04

12:41:11 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	106081.4	0.984	µg/L		
Sc 361.383	498533.2	0.996	µg/L		
Al 308.215	23750.4	42.8230	µg/L		
As 188.979	1960.4	977.628	µg/L		

000117

Ba 233.527	3457.9	22.4350	µg/L
Ca 430.253	1433.2	506.840	µg/L
Cr 205.560	57.6	3.25364	µg/L
Co 228.616	189.4	4.77746	µg/L
Cu 324.752	11033.2	2.43488	µg/L
Fe 273.955	640.5	22.2490	µg/L
Mg 279.077	1950.8	68.7095	µg/L
Ca 227.546	87.4	392.170	µg/L

Mean Data

ID: CCB	Seq. No.: 27	Sample No.: 14	A/S Pos: 1
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	12:45:11 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107791.9	1.000	µg/L		
Sc 361.383	488134.8	0.975	µg/L		
Al 308.215	23132.8	24.8971	µg/L		
As 188.979	-4.5	4.63160	µg/L		
Ba 233.527	1289.0	9.00130	µg/L		
Ca 430.253	1047.5	456.664	µg/L		
Cr 205.560	18.3	1.53355	µg/L		
Co 228.616	99.9	2.22393	µg/L		
Cu 324.752	10413.4	1.13253	µg/L		
Fe 273.955	200.7	7.90191	µg/L		
Mg 279.077	1148.8	32.7380	µg/L		
Ca 227.546	73.7	303.198	µg/L		

Mean Data

ID: 241274-011D	Seq. No.: 28	Sample No.: 11	A/S Pos: 34
Sample Qty: 1.0000 L	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	12:49:12 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108066.4	1.003	µg/L		
Sc 361.383	470497.2	0.940	µg/L		
Al 308.215	24087.7	52.5239	µg/L	52.5239	µg/L
As 188.979	-5.4	4.23017	µg/L	4.23017	µg/L
Ba 233.527	731.5	5.54892	µg/L	5.54892	µg/L
Ca 430.253	5776.4	1072.06	µg/L	1072.06	µg/L
Cr 205.560	13.9	1.34133	µg/L	1.34133	µg/L
Co 228.616	76.4	1.55613	µg/L	1.55613	µg/L
Cu 324.752	10743.9	1.82697	µg/L	1.82697	µg/L
Fe 273.955	377.1	13.6562	µg/L	13.6562	µg/L
Mg 279.077	2124.5	76.4982	µg/L	76.4982	µg/L
Ca 227.546	184.1	1022.02	µg/L	1022.02	µg/L

Mean Data

ID: 241274-012D	Seq. No.: 29	Sample No.: 12	A/S Pos: 35
Sample Qty: 1.0000 L	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	12:53:17 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	104987.0	0.974	µg/L		
Sc 361.383	476744.8	0.953	µg/L		
Al 308.215	38695.1	463.718	µg/L	463.718	µg/L
As 188.979	45877.6	22725.9	µg/L	22725.9	µg/L
Ba 233.527	623.7	4.88099	µg/L	4.88099	µg/L
Ca 430.253	609845.5	79686.8	µg/L	79686.8	µg/L
Cr 205.560	3749.6	164.752	µg/L	164.752	µg/L
Co 228.616	172.5	4.29478	µg/L	4.29478	µg/L
Cu 324.752	25584.2	33.0098	µg/L	33.0098	µg/L
Fe 273.955	-151.4	-3.58603	µg/L	-3.58603	µg/L
Mg 279.077	264908.9	11861.8	µg/L	11861.8	µg/L
Ca 227.546	12669.8	82297.0	µg/L	82297.0	µg/L

Mean Data

ID: 241274-012D MD	Seq. No.: 30	Sample No.: 13	A/S Pos: 36
Sample Qty: 1.0000 L	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	12:57:26 PM

000118

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107909.6	1.001	µg/L		
Sc 361.383	492744.5	0.985	µg/L		
Al 308.215	37982.4	443.274	µg/L	443.274	µg/L
As 188.979	45106.1	22343.8	µg/L	22343.8	µg/L
Ba 233.527	455.0	3.83624	µg/L	3.83624	µg/L
Ca 430.253	598124.6	78161.4	µg/L	78161.4	µg/L
Cr 205.560	3665.1	161.055	µg/L	161.055	µg/L
Co 228.616	159.2	3.91488	µg/L	3.91488	µg/L
Cu 324.752	25031.8	31.8490	µg/L	31.8490	µg/L
Fe 273.955	-189.4	-4.82669	µg/L	-4.82669	µg/L
Mg 279.077	259309.1	11610.6	µg/L	11610.6	µg/L
Ca 227.546	12427.0	80716.6	µg/L	80716.6	µg/L

Mean Data

ID: 241274-012D MS Seq. No.: 31 Sample No.: 14 A/S Pos: 37
Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 10/12/04 1:01:19 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	104893.4	0.973	µg/L		
Sc 361.383	476637.5	0.952	µg/L		
Al 308.215	111548.3	2579.12	µg/L	2579.12	µg/L
As 188.979	46397.8	22982.7	µg/L	22982.7	µg/L
Ba 233.527	367471.9	2277.00	µg/L	2277.00	µg/L
Ca 430.253	614127.0	80241.9	µg/L	80241.9	µg/L
Cr 205.560	8868.6	388.673	µg/L	388.673	µg/L
Co 228.616	19164.3	545.785	µg/L	545.785	µg/L
Cu 324.752	151532.8	297.655	µg/L	297.655	µg/L
Fe 273.955	32692.4	1068.01	µg/L	1068.01	µg/L
Mg 279.077	267324.6	11970.1	µg/L	11970.1	µg/L
Ca 227.546	12921.7	83878.8	µg/L	83878.8	µg/L

Mean Data

ID: 241274-012D SD Seq. No.: 32 Sample No.: 15 A/S Pos: 38
Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 10/12/04 1:05:10 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	105898.6	0.983	µg/L		
Sc 361.383	491177.6	0.982	µg/L		
Al 308.215	25696.9	97.0876	µg/L	97.0876	µg/L
As 188.979	8423.6	4178.31	µg/L	4178.31	µg/L
Ba 233.527	506.9	4.15778	µg/L	4.15778	µg/L
Ca 430.253	106622.3	14196.4	µg/L	14196.4	µg/L
Cr 205.560	717.5	32.1172	µg/L	32.1172	µg/L
Co 228.616	89.5	1.92788	µg/L	1.92788	µg/L
Cu 324.752	12955.7	6.47450	µg/L	6.47450	µg/L
Fe 273.955	312.4	11.5462	µg/L	11.5462	µg/L
Mg 279.077	50514.7	2246.69	µg/L	2246.69	µg/L
Ca 227.546	2325.2	14959.8	µg/L	14959.8	µg/L

Mean Data

ID: 241274-013D Seq. No.: 33 Sample No.: 16 A/S Pos: 39
Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 10/12/04 1:09:16 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107472.0	0.997	µg/L		
Sc 361.383	477771.6	0.955	µg/L		
Al 308.215	25411.4	80.8519	µg/L	80.8519	µg/L
As 188.979	1846.6	922.438	µg/L	922.438	µg/L
Ba 233.527	1925.3	12.9427	µg/L	12.9427	µg/L
Ca 430.253	476596.6	62345.8	µg/L	62345.8	µg/L
Cr 205.560	11089.9	485.841	µg/L	485.841	µg/L
Co 228.616	111.5	2.55675	µg/L	2.55675	µg/L
Cu 324.752	11248.4	2.88701	µg/L	2.88701	µg/L
Fe 273.955	40.7	2.67882	µg/L	2.67882	µg/L

000119

Mg 279.077	216508.2	9691.11	µg/L	9691.11	µg/L
Ca 227.546	9877.8	64122.9	µg/L	64122.9	µg/L

Mean Data

ID: 241274-014D

Sample Qty: 1.0000 L

Seq. No.: 34

Sample No.: 17

A/S Pos: 40

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 10/12/04 1:13:25 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	104297.7	0.968	µg/L		
Sc 361.383	471510.8	0.942	µg/L		
Al 308.215	24055.6	41.2638	µg/L	41.2638	µg/L
As 188.979	176.7	95.5855	µg/L	95.5855	µg/L
Ba 233.527	2099.8	14.0236	µg/L	14.0236	µg/L
Ca 430.253	486765.1	63669.2	µg/L	63669.2	µg/L
Cr 205.560	109.4	5.51646	µg/L	5.51646	µg/L
Co 228.616	133.9	3.19531	µg/L	3.19531	µg/L
Cu 324.752	11553.3	3.52783	µg/L	3.52783	µg/L
Fe 273.955	-151.9	-3.60534	µg/L	-3.60534	µg/L
Mg 279.077	161307.5	7215.49	µg/L	7215.49	µg/L
Ca 227.546	10132.9	65783.5	µg/L	65783.5	µg/L

Mean Data

ID: CRIM03ICRI001

Sample Qty: 1.0000 g

Seq. No.: 35

Sample No.: 6

A/S Pos: 12

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 10/12/04 1:17:30 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108686.1	1.009	µg/L		
Sc 361.383	510602.2	1.020	µg/L		
Al 308.215	22042.9	-6.75894	µg/L		
As 188.979	56.8	35.0942	µg/L		
Ba 233.527	-51.0	0.702010	µg/L		
Ca 430.253	1464.4	510.948	µg/L		
Cr 205.560	472.8	21.4161	µg/L		
Co 228.616	3582.2	101.510	µg/L		
Cu 324.752	32826.4	48.2271	µg/L		
Fe 273.955	789.1	27.0976	µg/L		
Mg 279.077	753.6	15.0166	µg/L		
Ca 227.546	83.6	354.328	µg/L		

Mean Data

ID: ISAM03ISA002

Sample Qty: 1.0000 g

Seq. No.: 36

Sample No.: 7

A/S Pos: 5

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 10/12/04 1:21:46 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	90943.6	0.844	µg/L		
Sc 361.383	452585.5	0.904	µg/L		
Al 308.215	17079352.1	495215	µg/L		
As 188.979	-23.7	2.88842	µg/L		
Ba 233.527	857.0	6.32607	µg/L		
Ca 430.253	3903030.3	507782	µg/L		
Cr 205.560	21.7	1.68223	µg/L		
Co 228.616	117.2	2.71828	µg/L		
Cu 324.752	8005.4	-3.92710	µg/L		
Fe 273.955	5537922.5	180688	µg/L		
Mg 279.077	10622334.4	476368	µg/L		
Ca 227.546	80172.5	524429	µg/L		

Mean Data

ID: ISBM03ISR002

Sample Qty: 1.0000 g

Seq. No.: 37

Sample No.: 9

A/S Pos: 7

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 10/12/04 1:26:15 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	90873.6	0.843	µg/L		
Sc 361.383	439992.3	0.879	µg/L		
Al 308.215	17795703.8	516012	µg/L		

000120

As 188.979	168.5	98.5478	µg/L
Ba 233.527	87025.0	540.018	µg/L
Ca 430.253	4079207.4	530690	µg/L
Cr 205.560	11357.4	497.543	µg/L
Co 228.616	16492.7	469.613	µg/L
Cu 324.752	264308.7	534.622	µg/L
Fe 273.955	5768684.8	188217	µg/L
Mg 279.077	11054372.4	495744	µg/L
Ca 227.546	82993.7	542843	µg/L

Mean Data -----

ID: CCVM03IRCCV02	Seq. No.: 38	Sample No.: 12	A/S Pos: 2
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	1:30:39 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	104587.6	0.971	µg/L		
Sc 361.383	491181.7	0.982	µg/L		
Al 308.215	399264.5	10942.9	µg/L		
As 188.979	-7.9	-0.185265	µg/L		
Ba 233.527	1693685.8	10491.1	µg/L		
Ca 430.253	185904.4	24503.6	µg/L		
Cr 205.560	23050.0	1009.01	µg/L		
Co 228.616	85990.3	2451.11	µg/L		
Cu 324.752	586597.7	1211.82	µg/L		
Fe 273.955	168174.1	5488.40	µg/L		
Mg 279.077	577596.4	25885.1	µg/L		
Ca 227.546	3926.0	25127.5	µg/L		

Mean Data -----

ID: CCVM02ISBCCV1	Seq. No.: 39	Sample No.: 13	A/S Pos: 3
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	1:34:47 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108850.6	1.010	µg/L		
Sc 361.383	508546.4	1.016	µg/L		
Al 308.215	43370.0	612.456	µg/L		
As 188.979	1900.8	948.097	µg/L		
Ba 233.527	2965.6	19.3860	µg/L		
Ca 430.253	4934.1	961.891	µg/L		
Cr 205.560	45.3	2.71421	µg/L		
Co 228.616	170.1	4.22641	µg/L		
Cu 324.752	10642.8	1.61454	µg/L		
Fe 273.955	8812.0	288.865	µg/L		
Mg 279.077	16520.9	722.141	µg/L		
Ca 227.546	159.7	867.293	µg/L		

Mean Data -----

ID: CCB	Seq. No.: 40	Sample No.: 14	A/S Pos: 1
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	1:38:47 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107009.6	0.993	µg/L		
Sc 361.383	484079.0	0.967	µg/L		
Al 308.215	35460.8	382.831	µg/L		
As 188.979	-3.8	5.01241	µg/L		
Ba 233.527	1381.5	9.57478	µg/L		
Ca 430.253	3140.3	728.670	µg/L		
Cr 205.560	12.7	1.28956	µg/L		
Co 228.616	113.6	2.61466	µg/L		
Cu 324.752	10301.4	0.897191	µg/L		
Fe 273.955	5056.1	166.318	µg/L		
Mg 279.077	10081.3	433.339	µg/L		
Ca 227.546	129.0	665.307	µg/L		

000121

Calibration Summary

Method: As,Cr,Cu

Date: 10/12/04

2:09:48 PM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Al 308.215	1	Linear	22272.8	34.4	0.00000	1.000000
As 188.979	1	Linear	-13.9	2.0	0.00000	1.000000
Ba 233.527	1	Linear	-164.4	161.5	0.00000	1.000000
Ca 430.253	2	Linear	-2461.6	7.7	0.00000	0.999874
Cr 205.560	1	Linear	-16.8	22.9	0.00000	1.000000
Co 228.616	1	Linear	21.9	35.1	0.00000	1.000000
Cu 324.752	1	Linear	9874.4	475.9	0.00000	1.000000
Fe 273.955	1	Linear	-41.4	30.6	0.00000	1.000000
Mg 279.077	1	Linear	418.8	22.3	0.00000	1.000000
Ca 227.546	2	Linear	27.1	0.2	0.00000	0.999946

Method: As,Cr,Cu

IEC: 060404.IEC

MSF:

Results: 101204

Spectra Stored: Yes

Method Stored: Yes

Sample Info: oct12a

User: User1

Date: 10/12/04

2:09:48 PM

Method Description: As,Cr,Cu

Mean Data

ID: IS Init

Seq. No.: 1

A/S Pos: 1

Data: Original

Date: 10/12/04

2:11:24 PM

Element	Mean Corr. Intensity
Y 360.073	110221.8
Sc 361.383	507237.6

Mean Data

ID: blk

Seq. No.: 2

Sample No.: 1

A/S Pos: 1

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Original

Date: 10/12/04

2:12:01 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	110211.8	1.000	µg/L		
Sc 361.383	499006.4	0.984	µg/L		
Al 308.215	24048.1	51.4867	µg/L	51.4867	µg/L
As 188.979	-12.9	0.475740	µg/L	0.475740	µg/L
Ba 233.527	-112.8	0.319228	µg/L	0.319228	µg/L
Ca 430.253	507.8	386.393	µg/L	386.393	µg/L
Cr 205.560	-11.4	0.235927	µg/L	0.235927	µg/L
Co 228.616	35.0	0.375087	µg/L	0.375087	µg/L
Cu 324.752	9732.7	-0.297676	µg/L	-0.297676	µg/L
Fe 273.955	347.3	12.6821	µg/L	12.6821	µg/L
Mg 279.077	1043.4	28.0135	µg/L	28.0135	µg/L
Ca 227.546	74.0	305.436	µg/L	305.436	µg/L

Mean Data

ID: 241274-012D

Seq. No.: 3

Sample No.: 2

A/S Pos: 55

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution:

3.0:

9.0

Data: Original

Date: 10/12/04

2:16:00 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107494.9	0.975	µg/L		
Sc 361.383	495453.1	0.977	µg/L		
Al 308.215	28627.6	180.701	µg/L	542.104	µg/L
As 188.979	14215.5	7046.50	µg/L	21139.5	µg/L
Ba 233.527	-42.4	0.755677	µg/L	2.26703	µg/L
Ca 430.253	175860.3	23207.1	µg/L	69621.3	µg/L
Cr 205.560	1185.7	52.6000	µg/L	157.800	µg/L
Co 228.616	81.6	1.70311	µg/L	5.10932	µg/L
Cu 324.752	14651.9	10.0386	µg/L	30.1157	µg/L
Fe 273.955	115.2	5.10951	µg/L	15.3285	µg/L
Mg 279.077	84048.3	3750.59	µg/L	11251.8	µg/L
Ca 227.546	3895.5	25181.2	µg/L	75543.7	µg/L

000122

Mean Data -----
ID: 241274-012D MD Seq. No.: 4 Sample No.: 3 A/S Pos: 56
Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 3.0: 9.0
Date: 10/12/04 2:19:58 PM
Data: Original

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107114.4	0.972	µg/L		
Sc 361.383	493656.5	0.973	µg/L		
Al 308.215	28232.9	169.303	µg/L	507.910	µg/L
As 188.979	13963.9	6921.90	µg/L	20765.7	µg/L
Ba 233.527	-65.3	0.613793	µg/L	1.84138	µg/L
Ca 430.253	172927.0	22825.4	µg/L	68476.1	µg/L
Cr 205.560	1171.9	51.9961	µg/L	155.988	µg/L
Co 228.616	72.6	1.44624	µg/L	4.33871	µg/L
Cu 324.752	14494.9	9.70874	µg/L	29.1262	µg/L
Fe 273.955	45.0	2.81911	µg/L	8.45733	µg/L
Mg 279.077	82283.3	3671.43	µg/L	11014.3	µg/L
Ca 227.546	3823.6	24713.4	µg/L	74140.2	µg/L

Mean Data -----
ID: 241274-012D MS Seq. No.: 5 Sample No.: 4 A/S Pos: 57
Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 3.0: 9.0
Date: 10/12/04 2:23:57 PM
Data: Original

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107717.4	0.977	µg/L		
Sc 361.383	496696.6	0.979	µg/L		
Al 308.215	49804.6	795.592	µg/L	2386.78	µg/L
As 188.979	14235.8	7056.31	µg/L	21168.9	µg/L
Ba 233.527	116603.0	723.213	µg/L	2169.64	µg/L
Ca 430.253	177729.9	23449.8	µg/L	70349.5	µg/L
Cr 205.560	2789.8	122.766	µg/L	368.297	µg/L
Co 228.616	6016.4	170.914	µg/L	512.742	µg/L
Cu 324.752	53185.3	91.0056	µg/L	273.017	µg/L
Fe 273.955	10586.6	346.762	µg/L	1040.29	µg/L
Mg 279.077	84355.3	3764.36	µg/L	11293.1	µg/L
Ca 227.546	3898.3	25181.7	µg/L	75545.1	µg/L

Mean Data -----
ID: 241274-012D SD Seq. No.: 6 Sample No.: 5 A/S Pos: 58
Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 3.0: 9.0
Date: 10/12/04 2:27:56 PM
Data: Original

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	109580.4	0.994	µg/L		
Sc 361.383	509892.9	1.005	µg/L		
Al 308.215	23810.7	43.9144	µg/L	131.743	µg/L
As 188.979	2636.8	1312.61	µg/L	3937.83	µg/L
Ba 233.527	78.5	1.50420	µg/L	4.51261	µg/L
Ca 430.253	32167.3	4506.66	µg/L	13520.0	µg/L
Cr 205.560	216.6	10.2069	µg/L	30.6207	µg/L
Co 228.616	45.7	0.681238	µg/L	2.04371	µg/L
Cu 324.752	10483.3	1.27945	µg/L	3.83834	µg/L
Fe 273.955	56.6	3.19922	µg/L	9.59766	µg/L
Mg 279.077	16116.8	704.021	µg/L	2112.06	µg/L
Ca 227.546	769.4	4832.08	µg/L	14496.2	µg/L

Mean Data -----
ID: CRIM03ICRI001 Seq. No.: 7 Sample No.: 6 A/S Pos: 12
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Date: 10/12/04 2:31:55 PM
Data: Original

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107388.9	0.974	µg/L		
Sc 361.383	493805.5	0.974	µg/L		
Al 308.215	23595.9	38.3574	µg/L		
As 188.979	58.9	36.1196	µg/L		
Ba 233.527	-99.2	0.403621	µg/L		
Ca 430.253	514.6	387.297	µg/L		

000123

Cr 205.560	486.3	22.0033	µg/L
Co 228.616	3730.9	105.750	µg/L
Cu 324.752	34536.5	51.8205	µg/L
Fe 273.955	850.3	29.0942	µg/L
Mg 279.077	398.7	-0.898690	µg/L
Ca 227.546	73.1	285.785	µg/L

Mean Data

ID: ISAM03ISA002	Seq. No.: 8	Sample No.: 7	A/S Pos: 5
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	2:36:11 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	92542.4	0.840	µg/L		
Sc 361.383	460478.6	0.908	µg/L		
Al 308.215	17092322.7	495592	µg/L		
As 188.979	-30.7	-0.648828	µg/L		
Ba 233.527	847.3	6.26586	µg/L		
Ca 430.253	3869665.0	503440	µg/L		
Cr 205.560	15.1	1.39262	µg/L		
Co 228.616	110.9	2.53939	µg/L		
Cu 324.752	8050.6	-3.83227	µg/L		
Fe 273.955	5529530.4	180414	µg/L		
Mg 279.077	10590898.6	474958	µg/L		
Ca 227.546	81115.5	530564	µg/L		

Mean Data

ID: ISBM03ISR002	Seq. No.: 9	Sample No.: 9	A/S Pos: 7
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	2:40:52 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	92386.6	0.838	µg/L		
Sc 361.383	439899.3	0.867	µg/L		
Al 308.215	17901098.0	519072	µg/L		
As 188.979	161.4	95.1137	µg/L		
Ba 233.527	89029.2	552.431	µg/L		
Ca 430.253	4122877.1	536370	µg/L		
Cr 205.560	11496.1	503.608	µg/L		
Co 228.616	16552.2	471.308	µg/L		
Cu 324.752	270225.3	547.054	µg/L		
Fe 273.955	5842281.7	190619	µg/L		
Mg 279.077	11239799.0	504060	µg/L		
Ca 227.546	85000.2	555941	µg/L		

Mean Data

ID: CCVM03IRCCV02	Seq. No.: 10	Sample No.: 12	A/S Pos: 2
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	2:45:26 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	102198.6	0.927	µg/L		
Sc 361.383	474234.1	0.935	µg/L		
Al 308.215	418277.2	11494.9	µg/L		
*QC exceeds upper limit for Al 308.215 Recovery = 114.95% Action = Continue					
As 188.979	-8.8	-0.743684	µg/L		
Ba 233.527	1762280.7	10915.9	µg/L		
Ca 430.253	190374.6	25084.9	µg/L		
Cr 205.560	23940.5	1047.97	µg/L		
Co 228.616	88485.0	2522.24	µg/L		
Cu 324.752	600974.0	1242.03	µg/L		
Fe 273.955	176164.3	5749.10	µg/L		
*QC exceeds upper limit for Fe 273.955 Recovery = 114.98% Action = Continue					
Mg 279.077	602340.3	26994.8	µg/L		
Ca 227.546	4078.9	26116.5	µg/L		

Mean Data

ID: CCVM02ISBCCV1	Seq. No.: 11	Sample No.: 13	A/S Pos: 3
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 10/12/04	2:49:34 PM

000124

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	106433.7	0.966	µg/L		
Sc 361.383	493933.0	0.974	µg/L		
Al 308.215	47896.3	743.877	µg/L		
As 188.979	1979.3	986.988	µg/L		
Ba 233.527	2945.9	19.2636	µg/L		
Ca 430.253	5463.1	1030.61	µg/L		
Cr 205.560	43.4	2.62944	µg/L		
Co 228.616	177.4	4.43394	µg/L		
Cu 324.752	11134.3	2.64728	µg/L		
Fe 273.955	10214.4	334.618	µg/L		
Mg 279.077	19049.8	835.558	µg/L		
Ca 227.546	170.6	938.442	µg/L		

Mean Data
 ID: CCB Seq. No.: 12 Sample No.: 14 A/S Pos: 1
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Date: Original Date: 10/12/04 2:53:34 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108052.7	0.980	µg/L		
Sc 361.383	492323.7	0.971	µg/L		
Al 308.215	37500.9	442.064	µg/L		
As 188.979	-4.9	4.42911	µg/L		
Ba 233.527	1385.1	9.59706	µg/L		
Ca 430.253	3410.2	763.735	µg/L		
Cr 205.560	13.6	1.32742	µg/L		
Co 228.616	112.3	2.57841	µg/L		
Cu 324.752	10348.4	0.995892	µg/L		
Fe 273.955	5829.7	191.559	µg/L		
Mg 279.077	11387.2	491.907	µg/L		
Ca 227.546	134.0	698.515	µg/L		

Mean Data
 ID: 241274-012 Seq. No.: 13 Sample No.: 6 A/S Pos: 59
 Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Date: Original Date: 10/12/04 2:57:35 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	102452.3	0.930	µg/L		
Sc 361.383	495328.5	0.977	µg/L		
Al 308.215	96710.3	2149.43	µg/L	2149.43	µg/L
As 188.979	42649.2	21127.1	µg/L	21127.1	µg/L
Ba 233.527	1653.0	11.2559	µg/L	11.2559	µg/L
Ca 430.253	559373.9	73116.6	µg/L	73116.6	µg/L
Cr 205.560	3847.4	169.029	µg/L	169.029	µg/L
Co 228.616	197.1	4.99691	µg/L	4.99691	µg/L
Cu 324.752	47365.1	78.7760	µg/L	78.7760	µg/L
Fe 273.955	15113.0	494.445	µg/L	494.445	µg/L
Mg 279.077	255462.8	11438.1	µg/L	11438.1	µg/L
Ca 227.546	12017.3	78057.3	µg/L	78057.3	µg/L

000125

ICP3

10/13/04

File Description
IDL

Parameters Common To All Samples

Volume Units L
* Sample Units µg/L
Weight Units µg

Parameters That Vary With All Samples

	A/S Location	Sample ID	Aliquot Volume	Diluted To Vol.
001	24	MB 76969		
002	25	LCS 76969		
003	26	241225-010S		
004	27	241225-010S MD		
005	28	241225-010S MSF		
006	29	241225-010S SD		
007	30	241225-002S		
008	31	241225-004S		
009	32	241225-006S		
010	33	241225-008S		
011	34	241225-012S		
012	35	241225-014S		
013	36	241225-016S		
014	37	241225-018S		
015	38	241225-020S		
016	39	241150-001S		
017	40	241171-001S		
018	41	241171-002S		
019	42	241171-003S		
020	43	241171-004S		
021	44	241197-001S		
022	45	241197-001S MD		
023	46	241197-001S MS		
024	47	241197-001S MSF		
025	48	241197-001S SD		
026	49	241197-002S		
027	50	241197-003S		
028	51	241225-010S PDS Pb		
029	52	241197-001S PDS Pb, Se		
030	53	241274-005		
031	54	-007		
032	55	-010		
033	56	241245-001		
034	57	-001 MD		
035				
036				
037				
038				
039				
040				
041				
042				
043				
044				
045				
046				

241225
77556

241197
77570

241274
77571

Reg # 77572

Analyze QCs Before

001 2,3,4,5,6,7,9,11,12

Method: TESTSc

Results: 101304R

Sample Info: oct13

Method Description: CLP

IEC: 060404.IEC

Spectra Stored: Yes

User: User1

MSF:

Method Stored: Yes

Date: 10/13/04 3:45:18 PM

Mean Data

ID: IS Init

Seq. No.: 1

Data: Reprocessed

A/S Pos: 0

Date: 10/13/04 3:45:19 PM

Element	Mean Corr. Intensity
Y 360.073	98074.8
Sc 361.383	439681.3

Mean Data

ID: CALBLK

Seq. No.: 2

Data: Reprocessed

A/S Pos: 0

Date: 10/13/04 3:45:31 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	97999.1	0.999	µg/L
Sc 361.383	434902.1	0.989	µg/L
Al 308.215	25249.6	0	µg/L
Si 206.836	61.2	0	µg/L
As 188.979	-14.9	0	µg/L
Ba 233.527	-152.5	0	µg/L
Be 313.107	9086.2	0	µg/L
Cd 226.502	-325.4	0	µg/L
Ca 430.253	272.1	0	µg/L
Cr 205.560	-16.4	0	µg/L
Co 228.616	20.9	0	µg/L
Cu 324.752	10062.9	0	µg/L
Fe 273.955	-25.2	0	µg/L
Pb 220.353	24.5	0	µg/L
Mg 279.077	288.4	0	µg/L
Mn 257.610	658.8	0	µg/L
Ni 231.604	109.3	0	µg/L
K 766.490	187410.1	0	µg/L
Se 196.026	-3.8	0	µg/L
Ag 338.289	20.4	0	µg/L
Na 330.237	-516.0	0	µg/L
Tl 190.801	-37.8	0	µg/L
V 292.402	8.5	0	µg/L
Zn 206.200	95.0	0	µg/L
B 249.677	206.7	0	µg/L
Mo 202.031	0.8	0	µg/L
Ca 227.546	71.5	0	µg/L
Na 589.592	23302.1	0	µg/L

Mean Data

ID: CAL-1-A

Seq. No.: 3

Data: Reprocessed

A/S Pos: 0

Date: 10/13/04 3:45:39 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	99678.7	1.016	µg/L
Sc 361.383	463705.3	1.055	µg/L
Al 308.215	650873.4	20000	µg/L
Ba 233.527	2897659.7	20000	µg/L
Be 313.107	1296190.3	500	µg/L
Ca 430.253	348410.0	50000	µg/L
Cr 205.560	42478.4	2000	µg/L
Co 228.616	158311.4	5000	µg/L
Cu 324.752	1129691.4	2500	µg/L
Fe 273.955	280350.0	10000	µg/L
Mg 279.077	1032033.2	50000	µg/L
Mn 257.610	1894438.3	5000	µg/L
Ni 231.604	134441.1	5000	µg/L
Na 330.237	62003.4	50000	µg/L
V 292.402	295777.0	5000	µg/L
Zn 206.200	136083.4	5000	µg/L

000127

Ca 227.546 7053.3 50000 µg/L

Mean Data

ID: CAL-1-B

Seq. No.: 4

A/S Pos: 0

Data: Reprocessed

Date: 10/13/04 3:45:41 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	107205.1	1.093 µg/L	
Sc 361.383	478425.5	1.088 µg/L	
Ag 338.289	69114.8	750 µg/L	

Mean Data

ID: CAL-3

Seq. No.: 5

A/S Pos: 0

Data: Reprocessed

Date: 10/13/04 3:45:44 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	109510.4	1.117 µg/L	
Sc 361.383	489787.8	1.114 µg/L	
Cd 226.502	38459.1	1000 µg/L	
Pb 220.353	13201.6	2000 µg/L	
Tl 190.801	2654.2	2000 µg/L	

Mean Data

ID: K

Seq. No.: 6

A/S Pos: 0

Data: Reprocessed

Date: 10/13/04 3:45:47 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	104826.7	1.069 µg/L	
Sc 361.383	476442.7	1.084 µg/L	
Ca 430.253	64758.4	10000 µg/L	
K 766.490	3870559.2	10000 µg/L	
Na 330.237	10258.7	10000 µg/L	
B 249.677	65081.5	2500 µg/L	
Ca 227.546	1361.8	10000 µg/L	
Na 589.592	2381253.2	10000 µg/L	

Mean Data

ID: SB

Seq. No.: 7

A/S Pos: 0

Data: Reprocessed

Date: 10/13/04 3:45:49 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	108284.5	1.104 µg/L	
Sc 361.383	483962.6	1.101 µg/L	
Sb 206.836	7917.8	2500 µg/L	

Mean Data

ID: 3-3

Seq. No.: 8

A/S Pos: 0

Data: Reprocessed

Date: 10/13/04 3:45:51 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	107274.2	1.094 µg/L	
Sc 361.383	473962.2	1.078 µg/L	
Mo 202.031	46691.1	6500 µg/L	

Mean Data

ID: As

Seq. No.: 9

A/S Pos: 0

Data: Reprocessed

Date: 10/13/04 3:45:53 PM

Element	Mean Corr. Intensity	Conc.	Calib Units
Y 360.073	109064.7	1.112 µg/L	
Sc 361.383	488050.7	1.110 µg/L	
As 188.979	1367.9	750 µg/L	
Se 196.026	913.5	750 µg/L	

Mean Data

ID: Na

Seq. No.: 10

A/S Pos: 0

Data: Reprocessed

Date: 10/13/04 3:45:55 PM

000128

Element	Mean Corr. Intensity	Calib Conc. Units
Y 360.073	104532.9	1.066 µg/L
Sc 361.383	476943.5	1.085 µg/L
K 766.490	1913478.5	5000 µg/L
Na 330.237	4942.8	5000 µg/L
Na 589.592	1103950.3	5000 µg/L

Mean Data

ID: ICVM03AGICV02 Seq. No.: 11 Sample No.: 2 A/S Pos: 0
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Reprocessed Date: 10/13/04 3:46:06 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107955.3	1.101	µg/L		
Sc 361.383	480469.1	1.093	µg/L		
Al 308.215	25089.7	-4.96513	µg/L		
Sb 206.836	49.5	-3.76298	µg/L		
As 188.979	-10.7	2.29326	µg/L		
Ba 233.527	822.7	6.73078	µg/L		
Be 313.107	9248.9	0.0919057	µg/L		
Cd 226.502	-261.3	1.65203	µg/L		
Ca 430.253	345.9	360.323	µg/L		
Cr 205.560	16.7	1.55648	µg/L		
Co 228.616	-87.1	-3.41198	µg/L		
Cu 324.752	58958.1	109.177	µg/L		
Fe 273.955	209.4	8.91190	µg/L		
Pb 220.353	-24.7	-7.47893	µg/L		
Mg 279.077	612.0	15.6852	µg/L		
Mn 257.610	1246.5	1.55133	µg/L		
Ni 231.604	90.4	-0.704148	µg/L		
K 766.490	155137.3	16.9130	µg/L		
Se 196.026	1.4	4.20065	µg/L		
Ag 338.289	10074.6	109.136	µg/L		
Na 330.237	-476.3	691.625	µg/L		
Tl 190.801	103.5	105.017	µg/L		
V 292.402	-595.8	-10.2171	µg/L		
Zn 206.200	128.0	1.21236	µg/L		
B 249.677	51698.7	1984.29	µg/L		
Mo 202.031	14568.3	2028.03	µg/L		
Ca 227.546	58.4	267.115	µg/L		
Na 589.592	27608.8	157.266	µg/L		

Mean Data

ID: ICVM02ISBICV1 Seq. No.: 12 Sample No.: 3 A/S Pos: 0
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Reprocessed Date: 10/13/04 3:46:18 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108023.2	1.101	µg/L		
Sc 361.383	484920.6	1.103	µg/L		
Al 308.215	24108.1	-36.4994	µg/L		
Sb 206.836	1999.7	616.808	µg/L		
As 188.979	948.8	522.698	µg/L		
Ba 233.527	297.4	3.10507	µg/L		
Be 313.107	8757.6	-0.120177	µg/L		
Cd 226.502	9956.4	265.100	µg/L		
Ca 430.253	435.6	373.163	µg/L		
Cr 205.560	2.4	0.881454	µg/L		
Co 228.616	17.2	-0.118533	µg/L		
Cu 324.752	9645.8	-0.931336	µg/L		
Fe 273.955	57.4	3.08628	µg/L		
Pb 220.353	3498.8	527.332	µg/L		
Mg 279.077	401.2	5.46876	µg/L		
Mn 257.610	830.7	0.453654	µg/L		
Ni 231.604	99.9	-0.350587	µg/L		
K 766.490	154925.5	16.3378	µg/L		
Se 196.026	644.3	529.886	µg/L		
Ag 338.289	-253.2	-2.96923	µg/L		
Na 330.237	-910.8	347.548	µg/L		

000129

Tl 190.801	656.9	516.146	µg/L
V 292.402	-148.2	-2.64962	µg/L
Zn 206.200	133.0	1.39814	µg/L
B 249.677	729.6	20.1524	µg/L
Mo 202.031	4330.7	602.788	µg/L
Ca 227.546	60.2	279.027	µg/L
Na 589.592	26569.7	152.859	µg/L

Mean Data

ID: ICVM03IRICV01	Seq. No.: 13	Sample No.: 4	A/S Pos: 0
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Reprocessed	Date: 10/13/04	3:46:31 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	105372.5	1.074	µg/L		
Sc 361.383	475435.9	1.081	µg/L		
Al 308.215	172435.5	4677.53	µg/L		
Sb 206.836	2094.2	651.257	µg/L		
As 188.979	-11.8	0.126743	µg/L		
Ba 233.527	767098.3	5295.38	µg/L		
Be 313.107	327232.1	120.011	µg/L		
Cd 226.502	-245.5	1.89137	µg/L		
Ca 430.253	81489.1	11948.4	µg/L		
Cr 205.560	10783.2	508.276	µg/L		
Co 228.616	40122.5	1266.71	µg/L		
Cu 324.752	279467.9	601.550	µg/L		
Fe 273.955	70095.2	2433.10	µg/L		
Pb 220.353	9.7	-1.81527	µg/L		
Mg 279.077	259511.2	12562.4	µg/L		
Mn 257.610	483658.3	1275.02	µg/L		
Ni 231.604	34271.4	1271.82	µg/L		
K 766.490	4919127.0	12951.5	µg/L		
Se 196.026	4.8	7.92355	µg/L		
Ag 338.289	45192.3	490.328	µg/L		
Na 330.237	13003.1	11297.7	µg/L		
Tl 190.801	-34.7	1.40453	µg/L		
V 292.402	75374.0	1274.06	µg/L		
Zn 206.200	34414.1	1261.29	µg/L		
B 249.677	399.9	5.29261	µg/L		
Mo 202.031	4384.0	610.214	µg/L		
Ca 227.546	1727.2	12016.6	µg/L		
Na 589.592	3104513.9	13206.3	µg/L		

Mean Data

ID: ICB	Seq. No.: 14	Sample No.: 5	A/S Pos: 0
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Reprocessed	Date: 10/13/04	3:46:44 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107622.5	1.097	µg/L		
Sc 361.383	477266.4	1.085	µg/L		
Al 308.215	24023.7	-39.3104	µg/L		
Sb 206.836	60.4	-0.260930	µg/L		
As 188.979	-11.1	2.04634	µg/L		
Ba 233.527	1648.3	12.4286	µg/L		
Be 313.107	9535.3	0.166471	µg/L		
Cd 226.502	-264.3	1.57584	µg/L		
Ca 430.253	451.7	375.473	µg/L		
Cr 205.560	10.8	1.28019	µg/L		
Co 228.616	112.0	2.87655	µg/L		
Cu 324.752	10178.8	0.258726	µg/L		
Fe 273.955	161.3	6.49902	µg/L		
Pb 220.353	16.4	-1.23359	µg/L		
Mg 279.077	932.2	31.1982	µg/L		
Mn 257.610	1692.4	2.72842	µg/L		
Ni 231.604	173.3	2.38083	µg/L		
K 766.490	160109.9	30.4138	µg/L		
Se 196.026	-0.5	2.69792	µg/L		
Ag 338.289	150.3	1.41082	µg/L		
Na 330.237	-602.4	591.664	µg/L		
Tl 190.801	-32.7	3.86002	µg/L		

000130

V 292.402	177.2	2.85150	µg/L
Zn 206.200	129.5	1.27020	µg/L
B 249.677	298.2	3.52249	µg/L
Mo 202.031	40.8	5.57617	µg/L
Ca 227.546	55.8	247.691	µg/L
Na 589.592	25881.9	149.942	µg/L

Mean Data

ID: CRIM03ICRI001

Seq. No.: 15

Sample No.: 6

A/S Pos: 0

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:46:57 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	106130.0	1.082	µg/L		
Sc 361.383	474075.0	1.078	µg/L		
Al 308.215	24144.9	-37.4980	µg/L		
Sb 206.836	458.3	126.764	µg/L		
As 188.979	27.0	22.8131	µg/L		
Ba 233.527	899.5	7.26065	µg/L		
Be 313.107	35852.2	10.1027	µg/L		
Cd 226.502	129.7	11.7337	µg/L		
Ca 430.253	383.2	365.679	µg/L		
Cr 205.560	461.3	22.4787	µg/L		
Co 228.616	3524.3	110.663	µg/L		
Cu 324.752	33198.2	51.6583	µg/L		
Fe 273.955	775.1	22.9478	µg/L		
Pb 220.353	48.4	3.61875	µg/L		
Mg 279.077	582.9	14.2748	µg/L		
Mn 257.610	13891.9	34.9378	µg/L		
Ni 231.604	2518.0	89.6775	µg/L		
K 766.490	160829.2	32.3667	µg/L		
Se 196.026	10.4	11.6567	µg/L		
Ag 338.289	1991.7	21.3980	µg/L		
Na 330.237	-445.5	714.971	µg/L		
Tl 190.801	-4.6	24.5889	µg/L		
V 292.402	6223.2	105.059	µg/L		
Zn 206.200	1294.3	44.0952	µg/L		
B 249.677	289.6	3.00908	µg/L		
Mo 202.031	22.5	3.02485	µg/L		
Ca 227.546	58.1	249.529	µg/L		
Na 589.592	28218.1	159.850	µg/L		

Mean Data

ID: ISAM03ISA002

Seq. No.: 16

Sample No.: 7

A/S Pos: 0

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:47:10 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	90699.7	0.925	µg/L		
Sc 361.383	425508.4	0.968	µg/L		
Al 308.215	15829508.1	505141	µg/L		
Sb 206.836	81.7	-21.0479	µg/L		
As 188.979	-38.5	-4.26703	µg/L		
Ba 233.527	1225.3	9.50920	µg/L		
Be 313.107	9557.0	0.177908	µg/L		
Cd 226.502	-57.1	-6.06618	µg/L		
Ca 430.253	3861654.9	551518	µg/L		
Cr 205.560	27.1	2.04583	µg/L		
Co 228.616	114.1	2.94377	µg/L		
Cu 324.752	8440.2	-3.62336	µg/L		
Fe 273.955	5200954.1	185501	µg/L		
Pb 220.353	-329.4	3.24911	µg/L		
Mg 279.077	10234926.8	495987	µg/L		
Mn 257.610	5677.2	5.16688	µg/L		
Ni 231.604	30.2	-2.94630	µg/L		
K 766.490	174919.2	70.6221	µg/L		
Se 196.026	-35.8	-5.73942	µg/L		
Ag 338.289	491.0	5.10908	µg/L		
Na 330.237	581.7	160.130	µg/L		
Tl 190.801	-81.0	1.01084	µg/L		
V 292.402	113.6	1.77595	µg/L		

000131

Zn 206.200	859.5	-5.39749	µg/L
B 249.677	167.8	-1.50099	µg/L
Mo 202.031	16.9	2.25232	µg/L
Ca 227.546	75332.2	539224	µg/L
Na 589.592	50158.5	252.898	µg/L

Mean Data

ID: ISBM03ISR002	Seq. No.: 17	Sample No.: 9	A/S Pos: 0
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0: 1.0	Date: 10/13/04 3:47:24 PM
Data: Reprocessed			

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	91114.5	0.929	µg/L		
Sc 361.383	421572.6	0.959	µg/L		
Al 308.215	16241047.3	518284	µg/L		
Sb 206.836	2217.5	659.811	µg/L		
As 188.979	151.7	99.2786	µg/L		
Ba 233.527	78598.8	543.523	µg/L		
Be 313.107	1284651.3	494.072	µg/L		
Cd 226.502	36770.1	943.125	µg/L		
Ca 430.253	3967182.3	566582	µg/L		
Cr 205.560	10677.2	503.287	µg/L		
Co 228.616	15481.1	488.348	µg/L		
Cu 324.752	258383.0	554.470	µg/L		
Fe 273.955	5338359.8	190374	µg/L		
Pb 220.353	-33.2	49.5560	µg/L		
Mg 279.077	10512654.8	509446	µg/L		
Mn 257.610	199002.1	515.368	µg/L		
Ni 231.604	25761.8	954.920	µg/L		
K 766.490	174453.5	69.3578	µg/L		
Se 196.026	39.8	56.8389	µg/L		
Ag 338.289	20839.6	225.987	µg/L		
Na 330.237	3116.8	2114.79	µg/L		
Tl 190.801	38.0	89.7230	µg/L		
V 292.402	30457.2	514.737	µg/L		
Zn 206.200	26563.1	938.780	µg/L		
B 249.677	127.2	-3.89245	µg/L		
Mo 202.031	5.7	0.682405	µg/L		
Ca 227.546	77862.1	557251	µg/L		
Na 589.592	40903.6	213.649	µg/L		

Mean Data

ID: CCVM03AGCCV03	Seq. No.: 18	Sample No.: 11	A/S Pos: 0
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0: 1.0	Date: 10/13/04 3:47:38 PM
Data: Reprocessed			

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107496.6	1.096	µg/L		
Sc 361.383	475668.5	1.082	µg/L		
Al 308.215	59228.8	1086.11	µg/L		
Sb 206.836	52.3	-2.89853	µg/L		
As 188.979	-10.7	2.31583	µg/L		
Ba 233.527	162.9	2.17708	µg/L		
Be 313.107	11250.5	0.853927	µg/L		
Cd 226.502	-205.4	3.05753	µg/L		
Ca 430.253	7854.8	1432.02	µg/L		
Cr 205.560	18.2	1.62551	µg/L		
Co 228.616	-21.7	-1.34808	µg/L		
Cu 324.752	145521.2	302.463	µg/L		
Fe 273.955	14922.0	533.362	µg/L		
Pb 220.353	-8.7	-4.97686	µg/L		
Mg 279.077	26862.4	1287.82	µg/L		
Mn 257.610	1087.0	1.10953	µg/L		
Ni 231.604	118.0	0.321831	µg/L		
K 766.490	151495.4	7.02495	µg/L		
Se 196.026	-1.3	2.10306	µg/L		
Ag 338.289	27896.0	302.582	µg/L		
Na 330.237	-579.5	607.205	µg/L		
Tl 190.801	382.3	312.198	µg/L		
V 292.402	-268.3	-4.67927	µg/L		
Zn 206.200	149.1	1.90938	µg/L		

000132

B 249.677	26896.3	1028.51	µg/L
Mo 202.031	7430.7	1034.37	µg/L
Ca 227.546	208.6	1344.63	µg/L
Na 589.592	14261.7	100.661	µg/L

Mean Data

ID: CCVM03IRCCV02

Seq. No.: 19

Sample No.: 12

A/S Pos: 0

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Reprocessed

Date: 10/13/04 3:47:52 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	101490.6	1.035	µg/L		
Sc 361.383	461104.2	1.049	µg/L		
Al 308.215	348908.5	10291.2	µg/L		
Sb 206.836	1713.0	534.170	µg/L		
As 188.979	-12.2	-1.53856	µg/L		
Ba 233.527	1507902.1	10408.2	µg/L		
Be 313.107	653499.3	243.189	µg/L		
Cd 226.502	-211.1	2.58862	µg/L		
Ca 430.253	174153.5	25181.7	µg/L		
Cr 205.560	21644.7	1019.47	µg/L		
Co 228.616	80223.2	2533.39	µg/L		
Cu 324.752	560828.4	1229.80	µg/L		
Fe 273.955	147049.3	5110.16	µg/L		
Pb 220.353	10.1	-1.20760	µg/L		
Mg 279.077	530649.2	25702.1	µg/L		
Mn 257.610	965435.8	2546.81	µg/L		
Ni 231.604	68241.5	2536.50	µg/L		
K 766.490	10433818.0	27924.2	µg/L		
Se 196.026	3.7	7.81857	µg/L		
Ag 338.289	72646.1	788.331	µg/L		
Na 330.237	28634.6	23603.9	µg/L		
Tl 190.801	-24.4	8.25118	µg/L		
V 292.402	150497.2	2544.03	µg/L		
Zn 206.200	69080.4	2535.29	µg/L		
B 249.677	450.3	5.08011	µg/L		
Mo 202.031	3603.0	501.482	µg/L		
Ca 227.546	3523.5	24677.7	µg/L		
Na 589.592	7053039.8	29951.9	µg/L		

Mean Data

ID: CCVM02ISBCCV1

Seq. No.: 20

Sample No.: 13

A/S Pos: 0

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Reprocessed

Date: 10/13/04 3:48:07 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108960.6	1.111	µg/L		
Sc 361.383	488812.5	1.112	µg/L		
Al 308.215	32897.5	244.346	µg/L		
Sb 206.836	1674.6	513.379	µg/L		
As 188.979	1836.5	1004.11	µg/L		
Ba 233.527	2454.0	17.9895	µg/L		
Be 313.107	10313.1	0.471782	µg/L		
Cd 226.502	19357.9	507.494	µg/L		
Ca 430.253	2433.7	658.359	µg/L		
Cr 205.560	40.6	2.67917	µg/L		
Co 228.616	141.8	3.81785	µg/L		
Cu 324.752	10431.2	0.822221	µg/L		
Fe 273.955	3635.3	130.466	µg/L		
Pb 220.353	6691.2	1011.90	µg/L		
Mg 279.077	7993.2	373.387	µg/L		
Mn 257.610	2449.8	4.72230	µg/L		
Ni 231.604	204.9	3.56000	µg/L		
K 766.490	162205.0	36.1021	µg/L		
Se 196.026	1249.0	1024.34	µg/L		
Ag 338.289	624.6	6.55876	µg/L		
Na 330.237	-913.2	344.801	µg/L		
Tl 190.801	1316.7	1006.33	µg/L		
V 292.402	110.4	1.72186	µg/L		
Zn 206.200	213.1	4.32110	µg/L		
B 249.677	299.9	3.58756	µg/L		

000133

Mo 202.031	3555.8	494.914	µg/L
Ca 227.546	91.4	503.242	µg/L
Na 589.592	18116.1	117.008	µg/L

Mean Data -----

ID: CCB	Seq. No.: 21	Sample No.: 14	A/S Pos: 0
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Reprocessed	Date: 10/13/04	3:48:21 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	106836.8	1.089	µg/L		
Sc 361.383	473716.8	1.077	µg/L		
Al 308.215	27320.4	66.0941	µg/L		
Sb 206.836	71.7	3.32397	µg/L		
As 188.979	-8.2	3.62851	µg/L		
Ba 233.527	724.2	6.05087	µg/L		
Be 313.107	9384.8	0.111835	µg/L		
Cd 226.502	-254.2	1.83254	µg/L		
Ca 430.253	1056.3	461.744	µg/L		
Cr 205.560	-2.4	0.659027	µg/L		
Co 228.616	72.0	1.61280	µg/L		
Cu 324.752	9899.2	-0.365529	µg/L		
Fe 273.955	1584.0	57.3146	µg/L		
Pb 220.353	11.0	-2.04290	µg/L		
Mg 279.077	3151.0	138.725	µg/L		
Mn 257.610	1172.6	1.35427	µg/L		
Ni 231.604	136.5	1.01278	µg/L		
K 766.490	156897.5	21.6920	µg/L		
Se 196.026	1.7	4.45425	µg/L		
Ag 338.289	240.8	2.39323	µg/L		
Na 330.237	-646.4	556.700	µg/L		
Tl 190.801	-32.9	3.67097	µg/L		
V 292.402	96.6	1.48929	µg/L		
Zn 206.200	91.1	-0.148617	µg/L		
B 249.677	240.3	1.29423	µg/L		
Mo 202.031	22.3	3.00120	µg/L		
Ca 227.546	67.4	331.191	µg/L		
Na 589.592	13853.6	98.9302	µg/L		

Mean Data -----

ID: MB 76969	Seq. No.: 22	Sample No.: 0	A/S Pos: 0
Sample Qty: 1.0000 L	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Reprocessed	Date: 10/13/04	3:48:36 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	106938.6	1.090	µg/L		
Sc 361.383	479417.6	1.090	µg/L		
Al 308.215	29169.7	125.178	µg/L	125.178	µg/L
Sb 206.836	65.9	1.47933	µg/L	1.47933	µg/L
As 188.979	-11.1	2.09218	µg/L	2.09218	µg/L
Ba 233.527	900.0	7.26411	µg/L	7.26411	µg/L
Be 313.107	9432.7	0.129362	µg/L	0.129362	µg/L
Cd 226.502	-252.7	1.86775	µg/L	1.86775	µg/L
Ca 430.253	2222.1	628.240	µg/L	628.240	µg/L
Cr 205.560	15.0	1.47597	µg/L	1.47597	µg/L
Co 228.616	80.4	1.87736	µg/L	1.87736	µg/L
Cu 324.752	10291.7	0.510860	µg/L	0.510860	µg/L
Fe 273.955	2592.7	93.2719	µg/L	93.2719	µg/L
Pb 220.353	16.0	-1.26421	µg/L	-1.26421	µg/L
Mg 279.077	4653.1	211.522	µg/L	211.522	µg/L
Mn 257.610	1304.9	1.70223	µg/L	1.70223	µg/L
Ni 231.604	151.1	1.55424	µg/L	1.55424	µg/L
K 766.490	157876.7	24.3505	µg/L	24.3505	µg/L
Se 196.026	3.2	5.70166	µg/L	5.70166	µg/L
Ag 338.289	132.1	1.21343	µg/L	1.21343	µg/L
Na 330.237	-319.9	814.794	µg/L	814.794	µg/L
Tl 190.801	-36.9	0.706505	µg/L	0.706505	µg/L
V 292.402	119.7	1.87943	µg/L	1.87943	µg/L
Zn 206.200	368.9	10.0614	µg/L	10.0614	µg/L
B 249.677	225.7	0.730279	µg/L	0.730279	µg/L
Mo 202.031	14.5	1.91342	µg/L	1.91342	µg/L

000134

Ca 227.546	93.5	517.490	µg/L	517.490	µg/L
Na 589.592	22851.3	137.089	µg/L	137.089	µg/L

Mean Data

ID: LCS 76969

Seq. No.: 23

Sample No.: 0

A/S Pos: 0

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:48:51 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	118918.2	1.213	µg/L		
Sc 361.383	481648.7	1.095	µg/L		
Al 308.215	619073.6	18962.4	µg/L	18962.4	µg/L
Sb 206.836	336.3	85.6028	µg/L	85.6028	µg/L
As 188.979	1083.1	595.837	µg/L	595.837	µg/L
Ba 233.527	378425.0	2612.85	µg/L	2612.85	µg/L
Be 313.107	434204.7	163.900	µg/L	163.900	µg/L
Cd 226.502	11763.6	309.983	µg/L	309.983	µg/L
Ca 430.253	509907.2	73141.5	µg/L	73141.5	µg/L
Cr 205.560	10550.9	497.342	µg/L	497.342	µg/L
Co 228.616	17080.8	538.878	µg/L	538.878	µg/L
Cu 324.752	99173.8	198.974	µg/L	198.974	µg/L
Fe 273.955	687111.0	24484.1	µg/L	24484.1	µg/L
Pb 220.353	3146.4	476.374	µg/L	476.374	µg/L
Mg 279.077	826566.6	40042.8	µg/L	40042.8	µg/L
Mn 257.610	552802.4	1457.13	µg/L	1457.13	µg/L
Ni 231.604	13042.1	481.485	µg/L	481.485	µg/L
K 766.490	3249837.5	8419.23	µg/L	8419.23	µg/L
Se 196.026	318.5	267.092	µg/L	267.092	µg/L
Ag 338.289	23231.4	251.949	µg/L	251.949	µg/L
Na 330.237	2859.7	3108.85	µg/L	3108.85	µg/L
Tl 190.801	534.4	428.776	µg/L	428.776	µg/L
V 292.402	26236.3	443.384	µg/L	443.384	µg/L
Zn 206.200	22019.3	804.210	µg/L	804.210	µg/L
B 249.677	8155.8	305.408	µg/L	305.408	µg/L
Mo 202.031	2110.0	293.633	µg/L	293.633	µg/L
Ca 227.546	10310.0	73581.7	µg/L	73581.7	µg/L
Na 589.592	309330.1	1352.04	µg/L	1352.04	µg/L

Mean Data

ID: 241225-0105

Seq. No.: 24

Sample No.: 0

A/S Pos: 0

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:49:06 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	132555.8	1.352	µg/L		
Sc 361.383	501480.8	1.141	µg/L		
Al 308.215	1314293.9	41201.7	µg/L	41201.7	µg/L
Sb 206.836	57.3	-2.68616	µg/L	-2.68616	µg/L
As 188.979	11.6	14.8514	µg/L	14.8514	µg/L
Ba 233.527	36364.9	252.034	µg/L	252.034	µg/L
Be 313.107	14197.7	1.83023	µg/L	1.83023	µg/L
Cd 226.502	-188.0	-2.19080	µg/L	-2.19080	µg/L
Ca 430.253	229403.2	33044.5	µg/L	33044.5	µg/L
Cr 205.560	1005.3	48.0829	µg/L	48.0829	µg/L
Co 228.616	1066.0	33.0116	µg/L	33.0116	µg/L
Cu 324.752	43865.4	75.4769	µg/L	75.4769	µg/L
Fe 273.955	2296305.4	81899.1	µg/L	81899.1	µg/L
Pb 220.353	419.8	62.4311	µg/L	62.4311	µg/L
Mg 279.077	288277.3	13956.4	µg/L	13956.4	µg/L
Mn 257.610	745718.8	1966.90	µg/L	1966.90	µg/L
Ni 231.604	1741.1	60.7446	µg/L	60.7446	µg/L
K 766.490	1108760.3	2606.06	µg/L	2606.06	µg/L
Se 196.026	-10.9	17.9710	µg/L	17.9710	µg/L
Ag 338.289	186.1	1.79902	µg/L	1.79902	µg/L
Na 330.237	740.9	1515.65	µg/L	1515.65	µg/L
Tl 190.801	-42.2	-1.30681	µg/L	-1.30681	µg/L
V 292.402	3282.6	55.3475	µg/L	55.3475	µg/L
Zn 206.200	7168.2	258.128	µg/L	258.128	µg/L
B 249.677	315.8	4.15120	µg/L	4.15120	µg/L
Mo 202.031	16.2	2.15435	µg/L	2.15435	µg/L
Ca 227.546	4680.8	34420.9	µg/L	34420.9	µg/L

000135

Na 589.592 52457.2 262.647 µg/L 262.647 µg/L

Mean Data

ID: 241225-010S MD Seq. No.: 25 Sample No.: 0 A/S Pos: 0
Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Reprocessed Date: 10/13/04 3:49:21 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	128594.2	1.311	µg/L		
Sc 361.383	496049.5	1.128	µg/L		
Al 308.215	1551163.5	48777.0	µg/L	48777.0	µg/L
Sb 206.836	59.5	-1.00238	µg/L	-1.00238	µg/L
As 188.979	6.0	11.4779	µg/L	11.4779	µg/L
Ba 233.527	30133.4	209.026	µg/L	209.026	µg/L
Be 313.107	14060.8	1.76401	µg/L	1.76401	µg/L
Cd 226.502	-200.5	-3.11897	µg/L	-3.11897	µg/L
Ca 430.253	97848.2	14242.1	µg/L	14242.1	µg/L
Cr 205.560	1098.0	52.4467	µg/L	52.4467	µg/L
Co 228.616	1033.4	31.9819	µg/L	31.9819	µg/L
Cu 324.752	37424.4	61.0950	µg/L	61.0950	µg/L
Fe 273.955	2539334.1	90566.9	µg/L	90566.9	µg/L
Pb 220.353	407.5	60.7960	µg/L	60.7960	µg/L
Mg 279.077	294063.3	14236.8	µg/L	14236.8	µg/L
Mn 257.610	601944.4	1587.30	µg/L	1587.30	µg/L
Ni 231.604	1762.7	61.5470	µg/L	61.5470	µg/L
K 766.490	902289.3	2045.48	µg/L	2045.48	µg/L
Se 196.026	-14.2	19.3775	µg/L	19.3775	µg/L
Ag 338.289	154.6	1.45663	µg/L	1.45663	µg/L
Na 330.237	433.1	1330.00	µg/L	1330.00	µg/L
Tl 190.801	-41.3	-1.77638	µg/L	-1.77638	µg/L
V 292.402	3557.3	59.9922	µg/L	59.9922	µg/L
Zn 206.200	6360.2	228.133	µg/L	228.133	µg/L
B 249.677	191.8	-0.627901	µg/L	-0.627901	µg/L
Mo 202.031	6.4	0.779246	µg/L	0.779246	µg/L
Ca 227.546	1969.1	15236.8	µg/L	15236.8	µg/L
Na 589.592	55778.7	276.733	µg/L	276.733	µg/L

Mean Data

ID: 241225-010S MSF Seq. No.: 26 Sample No.: 0 A/S Pos: 0
Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Reprocessed Date: 10/13/04 3:49:36 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	128032.8	1.305	µg/L		
Sc 361.383	504191.4	1.147	µg/L		
Al 308.215	1683695.7	53014.2	µg/L	53014.2	µg/L
Sb 206.836	119.3	18.1628	µg/L	18.1628	µg/L
As 188.979	59.6	40.4824	µg/L	40.4824	µg/L
Ba 233.527	32764.9	227.188	µg/L	227.188	µg/L
Be 313.107	13748.9	1.63641	µg/L	1.63641	µg/L
Cd 226.502	1700.4	46.2282	µg/L	46.2282	µg/L
Ca 430.253	78267.9	11440.5	µg/L	11440.5	µg/L
Cr 205.560	1139.3	54.3905	µg/L	54.3905	µg/L
Co 228.616	1034.0	32.0012	µg/L	32.0012	µg/L
Cu 324.752	35212.7	56.1565	µg/L	56.1565	µg/L
Fe 273.955	2404937.9	85773.3	µg/L	85773.3	µg/L
Pb 220.353	501.7	75.6315	µg/L	75.6315	µg/L
Mg 279.077	299743.1	14512.1	µg/L	14512.1	µg/L
Mn 257.610	488683.2	1288.26	µg/L	1288.26	µg/L
Ni 231.604	1805.8	63.1520	µg/L	63.1520	µg/L
K 766.490	929960.9	2120.61	µg/L	2120.61	µg/L
Se 196.026	-8.5	22.6348	µg/L	22.6348	µg/L
Ag 338.289	137.6	1.27281	µg/L	1.27281	µg/L
Na 330.237	517.7	1412.82	µg/L	1412.82	µg/L
Tl 190.801	14.8	39.7899	µg/L	39.7899	µg/L
V 292.402	3692.2	62.2722	µg/L	62.2722	µg/L
Zn 206.200	6854.1	246.126	µg/L	246.126	µg/L
B 249.677	173.3	-1.33864	µg/L	-1.33864	µg/L
Mo 202.031	-0.4	-0.161175	µg/L	-0.161175	µg/L
Ca 227.546	1595.1	12501.1	µg/L	12501.1	µg/L
Na 589.592	56802.9	281.077	µg/L	281.077	µg/L

000136

Mean Data

ID: 241225-010S SD Seq. No.: 27 Sample No.: 0 A/S Pos: 0
 Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Reprocessed Date: 10/13/04 3:49:52 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	113405.9	1.156	µg/L		
Sc 361.383	484555.1	1.102	µg/L		
Al 308.215	287778.7	8391.19	µg/L	8391.19	µg/L
Sb 206.836	52.9	-2.91734	µg/L	-2.91734	µg/L
As 188.979	-7.6	4.07756	µg/L	4.07756	µg/L
Ba 233.527	7543.4	53.1152	µg/L	53.1152	µg/L
Be 313.107	9658.6	0.190133	µg/L	0.190133	µg/L
Cd 226.502	-256.5	0.533916	µg/L	0.533916	µg/L
Ca 430.253	46126.4	6892.60	µg/L	6892.60	µg/L
Cr 205.560	200.7	10.2134	µg/L	10.2134	µg/L
Co 228.616	236.3	6.80240	µg/L	6.80240	µg/L
Cu 324.752	16530.5	14.4412	µg/L	14.4412	µg/L
Fe 273.955	497941.4	17760.1	µg/L	17760.1	µg/L
Pb 220.353	102.3	12.2701	µg/L	12.2701	µg/L
Mg 279.077	62274.6	3003.95	µg/L	3003.95	µg/L
Mn 257.610	161323.1	424.141	µg/L	424.141	µg/L
Ni 231.604	443.0	12.4216	µg/L	12.4216	µg/L
K 766.490	311020.5	440.146	µg/L	440.146	µg/L
Se 196.026	-5.1	4.13949	µg/L	4.13949	µg/L
Ag 338.289	96.8	0.829727	µg/L	0.829727	µg/L
Na 330.237	-193.5	886.692	µg/L	886.692	µg/L
Tl 190.801	-36.8	1.15965	µg/L	1.15965	µg/L
V 292.402	687.4	11.4762	µg/L	11.4762	µg/L
Zn 206.200	1603.2	55.0524	µg/L	55.0524	µg/L
B 249.677	199.3	-0.294239	µg/L	-0.294239	µg/L
Mo 202.031	2.2	0.201708	µg/L	0.201708	µg/L
Ca 227.546	978.6	7087.75	µg/L	7087.75	µg/L
Na 589.592	21238.4	130.249	µg/L	130.249	µg/L

Mean Data

ID: 241225-002S Seq. No.: 28 Sample No.: 0 A/S Pos: 0
 Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Reprocessed Date: 10/13/04 3:50:08 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	143212.1	1.460	µg/L		
Sc 361.383	506368.8	1.152	µg/L		
Al 308.215	1354754.1	42499.1	µg/L	42499.1	µg/L
Sb 206.836	57.2	-1.48515	µg/L	-1.48515	µg/L
As 188.979	6.3	11.5103	µg/L	11.5103	µg/L
Ba 233.527	23655.0	164.314	µg/L	164.314	µg/L
Be 313.107	12793.5	1.27994	µg/L	1.27994	µg/L
Cd 226.502	-210.4	-3.26096	µg/L	-3.26096	µg/L
Ca 430.253	61039.1	8989.46	µg/L	8989.46	µg/L
Cr 205.560	1138.0	54.3288	µg/L	54.3288	µg/L
Co 228.616	1193.9	37.0507	µg/L	37.0507	µg/L
Cu 324.752	47336.2	83.2269	µg/L	83.2269	µg/L
Fe 273.955	2494297.2	88960.7	µg/L	88960.7	µg/L
Pb 220.353	332.4	48.5569	µg/L	48.5569	µg/L
Mg 279.077	439368.4	21278.5	µg/L	21278.5	µg/L
Mn 257.610	946043.1	2495.68	µg/L	2495.68	µg/L
Ni 231.604	2157.8	76.2537	µg/L	76.2537	µg/L
K 766.490	913610.1	2076.22	µg/L	2076.22	µg/L
Se 196.026	-15.7	17.6130	µg/L	17.6130	µg/L
Ag 338.289	79.6	0.643509	µg/L	0.643509	µg/L
Na 330.237	443.5	1324.24	µg/L	1324.24	µg/L
Tl 190.801	-40.9	-1.77626	µg/L	-1.77626	µg/L
V 292.402	3383.7	57.0576	µg/L	57.0576	µg/L
Zn 206.200	6905.4	248.196	µg/L	248.196	µg/L
B 249.677	157.9	-1.94067	µg/L	-1.94067	µg/L
Mo 202.031	-7.9	-1.21136	µg/L	-1.21136	µg/L
Ca 227.546	1259.8	10160.2	µg/L	10160.2	µg/L
Na 589.592	47858.2	243.143	µg/L	243.143	µg/L

000137

Mean Data

ID: 241225-004S

Seq. No.: 29

Sample No.: 0

A/S Pos: 0

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution:

1.0: 1.0

Data: Reprocessed

Date: 10/13/04

3:50:24 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	123403.1	1.258	µg/L		
Sc 361.383	491444.9	1.118	µg/L		
Al 308.215	1057071.1	32983.9	µg/L	32983.9	µg/L
Sb 206.836	57.3	-1.28117	µg/L	-1.28117	µg/L
As 188.979	-2.8	6.54002	µg/L	6.54002	µg/L
Ba 233.527	21807.1	151.560	µg/L	151.560	µg/L
Be 313.107	11784.2	0.936856	µg/L	0.936856	µg/L
Cd 226.502	-237.5	-1.85898	µg/L	-1.85898	µg/L
Ca 430.253	24527.6	3782.55	µg/L	3782.55	µg/L
Cr 205.560	744.8	35.8253	µg/L	35.8253	µg/L
Co 228.616	688.7	21.0935	µg/L	21.0935	µg/L
Cu 324.752	26915.4	37.6295	µg/L	37.6295	µg/L
Fe 273.955	1652287.2	58930.1	µg/L	58930.1	µg/L
Pb 220.353	240.5	34.4166	µg/L	34.4166	µg/L
Mg 279.077	192834.7	9331.10	µg/L	9331.10	µg/L
Mn 257.610	681887.6	1798.44	µg/L	1798.44	µg/L
Ni 231.604	1207.3	40.8742	µg/L	40.8742	µg/L
K 766.490	676030.0	1431.17	µg/L	1431.17	µg/L
Se 196.026	-12.1	11.1771	µg/L	11.1771	µg/L
Ag 338.289	46.5	0.283733	µg/L	0.283733	µg/L
Na 330.237	293.9	1239.48	µg/L	1239.48	µg/L
Tl 190.801	-40.5	-1.77332	µg/L	-1.77332	µg/L
V 292.402	2351.6	39.6094	µg/L	39.6094	µg/L
Zn 206.200	4216.4	150.040	µg/L	150.040	µg/L
B 249.677	197.5	-0.388361	µg/L	-0.388361	µg/L
Mo 202.031	-4.4	-0.723251	µg/L	-0.723251	µg/L
Ca 227.546	521.7	4451.96	µg/L	4451.96	µg/L
Na 589.592	100912.5	468.144	µg/L	468.144	µg/L

Mean Data

ID: 241225-006S

Seq. No.: 30

Sample No.: 0

A/S Pos: 0

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution:

1.0: 1.0

Data: Reprocessed

Date: 10/13/04

3:50:41 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	149988.0	1.529	µg/L		
Sc 361.383	510682.6	1.161	µg/L		
Al 308.215	1443217.2	45314.4	µg/L	45314.4	µg/L
Sb 206.836	49.9	-7.58568	µg/L	-7.58568	µg/L
As 188.979	27.0	24.1979	µg/L	24.1979	µg/L
Ba 233.527	36878.7	255.580	µg/L	255.580	µg/L
Be 313.107	13957.5	1.71499	µg/L	1.71499	µg/L
Cd 226.502	-200.6	-4.22161	µg/L	-4.22161	µg/L
Ca 430.253	593550.5	85065.4	µg/L	85065.4	µg/L
Cr 205.560	1391.0	66.2360	µg/L	66.2360	µg/L
Co 228.616	1603.1	49.9771	µg/L	49.9771	µg/L
Cu 324.752	55831.7	102.196	µg/L	102.196	µg/L
Fe 273.955	2980072.8	106286	µg/L	106286	µg/L
Pb 220.353	354.3	53.2104	µg/L	53.2104	µg/L
Mg 279.077	492675.9	23861.9	µg/L	23861.9	µg/L
Mn 257.610	1046893.6	2761.90	µg/L	2761.90	µg/L
Ni 231.604	2833.3	101.401	µg/L	101.401	µg/L
K 766.490	1935337.9	4850.28	µg/L	4850.28	µg/L
Se 196.026	-8.5	24.6449	µg/L	24.6449	µg/L
Ag 338.289	144.7	1.34925	µg/L	1.34925	µg/L
Na 330.237	1216.2	1739.12	µg/L	1739.12	µg/L
Tl 190.801	-51.6	-5.17389	µg/L	-5.17389	µg/L
V 292.402	3744.6	63.1577	µg/L	63.1577	µg/L
Zn 206.200	8003.3	288.384	µg/L	288.384	µg/L
B 249.677	271.1	2.40030	µg/L	2.40030	µg/L
Mo 202.031	12.9	1.69345	µg/L	1.69345	µg/L
Ca 227.546	11927.7	86405.2	µg/L	86405.2	µg/L
Na 589.592	80191.7	380.268	µg/L	380.268	µg/L

Mean Data

000138

ID: 241225-008S

Seq. No.: 31

Sample No.: 0

A/S Pos: 0

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Reprocessed

Date: 10/13/04 3:50:57 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	148006.7	1.509	µg/L		
Sc 361.383	520864.3	1.185	µg/L		
Al 308.215	1394202.1	43760.4	µg/L	43760.4	µg/L
Sb 206.836	59.6	-0.621006	µg/L	-0.621006	µg/L
As 188.979	9.8	13.3919	µg/L	13.3919	µg/L
Ba 233.527	32117.4	222.719	µg/L	222.719	µg/L
Be 313.107	13340.0	1.48147	µg/L	1.48147	µg/L
Cd 226.502	-210.3	-3.87650	µg/L	-3.87650	µg/L
Ca 430.253	47055.0	6990.35	µg/L	6990.35	µg/L
Cr 205.560	1248.2	59.5171	µg/L	59.5171	µg/L
Co 228.616	1494.5	46.5446	µg/L	46.5446	µg/L
Cu 324.752	53267.1	96.4699	µg/L	96.4699	µg/L
Fe 273.955	2741776.7	97787.2	µg/L	97787.2	µg/L
Pb 220.353	372.8	54.5349	µg/L	54.5349	µg/L
Mg 279.077	367353.9	17788.6	µg/L	17788.6	µg/L
Mn 257.610	995614.4	2626.61	µg/L	2626.61	µg/L
Ni 231.604	2531.2	90.1534	µg/L	90.1534	µg/L
K 766.490	1131231.9	2667.08	µg/L	2667.08	µg/L
Se 196.026	-17.9	18.8346	µg/L	18.8346	µg/L
Ag 338.289	44.5	0.262383	µg/L	0.262383	µg/L
Na 330.237	427.9	1312.92	µg/L	1312.92	µg/L
Tl 190.801	-41.0	-1.95509	µg/L	-1.95509	µg/L
V 292.402	3610.6	60.8933	µg/L	60.8933	µg/L
Zn 206.200	7536.3	271.453	µg/L	271.453	µg/L
B 249.677	190.2	-0.711761	µg/L	-0.711761	µg/L
Mo 202.031	-10.9	-1.62377	µg/L	-1.62377	µg/L
Ca 227.546	967.6	8210.88	µg/L	8210.88	µg/L
Na 589.592	56845.4	281.257	µg/L	281.257	µg/L

Mean Data

ID: CCVM03AGCCV03

Seq. No.: 32

Sample No.: 11

A/S Pos: 0

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Reprocessed

Date: 10/13/04 3:51:14 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	106423.1	1.085	µg/L		
Sc 361.383	468456.1	1.065	µg/L		
Al 308.215	30465.0	166.770	µg/L		
Sb 206.836	43.0	-5.82672	µg/L		
As 188.979	-10.4	2.45370	µg/L		
Ba 233.527	46.5	1.37340	µg/L		
Be 313.107	9013.8	-0.0118933	µg/L		
Cd 226.502	-276.4	1.23534	µg/L		
Ca 430.253	943.5	445.530	µg/L		
Cr 205.560	-3.0	0.627831	µg/L		
Co 228.616	-47.5	-2.16160	µg/L		
Cu 324.752	147591.3	307.085	µg/L		
Fe 273.955	11474.7	410.469	µg/L		
Pb 220.353	-10.5	-5.36667	µg/L		
Mg 279.077	2244.9	94.8157	µg/L		
Mn 257.610	4528.0	10.2138	µg/L		
Ni 231.604	80.4	-1.07524	µg/L		
K 766.490	159604.0	29.0403	µg/L		
Se 196.026	0.3	3.45043	µg/L		
Ag 338.289	28188.4	305.756	µg/L		
Na 330.237	-628.1	570.930	µg/L		
Tl 190.801	383.9	313.327	µg/L		
V 292.402	-333.3	-5.77854	µg/L		
Zn 206.200	110.9	0.576124	µg/L		
B 249.677	26957.7	1030.88	µg/L		
Mo 202.031	7495.4	1043.37	µg/L		
Ca 227.546	65.8	325.301	µg/L		
Na 589.592	13730.6	98.4089	µg/L		

Mean Data

ID: CCVM03IRCCV02

Seq. No.: 33

Sample No.: 12

A/S Pos: 0

000139

Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Reprocessed Date: 10/13/04 3:51:31 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	103080.4	1.051	µg/L		
Sc 361.383	467369.3	1.063	µg/L		
Al 308.215	333734.0	9806.46	µg/L		
Sb 206.836	1698.2	529.447	µg/L		
As 188.979	-17.8	-4.54592	µg/L		
Ba 233.527	1493149.6	10306.4	µg/L		
Be 313.107	649127.8	241.530	µg/L		
Cd 226.502	-243.4	1.75946	µg/L		
Ca 430.253	169811.6	24561.8	µg/L		
Cr 205.560	21485.0	1011.95	µg/L		
Co 228.616	79650.8	2515.31	µg/L		
Cu 324.752	559487.0	1226.80	µg/L		
Fe 273.955	146087.1	5076.58	µg/L		
Pb 220.353	10.9	-1.15016	µg/L		
Mg 279.077	516110.9	24997.6	µg/L		
Mn 257.610	962648.8	2539.46	µg/L		
Ni 231.604	67816.4	2520.67	µg/L		
K 766.490	10366762.8	27742.2	µg/L		
Se 196.026	1.3	5.94029	µg/L		
Ag 338.289	70683.9	767.032	µg/L		
Na 330.237	28461.0	23468.1	µg/L		
Tl 190.801	-24.6	8.15220	µg/L		
V 292.402	149682.5	2530.26	µg/L		
Zn 206.200	68538.8	2515.42	µg/L		
B 249.677	432.2	4.41254	µg/L		
Mo 202.031	3572.4	497.226	µg/L		
Ca 227.546	3439.2	24079.5	µg/L		
Na 589.592	6959043.7	29553.3	µg/L		

Mean Data

ID: CCVM02ISBCCV1 Seq. No.: 34 Sample No.: 13 A/S Pos: 0
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Reprocessed Date: 10/13/04 3:51:49 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108451.4	1.106	µg/L		
Sc 361.383	484019.1	1.101	µg/L		
Al 308.215	26866.9	51.5685	µg/L		
Sb 206.836	1691.7	518.825	µg/L		
As 188.979	1865.4	1019.79	µg/L		
Ba 233.527	3423.5	24.6805	µg/L		
Be 313.107	10162.7	0.409601	µg/L		
Cd 226.502	19660.6	515.299	µg/L		
Ca 430.253	867.3	434.754	µg/L		
Cr 205.560	44.6	2.86666	µg/L		
Co 228.616	190.9	5.36720	µg/L		
Cu 324.752	10852.5	1.76295	µg/L		
Fe 273.955	4313.4	154.580	µg/L		
Pb 220.353	6792.1	1027.18	µg/L		
Mg 279.077	2246.6	94.8989	µg/L		
Mn 257.610	4342.2	9.72338	µg/L		
Ni 231.604	242.6	4.96219	µg/L		
K 766.490	167286.9	49.9000	µg/L		
Se 196.026	1263.3	1036.00	µg/L		
Ag 338.289	748.7	7.90597	µg/L		
Na 330.237	-919.7	340.106	µg/L		
Tl 190.801	1324.1	1011.81	µg/L		
V 292.402	189.4	3.05689	µg/L		
Zn 206.200	255.1	5.88216	µg/L		
B 249.677	279.6	2.80136	µg/L		
Mo 202.031	3601.1	501.225	µg/L		
Ca 227.546	60.5	282.635	µg/L		
Na 589.592	17847.8	115.870	µg/L		

Mean Data

ID: CCB Seq. No.: 35 Sample No.: 14 A/S Pos: 0
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

000140

Data: Reprocessed

Date: 10/13/04 3:52:06 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	106717.2	1.088	µg/L		
Sc 361.383	472465.2	1.075	µg/L		
Al 308.215	25594.6	10.9148	µg/L		
Sb 206.836	74.0	4.06091	µg/L		
As 188.979	-9.4	2.96221	µg/L		
Ba 233.527	1386.3	10.6206	µg/L		
Be 313.107	9526.0	0.163778	µg/L		
Cd 226.502	-251.2	1.90686	µg/L		
Ca 430.253	561.1	391.046	µg/L		
Cr 205.560	8.8	1.18470	µg/L		
Co 228.616	99.6	2.48587	µg/L		
Cu 324.752	10194.7	0.294096	µg/L		
Fe 273.955	2658.4	95.5802	µg/L		
Pb 220.353	23.1	-0.203455	µg/L		
Mg 279.077	1218.2	45.0621	µg/L		
Mn 257.610	2394.4	4.58154	µg/L		
Ni 231.604	164.9	2.06815	µg/L		
K 766.490	160820.7	32.3437	µg/L		
Se 196.026	1.0	3.95094	µg/L		
Ag 338.289	196.0	1.90679	µg/L		
Na 330.237	-645.1	557.768	µg/L		
Tl 190.801	-29.7	6.02272	µg/L		
V 292.402	158.0	2.52595	µg/L		
Zn 206.200	142.8	1.75465	µg/L		
B 249.677	225.9	0.737130	µg/L		
Mo 202.031	28.0	3.79469	µg/L		
Ca 227.546	55.0	243.281	µg/L		
Na 589.592	15496.3	105.897	µg/L		

Mean Data

ID: 241225-012S

Sample Qty: 1.0000 L

Seq. No.: 36

Sample No.: 0

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:52:24 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	139505.8	1.422	µg/L		
Sc 361.383	511753.8	1.164	µg/L		
Al 308.215	1142210.1	35700.3	µg/L	35700.3	µg/L
Sb 206.836	59.4	-2.12367	µg/L	-2.12367	µg/L
As 188.979	17.7	18.2876	µg/L	18.2876	µg/L
Ba 233.527	18916.8	131.611	µg/L	131.611	µg/L
Be 313.107	12679.5	1.25192	µg/L	1.25192	µg/L
Cd 226.502	-185.5	-2.69662	µg/L	-2.69662	µg/L
Ca 430.253	242103.5	34864.4	µg/L	34864.4	µg/L
Cr 205.560	1081.0	51.6454	µg/L	51.6454	µg/L
Co 228.616	1948.4	60.8843	µg/L	60.8843	µg/L
Cu 324.752	47510.6	83.6162	µg/L	83.6162	µg/L
Fe 273.955	2524814.1	90049.4	µg/L	90049.4	µg/L
Pb 220.353	307.3	44.5203	µg/L	44.5203	µg/L
Mg 279.077	374010.7	18111.2	µg/L	18111.2	µg/L
Mn 257.610	1042699.4	2750.92	µg/L	2750.92	µg/L
Ni 231.604	2176.2	76.9454	µg/L	76.9454	µg/L
K 766.490	981129.0	2259.54	µg/L	2259.54	µg/L
Se 196.026	-14.8	17.1903	µg/L	17.1903	µg/L
Ag 338.289	186.3	1.80163	µg/L	1.80163	µg/L
Na 330.237	767.2	1508.66	µg/L	1508.66	µg/L
Tl 190.801	-43.2	-1.98112	µg/L	-1.98112	µg/L
V 292.402	3040.8	51.2600	µg/L	51.2600	µg/L
Zn 206.200	6726.7	241.972	µg/L	241.972	µg/L
B 249.677	189.6	-0.761624	µg/L	-0.761624	µg/L
Mo 202.031	7.0	0.863740	µg/L	0.863740	µg/L
Ca 227.546	4934.3	36346.0	µg/L	36346.0	µg/L
Na 589.592	66644.4	322.815	µg/L	322.815	µg/L

Mean Data

ID: 241225-014S

Sample Qty: 1.0000 L

Seq. No.: 37

Sample No.: 0

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:52:42 PM

000141

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	141527.6	1.443	µg/L		
Sc 361.383	505132.9	1.149	µg/L		
Al 308.215	908659.8	28237.1	µg/L	28237.1	µg/L
Sb 206.836	58.7	-1.53951	µg/L	-1.53951	µg/L
As 188.979	6.2	11.6698	µg/L	11.6698	µg/L
Ba 233.527	19341.8	134.545	µg/L	134.545	µg/L
Be 313.107	11864.3	0.961681	µg/L	0.961681	µg/L
Cd 226.502	-214.1	-1.91518	µg/L	-1.91518	µg/L
Ca 430.253	123928.1	17988.4	µg/L	17988.4	µg/L
Cr 205.560	800.2	38.4313	µg/L	38.4313	µg/L
Co 228.616	1013.9	31.3648	µg/L	31.3648	µg/L
Cu 324.752	41233.6	69.6005	µg/L	69.6005	µg/L
Fe 273.955	1917186.5	68378.0	µg/L	68378.0	µg/L
Pb 220.353	227.8	31.9891	µg/L	31.9891	µg/L
Mg 279.077	273074.3	13219.6	µg/L	13219.6	µg/L
Mn 257.610	831127.8	2192.41	µg/L	2192.41	µg/L
Ni 231.604	1726.5	60.1993	µg/L	60.1993	µg/L
K 766.490	857492.9	1923.86	µg/L	1923.86	µg/L
Se 196.026	-8.6	16.3581	µg/L	16.3581	µg/L
Ag 338.289	71.9	0.558984	µg/L	0.558984	µg/L
Na 330.237	410.5	1284.78	µg/L	1284.78	µg/L
Tl 190.801	-42.6	-2.47665	µg/L	-2.47665	µg/L
V 292.402	2484.1	41.8502	µg/L	41.8502	µg/L
Zn 206.200	5878.5	211.210	µg/L	211.210	µg/L
B 249.677	216.2	0.315788	µg/L	0.315788	µg/L
Mo 202.031	4.3	0.487229	µg/L	0.487229	µg/L
Ca 227.546	2523.8	18853.7	µg/L	18853.7	µg/L
Na 589.592	45141.1	231.620	µg/L	231.620	µg/L

Mean Data

ID: 241225-016S

Sample Qty: 1.0000 L

Seq. No.: 38

Sample No.: 0

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:53:01 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	144120.2	1.469	µg/L		
Sc 361.383	503862.8	1.146	µg/L		
Al 308.215	1178966.4	36875.8	µg/L	36875.8	µg/L
Sb 206.836	53.0	-3.99035	µg/L	-3.99035	µg/L
As 188.979	7.0	12.3577	µg/L	12.3577	µg/L
Ba 233.527	23034.3	160.030	µg/L	160.030	µg/L
Be 313.107	12552.5	1.19466	µg/L	1.19466	µg/L
Cd 226.502	-191.4	-2.44567	µg/L	-2.44567	µg/L
Ca 430.253	219851.9	31684.2	µg/L	31684.2	µg/L
Cr 205.560	1304.4	62.1626	µg/L	62.1626	µg/L
Co 228.616	1182.1	36.6793	µg/L	36.6793	µg/L
Cu 324.752	47477.2	83.5417	µg/L	83.5417	µg/L
Fe 273.955	2363992.2	84313.3	µg/L	84313.3	µg/L
Pb 220.353	1455.6	219.071	µg/L	219.071	µg/L
Mg 279.077	364497.1	17650.1	µg/L	17650.1	µg/L
Mn 257.610	858033.8	2263.37	µg/L	2263.37	µg/L
Ni 231.604	2102.4	74.1912	µg/L	74.1912	µg/L
K 766.490	1125121.3	2650.49	µg/L	2650.49	µg/L
Se 196.026	-14.3	16.1138	µg/L	16.1138	µg/L
Ag 338.289	121.1	1.09338	µg/L	1.09338	µg/L
Na 330.237	753.4	1520.11	µg/L	1520.11	µg/L
Tl 190.801	-46.6	-4.62393	µg/L	-4.62393	µg/L
V 292.402	3207.5	54.0779	µg/L	54.0779	µg/L
Zn 206.200	7103.2	255.788	µg/L	255.788	µg/L
B 249.677	202.7	-0.213805	µg/L	-0.213805	µg/L
Mo 202.031	11.8	1.53663	µg/L	1.53663	µg/L
Ca 227.546	4504.9	33204.6	µg/L	33204.6	µg/L
Na 589.592	68518.6	330.763	µg/L	330.763	µg/L

Mean Data

ID: 241225-018S

Sample Qty: 1.0000 L

Seq. No.: 39

Sample No.: 0

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:53:19 PM

000142

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	138301.5	1.410	µg/L		
Sc 361.383	492937.9	1.121	µg/L		
Al 308.215	1235036.7	38664.8	µg/L	38664.8	µg/L
Sb 206.836	52.4	-5.18744	µg/L	-5.18744	µg/L
As 188.979	8.2	13.4592	µg/L	13.4592	µg/L
Ba 233.527	19116.0	132.987	µg/L	132.987	µg/L
Be 313.107	13030.0	1.37017	µg/L	1.37017	µg/L
Cd 226.502	-213.6	-3.45148	µg/L	-3.45148	µg/L
Ca 430.253	363483.0	52202.7	µg/L	52202.7	µg/L
Cr 205.560	1197.6	57.1345	µg/L	57.1345	µg/L
Co 228.616	2484.2	77.8071	µg/L	77.8071	µg/L
Cu 324.752	51824.8	93.2494	µg/L	93.2494	µg/L
Fe 273.955	2537644.4	90506.7	µg/L	90506.7	µg/L
Pb 220.353	525.0	78.1907	µg/L	78.1907	µg/L
Mg 279.077	431805.3	20912.0	µg/L	20912.0	µg/L
Mn 257.610	1038790.0	2740.56	µg/L	2740.56	µg/L
Ni 231.604	2391.9	84.9768	µg/L	84.9768	µg/L
K 766.490	1168532.5	2768.35	µg/L	2768.35	µg/L
Se 196.026	-9.0	21.0176	µg/L	21.0176	µg/L
Ag 338.289	144.5	1.34751	µg/L	1.34751	µg/L
Na 330.237	1025.0	1670.03	µg/L	1670.03	µg/L
Tl 190.801	-47.9	-4.48334	µg/L	-4.48334	µg/L
V 292.402	3418.1	57.6396	µg/L	57.6396	µg/L
Zn 206.200	7996.5	288.469	µg/L	288.469	µg/L
B 249.677	222.4	0.475425	µg/L	0.475425	µg/L
Mo 202.031	9.8	1.25202	µg/L	1.25202	µg/L
Ca 227.546	7353.2	53579.8	µg/L	53579.8	µg/L
Na 589.592	63798.7	310.746	µg/L	310.746	µg/L

Mean Data

ID: 241225-020S

Sample Qty: 1.0000 L

Seq. No.: 40

Sample No.: 0

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Reprocessed

Date: 10/13/04 3:53:38 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	140977.5	1.437	µg/L		
Sc 361.383	500391.6	1.138	µg/L		
Al 308.215	1127227.8	35223.0	µg/L	35223.0	µg/L
Sb 206.836	55.3	-2.90129	µg/L	-2.90129	µg/L
As 188.979	16.2	17.2580	µg/L	17.2580	µg/L
Ba 233.527	21281.4	147.932	µg/L	147.932	µg/L
Be 313.107	12617.6	1.22841	µg/L	1.22841	µg/L
Cd 226.502	-207.7	-2.89829	µg/L	-2.89829	µg/L
Ca 430.253	171342.8	24755.5	µg/L	24755.5	µg/L
Cr 205.560	1150.6	54.9246	µg/L	54.9246	µg/L
Co 228.616	1916.9	59.8900	µg/L	59.8900	µg/L
Cu 324.752	43714.2	75.1393	µg/L	75.1393	µg/L
Fe 273.955	2376561.0	84761.8	µg/L	84761.8	µg/L
Pb 220.353	316.5	45.8309	µg/L	45.8309	µg/L
Mg 279.077	356830.7	17278.6	µg/L	17278.6	µg/L
Mn 257.610	964396.1	2544.20	µg/L	2544.20	µg/L
Ni 231.604	2205.6	78.0389	µg/L	78.0389	µg/L
K 766.490	1121856.4	2641.62	µg/L	2641.62	µg/L
Se 196.026	-10.4	19.7136	µg/L	19.7136	µg/L
Ag 338.289	89.9	0.754379	µg/L	0.754379	µg/L
Na 330.237	598.0	1405.94	µg/L	1405.94	µg/L
Tl 190.801	-42.2	-1.81332	µg/L	-1.81332	µg/L
V 292.402	3029.5	51.0690	µg/L	51.0690	µg/L
Zn 206.200	6539.1	235.119	µg/L	235.119	µg/L
B 249.677	183.1	-1.01134	µg/L	-1.01134	µg/L
Mo 202.031	-4.7	-0.761001	µg/L	-0.761001	µg/L
Ca 227.546	3466.2	25809.1	µg/L	25809.1	µg/L
Na 589.592	48280.3	244.933	µg/L	244.933	µg/L

Mean Data

ID: 241150-001S

Sample Qty: 1.0000 L

Seq. No.: 41

Sample No.: 0

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Reprocessed

Date: 10/13/04 3:53:57 PM

Mean Corr.	Mean	Calib	Mean	Sample
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000143

Element	Intensity	Conc.	Units	Conc.	Units
Y 360.073	104274.9	1.063	µg/L		
Sc 361.383	469323.5	1.067	µg/L		
Al 308.215	48413.0	736.884	µg/L	736.884	µg/L
Sb 206.836	53.0	-3.64217	µg/L	-3.64217	µg/L
As 188.979	-14.1	0.765585	µg/L	0.765585	µg/L
Ba 233.527	11223.4	78.5138	µg/L	78.5138	µg/L
Be 313.107	9165.9	0.0148400	µg/L	0.0148400	µg/L
Cd 226.502	-254.5	1.18143	µg/L	1.18143	µg/L
Ca 430.253	145828.6	21144.4	µg/L	21144.4	µg/L
Cr 205.560	312.5	15.4780	µg/L	15.4780	µg/L
Co 228.616	111.8	2.87061	µg/L	2.87061	µg/L
Cu 324.752	117166.0	239.149	µg/L	239.149	µg/L
Fe 273.955	259611.4	9260.02	µg/L	9260.02	µg/L
Pb 220.353	208.6	28.1202	µg/L	28.1202	µg/L
Mg 279.077	116099.3	5612.38	µg/L	5612.38	µg/L
Mn 257.610	108918.5	285.738	µg/L	285.738	µg/L
Ni 231.604	1258.1	42.7578	µg/L	42.7578	µg/L
K 766.490	2582262.3	6606.72	µg/L	6606.72	µg/L
Se 196.026	4.1	8.20032	µg/L	8.20032	µg/L
Ag 338.289	96.2	0.823746	µg/L	0.823746	µg/L
Na 330.237	12040.0	10541.8	µg/L	10541.8	µg/L
Tl 190.801	-51.2	-8.69243	µg/L	-8.69243	µg/L
V 292.402	348.5	5.74742	µg/L	5.74742	µg/L
Zn 206.200	11641.2	424.332	µg/L	424.332	µg/L
B 249.677	12313.0	466.522	µg/L	466.522	µg/L
Mo 202.031	223.3	30.9785	µg/L	30.9785	µg/L
Ca 227.546	3016.0	21472.3	µg/L	21472.3	µg/L
Na 589.592	3108652.9	13223.9	µg/L	13223.9	µg/L

Mean Data

ID: 241171-001S

Sample Qty: 1.0000 L

Seq. No.: 42

Sample No.: 0

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Reprocessed

Date: 10/13/04 3:54:16 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	140833.7	1.436	µg/L		
Sc 361.383	507416.0	1.154	µg/L		
Al 308.215	1954945.2	61681.4	µg/L	61681.4	µg/L
Sb 206.836	44.7	-5.44095	µg/L	-5.44095	µg/L
As 188.979	19.0	18.2595	µg/L	18.2595	µg/L
Ba 233.527	100185.2	692.507	µg/L	692.507	µg/L
Be 313.107	12921.8	0.929394	µg/L	0.929394	µg/L
Cd 226.502	-213.3	-5.07437	µg/L	-5.07437	µg/L
Ca 430.253	135667.6	19632.5	µg/L	19632.5	µg/L
Cr 205.560	4647.3	219.494	µg/L	219.494	µg/L
Co 228.616	1946.2	60.8134	µg/L	60.8134	µg/L
Cu 324.752	162854.9	341.167	µg/L	341.167	µg/L
Fe 273.955	3191005.3	113802	µg/L	113802	µg/L
Pb 220.353	466.3	70.5214	µg/L	70.5214	µg/L
Mg 279.077	764287.2	37024.6	µg/L	37024.6	µg/L
Mn 257.610	527902.0	1391.44	µg/L	1391.44	µg/L
Ni 231.604	5090.6	185.421	µg/L	185.421	µg/L
K 766.490	8099719.8	21587.0	µg/L	21587.0	µg/L
Se 196.026	-18.9	23.2433	µg/L	23.2433	µg/L
Ag 338.289	-1919.3	-21.0546	µg/L	-21.0546	µg/L
Na 330.237	-1406.6	-134.229	µg/L	-134.229	µg/L
Tl 190.801	-109.3	-51.9057	µg/L	-51.9057	µg/L
V 292.402	11816.3	199.611	µg/L	199.611	µg/L
Zn 206.200	7976.4	286.395	µg/L	286.395	µg/L
B 249.677	211.7	0.0929877	µg/L	0.0929877	µg/L
Mo 202.031	18.3	2.43865	µg/L	2.43865	µg/L
Ca 227.546	2704.8	20824.1	µg/L	20824.1	µg/L
Na 589.592	240113.6	1058.49	µg/L	1058.49	µg/L

Mean Data

ID: CRIM03ICRI001

Sample Qty: 1.0000 g

Seq. No.: 43

Sample No.: 6

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Reprocessed

Date: 10/13/04 3:54:35 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
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000144

Y 360.073	107833.6	1.100	µg/L
Sc 361.383	475429.4	1.081	µg/L
Al 308.215	28746.8	109.642	µg/L
Sb 206.836	443.3	121.977	µg/L
As 188.979	22.8	20.5392	µg/L
Ba 233.527	212.2	2.51702	µg/L
Be 313.107	35532.4	9.98390	µg/L
Cd 226.502	117.3	11.3879	µg/L
Ca 430.253	907.8	440.491	µg/L
Cr 205.560	451.1	21.9988	µg/L
Co 228.616	3421.5	107.416	µg/L
Cu 324.752	32866.1	50.9167	µg/L
Fe 273.955	10674.8	376.139	µg/L
Pb 220.353	51.2	4.05632	µg/L
Mg 279.077	2456.9	105.092	µg/L
Mn 257.610	15229.6	38.4684	µg/L
Ni 231.604	2467.3	87.7898	µg/L
K 766.490	169986.3	57.2290	µg/L
Se 196.026	11.9	13.0321	µg/L
Ag 338.289	1936.3	20.7965	µg/L
Na 330.237	-464.5	699.615	µg/L
Tl 190.801	-8.9	21.4017	µg/L
V 292.402	6109.0	103.129	µg/L
Zn 206.200	1260.3	42.8402	µg/L
B 249.677	230.7	0.742173	µg/L
Mo 202.031	2.5	0.241892	µg/L
Ca 227.546	71.0	346.858	µg/L
Na 589.592	25376.3	147.798	µg/L

Mean Data

ID: ISAM03ISA002

Sample Qty: 1.0000 g

Seq. No.: 44

Sample No.: 7

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:54:55 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	90475.2	0.923	µg/L		
Sc 361.383	416630.7	0.948	µg/L		
Al 308.215	16080677.1	513170	µg/L		
Sb 206.836	77.7	-22.5097	µg/L		
As 188.979	-43.7	-7.03283	µg/L		
Ba 233.527	958.9	7.67059	µg/L		
Be 313.107	9730.8	0.246247	µg/L		
Cd 226.502	-66.5	-6.53562	µg/L		
Ca 430.253	3888619.4	555363	µg/L		
Cr 205.560	23.6	1.88182	µg/L		
Co 228.616	102.9	2.58809	µg/L		
Cu 324.752	8627.8	-3.20447	µg/L		
Fe 273.955	5291383.3	188726	µg/L		
Pb 220.353	-330.7	3.85907	µg/L		
Mg 279.077	10307603.6	499509	µg/L		
Mn 257.610	6775.9	8.01022	µg/L		
Ni 231.604	13.9	-3.55034	µg/L		
K 766.490	194125.1	122.767	µg/L		
Se 196.026	-32.8	-2.61494	µg/L		
Ag 338.289	419.6	4.33323	µg/L		
Na 330.237	587.5	155.125	µg/L		
Tl 190.801	-82.3	0.309319	µg/L		
V 292.402	96.6	1.48873	µg/L		
Zn 206.200	875.2	-5.22451	µg/L		
B 249.677	122.3	-3.25621	µg/L		
Mo 202.031	-1.7	-0.343813	µg/L		
Ca 227.546	76388.0	546793	µg/L		
Na 589.592	59270.3	291.541	µg/L		

Mean Data

ID: ISBM03ISR002

Sample Qty: 1.0000 g

Seq. No.: 45

Sample No.: 9

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:55:14 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	91329.9	0.931	µg/L		

000145

Sc 361.383	420650.5	0.957	µg/L
Al 308.215	16277468.1	519451	µg/L
Sb 206.836	2187.9	651.121	µg/L
As 188.979	152.8	99.6014	µg/L
Ba 233.527	78236.8	541.024	µg/L
Be 313.107	1271953.2	489.149	µg/L
Cd 226.502	36055.7	924.774	µg/L
Ca 430.253	3861512.6	551484	µg/L
Cr 205.560	10575.0	498.480	µg/L
Co 228.616	15194.1	479.283	µg/L
Cu 324.752	255373.7	547.750	µg/L
Fe 273.955	5310889.8	189395	µg/L
Pb 220.353	-31.7	49.6182	µg/L
Mg 279.077	10315535.0	499893	µg/L
Mn 257.610	195601.0	506.544	µg/L
Ni 231.604	25527.6	946.202	µg/L
K 766.490	184812.2	97.4824	µg/L
Se 196.026	30.8	49.9412	µg/L
Ag 338.289	20566.2	223.019	µg/L
Na 330.237	3004.6	2063.70	µg/L
Tl 190.801	41.7	91.6126	µg/L
V 292.402	30248.9	511.217	µg/L
Zn 206.200	26111.4	922.412	µg/L
B 249.677	77.8	-5.78069	µg/L
Mo 202.031	-5.1	-0.812039	µg/L
Ca 227.546	76569.0	548027	µg/L
Na 589.592	42489.6	220.375	µg/L

Mean Data

ID: CCVM03AGCCV03

Seq. No.: 46

Sample No.: 11

A/S Pos: 0

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:55:35 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107421.6	1.095	µg/L		
Sc 361.383	473072.6	1.076	µg/L		
Al 308.215	64307.6	1248.44	µg/L		
Sb 206.836	53.0	-2.71302	µg/L		
As 188.979	-10.5	2.42806	µg/L		
Ba 233.527	118.4	1.86958	µg/L		
Be 313.107	11597.6	0.988633	µg/L		
Cd 226.502	-200.8	3.16615	µg/L		
Ca 430.253	8883.9	1578.89	µg/L		
Cr 205.560	20.9	1.75398	µg/L		
Co 228.616	-17.6	-1.21594	µg/L		
Cu 324.752	145469.5	302.347	µg/L		
Fe 273.955	18592.3	664.267	µg/L		
Pb 220.353	-12.0	-5.46770	µg/L		
Mg 279.077	30455.9	1461.97	µg/L		
Mn 257.610	1631.0	2.54286	µg/L		
Ni 231.604	125.9	0.615712	µg/L		
K 766.490	153899.5	13.5523	µg/L		
Se 196.026	0.0	3.21524	µg/L		
Ag 338.289	27787.9	301.409	µg/L		
Na 330.237	-557.7	624.123	µg/L		
Tl 190.801	374.2	306.163	µg/L		
V 292.402	-265.4	-4.63022	µg/L		
Zn 206.200	150.5	1.95195	µg/L		
B 249.677	27152.2	1038.37	µg/L		
Mo 202.031	7399.2	1029.98	µg/L		
Ca 227.546	231.1	1506.43	µg/L		
Na 589.592	14265.8	100.678	µg/L		

Mean Data

ID: CCVM03IRECCV02

Seq. No.: 47

Sample No.: 12

A/S Pos: 0

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:55:55 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	103476.0	1.055	µg/L		
Sc 361.383	468193.4	1.065	µg/L		

000146

Al 308.215	353589.9	10441.1	µg/L
Sb 206.836	1699.4	529.825	µg/L
As 188.979	-14.7	-2.89871	µg/L
Ba 233.527	1499567.1	10350.7	µg/L
Be 313.107	648974.1	241.457	µg/L
Cd 226.502	-208.3	2.65584	µg/L
Ca 430.253	172891.5	25001.2	µg/L
Cr 205.560	21419.3	1008.86	µg/L
Co 228.616	78789.2	2488.09	µg/L
Cu 324.752	557996.5	1223.47	µg/L
Fe 273.955	149211.2	5187.76	µg/L
Pb 220.353	14.2	-0.573326	µg/L
Mg 279.077	528304.0	25588.5	µg/L
Mn 257.610	945177.4	2493.32	µg/L
Ni 231.604	67767.0	2518.83	µg/L
K 766.490	10389699.8	27804.4	µg/L
Se 196.026	-0.2	4.70349	µg/L
Ag 338.289	69802.1	757.460	µg/L
Na 330.237	28488.2	23490.0	µg/L
Tl 190.801	-24.1	8.60270	µg/L
V 292.402	149947.6	2534.74	µg/L
Zn 206.200	67588.8	2480.45	µg/L
B 249.677	427.3	4.26898	µg/L
Mo 202.031	3542.9	493.125	µg/L
Ca 227.546	3531.6	24742.9	µg/L
Na 589.592	6998656.9	29721.3	µg/L

Mean Data -----
 ID: CCVM02ISBCCV1 Seq. No.: 48 Sample No.: 13 A/S Pos: 0
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Date: Reprocessed Date: 10/13/04 3:56:15 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108575.4	1.107	µg/L		
Sc 361.383	485263.5	1.104	µg/L		
Al 308.215	37074.7	377.832	µg/L		
Sb 206.836	1667.4	511.080	µg/L		
As 188.979	1842.3	1007.28	µg/L		
Ba 233.527	3333.5	24.0598	µg/L		
Be 313.107	10947.5	0.713757	µg/L		
Cd 226.502	19317.7	506.452	µg/L		
Ca 430.253	3241.4	773.618	µg/L		
Cr 205.560	45.3	2.90302	µg/L		
Co 228.616	174.9	4.86312	µg/L		
Cu 324.752	10776.9	1.59420	µg/L		
Fe 273.955	6494.7	232.364	µg/L		
Pb 220.353	6686.4	1011.18	µg/L		
Mg 279.077	10869.1	512.760	µg/L		
Mn 257.610	3338.8	7.06728	µg/L		
Ni 231.604	233.5	4.62128	µg/L		
K 766.490	165705.7	45.6069	µg/L		
Se 196.026	1266.5	1038.62	µg/L		
Ag 338.289	879.4	9.32507	µg/L		
Na 330.237	-789.8	442.204	µg/L		
Tl 190.801	1287.4	984.579	µg/L		
V 292.402	204.7	3.31518	µg/L		
Zn 206.200	241.0	5.33762	µg/L		
B 249.677	279.0	2.77926	µg/L		
Mo 202.031	3606.6	501.980	µg/L		
Ca 227.546	109.4	632.433	µg/L		
Na 589.592	23192.4	138.536	µg/L		

Mean Data -----
 ID: CCB Seq. No.: 49 Sample No.: 14 A/S Pos: 0
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Date: Reprocessed Date: 10/13/04 3:56:36 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108193.9	1.103	µg/L		
Sc 361.383	476376.6	1.083	µg/L		
Al 308.215	31992.8	215.412	µg/L		

000147

Sb 206.836	78.5	5.49133	µg/L
As 188.979	-10.1	2.61942	µg/L
Ba 233.527	1400.5	10.7181	µg/L
Be 313.107	10127.4	0.396792	µg/L
Cd 226.502	-239.4	2.20674	µg/L
Ca 430.253	2023.4	599.759	µg/L
Cr 205.560	11.7	1.32120	µg/L
Co 228.616	100.2	2.50308	µg/L
Cu 324.752	10100.6	0.0840477	µg/L
Fe 273.955	4019.8	144.125	µg/L
Pb 220.353	9.6	-2.23292	µg/L
Mg 279.077	6614.0	306.548	µg/L
Mn 257.610	1829.3	3.08532	µg/L
Ni 231.604	167.8	2.17839	µg/L
K 766.490	158076.4	24.8926	µg/L
Se 196.026	2.9	5.44160	µg/L
Ag 338.289	338.2	3.45045	µg/L
Na 330.237	-627.7	571.103	µg/L
Tl 190.801	-29.2	6.44896	µg/L
V 292.402	170.4	2.73690	µg/L
Zn 206.200	127.3	1.17100	µg/L
B 249.677	218.5	0.453743	µg/L
Mo 202.031	26.7	3.61285	µg/L
Ca 227.546	93.1	515.170	µg/L
Na 589.592	16975.0	112.168	µg/L

Mean Data

ID: 241171-002S

Seq. No.: 50

Sample No.: 0

A/S Pos: 0

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:56:57 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	132862.5	1.355	µg/L		
Sc 361.383	511886.6	1.164	µg/L		
Al 308.215	1527700.0	48022.6	µg/L	48022.6	µg/L
Sb 206.836	56.9	-2.09547	µg/L	-2.09547	µg/L
As 188.979	-5.5	5.18111	µg/L	5.18111	µg/L
Ba 233.527	87463.4	604.703	µg/L	604.703	µg/L
Be 313.107	12422.0	0.831359	µg/L	0.831359	µg/L
Cd 226.502	-181.7	-2.24050	µg/L	-2.24050	µg/L
Ca 430.253	188642.9	27214.5	µg/L	27214.5	µg/L
Cr 205.560	3967.5	187.498	µg/L	187.498	µg/L
Co 228.616	1634.6	50.9724	µg/L	50.9724	µg/L
Cu 324.752	97376.9	194.962	µg/L	194.962	µg/L
Fe 273.955	2381944.9	84947.7	µg/L	84947.7	µg/L
Pb 220.353	500.3	75.2334	µg/L	75.2334	µg/L
Mg 279.077	823408.9	39889.7	µg/L	39889.7	µg/L
Mn 257.610	484789.3	1277.56	µg/L	1277.56	µg/L
Ni 231.604	3886.3	140.596	µg/L	140.596	µg/L
K 766.490	7393076.6	19668.4	µg/L	19668.4	µg/L
Se 196.026	-11.2	19.7138	µg/L	19.7138	µg/L
Ag 338.289	-1470.4	-16.1814	µg/L	-16.1814	µg/L
Na 330.237	-1069.1	117.576	µg/L	117.576	µg/L
Tl 190.801	-94.9	-40.7836	µg/L	-40.7836	µg/L
V 292.402	9791.9	165.389	µg/L	165.389	µg/L
Zn 206.200	7216.1	258.861	µg/L	258.861	µg/L
B 249.677	204.1	-0.185201	µg/L	-0.185201	µg/L
Mo 202.031	20.9	2.79961	µg/L	2.79961	µg/L
Ca 227.546	3841.7	28488.3	µg/L	28488.3	µg/L
Na 589.592	191664.1	853.019	µg/L	853.019	µg/L

Mean Data

ID: 241171-003S

Seq. No.: 51

Sample No.: 0

A/S Pos: 0

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:57:17 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	137039.4	1.397	µg/L		
Sc 361.383	511677.1	1.164	µg/L		
Al 308.215	1654375.0	52070.3	µg/L	52070.3	µg/L
Sb 206.836	49.4	-5.00238	µg/L	-5.00238	µg/L

000148

As 188.979	-6.0	5.05663	µg/L	5.05663	µg/L
Ba 233.527	90478.0	625.510	µg/L	625.510	µg/L
Be 313.107	12333.8	0.786124	µg/L	0.786124	µg/L
Cd 226.502	-193.2	-2.37356	µg/L	-2.37356	µg/L
Ca 430.253	263966.2	37971.8	µg/L	37971.8	µg/L
Cr 205.560	3992.9	188.696	µg/L	188.696	µg/L
Co 228.616	1493.6	46.5183	µg/L	46.5183	µg/L
Cu 324.752	71417.8	136.998	µg/L	136.998	µg/L
Fe 273.955	2315955.1	82593.9	µg/L	82593.9	µg/L
Pb 220.353	497.2	75.4541	µg/L	75.4541	µg/L
Mg 279.077	879880.9	42626.5	µg/L	42626.5	µg/L
Mn 257.610	463522.9	1221.37	µg/L	1221.37	µg/L
Ni 231.604	3396.3	122.356	µg/L	122.356	µg/L
K 766.490	7749827.3	20637.0	µg/L	20637.0	µg/L
Se 196.026	-11.9	17.5820	µg/L	17.5820	µg/L
Ag 338.289	-1643.1	-18.0561	µg/L	-18.0561	µg/L
Na 330.237	-925.5	206.153	µg/L	206.153	µg/L
Tl 190.801	-99.5	-43.5441	µg/L	-43.5441	µg/L
V 292.402	10022.8	169.293	µg/L	169.293	µg/L
Zn 206.200	7165.2	256.757	µg/L	256.757	µg/L
B 249.677	211.5	0.107245	µg/L	0.107245	µg/L
Mo 202.031	18.4	2.45639	µg/L	2.45639	µg/L
Ca 227.546	5408.2	39611.0	µg/L	39611.0	µg/L
Na 589.592	226162.0	999.324	µg/L	999.324	µg/L

Mean Data

ID: 241171-004S

Sample Qty: 1.0000 L

Seq. No.: 52

Sample No.: 0

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:57:39 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	125784.1	1.283	µg/L		
Sc 361.383	498614.7	1.134	µg/L		
Al 308.215	1126984.5	35208.0	µg/L	35208.0	µg/L
Sb 206.836	51.7	-5.47106	µg/L	-5.47106	µg/L
As 188.979	42.8	32.0912	µg/L	32.0912	µg/L
Ba 233.527	72173.7	499.178	µg/L	499.178	µg/L
Be 313.107	13481.9	1.35049	µg/L	1.35049	µg/L
Cd 226.502	-82.6	1.18028	µg/L	1.18028	µg/L
Ca 430.253	412827.9	59255.9	µg/L	59255.9	µg/L
Cr 205.560	2764.8	130.893	µg/L	130.893	µg/L
Co 228.616	1097.6	34.0098	µg/L	34.0098	µg/L
Cu 324.752	68593.5	130.692	µg/L	130.692	µg/L
Fe 273.955	2034814.6	72568.8	µg/L	72568.8	µg/L
Pb 220.353	1594.5	241.051	µg/L	241.051	µg/L
Mg 279.077	743074.1	35996.6	µg/L	35996.6	µg/L
Mn 257.610	333191.9	877.375	µg/L	877.375	µg/L
Ni 231.604	2887.4	103.409	µg/L	103.409	µg/L
K 766.490	4980361.9	13117.7	µg/L	13117.7	µg/L
Se 196.026	-3.0	20.8103	µg/L	20.8103	µg/L
Ag 338.289	-1044.3	-11.5567	µg/L	-11.5567	µg/L
Na 330.237	-74.8	837.105	µg/L	837.105	µg/L
Tl 190.801	-88.8	-34.3100	µg/L	-34.3100	µg/L
V 292.402	7529.5	127.142	µg/L	127.142	µg/L
Zn 206.200	8850.0	319.523	µg/L	319.523	µg/L
B 249.677	393.3	7.13524	µg/L	7.13524	µg/L
Mo 202.031	39.0	5.32097	µg/L	5.32097	µg/L
Ca 227.546	8445.3	61094.2	µg/L	61094.2	µg/L
Na 589.592	185684.5	827.660	µg/L	827.660	µg/L

Mean Data

ID: 241197-001S

Sample Qty: 1.0000 L

Seq. No.: 53

Sample No.: 0

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:58:00 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107649.7	1.098	µg/L		
Sc 361.383	476912.4	1.085	µg/L		
Al 308.215	36993.0	375.227	µg/L	375.227	µg/L
Sb 206.836	54.1	-2.26626	µg/L	-2.26626	µg/L
As 188.979	-11.1	2.07805	µg/L	2.07805	µg/L

000149

Ba 233.527	1403.1	10.7362	µg/L	10.7362	µg/L
Be 313.107	9337.2	0.0879317	µg/L	0.0879317	µg/L
Cd 226.502	-277.1	1.10479	µg/L	1.10479	µg/L
Ca 430.253	2850.6	717.790	µg/L	717.790	µg/L
Cr 205.560	312.4	15.4743	µg/L	15.4743	µg/L
Co 228.616	154.6	4.22285	µg/L	4.22285	µg/L
Cu 324.752	14773.1	10.5173	µg/L	10.5173	µg/L
Fe 273.955	56601.0	2019.47	µg/L	2019.47	µg/L
Pb 220.353	241.6	32.9424	µg/L	32.9424	µg/L
Mg 279.077	7536.5	351.253	µg/L	351.253	µg/L
Mn 257.610	13603.3	34.1706	µg/L	34.1706	µg/L
Ni 231.604	391.2	10.4938	µg/L	10.4938	µg/L
K 766.490	223105.8	201.452	µg/L	201.452	µg/L
Se 196.026	0.8	4.39787	µg/L	4.39787	µg/L
Ag 338.289	128.7	1.17590	µg/L	1.17590	µg/L
Na 330.237	-269.5	853.468	µg/L	853.468	µg/L
Tl 190.801	-39.0	-0.872282	µg/L	-0.872282	µg/L
V 292.402	210.8	3.41989	µg/L	3.41989	µg/L
Zn 206.200	640.3	20.0244	µg/L	20.0244	µg/L
B 249.677	185.0	-0.841326	µg/L	-0.841326	µg/L
Mo 202.031	7.5	0.943996	µg/L	0.943996	µg/L
Ca 227.546	106.4	638.407	µg/L	638.407	µg/L
Na 589.592	28641.2	161.644	µg/L	161.644	µg/L

Mean Data

ID: 241197-001S MD

Seq. No.: 54

Sample No.: 0

A/S Pos: 0

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution: 1.0:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:58:22 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107329.3	1.094	µg/L		
Sc 361.383	478724.4	1.089	µg/L		
Al 308.215	30639.2	172.172	µg/L	172.172	µg/L
Sb 206.836	53.5	-2.47061	µg/L	-2.47061	µg/L
As 188.979	-15.0	-0.0422550	µg/L	-0.0422550	µg/L
Ba 233.527	841.6	6.86124	µg/L	6.86124	µg/L
Be 313.107	9095.1	-0.0009226	µg/L	-0.0009226	µg/L
Cd 226.502	-273.2	1.26988	µg/L	1.26988	µg/L
Ca 430.253	1734.0	558.458	µg/L	558.458	µg/L
Cr 205.560	161.4	8.36457	µg/L	8.36457	µg/L
Co 228.616	61.3	1.27512	µg/L	1.27512	µg/L
Cu 324.752	11194.1	2.52580	µg/L	2.52580	µg/L
Fe 273.955	30469.5	1087.56	µg/L	1087.56	µg/L
Pb 220.353	231.2	31.3728	µg/L	31.3728	µg/L
Mg 279.077	3554.6	158.286	µg/L	158.286	µg/L
Mn 257.610	3936.0	8.64990	µg/L	8.64990	µg/L
Ni 231.604	177.6	2.54227	µg/L	2.54227	µg/L
K 766.490	170946.2	59.8353	µg/L	59.8353	µg/L
Se 196.026	1.0	4.26892	µg/L	4.26892	µg/L
Ag 338.289	35.6	0.165534	µg/L	0.165534	µg/L
Na 330.237	-250.0	870.110	µg/L	870.110	µg/L
Tl 190.801	-40.6	-2.02506	µg/L	-2.02506	µg/L
V 292.402	101.1	1.56422	µg/L	1.56422	µg/L
Zn 206.200	661.2	20.8064	µg/L	20.8064	µg/L
B 249.677	162.6	-1.70101	µg/L	-1.70101	µg/L
Mo 202.031	3.9	0.432467	µg/L	0.432467	µg/L
Ca 227.546	80.3	438.931	µg/L	438.931	µg/L
Na 589.592	26627.2	153.103	µg/L	153.103	µg/L

Mean Data

ID: 241197-001S MS

Seq. No.: 55

Sample No.: 0

A/S Pos: 0

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution: 1.0:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:58:44 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	109116.9	1.113	µg/L		
Sc 361.383	489258.6	1.113	µg/L		
Al 308.215	85060.5	1903.08	µg/L	1903.08	µg/L
Sb 206.836	41.2	-4.70008	µg/L	-4.70008	µg/L
As 188.979	-16.2	-1.30763	µg/L	-1.30763	µg/L
Ba 233.527	275112.0	1899.81	µg/L	1899.81	µg/L

000150

Be 313.107	120245.4	41.9508	µg/L	41.9508	µg/L
Cd 226.502	-264.0	1.38350	µg/L	1.38350	µg/L
Ca 430.253	1907.8	581.577	µg/L	581.577	µg/L
Cr 205.560	4219.7	199.369	µg/L	199.369	µg/L
Co 228.616	14534.3	458.440	µg/L	458.440	µg/L
Cu 324.752	112993.9	229.833	µg/L	229.833	µg/L
Fe 273.955	80476.8	2847.89	µg/L	2847.89	µg/L
Pb 220.353	258.6	35.5743	µg/L	35.5743	µg/L
Mg 279.077	3398.2	150.706	µg/L	150.706	µg/L
Mn 257.610	186414.1	490.433	µg/L	490.433	µg/L
Ni 231.604	12853.4	474.448	µg/L	474.448	µg/L
K 766.490	185109.9	98.2906	µg/L	98.2906	µg/L
Se 196.026	5.0	8.28844	µg/L	8.28844	µg/L
Ag 338.289	2124.6	22.8408	µg/L	22.8408	µg/L
Na 330.237	198.1	1210.46	µg/L	1210.46	µg/L
Tl 190.801	-61.1	-17.8201	µg/L	-17.8201	µg/L
V 292.402	25935.6	438.300	µg/L	438.300	µg/L
Zn 206.200	12548.1	457.797	µg/L	457.797	µg/L
B 249.677	21896.2	835.043	µg/L	835.043	µg/L
Mo 202.031	6095.6	848.487	µg/L	848.487	µg/L
Ca 227.546	93.7	498.176	µg/L	498.176	µg/L
Na 589.592	32485.3	177.947	µg/L	177.947	µg/L

Mean Data -----			
ID: 241197-001S MSF	Seq. No.: 56	Sample No.: 0	A/S Pos: 0
Sample Qty: 1.0000 L	Prep. Vol.: 1.0 L	Dilution:	1.0: 1.0
	Data: Reprocessed	Date: 10/13/04	3:59:06 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	109272.9	1.114	µg/L		
Sc 361.383	486891.6	1.107	µg/L		
Al 308.215	38332.1	418.046	µg/L	418.046	µg/L
Sb 206.836	350.1	91.9258	µg/L	91.9258	µg/L
As 188.979	58.0	39.5968	µg/L	39.5968	µg/L
Ba 233.527	5682.1	40.2693	µg/L	40.2693	µg/L
Be 313.107	9551.4	0.168689	µg/L	0.168689	µg/L
Cd 226.502	1566.1	48.5096	µg/L	48.5096	µg/L
Ca 430.253	1644.5	545.433	µg/L	545.433	µg/L
Cr 205.560	599.1	28.9648	µg/L	28.9648	µg/L
Co 228.616	2188.8	68.4782	µg/L	68.4782	µg/L
Cu 324.752	37592.3	61.4699	µg/L	61.4699	µg/L
Fe 273.955	104588.4	3730.97	µg/L	3730.97	µg/L
Pb 220.353	734.7	107.682	µg/L	107.682	µg/L
Mg 279.077	3095.2	136.022	µg/L	136.022	µg/L
Mn 257.610	154862.4	407.130	µg/L	407.130	µg/L
Ni 231.604	1290.8	43.9895	µg/L	43.9895	µg/L
K 766.490	180862.0	86.7572	µg/L	86.7572	µg/L
Se 196.026	10.7	12.8626	µg/L	12.8626	µg/L
Ag 338.289	268.9	2.69825	µg/L	2.69825	µg/L
Na 330.237	-191.7	904.438	µg/L	904.438	µg/L
Tl 190.801	13.5	38.0456	µg/L	38.0456	µg/L
V 292.402	261.9	4.28227	µg/L	4.28227	µg/L
Zn 206.200	1133.2	38.1515	µg/L	38.1515	µg/L
B 249.677	427.4	8.38961	µg/L	8.38961	µg/L
Mo 202.031	53.6	7.34977	µg/L	7.34977	µg/L
Ca 227.546	77.6	449.713	µg/L	449.713	µg/L
Na 589.592	31159.9	172.326	µg/L	172.326	µg/L

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Mean Data -----
ID: 241197-001S SD      Seq. No.: 57      Sample No.: 0      A/S Pos: 0
Sample Qty:      1.0000 L    Prep. Vol.:      1.0 L      Dilution:      1.0:      1.0
                        Data: Reprocessed      Date: 10/13/04      3:59:28 PM

```

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108536.5	1.107	µg/L		
Sc 361.383	482894.2	1.098	µg/L		
Al 308.215	25979.6	23.2516	µg/L	23.2516	µg/L
Sb 206.836	52.9	-2.63577	µg/L	-2.63577	µg/L
As 188.979	-13.8	0.620665	µg/L	0.620665	µg/L
Ba 233.527	390.2	3.74571	µg/L	3.74571	µg/L
Be 313.107	9115.5	0.0085599	µg/L	0.0085599	µg/L

000151

Cd 226.502	-272.1	1.34913	µg/L	1.34913	µg/L
Ca 430.253	602.8	396.997	µg/L	396.997	µg/L
Cr 205.560	57.1	3.45912	µg/L	3.45912	µg/L
Co 228.616	62.1	1.29999	µg/L	1.29999	µg/L
Cu 324.752	10479.0	0.929017	µg/L	0.929017	µg/L
Fe 273.955	10596.2	378.774	µg/L	378.774	µg/L
Pb 220.353	56.5	4.84573	µg/L	4.84573	µg/L
Mg 279.077	1544.6	60.8798	µg/L	60.8798	µg/L
Mn 257.610	3433.7	7.32521	µg/L	7.32521	µg/L
Ni 231.604	158.1	1.81743	µg/L	1.81743	µg/L
K 766.490	163008.7	38.2844	µg/L	38.2844	µg/L
Se 196.026	-1.1	2.33110	µg/L	2.33110	µg/L
Ag 338.289	70.9	0.548886	µg/L	0.548886	µg/L
Na 330.237	-400.5	751.337	µg/L	751.337	µg/L
Tl 190.801	-35.4	1.84145	µg/L	1.84145	µg/L
V 292.402	68.7	1.01703	µg/L	1.01703	µg/L
Zn 206.200	221.2	4.63657	µg/L	4.63657	µg/L
B 249.677	232.4	0.991479	µg/L	0.991479	µg/L
Mo 202.031	10.4	1.33628	µg/L	1.33628	µg/L
Ca 227.546	62.1	298.360	µg/L	298.360	µg/L
Na 589.592	25497.3	148.311	µg/L	148.311	µg/L

Mean Data

ID: 241197-0025

Sample Qty: 1.0000 L

Seq. No.: 58

Sample No.: 0

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

3:59:51 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108255.0	1.104	µg/L		
Sc 361.383	486111.5	1.106	µg/L		
Al 308.215	27091.8	58.7893	µg/L	58.7893	µg/L
Sb 206.836	54.5	-2.14471	µg/L	-2.14471	µg/L
As 188.979	-14.9	0.0043081	µg/L	0.0043081	µg/L
Ba 233.527	1648.2	12.4279	µg/L	12.4279	µg/L
Be 313.107	8998.9	-0.0365012	µg/L	-0.0365012	µg/L
Cd 226.502	-269.2	1.38602	µg/L	1.38602	µg/L
Ca 430.253	1397.4	510.482	µg/L	510.482	µg/L
Cr 205.560	174.3	8.97481	µg/L	8.97481	µg/L
Co 228.616	127.4	3.36164	µg/L	3.36164	µg/L
Cu 324.752	23630.7	30.2952	µg/L	30.2952	µg/L
Fe 273.955	25085.9	895.575	µg/L	895.575	µg/L
Pb 220.353	201.0	26.7681	µg/L	26.7681	µg/L
Mg 279.077	1609.7	64.0310	µg/L	64.0310	µg/L
Mn 257.610	11735.8	29.2446	µg/L	29.2446	µg/L
Ni 231.604	179.6	2.61700	µg/L	2.61700	µg/L
K 766.490	164309.3	41.8156	µg/L	41.8156	µg/L
Se 196.026	0.9	4.04914	µg/L	4.04914	µg/L
Ag 338.289	69.6	0.534601	µg/L	0.534601	µg/L
Na 330.237	-150.7	948.204	µg/L	948.204	µg/L
Tl 190.801	-39.2	-1.00410	µg/L	-1.00410	µg/L
V 292.402	63.8	0.934422	µg/L	0.934422	µg/L
Zn 206.200	932.6	30.7933	µg/L	30.7933	µg/L
B 249.677	211.2	0.167811	µg/L	0.167811	µg/L
Mo 202.031	7.3	0.904686	µg/L	0.904686	µg/L
Ca 227.546	75.9	403.925	µg/L	403.925	µg/L
Na 589.592	35202.6	189.471	µg/L	189.471	µg/L

Mean Data

ID: 241197-0035

Sample Qty: 1.0000 L

Seq. No.: 59

Sample No.: 0

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

4:00:13 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	102654.6	1.047	µg/L		
Sc 361.383	461124.7	1.049	µg/L		
Al 308.215	136608.5	3498.12	µg/L	3498.12	µg/L
Sb 206.836	82.2	-11.9741	µg/L	-11.9741	µg/L
As 188.979	-29.5	-0.593552	µg/L	-0.593552	µg/L
Ba 233.527	13718.5	95.7342	µg/L	95.7342	µg/L
Be 313.107	9322.8	0.0753308	µg/L	0.0753308	µg/L
Cd 226.502	-257.7	1.33609	µg/L	1.33609	µg/L

000152

Ca 430.253	2614771.4	373874	µg/L	373874	µg/L
Cr 205.560	15540.5	732.177	µg/L	732.177	µg/L
Co 228.616	209.4	5.95254	µg/L	5.95254	µg/L
Cu 324.752	12403.0	5.22512	µg/L	5.22512	µg/L
Fe 273.955	163631.8	5836.76	µg/L	5836.76	µg/L
Pb 220.353	27171.6	4128.02	µg/L	4128.02	µg/L
Mg 279.077	387349.3	18757.6	µg/L	18757.6	µg/L
Mn 257.610	32670.8	84.2129	µg/L	84.2129	µg/L
Ni 231.604	120.7	0.424166	µg/L	0.424166	µg/L
K 766.490	343467.8	528.243	µg/L	528.243	µg/L
Se 196.026	12.1	-7.41665	µg/L	-7.41665	µg/L
Ag 338.289	707.3	7.45641	µg/L	7.45641	µg/L
Na 330.237	20978.7	16749.1	µg/L	16749.1	µg/L
Tl 190.801	-71.4	-2.52221	µg/L	-2.52221	µg/L
V 292.402	357.8	5.90493	µg/L	5.90493	µg/L
Zn 206.200	216577.5	7958.90	µg/L	7958.90	µg/L
B 249.677	7166.0	268.174	µg/L	268.174	µg/L
Mo 202.031	46.1	6.31569	µg/L	6.31569	µg/L
Ca 227.546	53123.1	378324	µg/L	378324	µg/L
Na 589.592	107014.6	494.023	µg/L	494.023	µg/L

Mean Data -----
 ID: CCVM03AGCCV03 Seq. No.: 60 Sample No.: 11 A/S Pos: 0
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Reprocessed Date: 10/13/04 4:00:36 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107690.3	1.098	µg/L		
Sc 361.383	476751.9	1.084	µg/L		
Al 308.215	25832.1	18.5628	µg/L		
Sb 206.836	46.6	-4.71071	µg/L		
As 188.979	-14.7	0.117844	µg/L		
Ba 233.527	27.8	1.24453	µg/L		
Be 313.107	9305.6	0.100637	µg/L		
Cd 226.502	-285.6	1.02379	µg/L		
Ca 430.253	5045.9	1031.78	µg/L		
Cr 205.560	28.8	2.12656	µg/L		
Co 228.616	-53.8	-2.36151	µg/L		
Cu 324.752	144194.9	299.501	µg/L		
Fe 273.955	1311.6	47.9684	µg/L		
Pb 220.353	51.9	4.12387	µg/L		
Mg 279.077	1748.5	70.7584	µg/L		
Mn 257.610	888.3	0.604592	µg/L		
Ni 231.604	75.0	-1.27754	µg/L		
K 766.490	153906.8	13.5721	µg/L		
Se 196.026	-1.6	1.71400	µg/L		
Ag 338.289	27492.4	298.201	µg/L		
Na 330.237	-439.9	718.772	µg/L		
Tl 190.801	361.5	296.731	µg/L		
V 292.402	-315.6	-5.47947	µg/L		
Zn 206.200	555.8	16.9400	µg/L		
B 249.677	26990.8	1032.15	µg/L		
Mo 202.031	7286.1	1014.23	µg/L		
Ca 227.546	148.3	907.541	µg/L		
Na 589.592	24561.6	144.343	µg/L		

Mean Data -----
 ID: CCVM03IRCCV02 Seq. No.: 61 Sample No.: 12 A/S Pos: 0
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Reprocessed Date: 10/13/04 4:00:59 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	101922.9	1.039	µg/L		
Sc 361.383	460286.8	1.047	µg/L		
Al 308.215	339782.0	9998.18	µg/L		
Sb 206.836	1726.1	538.595	µg/L		
As 188.979	-18.8	-5.21146	µg/L		
Ba 233.527	1540297.6	10631.8	µg/L		
Be 313.107	662148.6	246.375	µg/L		
Cd 226.502	-246.8	1.67865	µg/L		
Ca 430.253	173762.7	25126.1	µg/L		

000153

Cr 205.560	21997.7	1036.08	µg/L
Co 228.616	80203.9	2532.78	µg/L
Cu 324.752	569850.9	1249.94	µg/L
Fe 273.955	143857.9	4993.03	µg/L
Pb 220.353	43.7	3.86761	µg/L
Mg 279.077	524198.0	25389.5	µg/L
Mn 257.610	955381.9	2520.27	µg/L
Ni 231.604	69509.6	2583.70	µg/L
K 766.490	10661106.7	28541.3	µg/L
Se 196.026	1.3	5.89771	µg/L
Ag 338.289	69832.4	757.788	µg/L
Na 330.237	29178.6	24035.5	µg/L
Tl 190.801	-28.3	5.44896	µg/L
V 292.402	154169.1	2606.10	µg/L
Zn 206.200	68704.1	2521.48	µg/L
B 249.677	471.8	5.90917	µg/L
Mo 202.031	3609.5	502.388	µg/L
Ca 227.546	3563.7	24962.6	µg/L
Na 589.592	7183639.4	30505.8	µg/L

Mean Data

ID: CCVM02ISBCCV1

Seq. No.: 62

Sample No.: 13

A/S Pos: 0

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

4:01:23 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108334.1	1.105	µg/L		
Sc 361.383	484296.4	1.101	µg/L		
Al 308.215	25683.9	13.7172	µg/L		
Sb 206.836	1675.7	513.718	µg/L		
As 188.979	1847.0	1009.85	µg/L		
Ba 233.527	3601.9	25.9120	µg/L		
Be 313.107	10598.6	0.577957	µg/L		
Cd 226.502	19220.8	503.967	µg/L		
Ca 430.253	1993.1	595.634	µg/L		
Cr 205.560	57.7	3.48377	µg/L		
Co 228.616	189.9	5.33847	µg/L		
Cu 324.752	10701.0	1.42469	µg/L		
Fe 273.955	1133.4	41.1387	µg/L		
Pb 220.353	6657.4	1006.74	µg/L		
Mg 279.077	2121.2	88.8192	µg/L		
Mn 257.610	3180.3	6.65574	µg/L		
Ni 231.604	241.0	4.90071	µg/L		
K 766.490	166170.1	46.8678	µg/L		
Se 196.026	1270.3	1041.72	µg/L		
Ag 338.289	799.1	8.45285	µg/L		
Na 330.237	-800.6	434.062	µg/L		
Tl 190.801	1278.4	977.912	µg/L		
V 292.402	210.6	3.41617	µg/L		
Zn 206.200	377.5	10.3823	µg/L		
B 249.677	298.2	3.51896	µg/L		
Mo 202.031	3598.2	500.819	µg/L		
Ca 227.546	82.2	435.886	µg/L		
Na 589.592	25313.8	147.533	µg/L		

Mean Data

ID: CCB

Seq. No.: 63

Sample No.: 14

A/S Pos: 0

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

4:01:46 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	106858.3	1.090	µg/L		
Sc 361.383	472192.3	1.074	µg/L		
Al 308.215	24977.5	-8.83433	µg/L		
Sb 206.836	78.9	5.61167	µg/L		
As 188.979	-12.3	1.42284	µg/L		
Ba 233.527	1424.3	10.8828	µg/L		
Be 313.107	9892.2	0.305438	µg/L		
Cd 226.502	-252.4	1.88085	µg/L		
Ca 430.253	1210.0	483.773	µg/L		
Cr 205.560	17.7	1.60368	µg/L		

000154

Co 228.616	100.3	2.50614	µg/L
Cu 324.752	10022.5	-0.0903299	µg/L
Fe 273.955	680.9	25.0361	µg/L
Pb 220.353	29.0	0.683911	µg/L
Mg 279.077	1246.9	46.4498	µg/L
Mn 257.610	1659.1	2.64009	µg/L
Ni 231.604	164.3	2.04548	µg/L
K 766.490	160698.0	32.0106	µg/L
Se 196.026	0.3	3.34185	µg/L
Ag 338.289	263.6	2.63999	µg/L
Na 330.237	-642.8	559.429	µg/L
Tl 190.801	-35.8	1.55879	µg/L
V 292.402	170.5	2.73731	µg/L
Zn 206.200	201.4	3.91186	µg/L
B 249.677	229.9	0.893333	µg/L
Mo 202.031	29.2	3.95828	µg/L
Ca 227.546	75.7	389.857	µg/L
Na 589.592	16334.8	109.453	µg/L

Mean Data

ID: 241225-010S PDS

Seq. No.: 64

Sample No.: 0

A/S Pos: 0

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

4:02:10 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	131117.9	1.337	µg/L		
Sc 361.383	499300.8	1.136	µg/L		
Al 308.215	1270662.5	39807.2	µg/L	39807.2	µg/L
Sb 206.836	67.3	0.591578	µg/L	0.591578	µg/L
As 188.979	7.7	12.7180	µg/L	12.7180	µg/L
Ba 233.527	35465.2	245.825	µg/L	245.825	µg/L
Be 313.107	13864.6	1.70517	µg/L	1.70517	µg/L
Cd 226.502	-217.4	-2.74696	µg/L	-2.74696	µg/L
Ca 430.253	217742.5	31380.0	µg/L	31380.0	µg/L
Cr 205.560	959.3	45.9182	µg/L	45.9182	µg/L
Co 228.616	1008.2	31.1848	µg/L	31.1848	µg/L
Cu 324.752	42474.2	72.3705	µg/L	72.3705	µg/L
Fe 273.955	2215319.0	79010.7	µg/L	79010.7	µg/L
Pb 220.353	1279.0	192.753	µg/L	192.753	µg/L
Mg 279.077	275061.3	13315.9	µg/L	13315.9	µg/L
Mn 257.610	698235.9	1841.54	µg/L	1841.54	µg/L
Ni 231.604	1692.2	58.9232	µg/L	58.9232	µg/L
K 766.490	1083792.3	2538.27	µg/L	2538.27	µg/L
Se 196.026	-12.2	16.1477	µg/L	16.1477	µg/L
Ag 338.289	195.0	1.89586	µg/L	1.89586	µg/L
Na 330.237	740.3	1523.10	µg/L	1523.10	µg/L
Tl 190.801	-43.3	-2.17677	µg/L	-2.17677	µg/L
V 292.402	3190.6	53.7938	µg/L	53.7938	µg/L
Zn 206.200	6735.0	242.270	µg/L	242.270	µg/L
B 249.677	261.2	2.05061	µg/L	2.05061	µg/L
Mo 202.031	13.2	1.72669	µg/L	1.72669	µg/L
Ca 227.546	4464.2	32835.1	µg/L	32835.1	µg/L
Na 589.592	51459.5	258.416	µg/L	258.416	µg/L

Mean Data

ID: 241197-001S PDS

Seq. No.: 65

Sample No.: 0

A/S Pos: 0

Sample Qty: 1.0000 L

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

4:02:34 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	106217.2	1.083	µg/L		
Sc 361.383	473358.5	1.077	µg/L		
Al 308.215	33384.9	259.899	µg/L	259.899	µg/L
Sb 206.836	63.8	0.813123	µg/L	0.813123	µg/L
As 188.979	-13.0	1.05034	µg/L	1.05034	µg/L
Ba 233.527	1540.1	11.6820	µg/L	11.6820	µg/L
Be 313.107	9664.3	0.214663	µg/L	0.214663	µg/L
Cd 226.502	-271.3	1.27016	µg/L	1.27016	µg/L
Ca 430.253	2028.3	600.419	µg/L	600.419	µg/L
Cr 205.560	301.7	14.9707	µg/L	14.9707	µg/L
Co 228.616	1711.1	4.74305	µg/L	4.74305	µg/L

000155

Cu 324.752	14633.0	10.2043	µg/L	10.2043	µg/L
Fe 273.955	50207.0	1791.42	µg/L	1791.42	µg/L
Pb 220.353	610.3	88.8905	µg/L	88.8905	µg/L
Mg 279.077	3568.1	158.938	µg/L	158.938	µg/L
Mn 257.610	13222.9	33.1693	µg/L	33.1693	µg/L
Ni 231.604	391.8	10.5150	µg/L	10.5150	µg/L
K 766.490	209728.2	165.131	µg/L	165.131	µg/L
Se 196.026	23.6	22.9023	µg/L	22.9023	µg/L
Ag 338.289	176.5	1.69500	µg/L	1.69500	µg/L
Na 330.237	-216.4	895.883	µg/L	895.883	µg/L
Tl 190.801	-39.6	-1.30356	µg/L	-1.30356	µg/L
V 292.402	217.8	3.53831	µg/L	3.53831	µg/L
Zn 206.200	677.2	21.3926	µg/L	21.3926	µg/L
B 249.677	214.1	0.279137	µg/L	0.279137	µg/L
Mo 202.031	15.2	2.00771	µg/L	2.00771	µg/L
Ca 227.546	86.1	490.154	µg/L	490.154	µg/L
Na 589.592	31910.7	175.510	µg/L	175.510	µg/L

Mean Data

ID: 241274-005

Sample Qty: 1.0000 L

Seq. No.: 66

Sample No.: 0

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Reprocessed

Date: 10/13/04 4:02:58 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	424368.0	4.327	µg/L		
Sc 361.383	549503.2	1.250	µg/L		
Al 308.215	3363166.4	106691	µg/L	106691	µg/L
Sb 206.836	57.4	-3.54130	µg/L	-3.54130	µg/L
As 188.979	86.2	55.9168	µg/L	55.9168	µg/L
Ba 233.527	51106.4	353.777	µg/L	353.777	µg/L
Be 313.107	27416.0	6.46188	µg/L	6.46188	µg/L
Cd 226.502	-132.6	-9.81957	µg/L	-9.81957	µg/L
Ca 430.253	452018.6	64784.5	µg/L	64784.5	µg/L
Cr 205.560	2716.9	128.639	µg/L	128.639	µg/L
Co 228.616	3930.5	123.492	µg/L	123.492	µg/L
Cu 324.752	155977.0	325.809	µg/L	325.809	µg/L
Fe 273.955	5924413.7	211292	µg/L	211292	µg/L
Pb 220.353	863.9	132.390	µg/L	132.390	µg/L
Mg 279.077	629969.8	30515.4	µg/L	30515.4	µg/L
Mn 257.610	4088930.8	10793.5	µg/L	10793.5	µg/L
Ni 231.604	5824.8	212.762	µg/L	212.762	µg/L
K 766.490	7919908.6	21098.8	µg/L	21098.8	µg/L
Se 196.026	-36.6	32.3239	µg/L	32.3239	µg/L
Ag 338.289	-186.1	-2.24062	µg/L	-2.24062	µg/L
Na 330.237	5456.4	4907.76	µg/L	4907.76	µg/L
Tl 190.801	-54.6	-8.69691	µg/L	-8.69691	µg/L
V 292.402	13881.5	234.524	µg/L	234.524	µg/L
Zn 206.200	17071.5	619.339	µg/L	619.339	µg/L
B 249.677	2200.4	76.6196	µg/L	76.6196	µg/L
Mo 202.031	-13.7	-2.01790	µg/L	-2.01790	µg/L
Ca 227.546	9136.7	68098.6	µg/L	68098.6	µg/L
Na 589.592	1399933.9	5977.26	µg/L	5977.26	µg/L

Mean Data

ID: 241274-007

Sample Qty: 1.0000 L

Seq. No.: 67

Sample No.: 0

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Reprocessed

Date: 10/13/04 4:03:23 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	512894.5	5.230	µg/L		
Sc 361.383	528695.5	1.202	µg/L		
Al 308.215	2977749.4	94372.8	µg/L	94372.8	µg/L
Sb 206.836	54.1	-4.41131	µg/L	-4.41131	µg/L
As 188.979	69.9	46.9063	µg/L	46.9063	µg/L
Ba 233.527	52573.1	363.899	µg/L	363.899	µg/L
Be 313.107	25034.7	5.69271	µg/L	5.69271	µg/L
Cd 226.502	-169.9	-6.98479	µg/L	-6.98479	µg/L
Ca 430.253	396306.5	56837.2	µg/L	56837.2	µg/L
Cr 205.560	1917.1	90.9977	µg/L	90.9977	µg/L
Co 228.616	2513.7	78.7398	µg/L	78.7398	µg/L
Cu 324.752	115119.2	234.578	µg/L	234.578	µg/L

000156

Fe 273.955	4404099.1	157070	µg/L	157070	µg/L
Pb 220.353	562.5	87.1686	µg/L	87.1686	µg/L
Mg 279.077	460647.8	22309.8	µg/L	22309.8	µg/L
Mn 257.610	2747607.5	7252.19	µg/L	7252.19	µg/L
Ni 231.604	3881.5	140.422	µg/L	140.422	µg/L
K 766.490	6374733.6	16903.5	µg/L	16903.5	µg/L
Se 196.026	-23.2	27.5543	µg/L	27.5543	µg/L
Ag 338.289	36.8	0.178823	µg/L	0.178823	µg/L
Na 330.237	6355.2	5744.57	µg/L	5744.57	µg/L
Tl 190.801	-56.4	-10.4362	µg/L	-10.4362	µg/L
V 292.402	10597.7	179.011	µg/L	179.011	µg/L
Zn 206.200	11781.2	425.526	µg/L	425.526	µg/L
B 249.677	2024.8	69.9312	µg/L	69.9312	µg/L
Mo 202.031	-2.5	-0.456617	µg/L	-0.456617	µg/L
Ca 227.546	8024.2	59363.1	µg/L	59363.1	µg/L
Na 589.592	1714990.4	7313.40	µg/L	7313.40	µg/L

Mean Data -----
 ID: 241274-010 Seq. No.: 68 Sample No.: 0 A/S Pos: 0
 Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Reprocessed Date: 10/13/04 4:03:47 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	189808.0	1.935	µg/L		
Sc 361.383	469805.4	1.069	µg/L		
Al 308.215	225125.8	6375.59	µg/L	6375.59	µg/L
Sb 206.836	52.9	-6.76582	µg/L	-6.76582	µg/L
As 188.979	-14.1	2.03442	µg/L	2.03442	µg/L
Ba 233.527	7066.7	49.8248	µg/L	49.8248	µg/L
Be 313.107	10347.3	0.454844	µg/L	0.454844	µg/L
Cd 226.502	-259.5	0.997129	µg/L	0.997129	µg/L
Ca 430.253	583821.6	83713.9	µg/L	83713.9	µg/L
Cr 205.560	569.4	27.5706	µg/L	27.5706	µg/L
Co 228.616	240.1	6.92151	µg/L	6.92151	µg/L
Cu 324.752	14709.7	10.3757	µg/L	10.3757	µg/L
Fe 273.955	281197.4	10029.6	µg/L	10029.6	µg/L
Pb 220.353	34.8	3.56457	µg/L	3.56457	µg/L
Mg 279.077	213317.8	10323.7	µg/L	10323.7	µg/L
Mn 257.610	155250.0	407.987	µg/L	407.987	µg/L
Ni 231.604	293.2	6.84412	µg/L	6.84412	µg/L
K 766.490	3249044.3	8417.08	µg/L	8417.08	µg/L
Se 196.026	16.1	14.3273	µg/L	14.3273	µg/L
Ag 338.289	115.5	1.03279	µg/L	1.03279	µg/L
Na 330.237	24825.6	20506.2	µg/L	20506.2	µg/L
Tl 190.801	-57.0	-9.21517	µg/L	-9.21517	µg/L
V 292.402	747.3	12.4895	µg/L	12.4895	µg/L
Zn 206.200	1153.9	38.3891	µg/L	38.3891	µg/L
B 249.677	6733.5	251.504	µg/L	251.504	µg/L
Mo 202.031	26.8	3.62400	µg/L	3.62400	µg/L
Ca 227.546	11973.5	85285.6	µg/L	85285.6	µg/L
Na 589.592	7316641.0	31069.8	µg/L	31069.8	µg/L

Mean Data -----
 ID: 241245-001 Seq. No.: 69 Sample No.: 0 A/S Pos: 0
 Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Reprocessed Date: 10/13/04 4:04:12 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	102558.2	1.046	µg/L		
Sc 361.383	448853.5	1.021	µg/L		
Al 308.215	37753.6	394.724	µg/L	394.724	µg/L
Sb 206.836	57.7	-2.64301	µg/L	-2.64301	µg/L
As 188.979	-13.9	1.09928	µg/L	1.09928	µg/L
Ba 233.527	3494.1	25.1679	µg/L	25.1679	µg/L
Be 313.107	9921.1	0.327552	µg/L	0.327552	µg/L
Cd 226.502	-275.0	1.23491	µg/L	1.23491	µg/L
Ca 430.253	211067.7	30465.3	µg/L	30465.3	µg/L
Cr 205.560	38.6	2.58747	µg/L	2.58747	µg/L
Co 228.616	62.6	1.31537	µg/L	1.31537	µg/L
Cu 324.752	25973.3	35.5259	µg/L	35.5259	µg/L
Fe 273.955	25917.2	925.334	µg/L	925.334	µg/L

000157

Pb 220.353	45.0	3.71756	µg/L	3.71756	µg/L
Mg 279.077	152803.5	7391.13	µg/L	7391.13	µg/L
Mn 257.610	24224.7	62.0988	µg/L	62.0988	µg/L
Ni 231.604	195.9	3.22314	µg/L	3.22314	µg/L
K 766.490	13513017.2	36284.5	µg/L	36284.5	µg/L
Se 196.026	6.8	7.18729	µg/L	7.18729	µg/L
Ag 338.289	99.4	0.857553	µg/L	0.857553	µg/L
Na 330.237	72748.0	58593.1	µg/L	58593.1	µg/L
Tl 190.801	-56.6	-12.0868	µg/L	-12.0868	µg/L
V 292.402	-58.5	-1.13415	µg/L	-1.13415	µg/L
Zn 206.200	3589.0	128.231	µg/L	128.231	µg/L
B 249.677	1284.6	41.5375	µg/L	41.5375	µg/L
Mo 202.031	2809.9	391.067	µg/L	391.067	µg/L
Ca 227.546	4430.1	31419.1	µg/L	31419.1	µg/L
Na 589.592	Saturated				

Mean Data

ID: 241245-001 MD Seq. No.: 70 Sample No.: 0 A/S Pos: 0
Sample Qty: 1.0000 L Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Reprocessed Date: 10/13/04 4:04:37 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	102766.4	1.048	µg/L		
Sc 361.383	450402.6	1.024	µg/L		
Al 308.215	33155.2	247.875	µg/L	247.875	µg/L
Sb 206.836	56.6	-2.92153	µg/L	-2.92153	µg/L
As 188.979	-14.9	0.527881	µg/L	0.527881	µg/L
Ba 233.527	3326.6	24.0119	µg/L	24.0119	µg/L
Be 313.107	9838.0	0.295467	µg/L	0.295467	µg/L
Cd 226.502	-280.1	1.12425	µg/L	1.12425	µg/L
Ca 430.253	204624.5	29544.9	µg/L	29544.9	µg/L
Cr 205.560	31.3	2.24400	µg/L	2.24400	µg/L
Co 228.616	58.9	1.19948	µg/L	1.19948	µg/L
Cu 324.752	25560.5	34.6042	µg/L	34.6042	µg/L
Fe 273.955	18120.1	647.243	µg/L	647.243	µg/L
Pb 220.353	25.5	0.729067	µg/L	0.729067	µg/L
Mg 279.077	148487.0	7181.94	µg/L	7181.94	µg/L
Mn 257.610	19411.5	49.3942	µg/L	49.3942	µg/L
Ni 231.604	173.2	2.37870	µg/L	2.37870	µg/L
K 766.490	13282017.8	35657.3	µg/L	35657.3	µg/L
Se 196.026	5.8	6.32908	µg/L	6.32908	µg/L
Ag 338.289	107.1	0.942035	µg/L	0.942035	µg/L
Na 330.237	71665.7	57738.8	µg/L	57738.8	µg/L
Tl 190.801	-54.5	-10.6537	µg/L	-10.6537	µg/L
V 292.402	-63.3	-1.21514	µg/L	-1.21514	µg/L
Zn 206.200	3561.0	127.212	µg/L	127.212	µg/L
B 249.677	1212.8	38.7708	µg/L	38.7708	µg/L
Mo 202.031	2746.3	382.213	µg/L	382.213	µg/L
Ca 227.546	4284.6	30378.1	µg/L	30378.1	µg/L
Na 589.592	Saturated				

Mean Data
ID: CRIM03ICRI001 Seq. No.: 71 Sample No.: 6 A/S Pos: 0
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Reprocessed Date: 10/13/04 4:05:02 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	108972.7	1.111	µg/L		
Sc 361.383	492133.7	1.119	µg/L		
Al 308.215	24763.7	-17.6321	µg/L		
Sb 206.836	426.7	116.670	µg/L		
As 188.979	20.6	19.3740	µg/L		
Ba 233.527	-59.9	0.639343	µg/L		
Be 313.107	34580.3	9.62314	µg/L		
Cd 226.502	101.3	10.9935	µg/L		
Ca 430.253	1198.2	482.104	µg/L		
Cr 205.560	423.1	20.6848	µg/L		
Co 228.616	3246.7	101.894	µg/L		
Cu 324.752	31225.3	47.2530	µg/L		
Fe 273.955	3121.2	106.900	µg/L		
Pb 220.353	47.5	3.48399	µg/L		

000158

Mg 279.077	1246.6	46.4355	µg/L
Mn 257.610	13826.0	34.7636	µg/L
Ni 231.604	2374.1	84.3187	µg/L
K 766.490	179776.9	83.8112	µg/L
Se 196.026	8.4	10.0553	µg/L
Ag 338.289	1849.2	19.8517	µg/L
Na 330.237	-265.8	856.995	µg/L
Tl 190.801	-11.0	19.8495	µg/L
V 292.402	5917.3	99.8885	µg/L
Zn 206.200	1170.5	39.5436	µg/L
B 249.677	208.2	-0.112991	µg/L
Mo 202.031	14.3	1.88900	µg/L
Ca 227.546	67.8	321.297	µg/L
Na 589.592	62099.5	303.540	µg/L

Mean Data

ID: ISAM03ISA002

Seq. No.: 72

Sample No.: 7

A/S Pos: 0

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

4:05:28 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	90581.1	0.924	µg/L		
Sc 361.383	426674.6	0.970	µg/L		
Al 308.215	15980120.5	509956	µg/L		
Sb 206.836	87.0	-19.2255	µg/L		
As 188.979	-44.5	-7.54501	µg/L		
Ba 233.527	826.8	6.75887	µg/L		
Be 313.107	10007.6	0.354250	µg/L		
Cd 226.502	-63.7	-6.25923	µg/L		
Ca 430.253	3842284.8	548746	µg/L		
Cr 205.560	13.5	1.40677	µg/L		
Co 228.616	102.4	2.57350	µg/L		
Cu 324.752	8259.3	-4.02736	µg/L		
Fe 273.955	5210153.9	185829	µg/L		
Pb 220.353	-332.5	3.19999	µg/L		
Mg 279.077	10214118.3	494978	µg/L		
Mn 257.610	7123.9	9.00281	µg/L		
Ni 231.604	15.4	-3.49576	µg/L		
K 766.490	217153.3	185.290	µg/L		
Se 196.026	-31.5	-2.12921	µg/L		
Ag 338.289	441.6	4.57297	µg/L		
Na 330.237	715.9	273.174	µg/L		
Tl 190.801	-83.9	-1.34072	µg/L		
V 292.402	86.5	1.31808	µg/L		
Zn 206.200	830.3	-6.61950	µg/L		
B 249.677	101.8	-4.04328	µg/L		
Mo 202.031	2.3	0.219895	µg/L		
Ca 227.546	76761.6	549410	µg/L		
Na 589.592	112835.6	518.710	µg/L		

Mean Data

ID: ISBM03ISR002

Seq. No.: 73

Sample No.: 9

A/S Pos: 0

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

4:05:53 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	91119.3	0.929	µg/L		
Sc 361.383	421033.9	0.958	µg/L		
Al 308.215	16237045.3	518157	µg/L		
Sb 206.836	2187.9	650.749	µg/L		
As 188.979	150.7	98.6073	µg/L		
Ba 233.527	78642.5	543.824	µg/L		
Be 313.107	1282284.6	493.151	µg/L		
Cd 226.502	35651.5	914.327	µg/L		
Ca 430.253	3918344.6	559604	µg/L		
Cr 205.560	10590.1	499.188	µg/L		
Co 228.616	15056.6	474.939	µg/L		
Cu 324.752	256425.0	550.098	µg/L		
Fe 273.955	5320863.2	189750	µg/L		
Pb 220.353	-19.8	51.4591	µg/L		
Mg 279.077	10349556.5	501542	µg/L		

000159

Mn 257.610	192771.6	499.047	µg/L
Ni 231.604	25633.3	950.135	µg/L
K 766.490	195023.3	125.206	µg/L
Se 196.026	31.2	49.9785	µg/L
Ag 338.289	20602.5	223.413	µg/L
Na 330.237	3126.2	2140.07	µg/L
Tl 190.801	37.1	88.6823	µg/L
V 292.402	30485.8	515.221	µg/L
Zn 206.200	25730.6	908.410	µg/L
B 249.677	102.9	-4.80798	µg/L
Mo 202.031	0.3	-0.0713037	µg/L
Ca 227.546	77404.2	553982	µg/L
Na 589.592	62105.4	303.565	µg/L

Mean Data

ID: CCVM03AGCCV03

Sample Qty: 1.0000 g

Seq. No.: 74

Sample No.: 11

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Reprocessed

Date: 10/13/04 4:06:20 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107832.9	1.099	µg/L		
Sc 361.383	475511.2	1.081	µg/L		
Al 308.215	63632.2	1226.85	µg/L		
Sb 206.836	55.1	-2.03406	µg/L		
As 188.979	-13.0	1.04378	µg/L		
Ba 233.527	58.6	1.45663	µg/L		
Be 313.107	11878.4	1.09752	µg/L		
Cd 226.502	-206.9	3.01065	µg/L		
Ce 430.253	8863.2	1575.95	µg/L		
Cr 205.560	14.4	1.44868	µg/L		
Co 228.616	-19.5	-1.27583	µg/L		
Cu 324.752	142520.0	295.761	µg/L		
Fe 273.955	18026.6	644.086	µg/L		
Pb 220.353	-10.2	-5.19006	µg/L		
Hg 279.077	29807.3	1430.53	µg/L		
Mn 257.610	1903.1	3.26179	µg/L		
Ni 231.604	124.7	0.572372	µg/L		
K 766.490	157322.0	22.8446	µg/L		
Se 196.026	-1.3	2.09594	µg/L		
Ag 338.289	27166.0	294.657	µg/L		
Na 330.237	-575.9	609.705	µg/L		
Tl 190.801	360.2	295.783	µg/L		
V 292.402	-261.1	-4.55882	µg/L		
Zn 206.200	153.7	2.06948	µg/L		
B 249.677	26845.2	1026.54	µg/L		
Mo 202.031	7217.2	1004.64	µg/L		
Ca 227.546	231.2	1507.09	µg/L		
Na 589.592	17242.6	113.303	µg/L		

Mean Data

ID: CCVM03IRCCV02

Sample Qty: 1.0000 g

Seq. No.: 75

Sample No.: 12

A/S Pos: 0

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Reprocessed

Date: 10/13/04 4:06:45 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	103143.0	1.052	µg/L		
Sc 361.383	469832.2	1.069	µg/L		
Al 308.215	355032.0	10486.8	µg/L		
Sb 206.836	1699.6	529.969	µg/L		
As 188.979	-17.9	-4.73037	µg/L		
Ba 233.527	1518230.8	10479.5	µg/L		
Be 313.107	651944.7	242.556	µg/L		
Cd 226.502	-203.6	2.77756	µg/L		
Ce 430.253	172818.9	24990.8	µg/L		
Cr 205.560	21485.2	1011.96	µg/L		
Co 228.616	77902.8	2460.09	µg/L		
Cu 324.752	561151.4	1230.52	µg/L		
Fe 273.955	148792.1	5171.77	µg/L		
Pb 220.353	21.5	0.551178	µg/L		
Hg 279.077	529008.2	25622.6	µg/L		
Mn 257.610	930924.2	2455.69	µg/L		

000160

Ni 231.604	68027.5	2528.52	µg/L
K 766.490	10508957.3	28128.2	µg/L
Se 196.026	4.9	8.91143	µg/L
Ag 338.289	68344.0	741.633	µg/L
Na 330.237	28610.0	23587.5	µg/L
Tl 190.801	-23.2	9.32628	µg/L
V 292.402	151102.6	2554.26	µg/L
Zn 206.200	66360.6	2435.29	µg/L
B 249.677	414.6	3.83016	µg/L
Mo 202.031	3529.7	491.276	µg/L
Ca 227.546	3559.4	24944.6	µg/L
Na 589.592	7014976.0	29790.5	µg/L

Mean Data

ID: CCVM02ISBCCV1

Seq. No.: 76

Sample No.: 13

A/S Pos: 0

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

4:07:12 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107729.2	1.098	µg/L		
Sc 361.383	482826.3	1.098	µg/L		
Al 308.215	37910.4	404.550	µg/L		
Sb 206.836	1671.5	512.393	µg/L		
As 188.979	1844.2	1008.29	µg/L		
Ba 233.527	3161.6	22.8733	µg/L		
Be 313.107	11263.7	0.837132	µg/L		
Cd 226.502	19063.6	499.900	µg/L		
Ca 430.253	3379.0	793.252	µg/L		
Cr 205.560	45.6	2.91618	µg/L		
Co 228.616	180.0	5.02600	µg/L		
Cu 324.752	10694.0	1.40917	µg/L		
Fe 273.955	6257.1	223.902	µg/L		
Pb 220.353	6582.3	995.383	µg/L		
Mg 279.077	11083.4	523.143	µg/L		
Mn 257.610	3334.2	7.05487	µg/L		
Ni 231.604	245.6	5.07493	µg/L		
K 766.490	166459.4	47.6531	µg/L		
Se 196.026	1284.4	1053.25	µg/L		
Ag 338.289	608.7	6.38684	µg/L		
Na 330.237	-854.1	391.216	µg/L		
Tl 190.801	1277.3	977.079	µg/L		
V 292.402	193.2	3.12105	µg/L		
Zn 206.200	249.0	5.63296	µg/L		
B 249.677	269.6	2.41902	µg/L		
Mo 202.031	3544.2	493.294	µg/L		
Ca 227.546	118.3	695.713	µg/L		
Na 589.592	20519.4	127.200	µg/L		

Mean Data

ID: CCB

Seq. No.: 77

Sample No.: 14

A/S Pos: 0

Sample Qty: 1.0000 g

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Reprocessed

Date: 10/13/04

4:07:38 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Units	Mean Conc.	Sample Units
Y 360.073	107570.7	1.097	µg/L		
Sc 361.383	475451.3	1.081	µg/L		
Al 308.215	32777.1	240.481	µg/L		
Sb 206.836	75.3	4.47578	µg/L		
As 188.979	-8.0	3.77441	µg/L		
Ba 233.527	1364.9	10.4728	µg/L		
Be 313.107	10353.1	0.484268	µg/L		
Cd 226.502	-238.6	2.22859	µg/L		
Ca 430.253	2193.7	624.068	µg/L		
Cr 205.560	9.0	1.19508	µg/L		
Co 228.616	100.6	2.51513	µg/L		
Cu 324.752	9911.2	-0.338780	µg/L		
Fe 273.955	3934.7	141.085	µg/L		
Pb 220.353	17.7	-0.999063	µg/L		
Mg 279.077	7044.7	327.421	µg/L		
Mn 257.610	1890.4	3.24620	µg/L		
Ni 231.604	167.1	2.15087	µg/L		

000161

K 766.490	157940.7	24.5243	µg/L
Se 196.026	5.6	7.71239	µg/L
Ag 338.289	273.7	2.75036	µg/L
Na 330.237	-572.6	614.677	µg/L
Tl 190.801	-32.3	4.15423	µg/L
V 292.402	174.7	2.80942	µg/L
Zn 206.200	131.5	1.32166	µg/L
B 249.677	213.2	0.249457	µg/L
Mo 202.031	25.8	3.48609	µg/L
Ca 227.546	95.7	533.781	µg/L
Na 589.592	18458.3	118.459	µg/L

000162

STL NEWBURGH

Metals Preparation Logbook

Batch: 76962

Prep Date: 10/7/04
Time: 1030 AM

Matrix: water
Hot Block temperature: #1 118°C
HNO₃: ✓
HCl: ✓
H₂O₂: ✓

MS: m04Im5003
MS: m04#m5005
MS:
LCSI: m04ILCS003

LCSF:
LCSS:

Method (circle one):

ICP
Furnace

2007WW
2007DW

3050
3050GF

2007DW
3113DW

Other:
Other:

	Job	Sample	Init Wgt (g)/ Vol (ml)	Final Vol (ml)	Comments
1	241272 →	1	50ml	50ml	
2	↓	2			
3	241274	1			
4		2			
5		3			
6		4			
7		5			
8		6			
9		7			
10		8			
11		9			
12		10			
13		11			
14		12			
15		13			
16	↓	14	↓	↓	
17					
18					
19					
20					
MS F	241274	12	50ml	50ml	
MS F	241274	12	↓	↓	
MD	↓	↓	↓	↓	
MB			↓	↓	
LCSW/LCSS	I		↓	↓	
LCSW/LCSS					

metprelb

Analyst(s): MAD

Reviewed by:

000163

000029

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SEVERN
TRENT **STL**

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
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Fax (845) 562-0841

APPENDIX 3

GROUNDWATER SAMPLING FIELD PARAMETER MEASUREMENTS

Sample Location: ML-1

[illegible]

Sample Location: ML-2R

[illegible]

Sample Location: ML-3

10/18/04

Sample Location: ML-4

[illegible]

Sample Location: ML-5

10/18/04

Sample Location: ML-10

10/18/04

Sample Location: ML-11

[illegible]

Sample Location: ML-12

10/18/04

Sample Location: ML-13

[illegible]

Sample Location: ML-14

[illegible]

APPENDIX 4
REMEDIES AND CLEANUP GOALS FOR CCA SITES

REMEDIES AND CLEANUP GOALS FOR CCA SITES

EPA Site	Location	Soil Remedy	As Cleanup Goal	Cr Cleanup Goal	Cu Cleanup Goal	Institutional Controls / Use Restrictions
Cape Fear Wood Preserving	Fayetteville, NC	Excavation, on-site soil washing, backfill treated soil	94 mg/kg ¹	88 mg/kg ²	NA	NA
Joseph Forrest Products	Joseph, OR	Excavation and off-site disposal	36 mg/kg ¹	1,352 mg/kg ¹	10,000 mg/kg ¹	Deed Restrictions / Environmental Notice
Mid-Atlantic Wood Preservers	Harmans, MD	Excavation and off-site disposal; Capping	1,000 mg/kg ³ 10 mg/kg ⁴	NA	NA	Deed Restrictions
Mid-South Wood Products	Mena, AR	Consolidation and capping	5.6 mg/kg	19.4 mg/kg	NA	Fencing / Deed Restrictions
Rentokil, Inc.	Richmond, VA	Consolidation and capping	33 mg/kg ¹	NA	NA	Groundwater and Land Use Restrictions (no residential development)
Valley Wood Preserving	Turlock, CA	Excavation, fixation, backfilling	2 mg/kg ¹ (surface) 5 ug/kg (subsurface)	4 mg/kg ^{1,5} (surface) 5 ug/kg (subsurface)	NA	Possible Deed Restrictions
Bell Lumber & Pole Co.	New Brighton, MN	_____	31 mg/kg ¹ 55 mg/kg ²	400 mg/kg ⁶	NA	Couldn't Locate in 2 nd ROD Search
American Creosote Works, Inc.	Jackson, TN	_____	2.25 ppm ⁷	NA	NA	Deed Restrictions, Limit to Industrial or Similar Use
Atlantic Wood Industries	Portsmouth, VA	_____	76-150 ppm ¹	NA	390 ppm	Title Restrictions – prohibits res., agric. and use of groundwater
Bangor Naval Submarine Base	Silverdale, WA	_____	20 ppm (shallow & sub-surface soils)	NA	NA	Institutional Controls – Groundwater Use Limitations
Cabot/Koppers	Gainesville, FL	_____	27 mg/kg	92.7 mk/kg	NA	Institutional Controls
Koppers Co., Inc.	Charleston, NC	_____	770 mg/kg (current off site) ⁷ 3,030 mg/kg (future on site) ⁷ Surface Sediment	NA	NA	N/A
McCormick & Baxter Creosoting	Portland, Or	_____	8mg/kg (soil) 12 mg/kg (sediment)	NA	NA	Institutional Controls
Palmetto Wood Preserving	Dixiana, SC	=====	<1 mg/kg ¹	627 mg/kg ¹	NA	N/A

Notes:

1. Based on Risk Assessment.

2. Based on site background, since Risk Assessment value is less than background.

3. Excavation of soils greater than 1,000 mg/kg Arsenic (hot spots)

4. Capping of soils between 10 and 1,000 mg/kg arsenic
5. Cr⁶⁺

6. Applies to total Chromium concentrations, including Cr⁺⁶

7. Based on Target Cancer Risk of 1x 10⁻⁶