DEPARTMENT OF THE NAVY
CRANE DIVISION
NAVAL SURFACE WARFARE CENTER
300 HIGHWAY 361
CRANE INDIANA 47522-5001

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NSWC CRANE
5090.3a

IN REPLY REFER TO:
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21 FEB 2008
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U.S. Environmental Protection Agency, Region V
Waste, Pesticides, & Toxics Division
Waste Management Branch
Corrective Action Section LU-9J
77 West Jackson Blvd.
Chicago, IL 60604

Dear Mr. Ramanauskas:

Crane Division, Naval Surface Warfare Center submits the Draft Interim Measures Report (IMR) for the Old Pistol Range (OPR), Solid Waste Management Unit 7. One copy is presented as enclosure (1) for review and comment. The permit required Certification Statement is provided as enclosure (2).

If you require any further information, my point of contact is Mr. Thomas J. Brent, Code PRCR4-TB, at 812-854-6160, email thomas.brent@navy.mil.

Sincerely,

D. Freeman for
J. M. HUNSICKER
Environmental Site Mgr
By direction of the Commanding Officer

Enclosures: 1. Draft OPR IMR
2. Certification Statement

Copy to:
ADMINISTRATIVE RECORD
NAVFAC MW (Howard Hickey) (w/o encl)
IDEM (Doug Griffin)
TTNUS (Ralph Basinski) (w/o encl)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

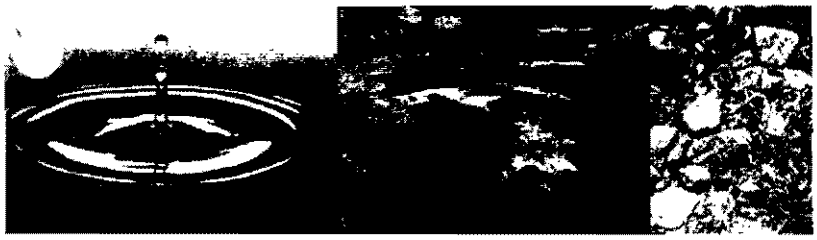
SIGNATURE

Environmental Site Mgr
TITLE

2/21/08
DATE

Comprehensive Long-term Environmental Action Navy

CONTRACT NUMBER N62467-04-D-0055



Rev. 1
07/08

Interim Measures Report

for

SWMU 7 - Old Rifle Range
Old Pistol Range Site

Naval Surface Warfare Center Crane
Crane, Indiana

Contract Task Order 0020

July 2008

NAVFAC

Midwest
201 Decatur Avenue
Building IA, Code EV
Great Lakes, Illinois 60088

TETRA TECH NUS, Inc.

090705/P

INTERIM MEASURES REPORT
for
SWMU 7 - OLD RIFLE RANGE
OLD PISTOL RANGE SITE

NAVAL SURFACE WARFARE CENTER CRANE
CRANE, INDIANA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Naval Facilities Engineering Command Midwest
201 Decatur Avenue
Building IA, Code EV
Great Lakes, Illinois 60088

Submitted by:
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King of Prussia, Pennsylvania 19406

CONTRACT NUMBER N62467-04-D-0055
CONTRACT TASK ORDER 20

JULY 2008

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LIST OF ACRONYMS

CLEAN	Comprehensive Long-Term Environmental Action Navy
CMP	Corrective Measures Proposal
CTO	Contract Task Order
D&T	D&T Environmental, LLC
EMAC	Environmental Multiple Award Contractor
IAS	Initial Assessment Study
IM	Interim Measure
IMWP	Interim Measures Work Plan
IR	Installation Restoration
LUC	land use control
MCS	media cleanup standard
MEC	munitions and explosives of concern
mg/kg	milligram per kilogram
NAVFAC	Naval Facilities Engineering Command
NSWC	Naval Surface Warfare Center
OPR	Old Pistol Range
ORR	Old Rifle Range
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
SWMU	Solid Waste Management Unit
TCLP	Toxicity Characteristic Leaching Procedure
Tetra Tech	Tetra Tech NUS, Inc.
USACE	United States Army Corps of Engineers
U.S. EPA	United States Environmental Protection Agency
WES	Waterways Experiment Station
XRF	X-ray fluorescence

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

The purpose of this Interim Measures (IM) Report is to describe the activities performed in executing the remedial action at the Old Pistol Range (OPR) site at Solid Waste Management Unit (SWMU) 7, Old Rifle Range (ORR), Naval Surface Warfare Center (NSWC) Crane located in Crane, Indiana. Activities included the excavation and off-site disposal of lead-contaminated soil from the impacted areas of the OPR. This work was performed for the United States Navy, Naval Facilities Engineering Command (NAVFAC) Midwest by Tetra Tech NUS, Inc. (Tetra Tech) under Contract Task Order (CTO) 0020 of the Comprehensive Long-Term Environmental Action Navy (CLEAN) IV Contract Number N62467-04-D-0055.

This work was performed under the Navy's Installation Restoration (IR) Program. The following four distinct phases of work are typically conducted for IR sites:

Phase 1 is the Preliminary Assessment [formerly known as the Initial Assessment Study (IAS)]
Phase 2 is the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA)
Phase 3 is the RCRA Facility Investigation (RFI)/Corrective Measures Proposal (CMP)
Phase 4 is the Corrective Measures Implementation

This IM Report has been prepared under Phase 4 of the IR Program as part of the interim corrective measures. This report defines activities associated with a limited action conducted to address lead-contaminated soil that posed unacceptable risks to human health. This IM Report does not address land use controls (LUCs), which comprise the remainder of the limited action tentatively identified as Alternative S-2 in the draft CMP.

The following appendices are included in this report and provide the technical information compiled during the remedial activities at the OPR:

- Appendix A – Field Log Sheets
- Appendix B – Post-Removal Action Verification Sampling Validation Letters
- Appendix C – Photographs of IM Activities
- Appendix D – Waste Characterization Results
- Appendix E – Waste Manifests and Bills of Lading

- Appendix F – Remedial Action Contractor Quality Assurance/Production Reports
- Appendix G – Miscellaneous Information

1.2 FACILITY DESCRIPTION

NSWC Crane is located in the southern portion of Indiana, approximately 75 miles southwest of Indianapolis and 71 miles northwest of Louisville, Kentucky, immediately east of Crane Village and Burns City (Figure 1-1). NSWC Crane encompasses 62,463 acres (approximately 98 square miles), most of which are located in the northern portion of Martin County. Smaller portions of NSWC Crane are located in Greene, Daviess, and Lawrence Counties. NSWC Crane is located in a rural, sparsely populated area. Most of NSWC Crane is forested, and the surrounding area is wooded or farmed land.

NSWC Crane provides material, technical, and logistical support to the Navy for equipment, shipboard weapons systems, and nonexpendable ordnance items. In addition, NSWC Crane supports the Crane Army Ammunition Activity with production, renovation, storage, shipment, demilitarization, and disposal of conventional ammunition.

1.3 SITE DESCRIPTION

The OPR is located within the boundaries of SWMU 7, which is centrally located within NSWC Crane (Figure 1-2). SWMU 7 consists of two separate areas, the ORR and an adjacent OPR (Figure 1-3). SWMU 7 occupies approximately 20 acres immediately northeast and down slope of the Demolition Range. The site is immediately west of NSWC Crane Highway 8 in the flat-lying floodplain of Turkey Creek. Currently the ORR consists of a flat, grass-covered area bisected from north to south by a maintained gravel road. This road provides access to various groundwater monitoring wells located within the ORR and the active open burn area, which is a RCRA-permitted hazardous waste treatment facility. The OPR is approximately 10 acres in size, is located immediately adjacent to the northern end of the ORR, and is bisected by unnamed intermittent tributaries to Turkey Creek. The ORR and OPR are inactive and the open burn area is active. The ORR has been studied extensively and is further addressed in Appendix A of the Phase III Soils RFI (Tetra Tech, 2005a).

Very little is known of historical operations at the OPR other than it was used for small arms training within two discrete areas. The OPR apparently had two target ranges used for small caliber weapons and a wooden frame structure that may have served as a shelter for the marksmen. Range 1 at the OPR was oriented east-west and used the side of a hill as a backstop. A stationary target platform constructed from metal pipes extended approximately 20 feet parallel to this hillside. During firing operations,

marksmen apparently stood close to or within the wooden structure and fired toward the west at a target located in front of the hillside (Range 1 berm). Spent cartridges may have been ejected onto the ground and then put into containers within the shed or into 55-gallon drums. Range 2 at the OPR was oriented roughly north-south and used a manmade earthen berm (Range 2 berm) as a backstop. No evidence of a permanent target holder was present at this range. During firing operations, marksmen apparently stood close to the wooden shed and fired to the north into the berm. The OPR is vegetated and in an "unmaintained" condition, and as a result, small trees and brush cover the entire area. See Figure 1-4 for the locations of Range 1 and Range 2 within SWMU 7.

The nature and extent of contamination and the associated risks at the OPR site of SWMU 7 are based on the results of investigations and studies conducted by the United States Army Corps of Engineers (USACE) and Tetra Tech. The reports generated from these investigations include the following:

- Draft Report, RCRA Facility Investigation, Phase II Soils, Old Rifle Range for: SWMU 07/09 [USACE Waterways Experiment Station (WES), 1991].
- Phase III Soils RFI for SWMU 7 (Tetra Tech, 2005a).
- Phase III Soils RFI Addendum for SWMU 7 (Tetra Tech, 2005b).

1.4 SCOPE OF WORK

The IM documented in this report was conducted to remove all soil associated with the Range 1 and Range 2 berms with lead concentrations greater than the residential media cleanup standard (MCS) of 400 milligrams per kilogram (mg/kg) to attain the corrective action objective and to allow for unrestricted future use of the site. The IM was completed by the following activities:

- Excavation of contaminated soil from the Hillside Range 1 berm with lead concentrations greater than the MCS.

- Excavation of contaminated soil from the Range 2 berm with lead concentrations greater than the MCS.

- Conducting verification sampling utilizing X-ray fluorescence (XRF) field equipment for on-site analysis, along with confirmation analysis at a fixed-base laboratory.

- Disposal of all lead-contaminated soil at an approved off-site hazardous waste disposal facility.

- Regrading of the excavation areas and all other impacted areas.

- Seeding all restored areas impacted by the activities associated with this IM.

In addition to removal of the excavated soil, any debris found within the excavation area was disposed off site.

Important requirements and assumptions of the OPR IM included the following:

- Based on known activities at the OPR, munitions and explosives of concern (MEC) were not a concern at this site, and therefore no activity was conducted regarding MEC surveillance.

- All contaminated soil excavated from the site was transported to a proper off-site disposal facility (see Section 2.7).

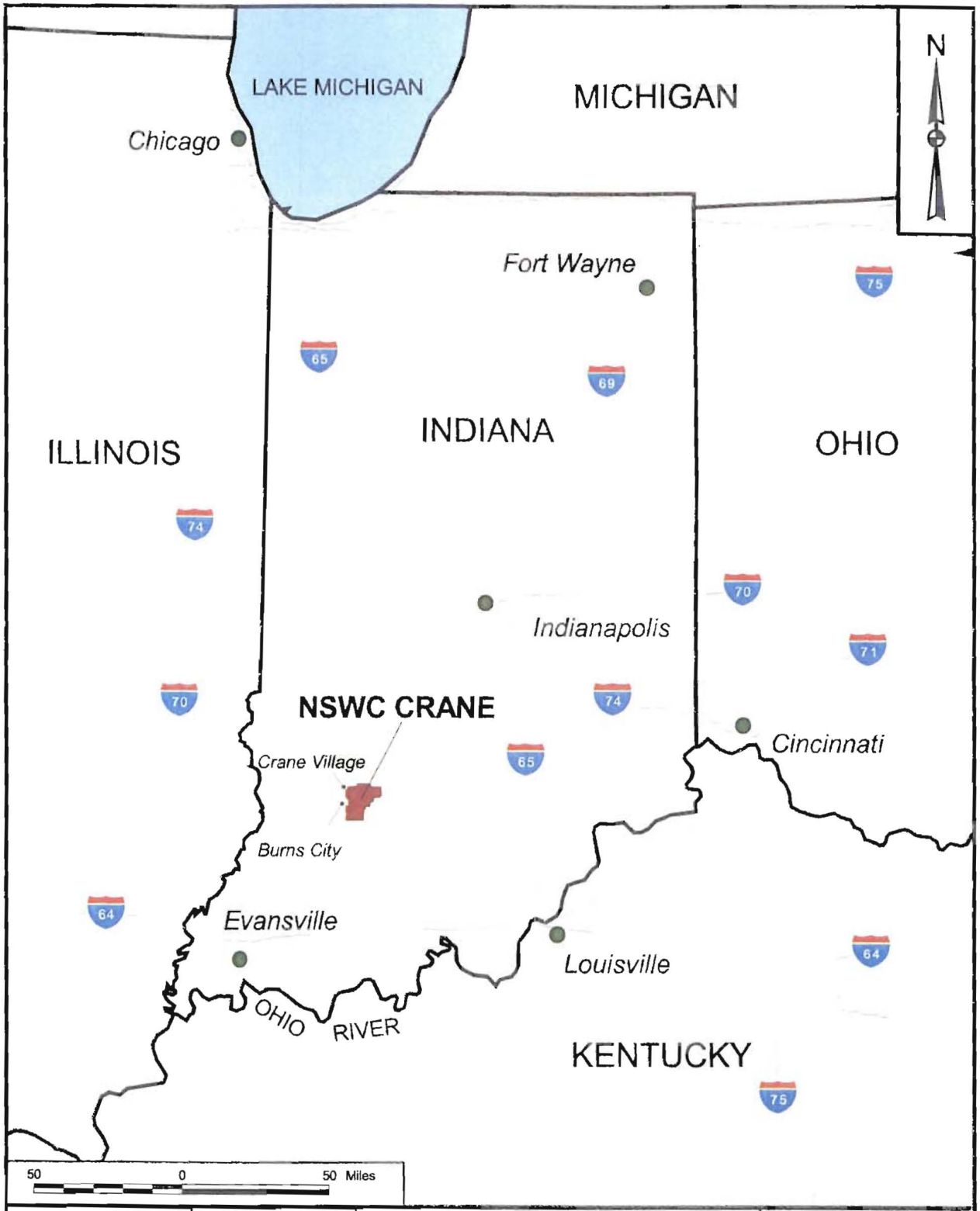
- Excavation was initially based on the design limits and specified depths as outlined in the approved Interim Measures Work Plan (IMWP) (Tetra Tech, 2006a). Additional excavation was required outside the initial remediation design area as described in Section 2.6.

- Tetra Tech personnel conducted all verification sampling and field XRF analysis, with confirmation samples analyzed at a fixed-base laboratory.

1.5 REPORT ORGANIZATION

The following information is contained in the remainder of this document:

- Section 2.0 discusses the IM activities and verification and confirmation sampling and their results.
- Section 3.0 presents the conclusions of the IM.



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NAVFAC

GENERAL LOCATION MAP
SWMU 7 INTERIM MEASURES REPORT
NSWC CRANE
CRANE, INDIANA

CONTRACT NUMBER	
CTO 0020	
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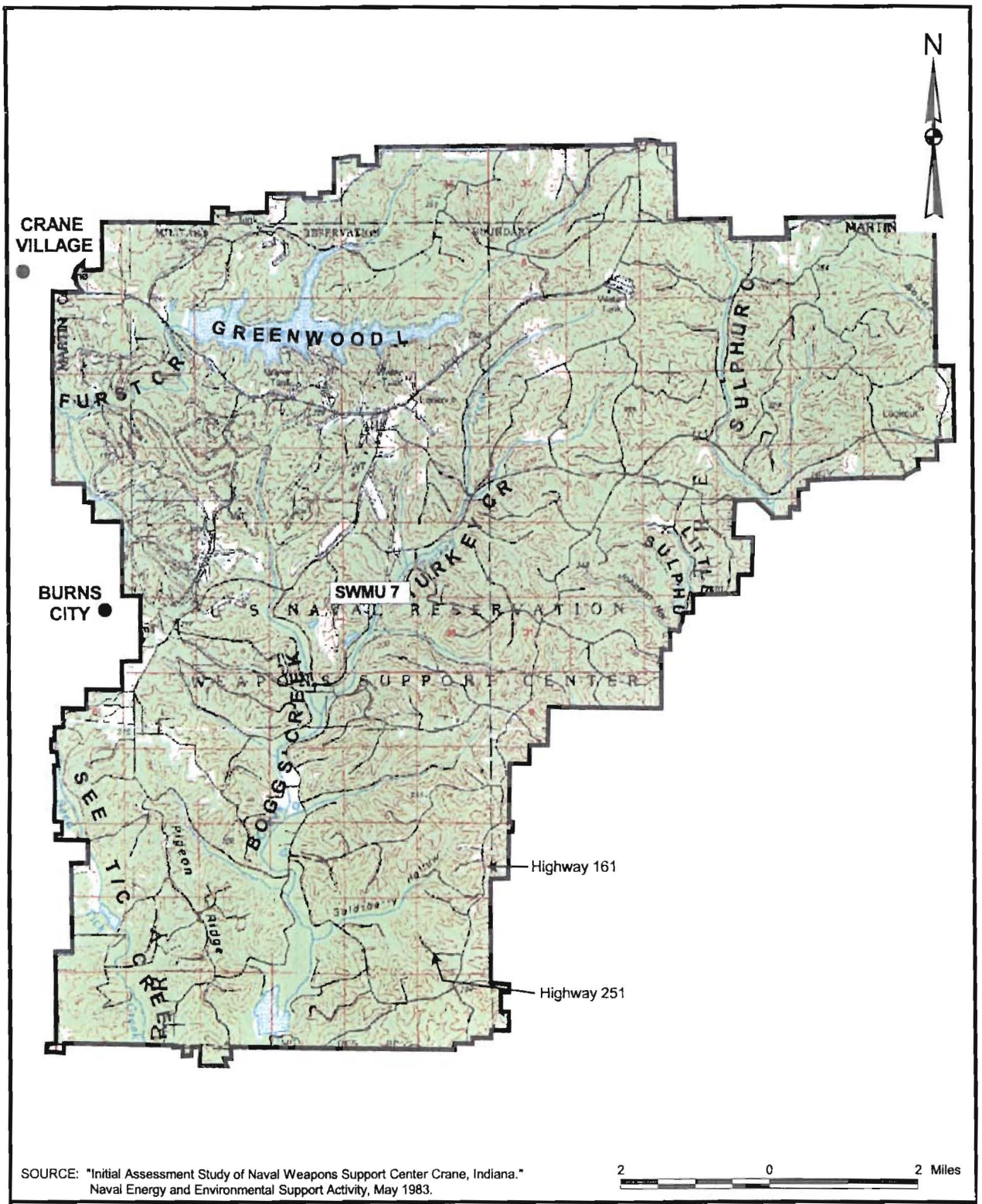

SOURCE: "Initial Assessment Study of Naval Weapons Support Center Crane, Indiana." Naval Energy and Environmental Support Activity, May 1983.

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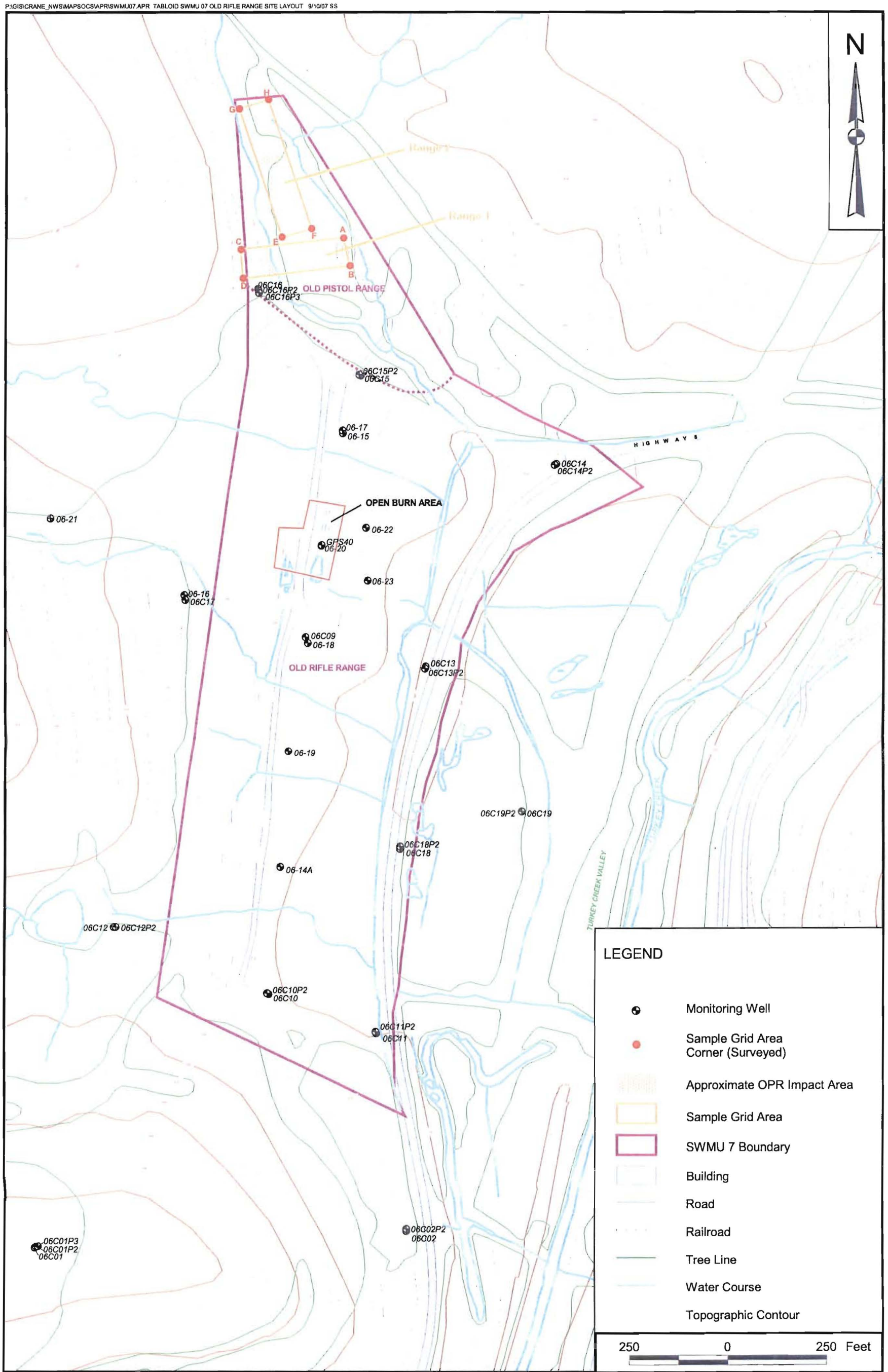

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SWMU 7 - OLD RIFLE RANGE SITE MAP

INTERIM MEASURES REPORT

NSWC CRANE

CRANE, INDIANA

CONTRACT NUMBER	
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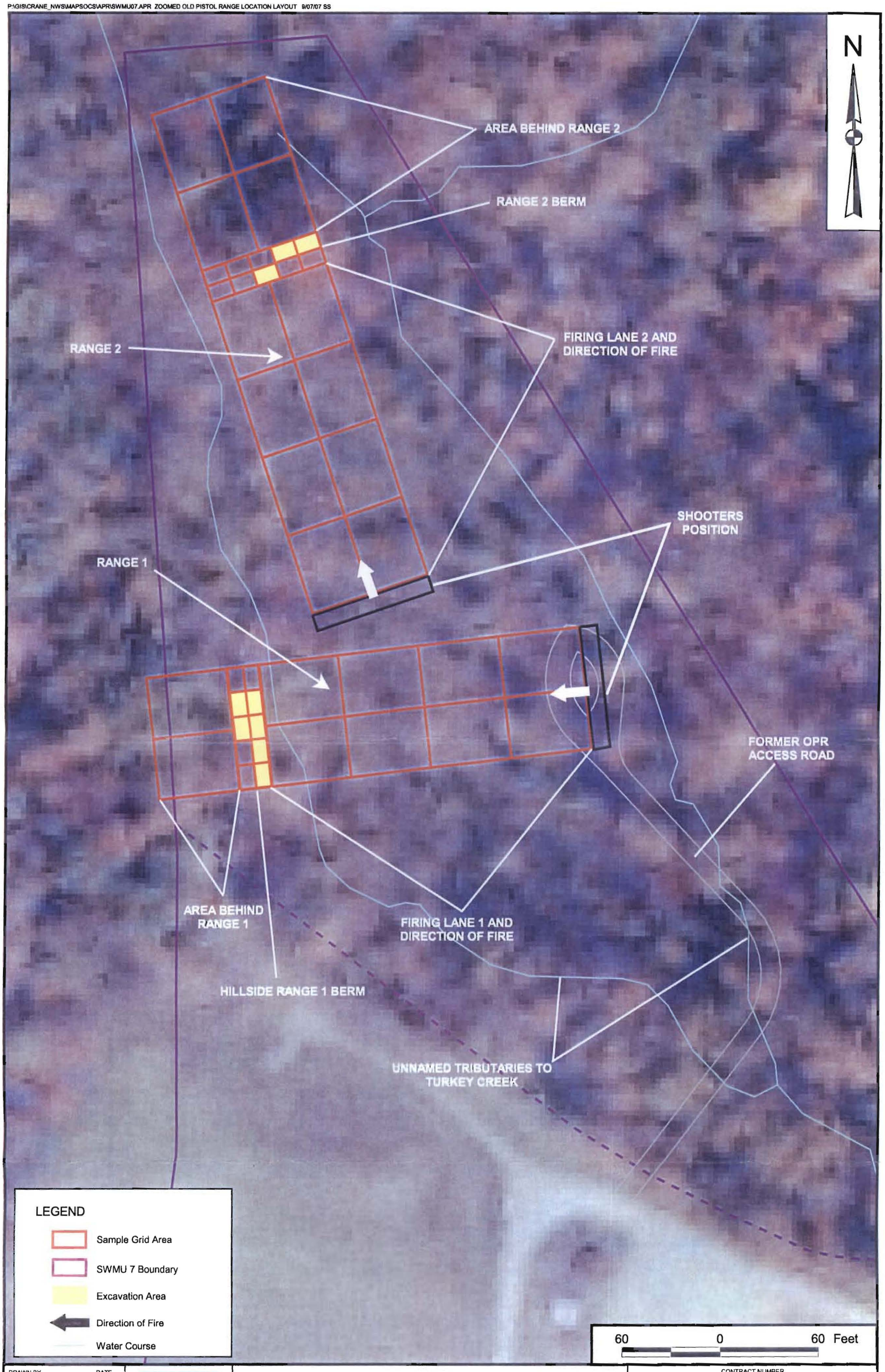

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2.0 DESCRIPTION OF REMEDIAL ACTIVITIES

2.1 PURPOSE

The purpose of this section is to present the sample results used to confirm that no further removal of lead-contaminated soil is required to satisfy regulatory requirements. Details of the environmental sampling, including sampling locations and analyses, are provided below. The sampling procedures, proposed sample locations, and fixed-base laboratory analytical methods are addressed in the Quality Assurance Project Plan (QAPP) Addendum No. 1 (Tetra Tech, 2006b).

The Environmental Multiple Award Contractor (EMAC) responsible for all on-site construction and excavation activities was D&T Environmental, LLC (D&T). D&T Quality Assurance and Production Reports are located in Appendix F of this document. Tetra Tech personnel completed the verification and confirmation sampling activities. All health and safety documentation for both D&T and Tetra Tech is located in Appendix G of this document. The IM activities performed at the OPR were in accordance with the approved IMWP (Tetra Tech, 2006a) and the QAPP Addendum No. 1 (Tetra Tech, 2006b).

2.2 SITE PREPARATION

Site preparation included the preparatory work to begin the IM at the site. Pre-construction teleconference calls between the Navy, Tetra Tech, and D&T were conducted prior to field mobilization activities. The objectives of these calls were to review the responsibilities of each party and to establish lines of communication. D&T requested that the NSWC Crane Public Works Department mark all underground utilities within the area of IM activities. No underground utilities were identified within the work area.

2.2.1 Mobilization

Initial mobilization to the site by D&T personnel was conducted in January 2007. Upon mobilization, D&T set up temporary facilities on site. Site controls and staging areas were established to support project activities. D&T installed erosion and sediment controls to prevent on-site work activities from impacting down-gradient areas (see Section 2.3). Temporary gravel roads were installed to facilitate access to the site for vehicles and equipment. The access roads were inspected on a daily basis during site activities and maintained via grading as necessary.

Tetra Tech personnel mobilized to the site on January 22, 2007, and worked out of the field office at NSWC Crane.

2.2.1 Clearing

Initial clearing, grubbing, and excavation began on January 23, 2007. Clearing and grubbing was limited to the two range berms and the area required for installation of the temporary access roads. The cleared material (underbrush, small trees) was staged in piles within the nearby tree line.

2.3 EROSION AND SEDIMENT CONTROLS

Temporary erosion controls for the removal activities consisted of a temporary gravel access road, silt fence, and stream crossing, which were all installed in accordance with Section 4.2 and Tables 4-2A and 4-2B of the SWMU 7 IMWP (Tetra Tech, 2006a). Silt fencing was installed prior to any earth-moving activities at the site along the downslope sides of each excavation area and the access roads to provide a temporary sediment barrier. The silt fence was inspected periodically during the remediation project to ensure it maintained integrity.

To provide access to the Range 2 berm, D&T installed a temporary stream crossing. The crossing was constructed by placing various sized corrugated piping in the stream to allow continued flow and then burying the pipes under the same type of gravel used for the temporary access roads (see photo in Appendix C). Upon completion of the remediation project, the pipes and gravel were removed and the stream was restored to its original condition.

2.4 MUNITIONS AND EXPLOSIVES OF CONCERN

Based on preliminary visits to the site, MEC were determined to not be a concern within the areas to be excavated.

2.5 SOIL EXCAVATION AND SAMPLING

IM implementation included the excavation and off-site disposal of soil contaminated with lead at concentrations greater than 400 mg/kg. Both the Range 1 berm and the Range 2 berm were divided into 10 grids. Certain grids within each berm were proposed for excavation and subsequent sampling. Those grids are highlighted in yellow on Figure 1-4 located in Section 1.0 of this report, and further discussed in Section 2.6. Following the initial excavation, exposed soil on the excavation floor and sidewalls was visually examined to determine if any soil containing bullet fragments remained. When bullet fragments

were observed, the excavation limits were increased until bullet fragments were no longer visible. The floor and sidewalls of the excavation area were then sampled to confirm that all soil with lead concentrations greater than the MCS of 400 mg/kg had been removed. The purpose of the excavation floor samples was to determine if the depth of the excavation in a particular excavation area was sufficient or if it needed to be increased to achieve the MCS. The purpose of excavation sidewall samples was to determine if the aerial extent of a particular excavation area was sufficient or if it needed to be increased to achieve the MCS.

To minimize any down time for D&T associated with waiting for analytical results from the fixed-base laboratory, collected samples were analyzed on site for lead using field-portable XRF instrumentation (i.e., XRF Environmental Metal Analyzer). After D&T had completed excavation within a designated excavation area, Tetra Tech personnel visually examined the exposed surface and collected the appropriate verification samples within that excavation area. Those samples were then immediately screened using XRF instrumentation to determine if the lead contamination had been removed from that excavation area (i.e., floor or sidewalls). Each XRF sample was screened three times, and the reported concentration was the average of those three readings. If the XRF results indicated no lead contamination or concentrations were less than the MCS of 400 mg/kg, D&T was informed that no additional excavation was needed at that time, and the sample was then packaged and shipped to a fixed-base laboratory to confirm the XRF results. The fixed-base laboratory then analyzed the sample for lead with a 24-hour turn-around time and reported the results to Tetra Tech. Tetra Tech then informed the Navy and D&T of the results.

When the XRF results indicated the presence of lead at concentrations exceeding the MCS, D&T was informed that additional excavation was required. Floor samples with XRF lead results exceeding the MCS indicated that the excavation depth needed to be increased an additional 6 inches (minimum). Sidewall samples with XRF lead results exceeding the MCS indicated that the aerial extent of the excavation would need to be increased an additional 2 feet (minimum) in the direction of the exceedance to a depth that was equal to the excavation floor elevation. Following additional excavation, additional verification samples were then collected from the newly exposed surfaces using the following criteria:

- If additional excavation within a grid was required on the excavation floor only, an additional verification sample was collected from the newly exposed excavation floor only (no sidewall samples).

- If additional excavation within a grid was required on the excavation sidewalls only, an additional verification sample was collected from the new excavation sidewalls and the newly exposed excavation floor.

- If additional excavation within a grid was required on the excavation floor and sidewalls, an additional verification sample was collected from the new excavation sidewalls and the newly exposed excavation floor.

It can prove quite difficult to correctly estimate the amount of impacted soil required for excavation in this type of a firing range setting. The depth of bullet penetration into the soil and the unknowns regarding actual target placement can vary widely. The SWMU 7 IMWP (Tetra Tech, 2006) estimated the total amount of lead contaminated soil to be removed from both the Range 1 and Range 2 berms to be approximately 76 tons [51 cubic yards (cy)] in the anticipated scenario, and 100 tons (68 cy) in a reasonable worst case scenario. As mentioned earlier in this section, soil excavation continued until no visual bullet fragments were observed and the field XRF analysis showed a concentration less than 400 mg/kg. Due to this removal process of "chasing" the contamination, the total amount of lead impacted soil removed from the berms for disposal was 230 tons (135 cy).

Sampling, sample preparation, XRF instrumentation use, sample shipment, and fixed-base laboratory sample analysis procedures followed the procedures presented in the QAPP Addendum No. 1 (Tetra Tech, 2006b). Sample results were not considered final until the full validation process was complete. Table 2-1 presents field XRF and fixed-base laboratory data for Range 1. Table 2-2 presents field XRF and fixed-base laboratory data for Range 2. The data validation reports can be found in Appendix B of this report.

In no instance did a field XRF screening concentration below 400 mg/kg have an associated fixed-base laboratory result greater than 400 mg/kg. Tables 2-1 and 2-2 provide the concentrations from the three XRF runs, the average XRF concentration, and the laboratory confirmation result for each sample for Range 1 and Range 2, respectively.

2.6 SAMPLE LOCATIONS AND RESULTS

SWMU 7 remediation activities were intended to remove the horizontal and lateral extent of lead contamination within the berms at firing Range 1 and Range 2. Both the Range 1 and Range 2 berms were initially divided into 10 grids that were approximately 10 feet by 15 feet (150 square feet). Verification sampling consisted of one floor sample and up to four sidewall samples from each grid that was excavated. However, when two or more small areas were adjacent to one another, the number of sidewall samples was reduced (e.g., two adjacent areas had a total of six sidewall samples).

The equipment and procedures used for collecting, handling, preserving, recording, logging, and shipping of samples were in accordance with the field SOPs located in Appendix A of the approved QAPP Addendum No. 1 (Tetra Tech, 2006b).

All verification samples collected from both the excavation floors and sidewalls were composite samples. From the excavation floor, each composite sample consisted of four grab locations collected from each of the identified smaller areas. From the excavation sidewalls, composite samples consisted of two grab samples collected along the perimeter wall of each identified smaller area. The locations of the grab samples were randomly determined.

Samples were collected using either a new clean stainless steel trowel, or if the same trowel was used, it was decontaminated in the field between each sample location. The samples were placed in disposable plastic Ziploc bags and taken to the field laboratory where they were properly dried and scanned for lead via a portable XRF analyzer. All samples were scanned three times with the XRF, and the average of those concentrations was used for determination of further excavation requirements. If the average XRF lead concentration was greater than 400 mg/kg, D&T was instructed to continue excavation. If the field XRF lead concentration was less than 400 mg/kg, D&T was instructed to stop excavation in that direction and the sample was then processed for shipment to the fixed-base laboratory for confirmation analysis. Sample locations, along with sample identification numbers, sample dates, and XRF and laboratory concentrations are presented in Tables 2-1 and 2-2. All soil sample logs, quality control logs, and chain-of-custody forms are included in Appendix A of this report.

The following provides information regarding the excavation and sampling activities specific to each range berm.

Range 1

The Range 1 firing area was 75 feet wide by 270 feet long. The Range 1 berm was laid out in a north to south direction with the front impact area of the berm facing east on a downward slope. Figure 2-1 provides a profile of the Range 1 berm. The berm, which measured 75 feet wide by 20 feet long, was subdivided into 10 grids (001 to 010). Each grid was approximately 15 feet wide by 10 feet long, and based on the results of previous investigations, excavation was to be conducted within six of those grids (002, 003, 004, 005, 007, and 008). Refer to Figure 2-1 showing confirmation sample locations at the Range 1 berm.

On January 24, 2007, D&T excavated the soil from the six grids to a depth of 1 foot. A total of 16 samples were initially collected from the Range 1 berm. These samples included one from each grid floor and one from the exterior wall of each grid. Thirteen of the 16 verification samples had average XRF concentrations less than 400 mg/kg MCS, and all were then shipped to a fixed-base laboratory for confirmation. The laboratory results from these 13 locations confirmed that all were less than 400 mg/kg and that no further excavation associated with these locations was required (Table 2-1).

Three of the 16 samples had average XRF lead concentrations greater than the 400 mg/kg MCS. These samples included 07SOCF008A, which was collected from the floor of grid 007 (569 mg/kg); sample 07SOCW009A, which was collected from the western wall of grid 004 (699 mg/kg); and sample 07SOCW010A, which was collected from the western wall of grid 003 (515 mg/kg). The floor of grid 007 was then excavated an additional 1 foot and resampled on January 26, 2007. The XRF lead result decreased significantly to an average of 22 mg/kg, with a laboratory confirmation result of 24 mg/kg. Additional soil was then removed from the western walls of grids 003 and 004, which were adjacent to one another, and the new sidewalls were sampled. The XRF results indicated that the average lead concentrations for both samples remained greater than 400 mg/kg, with the grid 004 sample (07SOCW009B) at 661 mg/kg and the grid 003 sample (07SOCW010B) at 477 mg/kg. D&T was instructed to remove additional soil from the western walls of both grids 003 and 004. A third sample (07SOCW009C) was then collected from the western wall of grid 004; the average XRF lead concentration was 61 mg/kg and the laboratory confirmation result was 30 mg/kg. The third sample (07SOCW010C) collected from the western wall of grid 003 however, increased to 1,162 mg/kg. Additional soil was removed and the western wall of grid 003 was sampled two more times (07SOCW010D and 07SOCW010E), with both XRF concentrations less than the 400 mg/kg MCS. The fixed-base laboratory lead concentration confirmed that the results for all three samples (10C, D, and E) were less than the MCS at 303, 271, and 303 mg/kg, respectively. Based on these results, no further excavation at the Range 1 berm was required.

Range 2

The Range 2 firing area was 75 feet wide by 320 feet long. The berm face at Range 2, which measured 75 feet wide by 20 feet long, was subdivided into 10 grids (011 to 020). Each grid was approximately 15 feet wide by 10 feet long, and based on previous investigations, excavation was to be conducted within three of these grids (013, 016, and 017). Refer to Figure 2-2 showing confirmation sample locations at the Range 2 berm.

On January 23, 2007, D&T excavated the soil from the three grids to a depth of 1 foot. A total of seven samples were initially collected from the Range 2 berm. These samples included one from each grid floor and one from the exterior wall of each grid. Four of seven verification samples had average XRF concentrations less than the 400 mg/kg MCS; and all were then shipped to a fixed-base laboratory for confirmation. The laboratory results from these four locations confirmed that all were less than 400 mg/kg and that no further excavation associated with these locations was required.

Three of the seven samples had average XRF lead concentrations greater than the 400 mg/kg MCS. These samples included 07SOCF001A; which was collected from the floor of grid 013 (641 mg/kg); sample 07SOCW001A; which was collected from the western wall of grid 013 (1,198 mg/kg); and sample 07SOCW002A; which was collected from the northern wall of grid 013 (500 mg/kg). An additional 1 foot of soil was removed from the floor and western and northern walls of grid 013 and then sampled on January 26, 2007. The XRF lead results decreased significantly for all three locations to less than 400 mg/kg. Sample 07SOCF001B, collected on the floor of grid 013, had an average XRF lead concentration of 36 mg/kg and a fixed-base laboratory result of 61 mg/kg. Sample 07SOCW001B, collected along the western wall of grid 013, had an average XRF lead concentration of 37 mg/kg and a fixed-base laboratory result of 38 mg/kg. Sample 07SOCW002B, collected along the northern wall of grid 013, had an average XRF lead concentration of 40 mg/kg and a fixed-base laboratory result of 45 mg/kg. Based on these results, no further excavation at the Range 2 berm was required.

2.7 OFF-SITE DISPOSAL

On December 4, 2006, a D&T representative collected a soil sample from the proposed excavation area for the purpose of waste disposal characterization using the methods required by the NSWC Crane-approved hazardous waste disposal facility. The waste characterization sample was submitted to Pace Analytical for Toxic Characteristic Leaching Procedure (TCLP) lead analysis. A copy of this analysis result can be found in Appendix D. The result indicated the lead-contaminated soil would be classified as non-hazardous.

Approximately 230 tons of lead-impacted soil were excavated from the Range 1 and Range 2 berms at the OPR for off-site disposal as a non-hazardous waste. The soil was disposed at the Lawrence County Regional Landfill located in Sumner, Illinois, which is an Illinois-permitted hazardous waste disposal facility (Illinois profile number UG285867). The soil was transported via dump truck over a 5-day period (January, 23, 24, 25, 29, and 30, 2007) by Jeff Guisewite Trucking. Waste manifests from the Lawrence County Landfill, along with the weigh tickets from NSWC Crane, can be found in Appendix E.

2.8 SITE RESTORATION

Upon completion of the remediation activities, the berms at both Range 1 and Range 2 were regraded with existing soil, seeded, and strawed. No outside backfill was brought in for restoration of the berms.

TABLE 2-1

SUMMARY OF XRF AND FIXED-BASE LABORATORY RESULTS AT RANGE 1
SWMU 7 - OLD RIFLE RANGE
NSWC CRANE
CRANE, INDIANA

LOCATION ID	SAMPLE ID	SAMPLE DATE	XRF RESULTS (mg/kg)				FIXED-BASE LAB RESULT (mg/kg)
			RUN 1	RUN 2	RUN 3	AVERAGE	
07SOCF004	07SOCF004A	1/24/2007	70	77	82	76.33	58
07SOCF005	07SOCF005A	1/24/2007	78	72	78	76.00	31
07SOCF006	07SOCF006A	1/24/2007	44	44	46	44.67	91
07SOCF007	07SOCF007A	1/24/2007	184	198	189	190.33	227
07SOCF008	07SOCF008A	1/24/2007					
07SOCF009	07SOCF009A	1/24/2007	142	142	133	139.00	280
07SOCW005	07SOCW005A	1/24/2007	92	88	83	87.67	165
07SOCW006	07SOCW006A	1/24/2007	153	147	154	151.33	112
07SOCW007	07SOCW007A	1/24/2007	120	129	115	121.33	88
07SOCW008	07SOCW008A	1/24/2007	44	45	39	42.67	35
07SOCW009	07SOCW009A	1/24/2007					NA
07SOCW010	07SOCW010A	1/24/2007					NA
07SOCW011	07SOCW011A	1/24/2007	246	238	253	245.67	344
07SOCW012	07SOCW012A	1/24/2007	96	96	93	95.00	106
07SOCW013	07SOCW013A	1/24/2007	36	40	40	38.67	345
07SOCW014	07SOCW014A	1/24/2007	21	21	18	20.00	21
07SOCF008	07SOCF008B	1/26/2007	25	19	23	22.33	24
07SOCW009	07SOCW009B	1/26/2007					NA
07SOCW010	07SOCW010B	1/26/2007					NA
07SOCW009	07SOCW009C	1/29/2007	64	58	62	61.33	30
07SOCW010	07SOCW010C	1/29/2007					303
07SOCW010	07SOCW010D	1/29/2007	238	238	232	236.00	271
07SOCW010	07SOCW010E	1/29/2007	360	347	350	352.33	303
07SOCW010	07SOCW010F	1/29/2007	---	---	---	---	29

MCS = media cleanup standard.
mg/kg = milligram per kilogram.
NA = not applicable.

A concentration listed in bold exceeded the residential MCS of 400 mg/kg.

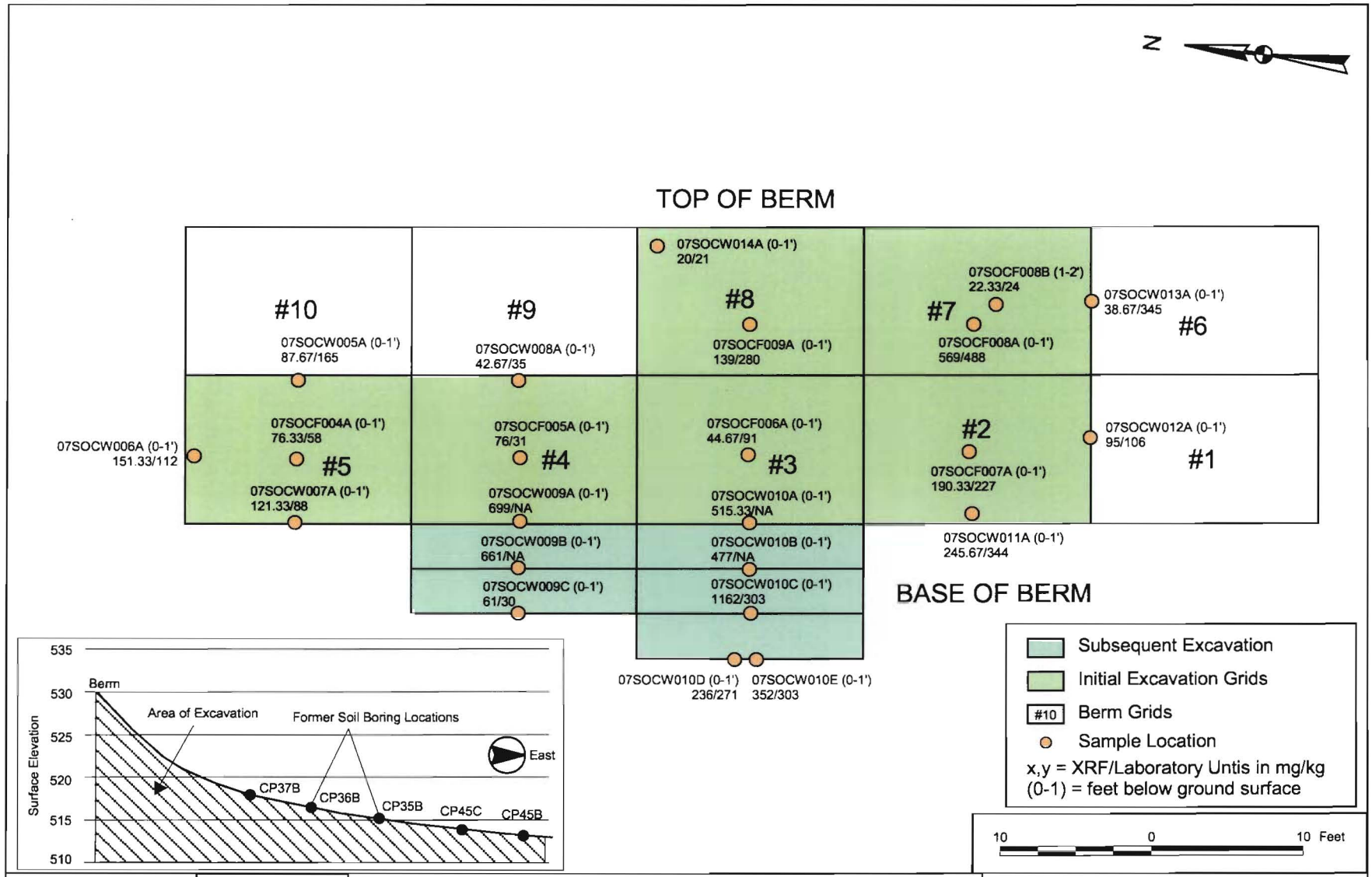
TABLE 2-2

SUMMARY OF XRF AND FIXED-BASE LABORATORY RESULTS AT RANGE 2
SWMU 7 - OLD RIFLE RANGE
NSWC CRANE
CRANE, INDIANA

LOCATION ID	SAMPLE ID	SAMPLE DATE	XRF RESULTS (mg/kg)				FIXED-BASE LAB RESULT (mg/kg)
			RUN 1	RUN 2	RUN 3	AVERAGE	
07SOCF001	07SOCF001A	1/23/2007					NA
07SOCF002	07SOCF002A	1/23/2007	57	59	59	58.33	35
07SOCF003	07SOCF003A	1/23/2007	62	66	70	66.00	28
07SOCW001	07SOCW001A	1/23/2007					
07SOCW002	07SOCW002A	1/23/2007					NA
07SOCW003	07SOCW003A	1/23/2007	32	37	32	33.67	42
07SOCW004	07SOCW004A	1/23/2007	274	192	192	219.33	185
07SOCF001	07SOCF001B	1/26/2007	37	36	34	35.67	61
07SOCW001	07SOCW001B	1/26/2007	36	36	39	37.00	38
07SOCW002	07SOCW002B	1/26/2007	40	38	41	39.67	45

MCS = media cleanup standard.
mg/kg = milligram per kilogram.
NA = not applicable.

A concentration listed in bold exceeded the residential MCS of 400 mg/kg.



DRAWN BY	DATE
K. MOORE	1/16/08
CHECKED BY	DATE
J. GOERDT	1/30/08

COST/SCHEDULE-AREA

SCALE
AS NOTED

NAVFAC

RANGE 1 BERM EXCAVATION GRIDS
SWMU 7 - INTERIM MEASURES REPORT
NSWC CRANE
CRANE, INDIANA

CONTRACT NUMBER
CTO 0020

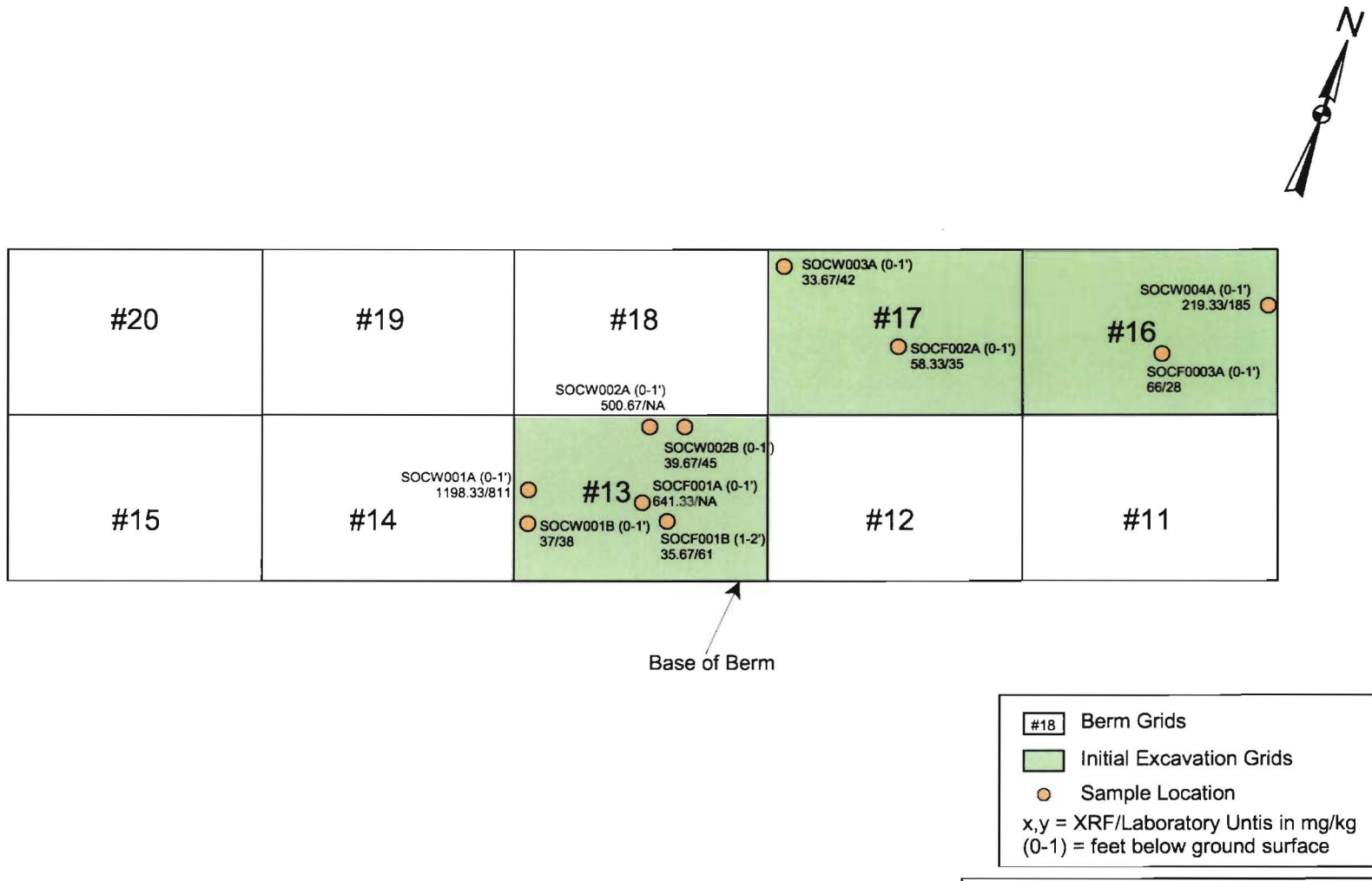
APPROVED BY — DATE —

APPROVED BY — DATE —

DRAWING NO. FIGURE 2 - 1

REV 0

P:\GIS\NSWC_CRANE\7829.APR SWMU 7 RANGE 1 XRF/LAB RESULTS LAYOUT 1/30/08 KM



DRAWN BY	DATE
K. MOORE	1/16/08
CHECKED BY	DATE
J. GOERDT	1/16/08
COST/SCHEDULE-AREA	
SCALE	
AS NOTED	

NAVFAC

RANGE 2 BERM EXCAVATION GRIDS

SWMU 7 - INTERIM MEASURES REPORT

NSWC CRANE

CRANE, INDIANA

CONTRACT NUMBER	
CTO 0020	
APPROVED BY	DATE
—	—
APPROVED BY	DATE
—	—
DRAWING NO.	REV
FIGURE 2 - 2	0

P:\GIS\NSWC_CRANE\7829.APR SWMU 7 RANGE 2 XRF/LAB RESULTS LAYOUT 1/18/08 KM

3.0 CONCLUSIONS

This IM Report summarizes the work performed at NSWC Crane, SWMU 7 by D&T and the verification and confirmation sampling conducted by Tetra Tech.

Based on the results of confirmation sample analyses performed by the fixed-base laboratory (see Appendix D), the residual soil remaining within the Range 1 and Range 2 berms at the OPR is acceptable considering the United States Environmental Protection Agency (U.S. EPA) residential soil levels for lead. No further excavation of soil is required.

REFERENCES

Tetra Tech (Tetra Tech NUS, Inc.), 2005a. Phase III Soils RCRA Facility Investigation, Solid Waste Management Unit 7 (Old Rifle Range), Naval Surface Warfare Center, Crane Division, Crane, Indiana. September.

Tetra Tech, 2005b. Phase III Soils RCRA Facility Investigation, Solid Waste Management Unit 7 Addendum for X-Ray Fluorescence Field Measurement and Soil Sampling for Select Metals at the Old Pistol Range, Naval Surface Warfare Center, Crane Division, Crane, Indiana. September.

Tetra Tech, 2006a. Interim Measures Work Plan for SWMU 7 – Old Rifle Range Old Pistol Range Site, Naval Surface Warfare Center, Crane Division, Crane, Indiana. June.

Tetra Tech, 2006b. Resource Conservation and Recovery Act Addendum No. 1 to the Quality Assurance Project Plan for SWMUs 8, 15, 18, 19, 20 and The Old Gun Tub Storage Lot for Interim Measures at SWMU 7 (Old Rifle Range), SWMU 8 (Building 106 Pond), SWMU 13 (Mine Fill B), and SWMU 17 (PCB Burial/Pole Yard), Naval Surface Warfare Center, Crane Division, Crane, Indiana. November.

USACE WES (United States Army Corps of Engineers Waterways Experiment Station), 1991. Draft Report, RCRA Facility Investigation, Phase II Soils, Old Rifle Range for: SWMU 07/09, Naval Surface Warfare Center, Crane, Indiana. April.

APPENDIX A

SAMPLE LOG SHEETS AND CHAIN-OF-CUSTODY LOG SHEETS

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW001A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW001	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	High concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/23/07	17:56	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/23/07	17:56	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-2
✓	1/23/07	17:56	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW002A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW002	**Created Date**	1/28/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/28/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/23/07	18:05	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/23/07	18:05	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-2
✗	1/23/07	18:05	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW007A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW007	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	16:10	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	16:10	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1
✓	1/24/07	16:10	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW009A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW009	**Created Date**	1/28/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/28/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	16:37	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗	1/24/07	16:37	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		
✓	1/24/07	16:37	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW009B	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW009	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/27/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/26/07	15:40	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/26/07	15:40	Field XRF	Lead - Field XRF	None'	1	Plastic bag	1 gallon baggie		112G00352-1282007-4
✓	1/26/07	15:40	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.	112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW012A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW012	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	17:16	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	17:16	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3
✓	1/24/07	17:16	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW014A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW014	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	18:00	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	18:00	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1
✓	1/24/07	18:00	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCF003A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCF003	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/23/07	17:43	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/23/07	17:43	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-2
✓	1/23/07	17:43	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW011A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW011	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	17:08	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	17:01	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1
✓	1/24/07	17:08	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCF004A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCF004	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	15:45	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	15:45	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3
✓	1/24/07	15:45	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCF008B	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCF008	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/26/07	15:55	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/26/07	15:55	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.	112G00352-1262007-1
✓	1/26/07	15:55	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-4

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW005A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW005	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	15:53	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	15:53	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3
✓	1/24/07	15:53	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW006A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW006	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	16:02	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	16:02	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3
✓	1/24/07	16:02	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW013A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW013	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	17:33	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	17:33	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3
✓	1/24/07	17:33	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW001B	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW001	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/26/07	15:18	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/26/07	15:18	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.	112G00352-1262007-1
✓	1/26/07	15:18	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-4

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW003A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW003	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/23/07	18:12	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/23/07	18:12	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-2
✓	1/23/07	18:12	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCF006A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCF006	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	16:46	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	16:46	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3
✓	1/24/07	16:46	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW008A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW008	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	16:29	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	16:29	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1
✓	1/24/07	16:29	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCF001A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCF001	**Created Date**	1/25/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/25/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/23/07	17:25	Trowel	NA	0-1	dark brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/23/07	17:25	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-2
✗	1/23/07	17:25	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		

General Observations and Notes

Collected from the Range 2 Berm.

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW010B	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW010	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/26/07	15:48	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/26/07	15:48	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-4
✓	1/26/07	15:48	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.	112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW010A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW010	**Created Date**	1/28/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/28/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	16:54	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	16:54	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3
✗	1/24/07	16:54	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCF007A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCF007	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	17:01	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	17:01	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3
✓	1/24/07	17:01	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCF008A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCF008	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	High concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	17:25	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	17:25	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3
✓	1/24/07	17:25	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCF005A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCF005	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	16:20	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	16:20	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1
✓	1/24/07	16:20	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCF002A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCF002	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/23/07	17:35	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/23/07	17:35	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1
✓	1/23/07	17:35	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCF009A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCF009	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/24/07	17:45	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/24/07	17:45	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1
✓	1/24/07	17:45	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCF001B	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCF001	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/26/07	15:10	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/26/07	15:10	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified by TtNUS to proceed.	112G00352-1262007-1
✓	1/26/07	15:10	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-4

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW004A	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW004	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Low concentration	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/23/07	18:20	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/23/07	18:20	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-2
✓	1/23/07	18:20	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW002B	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW002	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/26/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/26/07	15:25	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/26/07	15:25	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1282007-4
✓	1/26/07	15:25	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.	112G00352-1262007-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW010C	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW010	**Created Date**	1/29/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/29/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/29/07	11:00	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/29/07	11:00	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1302007-7
✓	1/29/07	11:00	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1302007-5

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW010F	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW010	**Created Date**	1/30/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/30/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/30/07	10:15	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/30/07	10:15	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1302007-6
✓	1/30/07	10:15	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1302007-7

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW009C	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW009	**Created Date**	1/29/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/29/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/29/07	10:50	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/29/07	10:50	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1302007-7
✓	1/29/07	10:50	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1302007-5

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW010D	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW010	**Created Date**	1/29/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/29/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/29/07	16:00	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/29/07	16:00	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1302007-7
✓	1/29/07	16:00	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1302007-5

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Sample ID #**	07SOCW010E	**Created By**	David Hickey
TtNUS Project #	112G00352	**Sample Location ID**	07SOCW010	**Created Date**	1/30/07
Task/Contract #	CTO 0020	**Sampled By**	David Hickey	**Modified By**	David Hickey
WBS Code #		**Concentration**	Not known	**Modified Date**	1/30/07
QA Sample Type				**Printed By**	James Goerdt
Status	Working			**Printed Date**	2/22/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
1/29/07	16:15	Trowel	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/29/07	16:15	Field XRF	Lead - Field XRF	None	1	Plastic bag	1 gallon baggie		112G00352-1302007-5
✓	1/29/07	16:15	SW-846 6010B	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap		112G00352-1302007-7

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

QUALITY CONTROL SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**QC Sample ID #**	07FD01260701	**Created By**	David Hickey
TtNUS Project #	112G00352	**Corresponding Sample ID**	07SOCW009B	**Created Date**	1/27/07
Task/Contract #	CTO 0020	**QA Sample Type**	Field Duplicate	**Modified By**	David Hickey
WBS Code #		**Sample Location**	QC	**Modified Date**	1/27/07
Status	Working	**Sampled By**	David Hickey	**Printed By**	James Goerdt
		Concentration	-Select-	**Printed Date**	2/22/07

Log Entries

Collected	Date	Time	Analysis / Method	Description of Analysis	Count	Type	Requirements	Matrix	Preservative		Comments	Chain of Custody #
✗	1/26/07	00:00	SW-846 6010B	Lead	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	SO	None	Please HOLD this sample until notified to proceed by TtNUS.		
✓	1/26/07	00:00	Field XRF	Lead - Field XRF	1	Plastic bag	1 gallon baggie	SO	None		112G00352-1282007-4	

Tetra Tech NUS, Inc.

QUALITY CONTROL SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**QC Sample ID #**	07FD01240701	**Created By**	David Hickey
TtNUS Project #	112G00352	**Corresponding Sample ID**	07SOCF004A	**Created Date**	1/26/07
Task/Contract #	CTO 0020	**QA Sample Type**	Field Duplicate	**Modified By**	David Hickey
WBS Code #		**Sample Location**	QC	**Modified Date**	1/26/07
Status	Working	**Sampled By**	David Hickey	**Printed By**	James Goerdt
		Concentration	Low concentration	**Printed Date**	2/22/07

Log Entries

Collected	Date	Time	Analysis / Method	Description of Analysis	Count	Type	Requirements	Matrix	Preservative		Comments	Chain of Custody #
X	1/24/07	00:00	Field XRF	Lead - Field XRF	1	Plastic bag	1 gallon baggie	SO	None			
✓	1/24/07	00:00	SW-846 6010B	Lead	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	SO	None		112G00352-1262007-1	

Tetra Tech NUS, Inc.

QUALITY CONTROL SAMPLING LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**QC Sample ID #**	07FD01290701	**Created By**	David Hickey
TtNUS Project #	112G00352	**Corresponding Sample ID**	07SOCW009C	**Created Date**	1/29/07
Task/Contract #	CTO 0020	**QA Sample Type**	Field Duplicate	**Modified By**	David Hickey
WBS Code #		**Sample Location**	QC	**Modified Date**	1/29/07
Status	Working	**Sampled By**	David Hickey	**Printed By**	James Goerdt
		Concentration	-Select-	**Printed Date**	2/22/07

Log Entries

Collected	Date	Time	Analysis / Method	Description of Analysis	Count	Type	Requirements	Matrix	Preservative		Comments	Chain of Custody #
✗	1/29/07	00:00	SW-846 6010B	Lead	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	SO	None			
✓	1/29/07	00:00	Field XRF	Lead - Field XRF	1	Plastic bag	1 gallon baggie	SO	None		112G00352-1302007-5	

Tetra Tech NUS, Inc.

CHAIN OF CUSTODY LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Project Manager (PM)**	Ralph Basinski	**Created By**	David Hickey
TtNUS Project #	112G00352-	**PM Telephone**		**Created Date**	1/28/07
Task/Contract #	CTO 0020	**Field Op Leader (FOL)**	David Hickey	**Modified By**	
WBS Code #	17.310	**FOL Phone**		**Modified Date**	
Chain of Custody ID	112G00352-1282007-2	**Carrier**	Hand Deliver	**Printed By**	James Goerdt
		Carrier/Waybill No.	NA	**Printed Date**	2/22/07

Chain of Custody Information

Chain of Custody #	**112G00352-1282007-2**	**Lab Name**	Tetra Tech NUS	**Relenquished By**	David Hickey
Carrier	Hand Deliver	**Address**	661 Andersen Drive	**Date**	01/23/2007
Carrier/Waybill No.	NA	**City, State, Zip**	Pittsburgh, PA 15220	**Time**	19:00
		Lab Contact	Dave Hickey	**Received By:**	Hand Deliver
		Lab Telephone	865-483-9900	**Date**	1/23/07
				Time	19:00

Sample Records

Date	Sample ID#	Time	Analysis	Description	Loc ID	Matrix	Preservative	No.	Type	Requirements	Comments
1/23/07	07SOCF001A	17:25	Field XRF	Lead - Field XRF	07SOCF001	SO	None	1	Plastic bag	1 gallon baggie	
1/23/07	07SOCF002A	17:35	Field XRF	Lead - Field XRF	07SOCF002	SO	None	1	Plastic bag	1 gallon baggie	
1/23/07	07SOCF003A	17:43	Field XRF	Lead - Field XRF	07SOCF003	SO	None	1	Plastic bag	1 gallon baggie	
1/23/07	07SOCW001A	17:56	Field XRF	Lead - Field XRF	07SOCW001	SO	None	1	Plastic bag	1 gallon baggie	
1/23/07	07SOCW002A	18:05	Field	Lead - Field	07SOCW002	SO	None	1	Plastic	1 gallon	

			XRF	XRF					bag	baggie	
1/23/07	07SOCW003A	18:12	Field XRF	Lead - Field XRF	07SOCW003	SO	None	1	Plastic bag	1 gallon baggie	
1/23/07	07SOCW004A	18:20	Field XRF	Lead - Field XRF	07SOCW004	SO	None	1	Plastic bag	1 gallon baggie	

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

CHAIN OF CUSTODY LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Project Manager (PM)**	Ralph Basinski	**Created By**	David Hickey
TtNUS Project #	112G00352	**PM Telephone**		**Created Date**	1/28/07
Task/Contract #	CTO 0020	**Field Op Leader (FOL)**	David Hickey	**Modified By**	
WBS Code #	17.310	**FOL Phone**		**Modified Date**	
Chain of Custody ID	112G00352-1282007-3	**Carrier**	Hand Deliver	**Printed By**	James Goerdt
		Carrier/Waybill No.	NA	**Printed Date**	2/22/07

Chain of Custody Information

Chain of Custody #	**112G00352-1282007-3**	**Lab Name**	Tetra Tech NUS	**Relenquished By**	David Hickey
Carrier	Hand Deliver	**Address**	661 Andersen Drive	**Date**	01/24/2007
Carrier/Waybill No.	NA	**City, State, Zip**	Pittsburgh, PA 15220	**Time**	18:30
		Lab Contact	Dave Hickey	**Received By:**	Hand Deliver
		Lab Telephone	865-483-9900	**Date**	1/24/07
				Time	18:30

Sample Records

Date	Sample ID#	Time	Analysis	Description	Loc ID	Matrix	Preservative	No.	Type	Requirements	Comments
1/24/07	07SOCF004A	15:45	Field XRF	Lead - Field XRF	07SOCF004	SO	None	1	Plastic bag	1 gallon baggie	
1/24/07	07SOCF005A	16:20	Field XRF	Lead - Field XRF	07SOCF005	SO	None	1	Plastic bag	1 gallon baggie	
1/24/07	07SOCF006A	16:46	Field XRF	Lead - Field XRF	07SOCF006	SO	None	1	Plastic bag	1 gallon baggie	
1/24/07	07SOCF007A	17:01	Field XRF	Lead - Field XRF	07SOCF007	SO	None	1	Plastic bag	1 gallon baggie	
1/24/07	07SOCF008A	17:25	Field XRF	Lead - Field XRF	07SOCF008	SO	None	1	Plastic bag	1 gallon baggie	
1/24/07	07SOCF009A	17:45	Field XRF	Lead - Field	07SOCF009	SO	None	1	Plastic bag	1 gallon	

				XRF						baggie	
1/24/07	07SOCW005A	15:53	Field XRF	Lead - Field XRF	07SOCW005	SO	None	1	Plastic bag	1 gallon baggie	
1/24/07	07SOCW006A	16:02	Field XRF	Lead - Field XRF	07SOCW006	SO	None	1	Plastic bag	1 gallon baggie	

Tetra Tech NUS, Inc.

CHAIN OF CUSTODY LOG

SWMU 7 Remediation - CRANE NSWC

Sample Records

Date	Sample ID#	Time	Analysis	Description	Loc ID	Matrix	Preservative	No.	Type	Requirements	Comments
1/24/07	07SOCW007A	16:10	Field XRF	Lead - Field XRF	07SOCW007	SO	None	1	Plastic bag	1 gallon baggie	
1/24/07	07SOCW008A	16:29	Field XRF	Lead - Field XRF	07SOCW008	SO	None	1	Plastic bag	1 gallon baggie	
1/24/07	07SOCW009A	16:37	Field XRF	Lead - Field XRF	07SOCW009	SO	None	1	Plastic bag	1 gallon baggie	
1/24/07	07SOCW010A	16:54	Field XRF	Lead - Field XRF	07SOCW010	SO	None	1	Plastic bag	1 gallon baggie	
1/24/07	07SOCW011A	17:08	Field XRF	Lead - Field XRF	07SOCW011	SO	None	1	Plastic bag	1 gallon baggie	
1/24/07	07SOCW012A	17:16	Field XRF	Lead - Field XRF	07SOCW012	SO	None	1	Plastic bag	1 gallon baggie	
1/24/07	07SOCW013A	17:33	Field XRF	Lead - Field XRF	07SOCW013	SO	None	1	Plastic bag	1 gallon baggie	
1/24/07	07SOCW014A	18:00	Field XRF	Lead - Field XRF	07SOCW014	SO	None	1	Plastic bag	1 gallon baggie	

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

CHAIN OF CUSTODY LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Project Manager (PM)**	Ralph Basinski	**Created By**	David Hickey
TtNUS Project #	112G00352	**PM Telephone**		**Created Date**	1/26/07
Task/Contract #	CTO 0020	**Field Op Leader (FOL)**	David Hickey	**Modified By**	
WBS Code #	17.310	**FOL Phone**		**Modified Date**	
Chain of Custody ID	112G00352-1262007-1	**Carrier**	Federal Express	**Printed By**	James Goerdt
		Carrier/Waybill No.	8494 1921 6327	**Printed Date**	2/22/07

Chain of Custody Information

Chain of Custody #	**112G00352-1262007-1**	**Lab Name**	Laucks Testing Laboratories, Inc	**Relenquished By**	David Hickey
Carrier	Federal Express	**Address**	940 South Harney Street	**Date**	01/26/2007
Carrier/Waybill No.	8494 1921 6327	**City, State, Zip**	Seattle, WA 98108	**Time**	18:00
		Lab Contact	Elaine Walker	**Received By:**	Federal Express
		Lab Telephone	206-957-2433	**Date**	1/26/07
				Time	18:00

Sample Records

Date	Sample ID#	Time	Analysis	Description	Loc ID	Matrix	Preservative	No.	Type	Requirements	Comments
1/23/07	07SOCF002A	17:35	SW-846 6010B	Lead	07SOCF002	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/23/07	07SOCF003A	17:43	SW-846 6010B	Lead	07SOCF003	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/23/07	07SOCW001A	17:56	SW-846 6010B	Lead	07SOCW001	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/23/07	07SOCW003A	18:12	SW-846 6010B	Lead	07SOCW003	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon	

										cap	
1/23/07	07SOCW004A	18:20	SW-846 6010B	Lead	07SOCW004	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/24/07	07FD01240701	00:00	SW-846 6010B	Lead	QC	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/24/07	07SOCF004A	15:45	SW-846 6010B	Lead	07SOCF004	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/24/07	07SOCF005A	16:20	SW-846 6010B	Lead	07SOCF005	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	

Tetra Tech NUS, Inc.

CHAIN OF CUSTODY LOG

SWMU 7 Remediation - CRANE NSWC

Sample Records

Date	Sample ID#	Time	Analysis	Description	Loc ID	Matrix	Preservative	No.	Type	Requirements	Comments
1/24/07	07SOCF006A	16:46	SW-846 6010B	Lead	07SOCF006	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/24/07	07SOCF007A	17:01	SW-846 6010B	Lead	07SOCF007	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/24/07	07SOCF008A	17:25	SW-846 6010B	Lead	07SOCF008	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/24/07	07SOCF009A	17:45	SW-846 6010B	Lead	07SOCF009	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/24/07	07SOCW005A	15:53	SW-846 6010B	Lead	07SOCW005	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/24/07	07SOCW006A	16:02	SW-846 6010B	Lead	07SOCW006	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/24/07	07SOCW007A	16:10	SW-846 6010B	Lead	07SOCW007	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/24/07	07SOCW008A	16:29	SW-846 6010B	Lead	07SOCW008	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/24/07	07SOCW011A	17:01	SW-846 6010B	Lead	07SOCW011	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	

1/24/07	07SOCW012A	17:16	SW-846 6010B	Lead	07SOCW012	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/24/07	07SOCW013A	17:33	SW-846 6010B	Lead	07SOCW013	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/24/07	07SOCW014A	18:00	SW-846 6010B	Lead	07SOCW014	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/26/07	07SOCF001B	15:10	SW-846 6010B	Lead	07SOCF001	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified by TtNUS to proceed.
1/26/07	07SOCF008B	15:55	SW-846 6010B	Lead	07SOCF008	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.
1/26/07	07SOCW001B	15:18	SW-846 6010B	Lead	07SOCW001	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.
1/26/07	07SOCW002B	15:25	SW-846 6010B	Lead	07SOCW002	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.
1/26/07	07SOCW009B	15:40	SW-846 6010B	Lead	07SOCW009	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon	Please HOLD this sample until notified

										cap	to proceed by TtNUS.
1/26/07	07SOCW010B	15:48	SW-846 6010B	Lead	07SOCW010	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

CHAIN OF CUSTODY LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Project Manager (PM)**	Ralph Basinski	**Created By**	David Hickey
TtNUS Project #	112G00352	**PM Telephone**		**Created Date**	1/28/07
Task/Contract #	CTO 0020	**Field Op Leader (FOL)**	David Hickey	**Modified By**	
WBS Code #	17.310	**FOL Phone**		**Modified Date**	
Chain of Custody ID	112G00352-1282007-4	**Carrier**	Hand Deliver	**Printed By**	James Goerdt
		Carrier/Waybill No.	NA	**Printed Date**	2/22/07

Chain of Custody Information

Chain of Custody #	**112G00352-1282007-4**	**Lab Name**	Tetra Tech NUS	**Relenquished By**	David Hickey
Carrier	Hand Deliver	**Address**	661 Andersen Drive	**Date**	01/26/2007
Carrier/Waybill No.	NA	**City, State, Zip**	Pittsburgh, PA 15220	**Time**	16:30
		Lab Contact	Dave Hickey	**Received By:**	Hand Deliver
		Lab Telephone	865-483-9900	**Date**	1/26/07
				Time	16:30

Sample Records

Date	Sample ID#	Time	Analysis	Description	Loc ID	Matrix	Preservative	No.	Type	Requirements	Comments
1/26/07	07FD01260701	00:00	Field XRF	Lead - Field XRF	QC	SO	None	1	Plastic bag	1 gallon baggie	
1/26/07	07SOCF001B	15:10	Field XRF	Lead - Field XRF	07SOCF001	SO	None	1	Plastic bag	1 gallon baggie	
1/26/07	07SOCF008B	15:55	Field XRF	Lead - Field XRF	07SOCF008	SO	None	1	Plastic bag	1 gallon baggie	
1/26/07	07SOCW001B	15:18	Field XRF	Lead - Field XRF	07SOCW001	SO	None	1	Plastic bag	1 gallon baggie	
1/26/07	07SOCW002B	15:25	Field XRF	Lead - Field XRF	07SOCW002	SO	None	1	Plastic bag	1 gallon baggie	
1/26/07	07SOCW009B	15:40	Field XRF	Lead - Field	07SOCW009	SO	None	1	Plastic bag	1 gallon	

				XRF						baggie	
1/26/07	07SOCW010B	15:48	Field XRF	Lead - Field XRF	07SOCW010	SO	None	1	Plastic bag	1 gallon baggie	

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

CHAIN OF CUSTODY LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Project Manager (PM)**	Ralph Basinski	**Created By**	David Hickey
TtNUS Project #	112G00352	**PM Telephone**		**Created Date**	1/30/07
Task/Contract #	CTO 0020	**Field Op Leader (FOL)**	David Hickey	**Modified By**	
WBS Code #	17.310	**FOL Phone**		**Modified Date**	
Chain of Custody ID	112G00352-1302007-7	**Carrier**	Federal Express	**Printed By**	James Goerdt
		Carrier/Waybill No.	8494 1921 6305	**Printed Date**	2/22/07

Chain of Custody Information

Chain of Custody #	**112G00352-1302007-7**	**Lab Name**	Laucks Testing Laboratories, Inc	**Relenquished By**	David Hickey
Carrier	Federal Express	**Address**	940 South Harney Street	**Date**	01/30/2007
Carrier/Waybill No.	8494 1921 6305	**City, State, Zip**	Seattle, WA 98108	**Time**	17:52
		Lab Contact	Elaine Walker	**Received By:**	Federal Express
		Lab Telephone	206-957-2433	**Date**	1/30/07
				Time	18:52

Sample Records

Date	Sample ID#	Time	Analysis	Description	Loc ID	Matrix	Preservative	No.	Type	Requirements	Comments
1/29/07	07SOCW009C	10:50	SW-846 6010B	Lead	07SOCW009	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/29/07	07SOCW010C	11:00	SW-846 6010B	Lead	07SOCW010	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/29/07	07SOCW010D	16:00	SW-846 6010B	Lead	07SOCW010	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
1/29/07	07SOCW010E	16:15	SW-846 6010B	Lead	07SOCW010	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon	

										cap	
1/30/07	07SOCW010F	10:15	SW-846 6010B	Lead	07SOCW010	SO	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

CHAIN OF CUSTODY LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Project Manager (PM)**	Ralph Basinski	**Created By**	David Hickey
TtNUS Project #	112G00352	**PM Telephone**		**Created Date**	1/30/07
Task/Contract #	CTO 0020	**Field Op Leader (FOL)**	David Hickey	**Modified By**	
WBS Code #	17.310	**FOL Phone**		**Modified Date**	
Chain of Custody ID	112G00352-1302007-5	**Carrier**	Hand Deliver	**Printed By**	James Goerdt
		Carrier/Waybill No.	NA	**Printed Date**	2/22/07

Chain of Custody Information

Chain of Custody #	**112G00352-1302007-5**	**Lab Name**	Tetra Tech NUS	**Relenquished By**	David Hickey
Carrier	Hand Deliver	**Address**	661 Andersen Drive	**Date**	01/29/2007
Carrier/Waybill No.	NA	**City, State, Zip**	Pittsburgh, PA 15220	**Time**	17:00
		Lab Contact	Dave Hickey	**Received By:**	Hand Deliver
		Lab Telephone	865-483-9900	**Date**	1/29/07
				Time	17:00

Sample Records

Date	Sample ID#	Time	Analysis	Description	Loc ID	Matrix	Preservative	No.	Type	Requirements	Comments
1/29/07	07FD01290701	00:00	Field XRF	Lead - Field XRF	QC	SO	None	1	Plastic bag	1 gallon baggie	
1/29/07	07SOCW009C	10:50	Field XRF	Lead - Field XRF	07SOCW009	SO	None	1	Plastic bag	1 gallon baggie	
1/29/07	07SOCW010C	11:00	Field XRF	Lead - Field XRF	07SOCW010	SO	None	1	Plastic bag	1 gallon baggie	
1/29/07	07SOCW010D	16:00	Field XRF	Lead - Field XRF	07SOCW010	SO	None	1	Plastic bag	1 gallon baggie	
1/29/07	07SOCW010E	16:15	Field XRF	Lead - Field XRF	07SOCW010	SO	None	1	Plastic bag	1 gallon baggie	

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

CHAIN OF CUSTODY LOG

SWMU 7 Remediation - CRANE NSWC

Project Information

Facility Name	CRANE NSWC	**Project Manager (PM)**	Ralph Basinski	**Created By**	David Hickey
TtNUS Project #	112G00352	**PM Telephone**		**Created Date**	1/30/07
Task/Contract #	CTO 0020	**Field Op Leader (FOL)**	David Hickey	**Modified By**	
WBS Code #	17.310	**FOL Phone**		**Modified Date**	
Chain of Custody ID	112G00352-1302007-6	**Carrier**	Hand Deliver	**Printed By**	James Goerdt
		Carrier/Waybill No.	na	**Printed Date**	2/22/07

Chain of Custody Information

Chain of Custody #	**112G00352-1302007-6**	**Lab Name**	Tetra Tech NUS	**Relenquished By**	David Hickey
Carrier	Hand Deliver	**Address**	661 Andersen Drive	**Date**	01/30/2007
Carrier/Waybill No.	na	**City, State, Zip**	Pittsburgh, PA 15220	**Time**	10:30
		Lab Contact	Dave Hickey	**Received By:**	Hand Deliver
		Lab Telephone	865-483-9900	**Date**	1/30/07
				Time	10:30

Sample Records

Date	Sample ID#	Time	Analysis	Description	Loc ID	Matrix	Preservative	No.	Type	Requirements	Comments
1/30/07	07SOCW010F	10:15	Field XRF	Lead - Field XRF	07SOCW010	SO	None	1	Plastic bag	1 gallon baggie	

General Observations and Notes

No Notes

- End of Report -

APPENDIX B

DATA VALIDATION

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. BASINSKI**	**DATE:**	**APRIL 25, 2007**
FROM:	**MATTHEW D. KRAUS**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – LEAD**
NSWC CRANE – CTO 020
SDG – C2001

SAMPLES: 20/Soil/

07FD01240701	07SOCF002A	07SOCF003A
07SOCF004A	07SOCF005A	07SOCF006A
07SOCF007A	07SOCF008A	07SOCF009A
07SOCW001A	07SOCW003A	07SOCW004A
07SOCW005A	07SOCW006A	07SOCW007A
07SOCW008A	07SOCW011A	07SOCW012A
07SOCW013A	07SOCW014A	

Overview

The sample set for NSWC Crane, CTO 20, SDG C2001, consists of twenty soil environmental samples. One field duplicate pair (07FD01240701 / 07SOCF004A) is included in this SDG.

All samples were analyzed for total lead. The samples were collected by Tetra Tech NUS, Inc. on January 23-26, 2007 and analyzed by Laucks Testing Laboratories, Inc. under Department of Defense (DoD) Quality Assurance / Quality Control (QA/QC) criteria. Lead analyses were conducted using SW846 method 6010B and Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES) methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
• Laboratory Method/Preparation Blank Analyses
• Field Duplicate Precision
* • Detection Limits

* - All quality control criteria were met for this parameter.

Laboratory Method/Preparation Blank Analyses

The following contaminant was detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Lead [1]	0.54 mg/kg	2.70 mg/kg

[1] Maximum concentration found in the laboratory preparation blank.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot, percent solids, and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. No data was qualified due to laboratory blank contamination.

Field Duplicate Precision

Field duplicate precision (> 50% RPD) was noted for lead in the field duplicate pair (07FD01240701 / 07SOCF004A) affecting all samples. The positive results reported for lead were qualified as estimated, "J".

Notes

The samples were received at a temperature that exceeded the 4°C ± 2°C control limit by 7 °C. No data was qualified because the temperature exceedance does not affect lead analyses.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: All lead results were qualified due to field duplicate imprecision.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", October 2004, and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced here for were validated according to the agreed upon validation criteria as specified for the DoD QSM and the Quality Assurance Project Plan (QAPP)."

Matthew D. Kraus

Tetra Tech NUS
Matthew D. Kraus
Environmental Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. BASINSKI**	**DATE:**	**APRIL 25, 2007**
FROM:	**MATTHEW D. KRAUS**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – LEAD**
NSWC CRANE – CTO 020
SDG – C2002 / C2003

SAMPLES: 4/Soil/C2002

07SOCF001B 07SOCF008B 07SOCW001B
07SOCW002B

5/Soil/C2003

07SOCW009C 07SOCW010C 07SOCW010D
07SOCW010E 07SOCW010F

Overview

The sample sets for NSWC Crane, CTO 20, SDG C2002 and C2003, consist of four and five soil environmental samples, respectively.

All samples were analyzed for total lead. The samples were collected by Tetra Tech NUS, Inc. on January 26, 2007 and January 29-30, 2007 for SDGs C2002 and C2003, respectively. Laucks Testing Laboratories, Inc. analyzed the samples under Department of Defense (DoD) Quality Assurance / Quality Control (QA/QC) criteria. Lead analyses were conducted using SW846 method 6010B and Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES) methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
  • Laboratory Method/Preparation Blank Analyses
* • Detection Limits

* - All quality control criteria were met for this parameter.

Laboratory Method/Preparation Blank Analyses

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Lead [1] [2]	0.56 mg/kg	2.80 mg/kg
Lead [1] [3]	0.62 mg/kg	3.10 mg/kg

[1] Maximum concentration found in the laboratory preparation blank.
[2] Affects samples in SDG: C2002.
[3] Affects samples in SDG: C2003.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot, percent solids, and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. No data was qualified due to laboratory blank contamination.

Notes

The samples in SDG: C2002 were received at a temperature that exceeded the 4°C ± 2°C control limit by 7 °C. No data was qualified because the temperature exceedance does not affect lead analyses.

The laboratory did not measure the temperature of the incoming samples for SDG: C2003 because those samples were analyzed for lead only.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", October 2004, and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced here for were validated according to the agreed upon validation criteria as specified for the DoD QSM and the Quality Assurance Project Plan (QAPP)."

Matthew D Kraus

Tetra Tech NUS
Matthew D. Kraus
Environmental Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX C

SITE PHOTOGRAPHS

Temporary Gravel Access Road Leading Into the Old Pistol Range

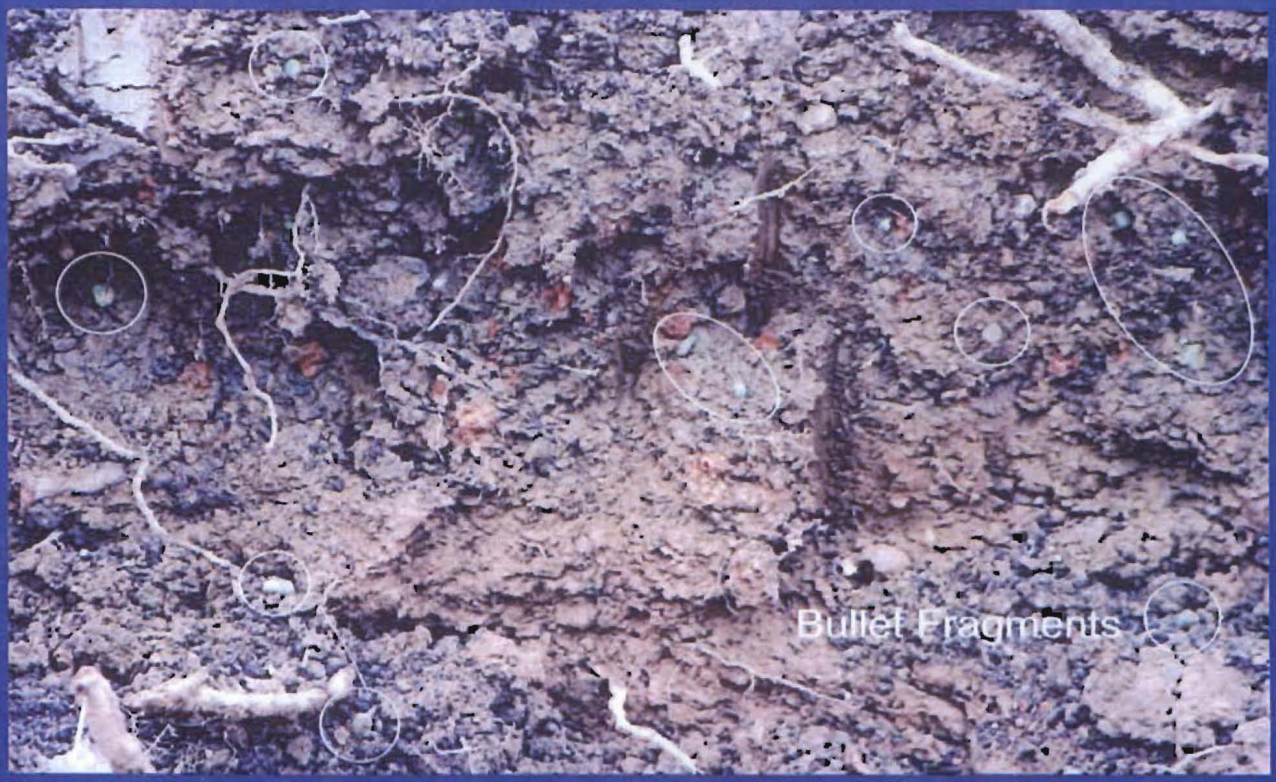
Silt Fence Located at Base of Range 1 Berm

Silt Fence Located at Base of Range 2 Berm

Temporary Stream Crossing Leading to the Range 2 Berm

Excavation of the Range 1 Berm

Excavation of the Range 1 Berm



Bullet Fragments in the Range 1 Berm

Excavation of the Range 2 Berm

Final grading of the Range 2 Berm

APPENDIX D

LABORATORY DATA

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

872518

Page: 1 of

Section A — Required Client Information:

Company: TN+Assoc (O+E Envirc)
Address: 1033 N Mayfair Rd Suite 300
Milwaukee WI
Phone:
Fax:

Section B — Required Client Information:

Report To: Karen Campbell
Copy To:
Invoice To:
P.O.:
Project Name: SWMU-7
Project Number:

Client Information (Check quote/contract):
Requested Due Date:
*TAT: 72-hr

*Turn around time less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C — To Be Completed by Pace Analytical and Client

Quote Reference:
Project Manager: Drew
Project #: 50582 79
Profile #:

Section D — Required Client Information:

SAMPLE ID
One character per box.
(A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes: MATRIX — CODE; DRINKING WATER — DW; GROUNDWATER — GW; SURFACE WATER — SW; WASTE WATER — WW; PRODUCT — P; SOIL — SL; OIL — OL; WIPE — WP; AIR — AR; OTHER — OT

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: Full Lead	Remarks / Lab ID
1	N Berm 1-grid			12/4/06	1330				X								X	651
2	N Berm 2-grid				1520												X	669
3	S Berm 2-grid				1610												X	677
4	S Berm 4-grid				1710												X	685
5	Berm C				1715												X	50622706-44
6																		
7																		
8																		
9																		
10																		
11																		
12																		

hold until verbal

SITE LOCATION: ☐ NC ☐ SC ☐ GA ☐ Other

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ Other

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Karen Campbell	12/5/06	0850	Zellen Tet	12/5/06	850

SAMPLE CONDITION

Temp in °C	1.2
Received on ice	(Y)/N
Sealed Cooler	Y/(N)
Samples Intact	(Y)/N

SAMPLE NOTES

analyze Berm C, hold others until verbal OK

WI 5 OK27.
Clean Deli

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed: (MM / DD / YY)

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev. 0304

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

December 08, 2006

Ms. Karen Campbell
D&T
1033 North Mayfair Road
Suite 200
Milwaukee, WI 53226

RE: Lab Project Number: 5058279
Client Project ID: SWMU-7

Dear Ms. Campbell:

Enclosed are the analytical results for sample(s) received by the laboratory on December 5, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Andrew Votaw
andrew.votaw@pacelabs.com
(317) 875-5894 ext. 105
Project Manager

NELAC/Illinois EPA Certification #100418

Enclosures

REPORT OF LABORATORY ANALYSIS
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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

SAMPLE SUMMARY

Lab Project Number: 5058279
Client Project ID: SWMU-7

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
5058279-001	506270644	BERM C	Soil	12/04/06 17:15	12/05/06 08:50
5058279-002	506270651	N BERM 1-GRID	Soil	12/04/06 13:30	12/05/06 08:50
5058279-003	506270669	N BERM 2-GRID	Soil	12/04/06 15:20	12/05/06 08:50
5058279-004	506270677	S BERM 2-GRID	Soil	12/04/06 16:10	12/05/06 08:50
5058279-005	506270685	S BERM 4-GRID	Soil	12/04/06 17:10	12/05/06 08:50

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SAMPLE ANALYTE COUNT

Lab Project Number: 5058279
Client Project ID: SWMU-7

Project Sample Number	Sample No	Client Sample ID	Analysis Code	Analysis Description	Analytes Reported
5058279-001	506270644	BERM C	6010S LEPA	RCRA Metals, ICP, TCLP Leach.	3

REPORT OF LABORATORY ANALYSIS

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Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5058279
Client Project ID: SWMU-7

Solid results are reported on a wet weight basis

Lab Sample No: 506270644 Project Sample Number: 5058279-001 Date Collected: 12/04/06 17:15
Client Sample ID: BERM C Matrix: Soil Date Received: 12/05/06 08:50

Parameters	Results	Units	PQL	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
RCRA Metals, ICP, TCLP Leach.	Method: EPA 1311							
Date Digested	12/05/06 15:46			12/05/06 15:46				
RCRA Metals, ICP, TCLP Leach.	Prep/Method: EPA 3010 / EPA 6010							
Lead	1.81	mg/l	0.0100	12/07/06 10:15	FRW	7439-92-1		5
Date Digested	12/06/06			12/06/06				

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Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5058279
Client Project ID: SWMU-7

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5058279
Client Project ID: SWMU-7

QC Batch: 126346 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: RCRA Metals, ICP, TCLP Leach.
Associated Lab Samples: 506270644

METHOD BLANK: 506275171
Associated Lab Samples: 506270644

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	ug/l	ND	10.0	

LABORATORY CONTROL SAMPLE: 506275189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Lead	ug/l	1000.00	1046	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 506275197 506275205

Parameter	Units	506270644 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Lead	ug/l	1809	1000.00	2786	2838	98	103	50-150	2		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 506275213 506275221

Parameter	Units	506261064 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Lead	ug/l	2.673	1000.00	1003	992.1	100	99	50-150	1		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 506275239 506275247

Parameter	Units	506268283 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Lead	ug/l	40.21	1000.00	1044	1046	100	101	50-150	0		

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Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5058279
Client Project ID: SWMU-7

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

REPORT OF LABORATORY ANALYSIS

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LAUCKS TESTING LABORATORIES

SAMPLE DATA PACKAGE

TETRA TECH NUS, INC.

SDG NO.: C2001

JANUARY 31, 2007

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

To: Tetra Tech NUS, Inc.
Project No.: CTO 020
Site Name: Crane NSWC
Project Manager: Ralph Basinski
SDG No.: C2001
Date of Report: January 31, 2007

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

Client Sample Identification	Laucks Sample Identification	Testing Analytical Request
07SOCF002A	C2001-001	MET
07SOCF003A	C2001-002	MET
07SOCW001A	C2001-003	MET
07SOCW003A	C2001-004	MET
07SOCW004A	C2001-005	MET
07FD01240701	C2001-006	MET
07SOCF004A	C2001-007	MET
07SOCF005A	C2001-008	MET
07SOCF006A	C2001-009	MET
07SOCF007A	C2001-010	MET
07SCOF008A	C2001-011	MET
07SOCF009A	C2001-012	MET
07SOCW005A	C2001-013	MET
07SOCW006A	C2001-014	MET
07SOCW007A	C2001-015	MET
07SOCW008A	C2001-016	MET
07SOCW011A	C2001-017	MET
07SOCW012A	C2001-018	MET
07SOCW013A	C2001-019	MET
07SOCW014A	C2001-020	MET

Analytical Request Key:

MET = Lead (6010)

Sample Receipt Comments:

There were no anomalies associated with the receipt of these samples.

The temperature blank was measured at a temperature above the control limit of 4°C ± 2°C. Because the only analyses scheduled for this SDG was metals, the high temperature is not an issue.

GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

ICP Metals:

The preparation blank for metals in soil is calculated to mg/kg by assuming a sample weight of 1.00g/100mL. Total solids of 100% are also assumed.

On the first timed and dated page of each ICP run, the data to be reported or rejected will be tabulated for that run.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

ICP Metals:

Lead was present in the batch preparation blank at a level greater than ½ the CRDL. All associated samples contained concentrations of lead that were greater than twenty times the level found in the preparation blank, therefore no further corrective action was required. Data have not been flagged for this event.

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

U The analyte of interest was not detected to the limit of detection indicated.

SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.

PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.

DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.

AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.

J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.

T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.

E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.

P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.

C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial of confirmatory (GC/MS) analysis. See specific report comments for details.

CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

INORGANIC ANALYSES:

J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.

E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.

N Spiked sample recovery not within control limits.

* Duplicate analysis not within control limits.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

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

Respectfully submitted,

M. Elaine Walker
Project Manager

1/31/07
(DATE)

Harry Romberg
Quality Assurance Officer

1/31/07
(DATE)

HOW TO CONTACT US:

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents ($0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

ATTACHMENT A

Chain-of-Custody Copies

LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG

Sample ID (SDG-#)	VTSR	Collected On	Client ID	2540B Total Solids, soil (Inorganic dept.)	6010B Metals (Lead only), Soil
C2001-**001**	01/27/2007 09:00 AM	01/23/2007 05:35 PM	07SOCF002A	A-	A-
C2001-**002**	01/27/2007 09:00 AM	01/23/2007 05:43 PM	07SOCF003A	A-	A-
C2001-**003**	01/27/2007 09:00 AM	01/23/2007 05:56 PM	07SOCW001A	A-	A-
C2001-**004**	01/27/2007 09:00 AM	01/23/2007 06:12 PM	07SOCW003A	A-	A-
C2001-**005**	01/27/2007 09:00 AM	01/23/2007 06:20 PM	07SOCW004A	A-	A-
C2001-**006**	01/27/2007 09:00 AM	01/24/2007 12:00 AM	07FD01240701	A-	A-
C2001-**007**	01/27/2007 09:00 AM	01/24/2007 03:45 PM	07SOCF004A	A-	A-
C2001-**008**	01/27/2007 09:00 AM	01/24/2007 04:20 PM	07SOCF005A	A-	A-
C2001-**009**	01/27/2007 09:00 AM	01/24/2007 04:46 PM	07SOCF006A	A-	A-
C2001-**010**	01/27/2007 09:00 AM	01/24/2007 05:01 PM	07SOCF007A	A-	A-
C2001-**011**	01/27/2007 09:00 AM	01/24/2007 05:25 PM	07SCOF008A	A-	A-
C2001-**012**	01/27/2007 09:00 AM	01/24/2007 05:45 PM	07SOCF009A	A-	A-
C2001-**013**	01/27/2007 09:00 AM	01/24/2007 03:53 PM	07SOCW005A	A-	A-
C2001-**014**	01/27/2007 09:00 AM	01/24/2007 04:02 PM	07SOCW006A	A-	A-
C2001-**015**	01/27/2007 09:00 AM	01/24/2007 06:10 PM	07SOCW007A	A-	A-
C2001-**016**	01/27/2007 09:00 AM	01/24/2007 04:29 PM	07SOCW008A	A-	A-
C2001-**017**	01/27/2007 09:00 AM	01/24/2007 05:01 PM	07SOCW011A	A-	A-
C2001-**018**	01/27/2007 09:00 AM	01/24/2007 05:16 PM	07SOCW012A	A-	A-
C2001-**019**	01/27/2007 09:00 AM	01/24/2007 05:33 PM	07SOCW013A	A-	A-
C2001-**020**	01/27/2007 09:00 AM	01/24/2007 06:00 PM	07SOCW014A	A-	A-

Approved By: **On:**
Notes:

Samples identified with a '*' client has requested QC for

LEGEND: -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged

FORM LTL-PM-8.0

C2001 US1128

6

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00352-1262007-1

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00352	**CRANE NSWC**	**Ralph Basinski**	**Federal Express**	**Laucks Testing Laboratories, Inc 940 South Harney Street Seattle, WA 98108**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0020	**Rush** 24hr.	**David Hickey**	**8494 1921 6327**	**Elaine Walker 206-957-2433**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
01/23/2007	07SOCF002A	17:35	**SW-846 6010B**	07SOCF002	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/23/2007	07SOCF003A	17:43	**SW-846 6010B**	07SOCF003	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/23/2007	07SOCW001A	17:56	**SW-846 6010B**	07SOCW001	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/23/2007	07SOCW003A	18:12	**SW-846 6010B**	07SOCW003	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/23/2007	07SOCW004A	18:20	**SW-846 6010B**	07SOCW004	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07FD01240701	00:00	**SW-846 6010B**	QC	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCF004A	15:45	**SW-846 6010B**	07SOCF004	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCF005A	16:20	**SW-846 6010B**	07SOCF005	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCF006A	16:46	**SW-846 6010B**	07SOCF006	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCF007A	17:01	**SW-846 6010B**	07SOCF007	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCF008A	17:25	**SW-846 6010B**	07SOCF008	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCF009A	17:45	**SW-846 6010B**	07SOCF009	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCW005A	15:53	**SW-846 6010B**	07SOCW005	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCW006A	16:02	**SW-846 6010B**	07SOCW006	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCW007A	16:10	**SW-846 6010B**	07SOCW007	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCW008A	16:29	**SW-846 6010B**	07SOCW008	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCW011A	17:01	**SW-846 6010B**	07SOCW011	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCW012A	17:16	**SW-846 6010B**	07SOCW012	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCW013A	17:33	**SW-846 6010B**	07SOCW013	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/24/2007	07SOCW014A	18:00	**SW-846 6010B**	07SOCW014	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
01/26/2007	07SOCF001B	15:10	**SW-846 6010B**	07SOCF001	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified by TtNUS to proceed.
01/26/2007	07SOCF008B	15:55	**SW-846 6010B**	07SOCF008	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.
01/26/2007	07SOCW001B	15:18	**SW-846 6010B**	07SOCW001	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.
01/26/2007	07SOCW002B	15:25	**SW-846 6010B**	07SOCW002	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.
01/26/2007	07SOCW009B	15:40	**SW-846 6010B**	07SOCW009	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.
01/26/2007	07SOCW010B	15:48	**SW-846 6010B**	07SOCW010	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	Please HOLD this sample until notified to proceed by TtNUS.

~~C2002~~ EW 1/29/07

EW 1/29/07

	Date:	Time:		Date:	Time:
1. Relinquished By: **David Hickey**	01/26/2007	18:00	Received By: **Federal Express**	01/26/2007	
2. Relinquished By:			Received By: Danielle Elderson	01/27/07	900
3. Relinquished By:			Received By:		

Comments:

Cooler Receipt Form
Laucks Testing Laboratories, Inc.

SDG: C2001 Taken By: CLIENT

Cooler: AAK969 Transferred: FEDEX

COC #: 112G00352-1262007-1

Project: CTO 020 Lead Removal (Tetra Tech NUS, Inc.)

Date samples were received at the laboratory: **1/27/2007**

Date cooler was opened: **1/27/2007 9:00AM**

A. PRELIMINARY EXAMINATION PHASE:

1. Did cooler come with a shipping slip (airbill, etc.)? ..... **YES**
   if YES, record carrier name and airbill number: **849419216327**
2. Were custody seals unbroken and intact at the date and time of arrival? ..... **INTACT**
   Date On Custody Seal: Custody Seals Description: **ONE IN FRONT AND ONE IN BACK**
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... **YES**
4. Did you screen samples for radioactivity using the Geiger Counter? ..... **YES**
5. Were custody papers filled out properly (ink, signed, etc.)? ..... **YES**
6. Did you sign custody papers in the appropriate place? ..... **YES**
7. If required, was enough cooling material present? ..... **YES**
8. Have designated person initial here to acknowledge receipt of cooler: DNC

B. LOG-IN PHASE:

Date samples were logged-in: **1/27/2007 9:15AM**

Logged-in by Amanda Pease (sign) Danielle Eiborne

9. Describe type of packing in cooler:

   BUBBLE WRAP

10. Were all bottles sealed in separate plastic bags? ..... **YES**
11. Were labels in good condition? ..... **YES**
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... **YES**
13. Did all bottle labels agree with custody papers? ..... **YES**
14. Were correct containers used for the tests indicated? ..... **YES**
15. Were the correct pHs observed? ..... **YES**
16. Was a sufficient amount of sample sent for tests indicated? ..... **YES**
17. Were bubbles absent in VOA samples? ..... **YES**
18. Temperatures: **13.0**

DISCREPANCIES:

Supplemental Sample Receipt Log
Laucks Testing Laboratories

SDG: **C2001**
Cooler: **AAK969**
Temperatures: **13.0**
COC #: ***112G00352-1262007-1***

Sample	Bottle #	Bottle Description	pH	Bubbles
C2001-001	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-002	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-003	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-004	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-005	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-006	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-007	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-008	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-009	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-010	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-011	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-012	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-013	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-014	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-015	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-016	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-017	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-018	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-019	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2001-020	0001	8 oz jar, wide-mouth, clear glass	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4+/- 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
NC	Not Checked for pH

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

ATTACHMENT B

Index

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

Tetra Tech NUS, Inc.

SDG No.: C2001

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Completed and checked by: Judy Eckhlund Date: 1/31/07

FORMS SUMMARY

C2001

Metals Data

SW-846

-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF002A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-001

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 82.8

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	34.9			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF003A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-002

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 82.9

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	27.5			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846

-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW001A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-003

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 81.4

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	811			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW003A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-004

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 71.6

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	42.2			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846

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INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW004A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-005

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 82.2

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	185			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07FD01240701

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-006

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 80.9

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	323			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF004A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-007

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 81.6

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	57.7			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF005A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-008

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 82.2

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	31.1			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846

-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF006A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-009

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 81.3

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	90.9			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846

-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF007A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-010

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 67.4

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	227			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846

-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SCOF008A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-011

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 80.9

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	488			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF009A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-012

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 80.6

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	280			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW005A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-013

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 79.6

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	165			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW006A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-014

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 74.5

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	112			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846

-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW007A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-015

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 77.5

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	88.2			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW008A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-016

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 81.5

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	34.9			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW011A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-017

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 80.8

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	344			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW012A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-018

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 81

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	106			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW013A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-019

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 79.3

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	345			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW014A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-020

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 81.1

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	21.2			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

Initial Calibration Source: ME-15-153-17

Continuing Calbration Source: ME-15-153-3

Concentration Units: mg/L

Analyte	Initial Calibration ICV				Continuing Calibrations CCV1				CCV2		M
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Lead	90-110	1	0.995	99.5	90 - 110	1.000	1.005	100.5	1.012	101.2	P

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

Initial Calibration Source: ME-15-153-17

Continuing Calbration Source: ME-15-153-3

Concentration Units: mg/L

Analyte	Initial Calibration				Continuing Calibrations						M
					CCV3				CCV4		
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Lead	90-110				90 - 110	1.000	1.015	101.5	1.007	100.7	P

2B-IN

CRDL STANDARD FOR METALS

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

ICP CRDL Standard Source: ME-15-154-13

Concentration Units: mg/L

Analyte	CRDL Standard for ICP					
	Initial CRDL			Final		
	True	Found	%R	Found	%R	Limits
Lead	0.01	0.01	111.9			

Control Limits: no limits have been established by EPA at this time

SW-846

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

Concentration Units: mg/L

Analyte	Inital Calib. Blank ICB	C	Continuing Calibration Blank CCB1 1	C	CCB2 2	C	CCB3 3	C
Lead	0.0023	U	0.0023	U	0.0033	J	0.0023	U

SW-846

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

Concentration Units: mg/L

Analyte	Inital Calib. Blank		Continuing Calibration Blank					
			CCB4 1	C	2	C	3	C
Lead			0.0029	J				

SW-846
3B
BLANKS

Lab Name: Laucks Laboratories
Contract:
Lab Code: LAUCKS SDG No.: C2001
Run Sequence ID: R014570
Lab Sample ID: B012707ICPS02
Prep Batch ID: P015098
Matrix (soil/water): Soil
Date Prepared: 01/27/2007
Concentration Units: mg/Kg

Analyte	Limits	Preparation Blank	C	M
Lead	0.5	0.54	J	P

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

ICS Source: ME-15-154-6

ICP ID Number: ICP (TJA 61E Trace) Concentration Units: mg/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R	Limits
Lead	0	0.050	0.00045	0.054	108.2				

Interference Check Sample Recover Limits: 80 - 120

SW-846

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

07SOCF002AMS

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2001

Run Sequence ID: R014570

Lab Sample ID: C2001-001MS

Prep Batch ID: P015098

Matrix (soil/water): Soil

Level (low/med): LOW

% Solids for Sample: 82.8

Concentration Units: mg/Kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Lead	80 - 120	79.2537		34.8523		47.50	93.4		P

Comments:

SW-846
6
DUPLICATES

SAMPLE NO.

07SOCF002AD

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2001

Run Sequence ID: R014570

Lab Sample ID: C2001-001D

Prep Batch ID: P015098

Level (low/med): LOW

Matrix (soil/water): Soil

% Solids for Duplicate 82.8

% Solids for Sample: 82.8

Concentration Units: mg/Kg

Analyte	Control Limit	Sample	C	Duplicate (D)	C	RPD	Q	M
Lead		34.8523		30.4159		13.6		P

7A

LABORATORY CONTROL SAMPLE

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

Lab Sample ID: S012707ICPS02 Prep Batch ID: P015098

LCS Source: ME-15-152-19

Analyte	Concentration Units: mg/Kg					
	True	Found	C	%R Limits		%R
Lead	50.0	42.358		80	120	84.7

9

ICP SERIAL DILUTIONS

SAMPLE NO.

07SOCF002AL

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

Matrix (soil/water): Soil Level (low/med: LOW

Lab Sample ID: C2001-001L

Analyte	Actual Results (mg/L)			Final Results (mg/Kg)				%D	Q	M
	Initial Sample(i)	Dilution Sample(S)	IDL	Initial Sample(i)	C	Dilution Sample(S)	C			
Lead	0.0750	0.0898	0.0018	34.9		41.7		19.6		P

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001

Instrument ID: ICP (TJA 61E Trace) Date: 04/01/2005

Analyte	Wavelength	A PQL (mg/Kg)	B PQL (mg/L)	C MDL (mg/Kg)	D MDL (mg/L)	M
Lead	220.35	1	0.01	0.227	0.00227	P

A = Upper Estimated (J Flag) Range in Determination Units
B = Upper Estimated (J Flag) Range in Actual Units
C = Lower Estimated (J Flag) Range in Determination Units
D = Lower Estimated (J Flag) Range in Actual Units

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS Case No.: SAS No.: SDG No.: C2001 01/31/07

ICP ID Number: TJA61E Date: 3/25/04

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Cr
Aluminum	308.2	0.0000000	-0.0002410	0.0000000	0.0000000	-0.0151170
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	-0.0010450
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000020	-0.0000050
Barium	493.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.6	0.0000000	0.0000050	-0.0000170	0.0000000	0.0002210
Cadmium	226.5	0.0000000	0.0000000	0.0002370	0.0000000	0.0000000
Calcium	315.8	0.0000000	0.0000000	-0.0004240	0.0000000	-0.0014670
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3/1	0.0004400	0.0000000	0.0000600	0.0000000	0.0000000
Lead	220.3/2	-0.0002440	0.0000000	0.0001570	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000180	0.0000000
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0/2	0.0000000	0.0000000	-0.0005170	0.0000000	0.0000000
Selenium	196.0/1	0.0000000	0.0000000	-0.0001270	0.0000000	0.0000000
Silver	328.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0039290	0.0013200	-0.0063870	0.0009740	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0001050	0.0000000	0.0061790
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0000270	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000620	0.0000000	0.0005630

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS Case No.: SAS No.: SDG No.: C2-061

ICP ID Number: TJA61E Date: 3/25/04 10 1/31/07

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cu	K	Mn	Ni	Tl
Aluminum	308.2	0.0000000	0.0000260	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000500	0.0000000
Barium	493.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.6	-0.0000640	0.0000000	0.0000100	0.0000430	0.0000000
Cadmium	226.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000160	0.0000000	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0002580	0.0000000
Copper	324.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3/1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3/2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0002520	-0.0000100
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0/2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0/1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	-0.0039500	0.0000000	0.0000000	0.0000000	-0.0051680
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	-0.0034270	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	-0.0000420	0.0001090	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS Case No.: SAS No.: SDG No.: C20001 Co 1/31/07

ICP ID Number: TJA61E Date: 3/25/04

Analyte	Wave-length (nm)	Interelement Correction Factors for: V				
Aluminum	308.2	0.0168150				
Antimony	206.8	-0.0005520				
Arsenic	189.0	-0.0000620				
Barium	493.4	0.0000000				
Beryllium	313.0	0.0008040				
Boron	249.6	0.0000000				
Cadmium	226.5	0.0000000				
Calcium	315.8	0.0000000				
Chromium	267.7	0.0000570				
Cobalt	228.6	0.0000000				
Copper	324.7	0.0000000				
Iron	271.4	0.0156600				
Lead	220.3/1	0.0000000				
Lead	220.3/2	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Molybdenum	202.0	0.0000000				
Nickel	231.6	0.0000670				
Potassium	766.4	0.0000000				
Selenium	196.0/2	0.0000000				
Selenium	196.0/1	0.0000000				
Silver	328.1	0.0001020				
Sodium	330.2	-0.0240500				
Strontium	421.5	0.0000000				
Thallium	190.8	0.0021200				
Tin	189.9	0.0000000				
Vanadium	292.4	0.0000000				
Zinc	206.2	0.0000000				

Comments:

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001

ICP ID Number: ICP (TJA 61E Trace) Date: 03/14/2005

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	M
Lead	10.000	50.0	P

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PREPARATION LOG

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Prep Batch ID: P015098

Method: 6010B

Client Sample No.	Lab Sample ID	Preparation Date	Initial Volume	Volume (mL)
B0127071CPS02	B0127071CPS02	01/27/2007	1.00 gm	100
S0127071CPS02	S0127071CPS02	01/27/2007	1.00 gm	100
07SOCF002A	C2001-001	01/27/2007	1.30 gm	100
07SOCF002AD	C2001-001D	01/27/2007	1.41 gm	100
07SOCF002AMS	C2001-001MS	01/27/2007	1.27 gm	100
07SOCF003A	C2001-002	01/27/2007	1.26 gm	100
07SOCW001A	C2001-003	01/27/2007	1.40 gm	100
07SOCW003A	C2001-004	01/27/2007	1.35 gm	100
07SOCW004A	C2001-005	01/27/2007	1.35 gm	100
07FD01240701	C2001-006	01/27/2007	1.22 gm	100
07SOCF004A	C2001-007	01/27/2007	1.38 gm	100
07SOCF005A	C2001-008	01/27/2007	1.25 gm	100
07SOCF006A	C2001-009	01/27/2007	1.30 gm	100
07SOCF007A	C2001-010	01/27/2007	1.38 gm	100
07SCOF008A	C2001-011	01/27/2007	1.29 gm	100
07SOCF009A	C2001-012	01/27/2007	1.28 gm	100
07SOCW005A	C2001-013	01/27/2007	1.31 gm	100
07SOCW006A	C2001-014	01/27/2007	1.30 gm	100
07SOCW007A	C2001-015	01/27/2007	1.26 gm	100
07SOCW008A	C2001-016	01/27/2007	1.30 gm	100
07SOCW011A	C2001-017	01/27/2007	1.25 gm	100
07SOCW012A	C2001-018	01/27/2007	1.28 gm	100
07SOCW013A	C2001-019	01/27/2007	1.41 gm	100
07SOCW014A	C2001-020	01/27/2007	1.22 gm	100

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ANALYSIS RUN LOG

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2001

Run Sequence ID: R014570

Instrument ID Number: ICP (TJA 61E Trace)

Method: 6010B

Start Date: 01/27/2007

End Date: 01/27/2007

Client Sample No.	D/F	Time	Analytes																																		
			AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TH	TI	TL	U	V	ZN	CN	B	SI
STD1-Blank	1	15:40																				X														
s	1	15:44																				X														
~~zzzzzz~~ S1	1	15:48																																		
~~zzzzzz~~ S2	1	15:53																																		
~~zzzzzz~~ S3	1	15:57																																		
~~zzzzzz~~ S4	1	16:00																																		
ICV	1	16:05																				X														
ICB	1	16:12																				X														
CRDL	1	16:21																				X														
ICSA	1	16:27																				X														
ICSAB	1	16:32																				X														
CCV1	1	17:07																				X														
CCB1	1	17:14																				X														
B012707ICPS02	1	17:20																				X														
S012707ICPS02	1	17:25																				X														
07SOCF002A	5	17:30																				X														
07SOCF002AD	5	17:35																				X														
07SOCF002AMS	5	17:40																				X														
07SOCF002AL	25	17:45																				X														
zzzzzz	5	17:49																																		
07SOCF003A	5	17:54																				X														
07SOCW001A	5	17:59																				X														
07SOCW003A	5	18:04																				X														
CCV2	1	18:11																				X														
CCB2	1	18:19																				X														
07SOCW004A	5	18:25																				X														
07FD01240701	5	18:29																				X														

CO 1/31/07

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ANALYSIS RUN LOG

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2001

Run Sequence ID: R014570

Instrument ID Number: ICP (TJA 61E Trace)

Method: 6010B

Start Date: 01/27/2007

End Date: 01/27/2007

Client Sample No.	D/F	Time	Analytes																																
			AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TH	TI	TL	U	V	ZN	CN	B	SI
07SOCF004A	5	18:34																				X													
07SOCF005A	5	18:39																				X													
07SOCF006A	5	18:44																				X													
07SOCF007A	5	18:49																				X													
07SCOF008A	5	18:54																				X													
07SOCF009A	5	18:59																				X													
07SOCW005A	5	19:04																				X													
07SOCW006A	5	19:09																				X													
CCV3	1	19:16																				X													
CCB3	1	19:23																				X													
07SOCW007A	5	19:29																				X													
07SOCW008A	5	19:34																				X													
07SOCW011A	5	19:39																				X													
07SOCW012A	5	19:44																				X													
07SOCW013A	5	19:49																				X													
07SOCW014A	5	19:53																				X													
CCV4	1	20:01																				X													
CCB4	1	20:08																				X													

Metals Data

C2001

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COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Laucks Laboratories Contract: _____

Lab Code: LAUCKS SDG No.: C2001

SOW No.: _____

Sample No.	Lab Sample ID
07SOCF002A	C2001-001
07SOCF002AD	C2001-001D
07SOCF002AMS	C2001-001MS
07SOCF003A	C2001-002
07SOCW001A	C2001-003
07SOCW003A	C2001-004
07SOCW004A	C2001-005
07FD01240701	C2001-006
07SOCF004A	C2001-007
07SOCF005A	C2001-008
07SOCF006A	C2001-009
07SOCF007A	C2001-010
07SCOF008A	C2001-011
07SOCF009A	C2001-012
07SOCW005A	C2001-013
07SOCW006A	C2001-014
07SOCW007A	C2001-015
07SOCW008A	C2001-016
07SOCW011A	C2001-017
07SOCW012A	C2001-018
07SOCW013A	C2001-019

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No NO

If yes-was raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: Cheronne Orcino

Date: 01/31/2007 Title: Metals Lead

SW-846

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Laucks Laboratories Contract: _____

Lab Code: LAUCKS SDG No.: C2001

SOW No.: _____

Sample No.	Lab Sample ID
07SOCW014A	C2001-020

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No NO

If yes-was raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: Cheronne Orein

Date: 01/31/2007 Title: Metals Lead

Metals Analysis Data Sheets

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF002A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-001

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 82.8

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	34.9			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF003A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-002

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 82.9

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	27.5			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

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-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW001A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-003

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 81.4

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	811			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW003A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-004

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 71.6

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	42.2			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW004A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-005

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 82.2

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	185			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

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-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07FD01240701

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-006

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 80.9

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	323			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

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-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF004A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-007

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 81.6

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	57.7			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF005A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-008

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 82.2

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	31.1			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

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-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF006A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-009

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 81.3

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	90.9			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

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-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF007A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-010

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 67.4

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	227			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

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-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SCOF008A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-011

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 80.9

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	488			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

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-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCF009A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-012

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 80.6

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	280			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

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-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW005A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-013

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 79.6

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	165			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

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-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW006A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-014

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 74.5

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	112			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

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-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW007A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-015

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 77.5

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	88.2			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

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-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW008A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-016

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 81.5

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	34.9			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW011A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-017

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 80.8

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	344			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW012A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-018

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 81

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	106			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

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INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW013A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-019

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 79.3

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	345			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

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INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW014A

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2001

Matrix (soil/water): Soil

Lab Sample ID: C2001-020

Level (low/med): LOW

Date Received: 01/27/2007

% Solids: 81.1

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	21.2			P	R014570

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

Quality Control Data

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

Initial Calibration Source: ME-15-153-17

Continuing Calbration Source: ME-15-153-3

Concentration Units: mg/L

Analyte	Initial Calibration ICV				Continuing Calibrations CCV1				CCV2		M
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Lead	90-110	1	0.995	99.5	90 - 110	1.000	1.005	100.5	1.012	101.2	P

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

Initial Calibration Source: ME-15-153-17

Continuing Calbration Source: ME-15-153-3

Concentration Units: mg/L

Analyte	Initial Calibration				Continuing Calibrations						M
					CCV3				CCV4		
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Lead	90-110				90 - 110	1.000	1.015	101.5	1.007	100.7	P

2B-IN
CRDL STANDARD FOR METALS

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

ICP CRDL Standard Source: ME-15-154-13

Concentration Units: mg/L

Analyte	CRDL Standard for ICP					
	Initial CRDL			Final		
	True	Found	%R	Found	%R	Limits
Lead	0.01	0.01	111.9			

Control Limits: no limits have been established by EPA at this time

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3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

Concentration Units: mg/L

Analyte	Inital Calib. Blank ICB	C	Continuing Calibration Blank CCB1 1	C	CCB2 2	C	CCB3 3	C
Lead	0.0023	U	0.0023	U	0.0033	J	0.0023	U

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3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

Concentration Units: mg/L

Analyte	Inital Calib. Blank	C	Continuing Calibration Blank CCB4 1	C	2	C	3	C
Lead			0.0029	J				

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3B
BLANKS

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2001

Run Sequence ID: R014570

Lab Sample ID: B012707ICPS02

Prep Batch ID: P015098

Matrix (soil/water): Soil

Date Prepared: 01/27/2007

Concentration Units: mg/Kg

Analyte	Limits	Preparation Blank	C	M
Lead	0.5	0.54	J	P

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Laucks Laboratories Contract: _____

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

ICS Source: ME-15-154-6

ICP ID Number: ICP (TJA 61E Trace) Concentration Units: mg/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R	Final Found Limits
Lead	0	0.050	0.00045	0.054	108.2				

Interference Check Sample Recover Limits: 80 - 120

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5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

07SOCF002AMS

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2001

Run Sequence ID: R014570

Lab Sample ID: C2001-001MS

Prep Batch ID: P015098

Matrix (soil/water): Soil

Level (low/med): LOW

% Solids for Sample: 82.8

Concentration Units: mg/Kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Lead	80 - 120	79.2537		34.8523		47.50	93.4		P

Comments:

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6
DUPLICATES

SAMPLE NO.

07SOCF002AD

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2001

Run Sequence ID: R014570

Lab Sample ID: C2001-001D

Prep Batch ID: P015098

Level (low/med): LOW

Matrix (soil/water): Soil

% Solids for Duplicate 82.8

% Solids for Sample: 82.8

Concentration Units: mg/Kg

Analyte	Control Limit	Sample	C	Duplicate (D)	C	RPD	Q	M
Lead		34.8523		30.4159		13.6		P

7A

LABORATORY CONTROL SAMPLE

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

Lab Sample ID: S012707ICPS02 Prep Batch ID: P015098

LCS Source: ME-15-152-19

Analyte	Concentration Units: mg/Kg					
	True	Found	C	%R Limits		%R
Lead	50.0	42.358		80	120	84.7

9

ICP SERIAL DILUTIONS

SAMPLE NO.

07SOCF002AL

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Run Sequence ID: R014570

Matrix (soil/water): Soil Level (low/med: LOW

Lab Sample ID: C2001-001L

Analyte	Actual Results (mg/L)			Final Results (mg/Kg)				%D	Q	M
	Initial Sample(i)	Dilution Sample(S)	IDL	Initial Sample(i)	C	Dilution Sample(S)	C			
Lead	0.0750	0.0898	0.0018	34.9		41.7		19.6		P

13

PREPARATION LOG

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001 Prep Batch ID: P015098

Method: 6010B

Client Sample No.	Lab Sample ID	Preparation Date	Initial Volume	Volume (mL)
B012707ICPS02	B012707ICPS02	01/27/2007	1.00 gm	100
S012707ICPS02	S012707ICPS02	01/27/2007	1.00 gm	100
07SOCF002A	C2001-001	01/27/2007	1.30 gm	100
07SOCF002AD	C2001-001D	01/27/2007	1.41 gm	100
07SOCF002AMS	C2001-001MS	01/27/2007	1.27 gm	100
07SOCF003A	C2001-002	01/27/2007	1.26 gm	100
07SOCW001A	C2001-003	01/27/2007	1.40 gm	100
07SOCW003A	C2001-004	01/27/2007	1.35 gm	100
07SOCW004A	C2001-005	01/27/2007	1.35 gm	100
07FD01240701	C2001-006	01/27/2007	1.22 gm	100
07SOCF004A	C2001-007	01/27/2007	1.38 gm	100
07SOCF005A	C2001-008	01/27/2007	1.25 gm	100
07SOCF006A	C2001-009	01/27/2007	1.30 gm	100
07SOCF007A	C2001-010	01/27/2007	1.38 gm	100
07SCOF008A	C2001-011	01/27/2007	1.29 gm	100
07SOCF009A	C2001-012	01/27/2007	1.28 gm	100
07SOCW005A	C2001-013	01/27/2007	1.31 gm	100
07SOCW006A	C2001-014	01/27/2007	1.30 gm	100
07SOCW007A	C2001-015	01/27/2007	1.26 gm	100
07SOCW008A	C2001-016	01/27/2007	1.30 gm	100
07SOCW011A	C2001-017	01/27/2007	1.25 gm	100
07SOCW012A	C2001-018	01/27/2007	1.28 gm	100
07SOCW013A	C2001-019	01/27/2007	1.41 gm	100
07SOCW014A	C2001-020	01/27/2007	1.22 gm	100

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ANALYSIS RUN LOG

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2001

Run Sequence ID: R014570

Instrument ID Number: ICP (TJA 61E Trace)

Method: 6010B

Start Date: 01/27/2007

End Date: 01/27/2007

Client Sample No.	D/F	Time	Analytes																																
			AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TH	TI	TL	U	V	ZN	CN	B	SI
STD1-Blank	1	15:40																				X													
s	1	15:44																				X													
~~zzzzzz~~ S1	1	15:48																																	
~~zzzzzz~~ S2	1	15:53																																	
~~zzzzzz~~ S3	1	15:57																																	
~~zzzzzz~~ S4	1	16:00																																	
ICV	1	16:05																				X													
ICB	1	16:12																				X													
CRDL	1	16:21																				X													
ICSA	1	16:27																				X													
ICSAB	1	16:32																				X													
CCV1	1	17:07																				X													
CCB1	1	17:14																				X													
B012707ICPS02	1	17:20																				X													
S012707ICPS02	1	17:25																				X													
07SOCF002A	5	17:30																				X													
07SOCF002AD	5	17:35																				X													
07SOCF002AMS	5	17:40																				X													
07SOCF002AL	25	17:45																				X													
zzzzzz	5	17:49																																	
07SOCF003A	5	17:54																				X													
07SOCW001A	5	17:59																				X													
07SOCW003A	5	18:04																				X													
CCV2	1	18:11																				X													
CCB2	1	18:19																				X													
07SOCW004A	5	18:25																				X													
07FD01240701	5	18:29																				X													

CO 1/31/07

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ANALYSIS RUN LOG

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2001

Run Sequence ID: R014570

Instrument ID Number: ICP (TJA 61E Trace)

Method: 6010B

Start Date: 01/27/2007

End Date: 01/27/2007

Client Sample No.	D/F	Time	Analytes																																
			AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TH	TI	TL	U	V	ZN	CN	B	SI
07SOCF004A	5	18:34																				X													
07SOCF005A	5	18:39																				X													
07SOCF006A	5	18:44																				X													
07SOCF007A	5	18:49																				X													
07SCOF008A	5	18:54																				X													
07SOCF009A	5	18:59																				X													
07SOCW005A	5	19:04																				X													
07SOCW006A	5	19:09																				X													
CCV3	1	19:16																				X													
CCB3	1	19:23																				X													
07SOCW007A	5	19:29																				X													
07SOCW008A	5	19:34																				X													
07SOCW011A	5	19:39																				X													
07SOCW012A	5	19:44																				X													
07SOCW013A	5	19:49																				X													
07SOCW014A	5	19:53																				X													
CCV4	1	20:01																				X													
CCB4	1	20:08																				X													

Quarterly Verification
of
Instrument Parameters

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Laucks Laboratories Contract: _____

Lab Code: LAUCKS SDG No.: C2001

Instrument ID: ICP (TJA 61E Trace) Date: 04/01/2005

Analyte	Wavelength	A PQL (mg/Kg)	B PQL (mg/L)	C MDL (mg/Kg)	D MDL (mg/L)	M
Lead	220.35	1	0.01	0.227	0.00227	P

A = Upper Estimated (J Flag) Range in Determination Units
B = Upper Estimated (J Flag) Range in Actual Units
C = Lower Estimated (J Flag) Range in Determination Units
D = Lower Estimated (J Flag) Range in Actual Units

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS Case No.: SAS No.: SDG No.: C3001 10/31/07

ICP ID Number: TJA61E Date: 3/25/04

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Cr
Aluminum	308.2	0.0000000	-0.0002410	0.0000000	0.0000000	-0.0151170
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	-0.0010450
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000020	-0.0000050
Barium	493.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.6	0.0000000	0.0000050	-0.0000170	0.0000000	0.0002210
Cadmium	226.5	0.0000000	0.0000000	0.0002370	0.0000000	0.0000000
Calcium	315.8	0.0000000	0.0000000	-0.0004240	0.0000000	-0.0014670
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3/1	0.0004400	0.0000000	0.0000600	0.0000000	0.0000000
Lead	220.3/2	-0.0002440	0.0000000	0.0001570	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000180	0.0000000
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0/2	0.0000000	0.0000000	-0.0005170	0.0000000	0.0000000
Selenium	196.0/1	0.0000000	0.0000000	-0.0001270	0.0000000	0.0000000
Silver	328.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0039290	0.0013200	-0.0063870	0.0009740	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0001050	0.0000000	0.0061790
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0000270	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000620	0.0000000	0.0005630

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS Case No.: SAS No.: SDG No.: C2001

ICP ID Number: TJA61E Date: 3/25/04 CO 1/31/07

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cu	K	Mn	Ni	Tl
Aluminum	308.2	0.0000000	0.0000260	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000500	0.0000000
Barium	493.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.6	-0.0000640	0.0000000	0.0000100	0.0000430	0.0000000
Cadmium	226.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000160	0.0000000	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0002580	0.0000000
Copper	324.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3/1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3/2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0002520	-0.0000100
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0/2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0/1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	-0.0039500	0.0000000	0.0000000	0.0000000	-0.0051680
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	-0.0034270	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	-0.0000420	0.0001090	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS Case No.: SAS No.: SDG No.: C2001 10/21/07

ICP ID Number: TJA61E Date: 3/25/04

Analyte	Wave-length (nm)	Interelement Correction Factors for: V				
Aluminum	308.2	0.0168150				
Antimony	206.8	-0.0005520				
Arsenic	189.0	-0.0000620				
Barium	493.4	0.0000000				
Beryllium	313.0	0.0008040				
Boron	249.6	0.0000000				
Cadmium	226.5	0.0000000				
Calcium	315.8	0.0000000				
Chromium	267.7	0.0000570				
Cobalt	228.6	0.0000000				
Copper	324.7	0.0000000				
Iron	271.4	0.0156600				
Lead	220.3/1	0.0000000				
Lead	220.3/2	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Molybdenum	202.0	0.0000000				
Nickel	231.6	0.0000670				
Potassium	766.4	0.0000000				
Selenium	196.0/2	0.0000000				
Selenium	196.0/1	0.0000000				
Silver	328.1	0.0001020				
Sodium	330.2	-0.0240500				
Strontium	421.5	0.0000000				
Thallium	190.8	0.0021200				
Tin	189.9	0.0000000				
Vanadium	292.4	0.0000000				
Zinc	206.2	0.0000000				

Comments:

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2001

ICP ID Number: ICP (TJA 61E Trace) Date: 03/14/2005

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	M
Lead	10.000	50.0	P

Raw Data

ICP Data

R14570
(C2001)

Runlog, Logbook: C2001 . FTLW03
Analyst: CO
Method: 6010B
Instrument ID: TJA61E

ISTD: ME-15-145-2 Profile: ME-15-153-6

Seq	Sample ID	Analysis Date	Analysis Time	DF	Matrix	Data File	Prep Batch	Analyst Comments
1	STD1-Blank ME-15-154-20	1/27/07	15:40	1	WATER	01272007.dbf		
2	s -154-15	1/27/07	15:44	1	WATER	01272007.dbf		
3	s1 -151-7	1/27/07	15:48	1	WATER	01272007.dbf		
4	s2 -154-19	1/27/07	15:53	1	WATER	01272007.dbf		
5	s3 -154-18	1/27/07	15:57	1	WATER	01272007.dbf		
6	s4 -154-17	1/27/07	16:00	1	WATER	01272007.dbf		
7	ICV1 -153-17	1/27/07	16:05	1	WATER	01272007.dbf		
8	ICB1 -154-20	1/27/07	16:12	1	WATER	01272007.dbf		
9	CRDL1 -154-13	1/27/07	16:21	1	WATER	01272007.dbf		
10	ICS-A1 -152-18	1/27/07	16:27	1	WATER	01272007.dbf		
11	ICS-AB1 -154-6	1/27/07	16:32	1	WATER	01272007.dbf		
12	CCV1 -153-3	1/27/07	17:07	1	WATER	01272007.dbf		
13	CCB1 -154-20	1/27/07	17:14	1	WATER	01272007.dbf		
14	B012707ICPS02 C2001	1/27/07	17:20	1	SOIL	01272007.dbf		
15	S012707ICPS02	1/27/07	17:25	1	SOIL	01272007.dbf		
16	C2001-001	1/27/07	17:30	5	SOIL	01272007.dbf		
17	C2001-001D	1/27/07	17:35	5	SOIL	01272007.dbf		
18	C2001-001S	1/27/07	17:40	5	SOIL	01272007.dbf		
19	C2001-001L	1/27/07	17:45	25	WATER	01272007.dbf		
20	C2001-001A	1/27/07	17:49	5	WATER	01272007.dbf		
21	C2001-002	1/27/07	17:54	5	SOIL	01272007.dbf		
22	C2001-003	1/27/07	17:59	5	SOIL	01272007.dbf		
23	C2001-004	1/27/07	18:04	5	SOIL	01272007.dbf		
24	CCV2	1/27/07	18:11	1	WATER	01272007.dbf		
25	CCB2	1/27/07	18:19	1	WATER	01272007.dbf		
26	C2001-005	1/27/07	18:25	5	SOIL	01272007.dbf		
27	C2001-006	1/27/07	18:29	5	SOIL	01272007.dbf		
28	C2001-007	1/27/07	18:34	5	SOIL	01272007.dbf		
29	C2001-008	1/27/07	18:39	5	SOIL	01272007.dbf		
30	C2001-009	1/27/07	18:44	5	SOIL	01272007.dbf		
31	C2001-010	1/27/07	18:49	5	SOIL	01272007.dbf		
32	C2001-011	1/27/07	18:54	5	SOIL	01272007.dbf		
33	C2001-012	1/27/07	18:59	5	SOIL	01272007.dbf		
34	C2001-013	1/27/07	19:04	5	SOIL	01272007.dbf		
35	C2001-014	1/27/07	19:09	5	SOIL	01272007.dbf		
36	CCV3	1/27/07	19:16	1	WATER	01272007.dbf		
37	CCB3	1/27/07	19:23	1	WATER	01272007.dbf		
38	C2001-015	1/27/07	19:29	5	SOIL	01272007.dbf		
39	C2001-016	1/27/07	19:34	5	SOIL	01272007.dbf		
40	C2001-017	1/27/07	19:39	5	SOIL	01272007.dbf		
41	C2001-018	1/27/07	19:44	5	SOIL	01272007.dbf		
42	C2001-019	1/27/07	19:49	5	SOIL	01272007.dbf		
43	C2001-020	1/27/07	19:53	5	SOIL	01272007.dbf		
44	CCV4	1/27/07	20:01	1	WATER	01272007.dbf		
45	CCB4	1/27/07	20:08	1	WATER	01272007.dbf		
46	B012707ICPS01 FTLW03	1/27/07	20:14	1	SOIL	01272007.dbf		

Runlog, Logbook

Analyst

Method

Instrument ID TJA61E

Seq	Sample ID	Analysis Date	Analysis Time	DF	Matrix	Data File	Prep Batch	Analyst Comments
47·	S012707ICPS01 FTLW03	1/27/07	20:19	1	SOIL	01272007.dbf		
48·	FTLW03-001	1/27/07	20:24	5	SOIL	01272007.dbf		
49·	FTLW03-002	1/27/07	20:29	5	SOIL	01272007.dbf		
50·	FTLW03-003	1/27/07	20:33	5	SOIL	01272007.dbf		
51·	FTLW03-003D	1/27/07	20:38	5	SOIL	01272007.dbf		
52·	FTLW03-003S	1/27/07	20:43	5	SOIL	01272007.dbf		
53·	FTLW03-003L	1/27/07	20:48	25	WATER	01272007.dbf		
54·	FTLW03-003A	1/27/07	20:53	5	WATER	01272007.dbf		
55·	FTLW03-004	1/27/07	20:58	5	SOIL	01272007.dbf		
56·	CCV5	1/27/07	21:05	1	WATER	01272007.dbf		
57·	CCB5	1/27/07	21:12	1	WATER	01272007.dbf		
58·	FTLW03-005	1/27/07	21:18	5	SOIL	01272007.dbf		
59·	FTLW03-006	1/27/07	21:23	5	SOIL	01272007.dbf		
60·	FTLW03-007	1/27/07	21:28	5	SOIL	01272007.dbf		
61·	FTLW03-008	1/27/07	21:33	5	SOIL	01272007.dbf		
62·	FTLW03-009	1/27/07	21:38	5	SOIL	01272007.dbf		
63·	FTLW03-010	1/27/07	21:43	5	SOIL	01272007.dbf		
64·	FTLW03-011	1/27/07	21:48	5	SOIL	01272007.dbf		
65·	CCV6	1/27/07	21:55	1	WATER	01272007.dbf		
66·	CCB6	1/27/07	22:02	1	WATER	01272007.dbf		
67·	FTLW03-001	1/27/07	22:08	1	SOIL	01272007.dbf		
68·	FTLW03-002	1/27/07	22:13	1	SOIL	01272007.dbf		
69·	FTLW03-003	1/27/07	22:18	1	SOIL	01272007.dbf		
70·	FTLW03-003D	1/27/07	22:23	1	SOIL	01272007.dbf		
71·	FTLW03-003S	1/27/07	22:28	1	SOIL	01272007.dbf		
72·	FTLW03-003L	1/27/07	22:32	5	WATER	01272007.dbf		
73·	FTLW03-003A	1/27/07	22:37	1	WATER	01272007.dbf		
74·	FTLW03-004	1/27/07	22:42	1	SOIL	01272007.dbf		
75·	FTLW03-005	1/27/07	22:47	1	SOIL	01272007.dbf		
76·	FTLW03-006	1/27/07	22:52	1	SOIL	01272007.dbf		
77·	CCV7	1/27/07	22:59	1	WATER	01272007.dbf		
78·	CCB7	1/27/07	23:06	1	WATER	01272007.dbf		
79·	FTLW03-007	1/27/07	23:14	1	SOIL	01272007.dbf		
80·	FTLW03-008	1/27/07	23:19	1	SOIL	01272007.dbf		
81·	FTLW03-009	1/27/07	23:23	1	SOIL	01272007.dbf		
82·	FTLW03-010	1/27/07	23:28	1	SOIL	01272007.dbf		
83·	FTLW03-011	1/27/07	23:33	1	SOIL	01272007.dbf		
84·	CCV8	1/27/07	23:40	1	WATER	01272007.dbf		
85·	CCB8	1/27/07	23:48	1	WATER	01272007.dbf		

Analyst Signature

Standardization Report 01/27/07 04:03:51 PM page 1

Method: SUBLIST Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag3280	328.068	s	STD1-Blank	.436061	-.000187	01/27/07 04:00:33
Al3082	308.215	Multiple	Standards	3.31879	-.386062	01/27/07 03:57:18
As1890	189.042	s	STD1-Blank	.898107	.000095	01/27/07 04:00:33
B_2496	249.678	s	STD1-Blank	.373008	-.002112	01/27/07 04:00:33
Ba4934	493.409	s	STD1-Blank	.314684	.000090	01/27/07 04:00:33
Be3130	313.042	s	STD1-Blank	.298879	.013301	01/27/07 04:00:33
Ca3179	317.933	Multiple	Standards	6.90199	-.101882	01/27/07 03:57:18
Cd2265	226.502	s	STD1-Blank	.141215	-.000091	01/27/07 04:00:33
Co2286	228.616	s	STD1-Blank	.859028	-.000092	01/27/07 04:00:33
Cr2677	267.716	s	STD1-Blank	.555440	-.000336	01/27/07 04:00:33
Cu3247	324.753	s	STD1-Blank	.434657	-.008511	01/27/07 04:00:33
Fe2714	271.441	Multiple	Standards	7.67401	.017302	01/27/07 03:57:18
K_7664	766.491	Multiple	Standards	2.87927	-.032517	01/27/07 04:00:33
Mg2790	279.078	Multiple	Standards	5.18127	.002063	01/27/07 03:57:18
Mn2576	257.610	s	STD1-Blank	.273830	-.000068	01/27/07 04:00:33
Mo2020	202.030	s	STD1-Blank	2.83203	.000301	01/27/07 04:00:33
Na3302	330.232	Multiple	Standards	63.9693	-.070708	01/27/07 04:00:33
Ni2316	231.604	s	STD1-Blank	.617524	.000264	01/27/07 04:00:33
2203/1	220.351	s	STD1-Blank	.332226	.001856	01/27/07 04:00:33
2203/2	220.352	s	STD1-Blank	.406607	.002940	01/27/07 04:00:33
Sb2068	206.838	s	STD1-Blank	.549656	.000646	01/27/07 04:00:33
1960/1	196.021	s	STD1-Blank	.459313	.000949	01/27/07 04:00:33
1960/2	196.022	s	STD1-Blank	.505107	-.002934	01/27/07 04:00:33
Pb2203	220.353	NONE	NONE	1.00000	.000000	*01/27/07 04:00:33
Se1960	196.023	NONE	NONE	1.00000	.000000	*01/27/07 04:00:33
Sn1899	189.989	s	STD1-Blank	.759141	.001513	01/27/07 04:00:33
Sr4215	421.552	s	STD1-Blank	.041551	-.000012	01/27/07 04:00:33
Tl1908	190.864	s	STD1-Blank	.620759	.005659	01/27/07 04:00:33
V_2924	292.402	s	STD1-Blank	.872612	.000031	01/27/07 04:00:33
Zn2062	206.200	s	STD1-Blank	.569134	-.000425	01/27/07 04:00:33

Method: SUBLIST

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag3280	328.068	STD1-Blank	.000000	-.000000	.000000
		s	1.00000	1.00054	-.000540

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	STD1-Blank	.000000	.000909	-.000909
		s1	50.0000	51.1902	-1.19024
		s2	250.000	260.016	-10.0157
		s	1.00000	1.05326	-.053261
		s3	150.000	152.541	-2.54095

CorCoef: 0.99992

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1890	189.042	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	5.00070	-.000705

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B_2496	249.678	STD1-Blank	.000000	.000000	-.000000
		s	1.00000	.994145	.005855

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba4934	493.409	STD1-Blank	.000000	.000000	-.000000
		s	1.00000	1.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be3130	313.042	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	4.99695	.003045

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca3179	317.933	STD1-Blank	.000000	-.001130	.001130
		s1	50.0000	50.8174	-.817402
		s2	250.000	242.215	7.78517
		s	5.00000	5.16216	-.162161
		s3	150.000	149.730	.270172

CorCoef: 0.99983

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd2265	226.502	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	5.00115	-.001150

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co2286	228.616	STD1-Blank	.000000	.000000	-.000000
		s	5.00000	5.01122	-.011215

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	4.99927	.000735

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu3247	324.753	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe2714	271.441	STD1-Blank	.000000	-.004557	.004557
		s1	20.0000	19.6259	.374056
		s2	100.000	95.1716	4.82835
		s	5.00000	5.41333	-.413330
		s3	60.0000	57.8570	2.14295

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K_7664	766.491	STD1-Blank	.000000	-.000328	.000328
		s4	10.0000	6.64498	3.35502
		s2	50.0000	58.9553	-8.95533
		s3	5.00000	5.78198	-.781979

CorCoef: 0.99585

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg2790	279.078	STD1-Blank	.000000	.002063	-.002063
		s1	50.0000	49.5014	.498604
		s2	250.000	257.099	-7.09927
		s	5.00000	4.79194	.208058
		s3	150.000	153.478	-3.47801

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	STD1-Blank	.000000	.000000	-.000000
		s	5.00000	4.99861	.001389

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo2020	202.030	STD1-Blank	.000000	.000000	-.000000
		s	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na3302	330.232	STD1-Blank	.000000	.020547	-.020547
		s4	10.0000	7.47942	2.52058
		s1	100.000	107.708	-7.70758
		s2	50.0000	56.6732	-6.67320
		s3	25.0000	24.8069	.193136

CorCoef: 0.99847

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni2316	231.604	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	5.00135	-.001350

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/1	220.351	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	5.01303	-.013029

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/2	220.352	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	4.99373	.006275

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.838	STD1-Blank	.000000	.000000	-.000000
		s	5.00000	4.97431	.025685

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/1	196.021	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	4.99867	.001330

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/2	196.022	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	4.99767	.002330

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Pb2203	220.353	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Se1960	196.023	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	STD1-Blank	.000000	-.000000	.000000
		s	1.00000	1.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl1908	190.864	STD1-Blank	.000000	.000000	-.000000
		s	5.00000	4.97912	.020885

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V_2924	292.402	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	4.99929	.000710

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn2062	206.200	STD1-Blank	.000000	.000000	-.000000
		s	5.00000	4.98400	.016000

Method: SUBLIST Standard: STD1-Blank
Run Time: 01/27/07 15:40:16

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Avge	.0004	.1166	-.00011	.0057	-.0003	-.0445	.0146
SDev	.0010	.0000	.00096	.0015	.0001	.0000	.0001
%RSD	235.3	.0369	905.67	26.04	35.12	.0265	.9426
#1	.0011	.1166	.00057	.0067	-.0002	-.0445	.0147
#2	-.0003	.1166	-.00078	.0046	-.0004	-.0445	.0145

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Avge	.0006	.0001	.0006	.0196	-.0028	.0112	.0000
SDev	.0003	.0001	.0003	.0001	.0001	.0003	.0001
%RSD	47.37	46.92	58.02	.7758	3.788	2.955	79130.
#1	.0009	.0001	.0004	.0195	-.0029	.0114	.0001
#2	.0004	.0001	.0009	.0197	-.0028	.0109	-.0001

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Avge	.0002	-.0001	.0014	-.0004	-.00559	-.00723	-.0012
SDev	.0003	.0004	.0019	.0005	.00145	.00329	.0000
%RSD	100.9	331.1	134.4	117.9	25.878	45.509	4.033
#1	.0001	.0001	.0028	-.0008	-.00457	-.00956	-.0011
#2	.0004	-.0004	.0001	-.0001	-.00661	-.00490	-.0012

Elem	1960/1	1960/2	Sn1899	Sr4215	Tl1908	V_2924	Zn2062
Avge	-.00207	.00581	-.0020	.0003	-.00912	-.0000	.0007
SDev	.00011	.00460	.0002	.0003	.00173	.0001	.0006
%RSD	5.1291	79.127	9.850	106.2	19.031	141.4	73.89
#1	-.00214	.00906	-.0019	.0005	-.01034	.0000	.0004
#2	-.00199	.00256	-.0021	.0001	-.00789	-.0001	.0011

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14044	--	--	--	--	--	--
SDev	35.49828	--	--	--	--	--	--
%RSD	.2527695	--	--	--	--	--	--
#1	14019	--	--	--	--	--	--
#2	14069	--	--	--	--	--	--

Method: SUBLIST Standard: s
Run Time: 01/27/07 15:44:33

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Avge	2.295	.4337	5.5679	2.671	3.178	16.67	.7627
SDev	.002	.0009	.0169	.001	.002	.01	.0005
%RSD	.1059	.2050	.30328	.0255	.0631	.0456	.0606
#1	2.293	.4331	5.5560	2.670	3.179	16.68	.7630
#2	2.297	.4343	5.5799	2.671	3.176	16.67	.7624

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	Mg2790	Mn2576
Avge	35.42	5.834	9.001	11.52	.7032	.9245	18.25
SDev	.04	.004	.006	.01	.0007	.0001	.01
%RSD	.1199	.0696	.0706	.0473	.0954	.0139	.0702
#1	35.45	5.831	8.997	11.52	.7027	.9246	18.25
#2	35.39	5.837	9.006	11.53	.7036	.9244	18.26

Elem	Mo2020	Ni2316	2203/1	2203/2	Sb2068	1960/1	1960/2
Avge	1.765	8.099	15.084	12.274	9.049	10.881	9.9001
SDev	.020	.025	.021	.011	.091	.040	.0419
%RSD	1.110	.3070	.13831	.08576	1.004	.36311	.42329
#1	1.752	8.081	15.069	12.267	8.984	10.853	9.8705
#2	1.779	8.116	15.098	12.282	9.113	10.909	9.9297

Elem	Sn1899	Sr4215	Tl1908	V_2924	Zn2062
Avge	1.315	120.3	8.0119	5.729	8.758
SDev	.002	.0	.0002	.003	.008
%RSD	.1508	.0350	.00292	.0512	.0890
#1	1.314	120.4	8.0121	5.731	8.752
#2	1.317	120.3	8.0117	5.727	8.763

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13683	--	--	--	--	--	--
SDev	11.07893	--	--	--	--	--	--
%RSD	.0809710	--	--	--	--	--	--
#1	13675	--	--	--	--	--	--
#2	13690	--	--	--	--	--	--

Method: SUBLIST Standard: s1
Run Time: 01/27/07 15:48:34

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302
Avge	15.54	7.377	2.555	9.554	1.685
SDev	.02	.005	.000	.035	.005
%RSD	.1534	.0692	.0108	.3709	.2854
#1	15.52	7.381	2.555	9.528	1.681
#2	15.56	7.374	2.555	9.579	1.688

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13491	--	--	--	--	--	--
SDev	28.42721	--	--	--	--	--	--
%RSD	.2107139	--	--	--	--	--	--
#1	13511	--	--	--	--	--	--
#2	13471	--	--	--	--	--	--

Method: SUBLIST Standard: s2
Run Time: 01/27/07 15:53:59

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na3302
Avge	78.46	35.11	12.40	20.49	49.62	.8870
SDev	.03	.07	.01	.03	.15	.0037
%RSD	.0370	.1981	.0668	.1627	.3005	.4187
#1	78.48	35.06	12.39	20.51	49.52	.8897
#2	78.44	35.16	12.41	20.46	49.73	.8844

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12666	--	--	--	--	--	--
SDev	43.41871	--	--	--	--	--	--
%RSD	.3427955	--	--	--	--	--	--
#1	12697	--	--	--	--	--	--
#2	12635	--	--	--	--	--	--

Method: SUBLIST Standard: s3
Run Time: 01/27/07 15:57:18

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na3302
Avge	46.08	21.71	7.537	2.019	29.62	.3889
SDev	.04	.02	.001	.000	.04	.0008
%RSD	.0774	.0960	.0109	.0164	.1190	.2138
#1	46.10	21.72	7.537	2.019	29.60	.3883
#2	46.05	21.69	7.538	2.020	29.65	.3895

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12937	--	--	--	--	--	--
SDev	9.475507	--	--	--	--	--	--
%RSD	.0732460	--	--	--	--	--	--
#1	12943	--	--	--	--	--	--
#2	12930	--	--	--	--	--	--

Method: SUBLIST Standard: s4
Run Time: 01/27/07 16:00:33

Elem	K_7664	Na3302
Avge	2.319	.1180
SDev	.000	.0045
%RSD	.0080	3.843
#1	2.319	.1212
#2	2.319	.1148

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14086	--	--	--	--	--	--
SDev	32.10430	--	--	--	--	--	--
%RSD	.2279109	--	--	--	--	--	--
#1	14064	--	--	--	--	--	--
#2	14109	--	--	--	--	--	--

Method: SUBLIST Sample Name: ICV Operator: CO
Run Time: 01/27/07 16:05:46
Comment: ICV1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1267	49.22	1.0461	1.014	1.023	1.014	50.78
SDev	.0007	.07	.0047	.001	.001	.000	.08
%RSD	.5492	.1406	.44698	.1223	.0500	.0427	.1515
#1	.1262	49.17	1.0494	1.015	1.023	1.015	50.83
#2	.1272	49.27	1.0428	1.013	1.024	1.014	50.72

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9797	.9800	.9793	1.019	19.68	24.64	48.78
SDev	.0043	.0033	.0119	.002	.11	.01	.04
%RSD	.4349	.3351	1.212	.1896	.5475	.0522	.0917
#1	.9827	.9823	.9709	1.018	19.60	24.65	48.81
#2	.9767	.9777	.9877	1.021	19.75	24.63	48.75

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.000	.9978	45.59	.9902	.98062	1.0015	1.022
SDev	.000	.0140	.03	.0045	.00044	.0032	.001
%RSD	.0028	1.406	.0611	.4579	.04461	.32277	.1296
#1	1.000	.9879	45.61	.9870	.98031	1.0038	1.021
#2	1.000	1.008	45.57	.9934	.98093	.99924	1.022

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0154	1.0183	.99535	1.0179	1.019	1.039	.99688
SDev	.0065	.0067	.00185	.0067	.000	.003	.00347
%RSD	.64463	.65951	.18591	.65953	.0412	.2804	.34859
#1	1.0107	1.0135	.99665	1.0132	1.019	1.041	.99934
#2	1.0200	1.0230	.99404	1.0227	1.019	1.037	.99442

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.9875	.9793
SDev	.0007	.0051
%RSD	.0717	.5191
#1	.9880	.9829
#2	.9870	.9757

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13488	--	--	--	--	--	--
SDev	47.18971	--	--	--	--	--	--
%RSD	.3498720	--	--	--	--	--	--
#1	13521	--	--	--	--	--	--
#2	13454	--	--	--	--	--	--

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Method: SUBLIST Sample Name: ICB Operator: CO
Run Time: 01/27/07 16:12:58
Comment: ICB1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0065	.00200	.0005	.0001	.0001	-.0010
SDev	.0001	.0010	.00233	.0001	.0001	.0000	.0023
%RSD	99.15	15.93	116.77	11.97	46.87	34.57	236.5
#1	-.0002	.0058	.00035	.0005	.0001	.0001	.0007
#2	-.0000	.0073	.00365	.0004	.0001	.0001	-.0026

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0006	Q.0055	.0004	.0208	.0045	.0046
SDev	.0001	.0002	.0015	.0001	.0126	.0015	.0010
%RSD	19.09	39.24	28.04	30.81	60.77	32.97	22.31
#1	.0002	-.0004	.0044	.0004	.0119	.0056	.0039
#2	.0003	-.0007	Q.0066	.0005	.0298	.0035	.0054

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0022	.0674	.0035	.00012	.00167	.0025
SDev	.0002	.0004	.0546	.0016	.00244	.00267	.0004
%RSD	31.51	19.15	81.04	46.98	2013.2	159.22	17.56
#1	.0006	.0019	.1060	.0023	-.00161	.00356	.0022
#2	.0009	.0025	.0288	.0046	.00185	-.00021	.0029

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00143	-.00064	.00186	-.00034	.0019	.0000	-.00377
SDev	.00017	.00238	.00097	.00164	.0017	.0000	.00057
%RSD	11.710	371.17	51.769	484.30	89.13	37.61	15.065
#1	-.00155	-.00232	.00255	-.00150	.0031	.0000	-.00337
#2	-.00131	.00104	.00118	.00082	.0007	.0001	-.00417

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0002	-.0004
SDev	.0003	.0000
%RSD	165.1	5.720
#1	.0004	-.0004
#2	-.0000	-.0004

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14141	--	--	--	--	--	--
SDev	21.96865	--	--	--	--	--	--
%RSD	.1553560	--	--	--	--	--	--
#1	14125	--	--	--	--	--	--
#2	14156	--	--	--	--	--	--

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Method: SUBLIST Sample Name: CRDL Operator: CO
Run Time: 01/27/07 16:21:32
Comment: CRDL1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0094	.0200	.00968	.0979	.0207	.0048	-.0065
SDev	.0001	.0011	.00164	.0014	.0001	.0001	.0041
%RSD	1.604	5.367	16.976	1.378	.4212	2.484	62.75
#1	.0096	.0193	.01084	.0989	.0208	.0047	-.0036
#2	.0093	.0208	.00852	.0970	.0207	.0048	-.0094

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0051	.0475	Q.0143	.0244	.0259	.0034	.0039
SDev	.0001	.0005	.0042	.0003	.0133	.0003	.0021
%RSD	1.441	1.145	29.06	1.393	51.30	9.095	53.75
#1	.0051	.0479	Q.0172	.0247	.0353	.0032	.0054
#2	.0050	.0472	.0114	.0242	.0165	.0036	.0024

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0156	.0104	.1192	.0428	.00740	.00864	.0609
SDev	.0006	.0013	.1370	.0021	.00319	.00149	.0010
%RSD	3.797	12.53	114.9	4.815	43.091	17.206	1.609
#1	.0161	.0095	.2160	.0442	.00515	.00969	.0616
#2	.0152	.0113	.0223	.0413	.00966	.00759	.0602

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00784	.01041	.00895	.01013	.0019	.0000	.01152
SDev	.00309	.00175	.00007	.00220	.0002	.0000	.00216
%RSD	39.398	16.821	.78793	21.687	12.25	.0674	18.788
#1	.00566	.00917	.00890	.00858	.0017	.0000	.00999
#2	.01003	.01165	.00900	.01168	.0021	.0000	Q.01305

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0494	.0193
SDev	.0002	.0006
%RSD	.3157	3.286
#1	.0495	.0189
#2	.0493	.0198

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13869	--	--	--	--	--	--
SDev	5.986929	--	--	--	--	--	--
%RSD	.0431681	--	--	--	--	--	--
#1	13873	--	--	--	--	--	--
#2	13865	--	--	--	--	--	--

Method: SUBLIST Sample Name: ICSA Operator: CO
Run Time: 01/27/07 16:27:36
Comment: ICSA1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	503.5	-.00282	.0158	.0017	-.0020	450.8
SDev	.0001	.7	.00011	.0008	.0000	.0000	1.0
%RSD	17.11	.1477	3.7619	4.724	.1026	1.674	.2139
#1	-.0008	504.0	-.00290	.0163	.0017	-.0020	451.5
#2	-.0006	503.0	-.00275	.0153	.0017	-.0020	450.1

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q-.0058	.0001	.0014	.0025	185.2	-.0093	505.0
SDev	.0005	.0000	.0006	.0003	.3	.0037	.0
%RSD	8.934	2.516	38.82	12.69	.1545	39.47	.0076
#1	Q-.0062	.0001	.0018	.0027	185.4	-.0067	504.9
#2	Q-.0054	.0001	.0010	.0022	185.0	-.0119	505.0

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0042	-.0063	-.3230	.0021	-.06017	.02950	.0044
SDev	.0001	.0005	.1987	.0012	.00522	.00147	.0034
%RSD	2.891	7.688	61.52	55.81	8.6737	4.9945	78.43
#1	-.0042	-.0059	-.1825	.0013	-.05648	.02845	.0020
#2	-.0041	-.0066	-.4635	.0029	-.06386	.03054	.0068

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02372	-.00216	.00045	.00711	.0132	.0063	.00322
SDev	.00141	.00130	.00076	.00133	.0047	.0000	.00986
%RSD	5.9315	59.942	167.16	18.754	35.45	.0063	306.00
#1	.02273	-.00308	.00099	.00617	.0165	.0063	Q.01019
#2	.02472	-.00125	-.00008	.00805	.0099	.0063	-.00375

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0011	-.0044
SDev	.0000	.0001
%RSD	.1231	2.474
#1	.0011	-.0045
#2	.0011	-.0043

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12280	--	--	--	--	--	--
SDev	13.29416	--	--	--	--	--	--
%RSD	.1082544	--	--	--	--	--	--
#1	12271	--	--	--	--	--	--
#2	12290	--	--	--	--	--	--

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Method: SUBLIST Sample Name: ICSAB Operator: CO
Run Time: 01/27/07 16:32:31
Comment: ICSAB1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2164	495.0	.10442	.0181	.5537	.4844	446.7
SDev	.0007	.1	.00218	.0002	.0005	.0003	1.0
%RSD	.3198	.0177	2.0857	1.006	.0938	.0506	.2276
#1	.2159	495.1	.10288	.0179	.5533	.4846	447.4
#2	.2169	494.9	.10596	.0182	.5541	.4843	446.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9215	.4724	.4689	.5724	183.8	-.0043	496.1
SDev	.0045	.0002	.0013	.0003	.0	.0014	1.3
%RSD	.4929	.0450	.2673	.0538	.0036	32.53	.2536
#1	.9247	.4726	.4698	.5726	183.8	-.0033	497.0
#2	.9183	.4723	.4680	.5722	183.8	-.0053	495.2

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4742	.1936	-1.556	.9199	-.01159	.08572	.6400
SDev	.0014	.0008	.078	.0032	.00072	.00094	.0021
%RSD	.2949	.3932	4.989	.3468	6.2037	1.1008	.3285
#1	.4752	.1931	-1.611	.9222	-.01108	.08639	.6385
#2	.4732	.1941	-1.501	.9176	-.01210	.08505	.6415

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07392	.04768	.05412	.05706	.0053	.0061	.10851
SDev	.00251	.00087	.00087	.00026	.0034	.0000	.00391
%RSD	3.3921	1.8298	1.6107	.44754	64.22	.3168	3.6005
#1	.07570	.04706	.05473	.05724	.0029	.0062	.10575
#2	.07215	.04830	.05350	.05688	.0078	.0061	.11128

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.4878	.9298
SDev	.0013	.0002
%RSD	.2568	.0208
#1	.4887	.9300
#2	.4869	.9297

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12461	--	--	--	--	--	--
SDev	44.17277	--	--	--	--	--	--
%RSD	.3544846	--	--	--	--	--	--
#1	12430	--	--	--	--	--	--
#2	12492	--	--	--	--	--	--

Method: SUBLIST Sample Name: CCV Operator: CO
Run Time: 01/27/07 17:07:24
Comment: CCV1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.017	50.48	1.0171	1.024	1.017	1.019	51.29
SDev	.003	.05	.0015	.003	.002	.003	.09
%RSD	.2761	.0990	.14443	.2449	.1793	.2540	.1789
#1	1.015	50.45	1.0160	1.022	1.016	1.017	51.23
#2	1.019	50.52	1.0181	1.026	1.019	1.020	51.36

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9849	.9858	.9885	1.032	49.67	34.38	49.78
SDev	.0010	.0007	.0007	.000	.15	.01	.02
%RSD	.1014	.0703	.0683	.0376	.2999	.0288	.0419
#1	.9842	.9853	.9880	1.032	49.57	34.38	49.76
#2	.9856	.9863	.9889	1.032	49.78	34.39	49.79

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.001	1.004	47.43	.9819	.91289	1.0502	1.016
SDev	.000	.014	.24	.0005	.00144	.0001	.009
%RSD	.0002	1.427	.5036	.0475	.15774	.00994	.8424
#1	1.001	.9938	47.26	.9823	.91187	1.0501	1.010
#2	1.001	1.014	47.60	.9816	.91391	1.0503	1.022

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0180	1.0192	1.0052	1.0194	1.025	1.044	1.0122
SDev	.0040	.0113	.0006	.0088	.005	.001	.0009
%RSD	.38946	1.1059	.05488	.86719	.5181	.1281	.08494
#1	1.0152	1.0113	1.0048	1.0132	1.021	1.045	1.0116
#2	1.0208	1.0272	1.0056	1.0257	1.029	1.043	1.0128

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.9914	.9851
SDev	.0004	.0008
%RSD	.0438	.0810
#1	.9911	.9846
#2	.9917	.9857

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13498	--	--	--	--	--	--
SDev	46.95424	--	--	--	--	--	--
%RSD	.3478656	--	--	--	--	--	--
#1	13531	--	--	--	--	--	--
#2	13465	--	--	--	--	--	--

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Method: SUBLIST Sample Name: CCB Operator: CO
Run Time: 01/27/07 17:14:37
Comment: CCB1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0062	.00083	.0006	.0001	-.0001	-.0045
SDev	.0003	.0058	.00420	.0002	.0001	.0001	.0002
%RSD	327.2	93.77	505.03	29.56	94.13	134.5	4.642
#1	.0001	.0021	.00380	.0008	.0000	-.0001	-.0047
#2	-.0003	.0102	-.00214	.0005	.0001	-.0000	-.0044

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0002	-.0003	.0001	-.0045	.0038	.0052
SDev	.0000	.0005	.0000	.0001	.0093	.0002	.0003
%RSD	57.75	258.1	10.10	83.48	205.5	4.771	4.954
#1	-.0001	.0002	-.0003	.0001	-.0111	.0039	.0050
#2	-.0000	-.0005	-.0003	.0000	.0020	.0037	.0054

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0018	-.0001	.0005	.00054	.00172	.0036
SDev	.0000	.0001	.0483	.0002	.00026	.00238	.0028
%RSD	34.95	7.942	33360.	47.04	48.846	138.55	75.57
#1	.0000	.0019	.0340	.0003	.00035	.00003	.0017
#2	.0000	.0017	-.0343	.0006	.00072	.00340	.0056

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00145	-.00075	.00204	-.00041	.0003	.0000	.00050
SDev	.00186	.00040	.00168	.00089	.0018	.0000	.00187
%RSD	128.55	54.051	82.282	215.71	562.0	88.38	374.19
#1	-.00013	-.00046	.00085	.00022	-.0010	.0000	.00182
#2	-.00277	-.00103	.00322	-.00104	.0016	.0001	-.00082

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	-.0001	-.0006
SDev	.0001	.0003
%RSD	213.2	39.60
#1	-.0002	-.0008
#2	.0000	-.0005

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14076	--	--	--	--	--	--
SDev	14.04891	--	--	--	--	--	--
%RSD	.0998083	--	--	--	--	--	--
#1	14066	--	--	--	--	--	--
#2	14086	--	--	--	--	--	--

Method: SUBLIST Sample Name: B012707ICPS02 Operator: CO
Run Time: 01/27/07 17:20:39
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0128	.00196	.0118	.0004	.0010	.2801
SDev	.0003	.0121	.00032	.0004	.0001	.0003	.0108
%RSD	315.3	93.99	16.549	3.725	28.02	28.43	3.861
#1	.0001	-.0043	.00219	.0115	.0003	.0008	.2724
#2	-.0003	-.0214	.00173	.0121	.0005	.0012	.2877

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	-.0010	.0049	-.0003	.0508	.0239	.0064
SDev	.0001	.0003	.0008	.0002	.0034	.0056	.0052
%RSD	8.797	30.69	15.44	66.99	6.606	23.65	81.06
#1	.0011	-.0008	.0055	-.0005	.0485	.0279	.0028
#2	.0012	-.0012	.0044	-.0002	.0532	.0199	.0101

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	-.0030	1.047	-.0004	.01555	-.00062	.0076
SDev	.0001	.0015	.106	.0001	.00232	.00016	.0009
%RSD	8.166	50.64	10.11	29.69	14.928	26.518	11.82
#1	.0008	-.0040	.9724	-.0005	.01719	-.00073	.0070
#2	.0009	-.0019	1.122	-.0003	.01391	-.00050	.0082

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01389	.00689	.00542	.00049	.0290	.0004	-.00775
SDev	.00023	.00258	.00068	.00179	.0013	.0000	.00076
%RSD	1.6751	37.517	12.445	362.76	4.585	4.194	9.7783
#1	-.01406	.00506	.00590	-.00077	.0281	.0004	-.00721
#2	-.01373	.00871	.00495	.00176	.0300	.0004	-.00828

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	-.0000	.0077
SDev	.0003	.0001
%RSD	1046.	.9046
#1	-.0003	.0077
#2	.0002	.0078

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15201	--	--	--	--	--	--
SDev	259.0966	--	--	--	--	--	--
%RSD	1.704475	--	--	--	--	--	--
#1	15018	--	--	--	--	--	--
#2	15384	--	--	--	--	--	--

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Method: SUBLIST Sample Name: S012707ICPS02 Operator: CO
Run Time: 01/27/07 17:25:33
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0428	1.518	1.6825	.0479	1.764	.0427	.1855
SDev	.0006	.008	.0042	.0004	.007	.0003	.0033
%RSD	1.404	.4946	.24781	.8134	.3949	.8293	1.761
#1	.0424	1.523	1.6795	.0481	1.769	.0425	.1832
#2	.0432	1.513	1.6854	.0476	1.759	.0430	.1878

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0449	.4316	.1796	.2269	.9402	.0359	.0070
SDev	.0006	.0012	.0005	.0009	.0138	.0003	.0049
%RSD	1.228	.2879	.2632	.3895	1.469	.7996	69.97
#1	.0445	.4308	.1792	.2275	.9304	.0357	.0035
#2	.0453	.4325	.1799	.2263	.9500	.0361	.0105

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4547	-.0033	.4868	.4430	.43336	.41764	.4088
SDev	.0014	.0008	.0401	.0057	.00049	.00611	.0021
%RSD	.3161	25.04	8.237	1.286	.11390	1.4628	.5061
#1	.4537	-.0027	.4585	.4389	.43371	.41332	.4073
#2	.4557	-.0039	.5152	.4470	.43301	.42196	.4102

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.4369	1.4555	.42358	1.4499	.0322	.0009	1.6360
SDev	.0034	.0090	.00371	.0071	.0006	.0000	.0027
%RSD	.23886	.61975	.87484	.49007	1.785	2.748	.16199
#1	1.4344	1.4491	.42096	1.4448	.0326	.0008	1.6341
#2	1.4393	1.4618	.42620	1.4549	.0318	.0009	1.6379

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.4473	.4365
SDev	.0006	.0035
%RSD	.1275	.7960
#1	.4469	.4341
#2	.4477	.4390

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14121	--	--	--	--	--	--
SDev	89.57124	--	--	--	--	--	--
%RSD	.6343105	--	--	--	--	--	--
#1	14058	--	--	--	--	--	--
#2	14184	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-001 5X1 Operator: CO
Run Time: 01/27/07 17:30:26
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	31.21	.03977	.0167	.2604	.0042	1.405
SDev	.0001	.04	.00569	.0002	.0000	.0001	.007
%RSD	9.639	.1360	14.310	1.209	.0066	1.265	.4731
#1	-.0006	31.24	.04379	.0169	.2604	.0042	1.401
#2	-.0007	31.18	.03574	.0166	.2605	.0041	1.410

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.0067	.0495	.0904	.0298	110.9	2.528	2.814
SDev	.0001	.0005	.0002	.0001	.0	.014	.003
%RSD	2.144	.9239	.1761	.1635	.0029	.5626	.0943
#1	L-.0066	.0499	.0905	.0298	110.9	2.538	2.816
#2	L-.0068	.0492	.0903	.0298	110.9	2.518	2.812

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.459	-.0001	-1.434	.0898	-.19057	.20638	.0133
SDev	.001	.0000	.092	.0002	.00199	.00075	.0015
%RSD	.0310	.4090	6.429	.2419	1.0446	.36190	11.31
#1	3.460	-.0001	-1.369	.0900	-.18916	.20586	.0143
#2	3.458	-.0001	-1.499	.0897	-.19198	.20691	.0122

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01660	.01279	.07503	.01462	.0086	.0296	L-.01914
SDev	.00118	.00031	.00016	.00060	.0010	.0002	.00113
%RSD	7.1086	2.4319	.21844	4.1123	12.24	.6412	5.8872
#1	.01577	.01257	.07515	.01419	.0078	.0297	L-.01994
#2	.01744	.01301	.07492	.01504	.0093	.0295	L-.01834

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.1369	.2131
SDev	.0001	.0004
%RSD	.0978	.1787
#1	.1368	.2128
#2	.1370	.2134

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14411	--	--	--	--	--	--
SDev	13.76580	--	--	--	--	--	--
%RSD	.0955203	--	--	--	--	--	--
#1	14421	--	--	--	--	--	--
#2	14402	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-001D 5X1 Operator: CO
Run Time: 01/27/07 17:35:19
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	29.99	.05192	.0120	.2698	.0038	1.342
SDev	.0003	.05	.00148	.0015	.0007	.0000	.008
%RSD	42.89	.1567	2.8609	12.56	.2625	.9769	.6073
#1	-.0011	30.02	.05087	.0109	.2703	.0037	1.336
#2	-.0006	29.95	.05297	.0131	.2693	.0038	1.348

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.0060	.0491	.0908	.0334	152.9	2.353	2.639
SDev	.0002	.0000	.0003	.0001	.3	.016	.001
%RSD	3.193	.0496	.3499	.2946	.2220	.6862	.0523
#1	L-.0061	.0492	.0906	.0334	152.7	2.364	2.640
#2	L-.0059	.0491	.0910	.0335	153.2	2.342	2.638

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.900	-.0009	-2.053	.0767	-.30776	.25919	.0103
SDev	.008	.0000	.125	.0013	.00176	.00277	.0003
%RSD	.1998	.3049	6.089	1.745	.57257	1.0672	2.570
#1	3.895	-.0009	-1.965	.0776	-.30651	.25724	.0105
#2	3.906	-.0009	-2.141	.0757	-.30900	.26115	.0101

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02105	.01541	.07103	.01785	.0089	.0305	L-.02162
SDev	.00121	.00441	.00126	.00254	.0000	.0001	.00350
%RSD	5.7380	28.586	1.7694	14.217	.1892	.2009	16.210
#1	.02020	.01853	.07014	.01965	.0089	.0305	L-.01914
#2	.02191	.01230	.07192	.01606	.0089	.0305	L-.02409

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.1021	.1752
SDev	.0003	.0005
%RSD	.2614	.2838
#1	.1019	.1749
#2	.1023	.1756

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14256	--	--	--	--	--	--
SDev	32.48134	--	--	--	--	--	--
%RSD	.2278495	--	--	--	--	--	--
#1	14233	--	--	--	--	--	--
#2	14279	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-001S 5X1 Operator: CO
Run Time: 01/27/07 17:40:12
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0079	22.32	.40020	.0071	.5723	.0128	1.004
SDev	.0002	.02	.00551	.0004	.0022	.0002	.009
%RSD	3.064	.1106	1.3772	5.315	.3837	1.849	.8469
#1	.0081	22.34	.40410	.0068	.5739	.0127	.9977
#2	.0077	22.30	.39631	.0073	.5708	.0130	1.010

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.1303	.1212	.0714	134.6	1.450	1.766
SDev	.0001	.0001	.0006	.0002	.3	.022	.001
%RSD	9.063	.0429	.4506	.2880	.2564	1.510	.0530
#1	.0012	.1304	.1216	.0716	134.4	1.466	1.765
#2	.0011	.1303	.1208	.0713	134.9	1.435	1.767

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.072	-.0005	-1.981	.1486	-.16632	.33179	.0395
SDev	.001	.0011	.048	.0021	.00439	.00192	.0010
%RSD	.0190	228.3	2.400	1.443	2.6423	.57913	2.532
#1	3.073	-.0013	-2.015	.1501	-.16321	.33043	.0402
#2	3.072	.0003	-1.948	.1471	-.16942	.33315	.0388

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.34115	.33442	.16669	.33722	.0103	.0223	.32773
SDev	.00164	.00140	.00009	.00039	.0008	.0004	.00030
%RSD	.48010	.41830	.05147	.11439	7.324	1.712	.09210
#1	.34231	.33343	.16675	.33694	.0098	.0226	.32752
#2	.33999	.33541	.16662	.33749	.0109	.0221	.32795

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.1800	.2450
SDev	.0000	.0004
%RSD	.0159	.1745
#1	.1800	.2453
#2	.1799	.2447

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14350	--	--	--	--	--	--
SDev	48.46305	--	--	--	--	--	--
%RSD	.3377330	--	--	--	--	--	--
#1	14315	--	--	--	--	--	--
#2	14384	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-001L 5X1 Operator: CO
Run Time: 01/27/07 17:45:05
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	6.221	.00659	.0026	.0529	.0012	.3954
SDev	.0000	.010	.00062	.0002	.0002	.0000	.0066
%RSD	21.90	.1624	9.3835	8.767	.3511	.3406	1.658
#1	.0001	6.228	.00616	.0028	.0530	.0012	.3907
#2	.0001	6.214	.00703	.0025	.0527	.0012	.4000

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0011	.0099	.0184	.0062	22.87	.4293	.5705
SDev	.0001	.0003	.0000	.0001	.00	.0030	.0005
%RSD	4.516	2.628	.2083	1.574	.0075	.6939	.0842
#1	-.0011	.0097	.0185	.0061	22.87	.4314	.5702
#2	-.0012	.0101	.0184	.0062	22.87	.4272	.5708

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7109	-.0014	-.1695	.0177	-.03840	.04484	.0046
SDev	.0002	.0010	.0407	.0000	.00078	.00018	.0038
%RSD	.0300	71.06	24.00	.2527	2.0427	.40646	83.09
#1	.7111	-.0020	-.1982	.0177	-.03896	.04497	.0019
#2	.7108	-.0007	-.1407	.0177	-.03785	.04472	.0073

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00565	.00166	.01795	.00354	.0037	.0061	-.00343
SDev	.00083	.00429	.00014	.00259	.0009	.0001	.00530
%RSD	14.641	258.15	.78176	72.960	24.80	.8182	154.44
#1	.00507	.00469	.01785	.00537	.0031	.0060	.00032
#2	.00624	-.00137	.01805	.00172	.0044	.0061	-.00718

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0276	.0463
SDev	.0004	.0003
%RSD	1.303	.5711
#1	.0278	.0465
#2	.0273	.0461

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14502	--	--	--	--	--	--
SDev	12.25698	--	--	--	--	--	--
%RSD	.0845185	--	--	--	--	--	--
#1	14511	--	--	--	--	--	--
#2	14493	--	--	--	--	--	--

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Method: SUBLIST Sample Name: C2001-002 5X1 Operator: CO
Run Time: 01/27/07 17:54:51
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	21.69	.01465	.0097	.2031	.0019	1.353
SDev	.0002	.01	.00230	.0000	.0006	.0001	.011
%RSD	30.69	.0536	15.689	.3875	.2998	4.034	.7889
#1	-.0008	21.70	.01302	.0097	.2036	.0018	1.346
#2	-.0005	21.68	.01627	.0097	.2027	.0019	1.361

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0037	.0330	.0429	.0190	67.21	1.651	1.793
SDev	.0003	.0003	.0004	.0000	.24	.011	.004
%RSD	9.342	1.034	.9772	.2236	.3577	.6869	.2132
#1	-.0035	.0328	.0432	.0189	67.04	1.659	1.790
#2	-.0040	.0333	.0426	.0190	67.38	1.643	1.795

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.487	-.0010	-.6587	.0437	-.09844	.13430	.0107
SDev	.006	.0001	.0374	.0008	.00154	.00101	.0038
%RSD	.2216	14.13	5.681	1.910	1.5628	.75439	35.54
#1	2.483	-.0009	-.6851	.0431	-.09735	.13502	.0134
#2	2.491	-.0011	-.6322	.0443	-.09952	.13359	.0080

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00704	.01154	.05751	.01061	.0085	.0274	L-.01675
SDev	.00097	.00019	.00119	.00045	.0021	.0000	.00148
%RSD	13.809	1.6584	2.0659	4.2561	25.21	.0956	8.8518
#1	.00773	.01167	.05835	.01093	.0100	.0274	L-.01780
#2	.00636	.01140	.05667	.01029	.0070	.0274	L-.01570

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0566	.0904
SDev	.0000	.0011
%RSD	.0605	1.202
#1	.0566	.0896
#2	.0567	.0912

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14091	--	--	--	--	--	--
SDev	.6131942	--	--	--	--	--	--
%RSD	.0043516	--	--	--	--	--	--
#1	14091	--	--	--	--	--	--
#2	14092	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-003 5X1 Operator: CO
Run Time: 01/27/07 17:59:44
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	31.07	.03637	.0110	.3422	.0035	1.408
SDev	.0005	.01	.00112	.0008	.0003	.0001	.002
%RSD	61.41	.0483	3.0939	6.933	.0928	3.505	.1149
#1	-.0011	31.08	.03558	.0115	.3420	.0034	1.409
#2	-.0004	31.06	.03717	.0105	.3424	.0036	1.407

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.0067	.0502	.0653	.0869	114.9	2.443	2.469
SDev	.0003	.0002	.0002	.0001	.2	.005	.001
%RSD	4.296	.3320	.3304	.1322	.1829	.1893	.0331
#1	L-.0065	.0503	.0655	.0868	115.0	2.446	2.469
#2	L-.0069	.0501	.0652	.0870	114.7	2.440	2.470

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.484	.0002	-1.479	.0934	1.5699	1.9860	.0205
SDev	.000	.0001	.008	.0002	.0007	.0057	.0006
%RSD	.0012	69.17	.5531	.1989	.04314	.28775	2.711
#1	3.484	.0003	-1.473	.0935	1.5694	1.9900	.0209
#2	3.484	.0001	-1.485	.0933	1.5704	1.9819	.0201

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01284	.01150	1.8483	.01251	.0109	.1409	L-.02213
SDev	.00013	.00012	.0036	.00012	.0013	.0001	.00374
%RSD	1.0170	1.0315	.19418	.99517	11.73	.0387	16.910
#1	.01294	.01159	1.8508	.01260	.0100	.1409	L-.01949
#2	.01275	.01142	1.8457	.01242	.0119	.1408	L-.02478

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0809	.2219
SDev	.0003	.0018
%RSD	.3572	.8083
#1	.0807	.2232
#2	.0811	.2206

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14279	--	--	--	--	--	--
SDev	47.23667	--	--	--	--	--	--
%RSD	.3308141	--	--	--	--	--	--
#1	14246	--	--	--	--	--	--
#2	14312	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-004 5X1 Operator: CO
Run Time: 01/27/07 18:04:37
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	31.75	.02783	.0145	.2905	.0037	1.375
SDev	.0004	.03	.00506	.0008	.0008	.0000	.003
%RSD	50.10	.1044	18.179	5.752	.2615	.6225	.1942
#1	-.0005	31.78	.02425	.0151	.2911	.0037	1.373
#2	-.0010	31.73	.03141	.0139	.2900	.0037	1.377

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.0054	.0595	.0667	.0275	93.51	2.536	2.682
SDev	.0002	.0002	.0001	.0006	.12	.011	.011
%RSD	3.673	.2801	.1411	2.016	.1323	.4338	.4064
#1	L-.0055	.0596	.0666	.0271	93.42	2.544	2.689
#2	L-.0052	.0593	.0667	.0279	93.60	2.528	2.674

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.424	-.0009	-1.223	.0906	-.13720	.18970	.0068
SDev	.004	.0011	.094	.0006	.00183	.00500	.0011
%RSD	.0900	126.6	7.706	.6397	1.3314	2.6333	16.37
#1	4.421	-.0017	-1.289	.0901	-.13850	.19323	.0076
#2	4.427	-.0001	-1.156	.0910	-.13591	.18617	.0060

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01289	.01050	.08168	.01185	.0136	.0366	L-.02985
SDev	.00040	.00293	.00272	.00182	.0015	.0001	.00081
%RSD	3.1227	27.888	3.3354	15.349	11.29	.4159	2.7077
#1	.01261	.01257	.08360	.01314	.0147	.0367	L-.03042
#2	.01317	.00843	.07975	.01056	.0125	.0365	L-.02927

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0878	.1556
SDev	.0004	.0005
%RSD	.5157	.3023
#1	.0875	.1553
#2	.0882	.1559

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14384	--	--	--	--	--	--
SDev	9.286991	--	--	--	--	--	--
%RSD	.0645640	--	--	--	--	--	--
#1	14378	--	--	--	--	--	--
#2	14391	--	--	--	--	--	--

Method: SUBLIST Sample Name: CCV Operator: CO
Run Time: 01/27/07 18:11:48
Comment: CCV2/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.018	50.90	1.0241	1.037	1.027	1.024	51.36
SDev	.001	.02	.0026	.002	.003	.002	.07
%RSD	.1141	.0313	.25562	.1980	.3132	.2320	.1305
#1	1.019	50.91	1.0259	1.038	1.024	1.026	51.40
#2	1.018	50.88	1.0222	1.036	1.029	1.022	51.31

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9936	.9915	.9931	1.043	49.60	34.72	50.18
SDev	.0003	.0007	.0003	.000	.12	.11	.05
%RSD	.0340	.0682	.0302	.0081	.2461	.3159	.1074
#1	.9938	.9910	.9929	1.043	49.69	34.64	50.21
#2	.9933	.9920	.9933	1.043	49.52	34.79	50.14

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.004	1.017	48.11	.9902	.92080	1.0568	1.024
SDev	.001	.011	.04	.0020	.00152	.0001	.010
%RSD	.0803	1.101	.0750	.2003	.16462	.01047	.9982
#1	1.005	1.009	48.09	.9916	.91973	1.0568	1.016
#2	1.003	1.025	48.14	.9888	.92187	1.0569	1.031

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0323	1.0298	1.0123	1.0312	1.037	1.054	1.0139
SDev	.0034	.0014	.0006	.0021	.002	.001	.0145
%RSD	.32970	.13874	.05704	.20223	.2218	.1237	1.4302
#1	1.0299	1.0288	1.0119	1.0298	1.036	1.053	1.0037
#2	1.0347	1.0308	1.0127	1.0327	1.039	1.055	1.0242

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.9957	.9858
SDev	.0009	.0003
%RSD	.0944	.0295
#1	.9964	.9860
#2	.9950	.9855

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13486	--	--	--	--	--	--
SDev	20.83686	--	--	--	--	--	--
%RSD	.1545050	--	--	--	--	--	--
#1	13471	--	--	--	--	--	--
#2	13501	--	--	--	--	--	--

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Method: SUBLIST Sample Name: CCB Operator: CO
Run Time: 01/27/07 18:19:01
Comment: CCB2/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	-.0009	.00022	.0003	.0002	.0001	.0063
SDev	.0003	.0065	.00127	.0008	.0001	.0000	.0014
%RSD	263.5	740.1	569.61	224.8	28.33	28.70	22.21
#1	.0003	.0037	-.00067	-.0002	.0002	.0001	.0073
#2	-.0001	-.0054	.00112	.0009	.0001	.0002	.0053

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	-.0003	.0001	.0002	-.0021	.0042	.0059
SDev	.0001	.0002	.0002	.0003	.0135	.0021	.0008
%RSD	135.6	63.83	373.6	187.9	641.1	48.82	13.23
#1	.0001	-.0002	.0002	.0004	.0075	.0057	.0065
#2	.0000	-.0004	-.0001	-.0001	-.0117	.0028	.0054

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0021	.1641	-.0005	.00042	.00372	.0030
SDev	.0001	.0003	.0227	.0009	.00117	.00157	.0004
%RSD	80.27	13.54	13.84	195.4	281.35	42.303	13.03
#1	.0001	.0023	.1801	-.0011	-.00041	.00483	.0033
#2	.0000	.0019	.1480	.0002	.00125	.00261	.0027

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00062	.00023	.00333	.00093	.0015	.0001	.00159
SDev	.00282	.00250	.00066	.00073	.0001	.0000	.00044
%RSD	455.22	1071.6	19.791	78.383	10.11	9.835	27.387
#1	-.00137	.00200	.00380	.00145	.0016	.0001	.00190
#2	.00261	-.00154	.00287	.00042	.0014	.0001	.00128

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0000	-.0001
SDev	.0003	.0002
%RSD	835.7	171.9
#1	.0002	-.0002
#2	-.0002	.0000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14031	--	--	--	--	--	--
SDev	10.04106	--	--	--	--	--	--
%RSD	.0715623	--	--	--	--	--	--
#1	14024	--	--	--	--	--	--
#2	14038	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-005 5X1 Operator: CO
Run Time: 01/27/07 18:25:03
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	28.56	.02712	.0108	.2720	.0025	1.705
SDev	.0000	.05	.00132	.0002	.0003	.0001	.004
%RSD	5.235	.1762	4.8818	2.118	.1015	4.314	.2441
#1	-.0004	28.60	.02805	.0110	.2722	.0025	1.702
#2	-.0004	28.53	.02618	.0107	.2718	.0026	1.708

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0023	.0433	.0593	.0548	67.55	2.207	2.443
SDev	.0003	.0006	.0002	.0001	.01	.010	.002
%RSD	13.88	1.334	.3136	.1235	.0185	.4463	.0974
#1	-.0021	.0429	.0594	.0548	67.56	2.214	2.441
#2	-.0025	.0437	.0592	.0549	67.54	2.200	2.445

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.889	.0007	-.7034	.0597	.26064	.48592	.0119
SDev	.006	.0014	.1553	.0009	.00066	.00201	.0015
%RSD	.2001	203.4	22.08	1.510	.25219	.41366	13.00
#1	2.885	-.0003	-.5936	.0591	.26111	.48450	.0108
#2	2.893	.0017	-.8133	.0603	.26018	.48734	.0130

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01130	.01109	.41162	.01174	.0092	.0551	L-.01632
SDev	.00046	.00229	.00112	.00168	.0014	.0003	.00209
%RSD	4.0448	20.600	.27223	14.293	15.60	.5713	12.798
#1	.01162	.01271	.41083	.01292	.0103	.0549	L-.01485
#2	.01097	.00948	.41242	.01055	.0082	.0553	L-.01780

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0769	.1373
SDev	.0003	.0007
%RSD	.4585	.4946
#1	.0767	.1368
#2	.0772	.1378

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13919	--	--	--	--	--	--
SDev	23.94841	--	--	--	--	--	--
%RSD	.1720527	--	--	--	--	--	--
#1	13902	--	--	--	--	--	--
#2	13936	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-006 5X1 Operator: CO
Run Time: 01/27/07 18:29:56
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	35.43	.02729	.0186	.1868	.0012	4.670
SDev	.0001	.02	.00286	.0008	.0003	.0001	.014
%RSD	18.22	.0652	10.471	4.355	.1843	8.107	.2997
#1	-.0003	35.42	.02527	.0180	.1870	.0011	4.660
#2	-.0004	35.45	.02931	.0192	.1866	.0013	4.680

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0025	.0246	.0610	.9732	62.79	2.982	3.635
SDev	.0001	.0000	.0001	.0014	.05	.007	.004
%RSD	5.513	.0888	.0820	.1485	.0828	.2273	.1098
#1	-.0026	.0246	.0610	.9742	62.75	2.977	3.632
#2	-.0024	.0246	.0609	.9722	62.82	2.986	3.638

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.102	-.0005	-.6927	.0423	.50543	.70374	.0082
SDev	.001	.0003	.0392	.0003	.00119	.00178	.0000
%RSD	.0562	54.61	5.658	.6560	.23568	.25274	.2431
#1	1.102	-.0003	-.6650	.0425	.50627	.70500	.0082
#2	1.103	-.0008	-.7204	.0421	.50458	.70248	.0082

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00534	.00727	.63844	.00723	.0110	.0322	-.00852
SDev	.00334	.00228	.00159	.00041	.0003	.0000	.00212
%RSD	62.474	31.397	.24826	5.6724	2.669	.0393	24.852
#1	.00770	.00566	.63956	.00694	.0108	.0322	-.00703
#2	.00298	.00889	.63732	.00752	.0112	.0322	L-.01002

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0918	.1820
SDev	.0002	.0002
%RSD	.2300	.1267
#1	.0919	.1818
#2	.0916	.1821

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13431	--	--	--	--	--	--
SDev	36.67702	--	--	--	--	--	--
%RSD	.2730745	--	--	--	--	--	--
#1	13405	--	--	--	--	--	--
#2	13457	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-007 5X1 Operator: CO
Run Time: 01/27/07 18:34:49
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	37.22	.03041	.0112	.1852	.0021	4.432
SDev	.0004	.02	.00277	.0004	.0002	.0000	.010
%RSD	48.25	.0593	9.1015	3.637	.1237	.5480	.2267
#1	-.0012	37.23	.02845	.0115	.1854	.0021	4.424
#2	-.0006	37.20	.03237	.0109	.1851	.0022	4.439

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0046	.0309	.0666	.0549	77.66	2.844	4.009
SDev	.0002	.0000	.0001	.0001	.07	.001	.004
%RSD	3.529	.0280	.2287	.2426	.0932	.0213	.0936
#1	-.0045	.0309	.0665	.0550	77.71	2.845	4.011
#2	-.0047	.0309	.0667	.0548	77.61	2.844	4.006

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.430	-.0003	-.9660	.0454	-.04145	.21446	.0058
SDev	.002	.0014	.0169	.0006	.00176	.00058	.0001
%RSD	.1100	469.1	1.752	1.331	4.2537	.27230	.8890
#1	1.429	-.0013	-.9780	.0450	-.04269	.21488	.0058
#2	1.431	.0007	-.9540	.0458	-.04020	.21405	.0058

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01101	.00673	.12999	.00872	.0125	.0328	-.00739
SDev	.00006	.00074	.00015	.00047	.0020	.0002	.00137
%RSD	.55736	11.029	.11269	5.4477	16.28	.6928	18.542
#1	.01096	.00725	.12989	.00906	.0139	.0330	-.00642
#2	.01105	.00620	.13010	.00839	.0111	.0326	-.00836

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.1043	.1134
SDev	.0004	.0015
%RSD	.3591	1.332
#1	.1045	.1123
#2	.1040	.1144

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14061	--	--	--	--	--	--
SDev	14.99149	--	--	--	--	--	--
%RSD	.1066168	--	--	--	--	--	--
#1	14051	--	--	--	--	--	--
#2	14072	--	--	--	--	--	--

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Method: SUBLIST Sample Name: C2001-008 5X1 Operator: CO
Run Time: 01/27/07 18:39:43
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	30.83	.02644	.0081	.1885	.0014	3.341
SDev	.0000	.04	.00184	.0011	.0000	.0001	.006
%RSD	8.203	.1181	6.9639	13.01	.0178	3.669	.1709
#1	-.0005	30.86	.02514	.0089	.1886	.0013	3.337
#2	-.0006	30.81	.02775	.0074	.1885	.0014	3.345

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0022	.0224	.0543	.0598	60.38	1.977	3.595
SDev	.0002	.0000	.0003	.0005	.02	.009	.001
%RSD	10.48	.0428	.6141	.7834	.0409	.4707	.0169
#1	-.0024	.0224	.0545	.0595	60.37	1.984	3.595
#2	-.0021	.0223	.0541	.0601	60.40	1.971	3.596

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.038	-.0000	-.4445	.0380	-.06755	.12857	.0068
SDev	.002	.0013	.0594	.0008	.00280	.00071	.0023
%RSD	.2342	15520.	13.36	1.972	4.1402	.55353	33.20
#1	1.036	-.0009	-.4025	.0375	-.06557	.12908	.0052
#2	1.039	.0009	-.4865	.0386	-.06952	.12807	.0084

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00662	.00894	.06399	.00875	.0099	.0261	-.00843
SDev	.00162	.00350	.00141	.00180	.0005	.0001	.00017
%RSD	24.500	39.190	2.1974	20.529	5.520	.5713	2.0279
#1	.00777	.00646	.06499	.00748	.0095	.0260	-.00830
#2	.00547	.01142	.06300	.01002	.0102	.0262	-.00855

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0892	.1043
SDev	.0002	.0004
%RSD	.2379	.4052
#1	.0893	.1046
#2	.0890	.1040

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13727	--	--	--	--	--	--
SDev	4.808878	--	--	--	--	--	--
%RSD	.0350312	--	--	--	--	--	--
#1	13724	--	--	--	--	--	--
#2	13731	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-009 5X1 Operator: CO
Run Time: 01/27/07 18:44:37
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	51.19	.02319	.0255	.3150	.0021	17.05
SDev	.0003	.06	.00200	.0004	.0014	.0002	.04
%RSD	46.36	.1116	8.6327	1.559	.4288	9.438	.2391
#1	-.0004	51.23	.02177	.0258	.3160	.0020	17.02
#2	-.0008	51.15	.02460	.0252	.3141	.0023	17.08

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0030	.0294	.0753	.2702	67.48	4.842	5.797
SDev	.0001	.0001	.0002	.0003	.02	.003	.013
%RSD	3.945	.2846	.2826	.1020	.0274	.0523	.2276
#1	-.0029	.0295	.0754	.2704	67.50	4.844	5.787
#2	-.0030	.0294	.0751	.2700	67.47	4.840	5.806

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.559	-.0001	-.6995	.0566	.05807	.25767	.0048
SDev	.002	.0012	.1518	.0003	.00058	.00125	.0025
%RSD	.1372	1046.	21.70	.5985	1.0022	.48451	52.20
#1	1.558	-.0009	-.8068	.0564	.05848	.25855	.0030
#2	1.561	.0007	-.5922	.0569	.05766	.25678	.0066

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00733	.00833	.19207	.00858	.0119	.0521	L-.01094
SDev	.00266	.00089	.00103	.00148	.0027	.0002	.00622
%RSD	36.273	10.695	.53502	17.254	23.09	.4383	56.904
#1	.00921	.00896	.19280	.00963	.0138	.0523	L-.01534
#2	.00545	.00770	.19135	.00753	.0100	.0520	-.00654

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.1125	.1775
SDev	.0004	.0001
%RSD	.3459	.0299
#1	.1123	.1774
#2	.1128	.1775

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13753	--	--	--	--	--	--
SDev	18.00913	--	--	--	--	--	--
%RSD	.1309480	--	--	--	--	--	--
#1	13740	--	--	--	--	--	--
#2	13766	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-010 5X1 Operator: CO
Run Time: 01/27/07 18:49:30
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	30.66	.02448	.0137	.2457	.0021	5.104
SDev	.0001	.06	.00312	.0005	.0003	.0001	.028
%RSD	10.71	.2049	12.734	3.479	.1194	4.524	.5510
#1	-.0007	30.70	.02227	.0141	.2459	.0020	5.084
#2	-.0008	30.62	.02668	.0134	.2455	.0022	5.124

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	.0256	.0555	.1369	64.66	2.908	3.212
SDev	.0002	.0001	.0004	.0009	.14	.012	.004
%RSD	8.999	.5682	.8072	.6365	.2100	.4088	.1349
#1	-.0018	.0255	.0552	.1375	64.57	2.916	3.215
#2	-.0021	.0257	.0558	.1362	64.76	2.899	3.209

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.256	-.0019	-.6244	.0472	.27793	.49418	.0080
SDev	.002	.0017	.0239	.0011	.00128	.00507	.0015
%RSD	.1829	88.99	3.832	2.348	.46143	1.0256	18.22
#1	1.254	-.0007	-.6075	.0464	.27702	.49060	.0090
#2	1.257	-.0031	-.6413	.0480	.27883	.49777	.0070

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01049	.01008	.42287	.01078	.0115	.0437	-.00946
SDev	.00200	.00117	.00380	.00011	.0021	.0001	.00027
%RSD	19.047	11.587	.89948	1.0263	18.60	.1489	2.8021
#1	.01190	.00925	.42018	.01070	.0130	.0436	-.00928
#2	.00907	.01090	.42556	.01085	.0100	.0437	-.00965

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0839	.1201
SDev	.0000	.0008
%RSD	.0181	.6719
#1	.0839	.1195
#2	.0839	.1207

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14223	--	--	--	--	--	--
SDev	83.11267	--	--	--	--	--	--
%RSD	.5843672	--	--	--	--	--	--
#1	14164	--	--	--	--	--	--
#2	14281	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-011 5X1 Operator: CO
Run Time: 01/27/07 18:54:24
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	33.42	.01830	.0189	.9316	.0018	4.457
SDev	.0003	.01	.00391	.0001	.0029	.0000	.014
%RSD	49.28	.0406	21.379	.6597	.3111	.9795	.3164
#1	-.0007	33.42	.01554	.0190	.9337	.0019	4.447
#2	-.0004	33.43	.02107	.0188	.9296	.0018	4.467

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0021	.0229	.0623	.3114	59.65	3.119	3.419
SDev	.0000	.0000	.0006	.0009	.01	.001	.012
%RSD	.5244	.0510	.9152	.2795	.0109	.0450	.3526
#1	-.0022	.0229	.0627	.3120	59.65	3.118	3.428
#2	-.0021	.0229	.0619	.3108	59.64	3.120	3.411

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.180	-.0000	-.5360	.0530	.88964	1.0803	.0073
SDev	.001	.0013	.0980	.0001	.00620	.0059	.0026
%RSD	.1016	28910.	18.29	.2358	.69713	.54147	35.02
#1	1.181	-.0009	-.6054	.0529	.89403	1.0762	.0055
#2	1.179	.0009	-.4667	.0531	.88525	1.0845	.0092

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00670	.00524	1.0175	.00630	.0106	.0376	-.00654
SDev	.00321	.00136	.0018	.00016	.0029	.0003	.00301
%RSD	47.899	25.998	.18031	2.5063	27.82	.7013	45.989
#1	.00443	.00621	1.0162	.00619	.0085	.0375	-.00441
#2	.00897	.00428	1.0188	.00641	.0126	.0378	-.00867

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0804	.1978
SDev	.0001	.0003
%RSD	.0773	.1628
#1	.0805	.1975
#2	.0804	.1980

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13967	--	--	--	--	--	--
SDev	33.18844	--	--	--	--	--	--
%RSD	.2376278	--	--	--	--	--	--
#1	13943	--	--	--	--	--	--
#2	13990	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-012 5X1 Operator: CO
Run Time: 01/27/07 18:59:17
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	27.39	.02079	.0136	.2143	.0018	4.691
SDev	.0002	.03	.00065	.0003	.0006	.0001	.006
%RSD	39.96	.1084	3.1053	1.938	.2813	4.297	.1341
#1	-.0006	27.41	.02125	.0134	.2147	.0017	4.686
#2	-.0003	27.37	.02034	.0138	.2138	.0018	4.695

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0055	.0290	.0512	.7049	56.44	2.570	2.866
SDev	.0000	.0007	.0002	.0001	.02	.006	.001
%RSD	.4010	2.524	.3700	.0213	.0293	.2453	.0388
#1	.0055	.0295	.0513	.7050	56.45	2.575	2.867
#2	.0055	.0285	.0510	.7048	56.43	2.566	2.865

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.974	.0013	-.7370	.0445	.45526	.63728	.0056
SDev	.002	.0000	.0953	.0010	.00235	.00784	.0017
%RSD	.0902	.1998	12.93	2.348	.51689	1.2300	30.74
#1	1.975	.0013	-.8043	.0437	.45359	.63174	.0044
#2	1.973	.0013	-.6696	.0452	.45692	.64282	.0068

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00526	.01168	.57738	.01011	.0100	.0253	L-.01365
SDev	.00231	.00066	.00601	.00033	.0014	.0000	.00317
%RSD	43.883	5.6770	1.0409	3.2355	14.40	.1510	23.251
#1	.00689	.01121	.57313	.01035	.0090	.0253	L-.01590
#2	.00363	.01215	.58163	.00988	.0110	.0253	L-.01141

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0668	.2217
SDev	.0003	.0001
%RSD	.3972	.0475
#1	.0669	.2217
#2	.0666	.2218

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13940	--	--	--	--	--	--
SDev	36.11078	--	--	--	--	--	--
%RSD	.2590401	--	--	--	--	--	--
#1	13915	--	--	--	--	--	--
#2	13966	--	--	--	--	--	--

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Method: SUBLIST Sample Name: C2001-013 5X1 Operator: CO
Run Time: 01/27/07 19:04:11
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	22.18	.01855	.0082	.3498	.0018	7.551
SDev	.0000	.09	.00007	.0007	.0016	.0001	.018
%RSD	17.44	.3965	.39845	8.321	.4557	5.878	.2364
#1	-.0003	22.25	.01860	.0077	.3509	.0017	7.538
#2	-.0002	22.12	.01850	.0087	.3487	.0019	7.563

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	.0246	.0395	.9851	70.29	2.068	2.854
SDev	.0001	.0001	.0008	.0030	.02	.008	.010
%RSD	38.13	.4010	2.045	.3057	.0298	.4072	.3453
#1	.0005	.0247	.0401	.9873	70.27	2.074	2.861
#2	.0003	.0246	.0389	.9830	70.30	2.062	2.847

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.845	.0005	-.9583	.0493	.17677	.42575	.0074
SDev	.003	.0014	.0185	.0003	.00714	.00242	.0004
%RSD	.1431	283.7	1.931	.7172	4.0387	.56792	6.023
#1	1.843	.0015	-.9714	.0495	.18182	.42746	.0071
#2	1.847	-.0005	-.9453	.0490	.17172	.42404	.0077

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01047	.00609	.34356	.00812	.0111	.0303	L-.01408
SDev	.00355	.00183	.00399	.00003	.0004	.0002	.00128
%RSD	33.929	29.987	1.1622	.39249	3.462	.7282	9.0569
#1	.01299	.00480	.34638	.00810	.0114	.0305	L-.01498
#2	.00796	.00738	.34073	.00814	.0109	.0302	L-.01318

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0555	.2800
SDev	.0001	.0003
%RSD	.1774	.1147
#1	.0556	.2798
#2	.0555	.2803

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13910	--	--	--	--	--	--
SDev	55.76960	--	--	--	--	--	--
%RSD	.4009241	--	--	--	--	--	--
#1	13871	--	--	--	--	--	--
#2	13950	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-014 5X1 Operator: CO
Run Time: 01/27/07 19:09:04
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	27.61	.01800	.0150	.1795	.0019	6.386
SDev	.0003	.03	.00088	.0006	.0004	.0001	.015
%RSD	64.97	.0947	4.8980	4.336	.1986	3.013	.2292
#1	-.0007	27.63	.01863	.0146	.1792	.0019	6.375
#2	-.0003	27.59	.01738	.0155	.1797	.0020	6.396

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	.0238	.0491	.0858	61.51	2.983	3.172
SDev	.0001	.0005	.0007	.0002	.00	.001	.008
%RSD	14.20	1.990	1.404	.2091	.0037	.0201	.2522
#1	-.0006	.0234	.0496	.0859	61.52	2.983	3.178
#2	-.0007	.0241	.0486	.0857	61.51	2.982	3.166

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.347	-.0016	-.6471	.0442	.07948	.28420	.0072
SDev	.000	.0001	.0465	.0002	.00367	.00088	.0012
%RSD	.0359	9.275	7.189	.4446	4.6192	.30952	16.59
#1	1.347	-.0017	-.6800	.0443	.08207	.28482	.0080
#2	1.346	-.0015	-.6142	.0440	.07688	.28358	.0063

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00647	.00587	.21674	.00664	.0123	.0324	-.00517
SDev	.00124	.00259	.00181	.00214	.0010	.0001	.00335
%RSD	19.214	44.163	.83600	32.244	8.134	.4511	64.719
#1	.00559	.00404	.21802	.00513	.0130	.0323	-.00754
#2	.00735	.00771	.21546	.00816	.0115	.0325	-.00281

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0746	.1533
SDev	.0004	.0003
%RSD	.5027	.1692
#1	.0748	.1532
#2	.0743	.1535

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14031	--	--	--	--	--	--
SDev	52.75334	--	--	--	--	--	--
%RSD	.3759717	--	--	--	--	--	--
#1	13994	--	--	--	--	--	--
#2	14069	--	--	--	--	--	--

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Method: SUBLIST Sample Name: CCV Operator: CO
Run Time: 01/27/07 19:16:15
Comment: CCV3/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.014	51.11	1.0254	1.036	1.034	1.023	51.17
SDev	.002	.02	.0020	.003	.000	.001	.07
%RSD	.2004	.0364	.19290	.2416	.0307	.1130	.1327
#1	1.013	51.09	1.0268	1.038	1.034	1.024	51.22
#2	1.016	51.12	1.0240	1.034	1.035	1.022	51.12

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9901	.9925	.9888	1.048	49.47	35.04	50.23
SDev	.0016	.0007	.0008	.001	.06	.01	.02
%RSD	.1613	.0727	.0810	.0691	.1190	.0184	.0420
#1	.9913	.9920	.9894	1.048	49.52	35.04	50.24
#2	.9890	.9930	.9882	1.047	49.43	35.05	50.21

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.002	1.026	48.44	.9891	.92258	1.0600	1.025
SDev	.000	.018	.13	.0051	.00625	.0016	.002
%RSD	.0420	1.729	.2720	.5186	.67719	.14718	.1472
#1	1.002	1.013	48.34	.9855	.92700	1.0589	1.024
#2	1.002	1.038	48.53	.9927	.91816	1.0611	1.027

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0340	1.0373	1.0150	1.0368	1.036	1.061	1.0232
SDev	.0001	.0079	.0010	.0053	.001	.000	.0008
%RSD	.00992	.76481	.10246	.51367	.0556	.0152	.07946
#1	1.0339	1.0317	1.0157	1.0330	1.036	1.061	1.0226
#2	1.0341	1.0429	1.0142	1.0406	1.035	1.061	1.0238

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.9960	.9801
SDev	.0005	.0010
%RSD	.0519	.1074
#1	.9963	.9809
#2	.9956	.9794

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13642	--	--	--	--	--	--
SDev	.3300752	--	--	--	--	--	--
%RSD	.0024196	--	--	--	--	--	--
#1	13641	--	--	--	--	--	--
#2	13642	--	--	--	--	--	--

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Method: SUBLIST Sample Name: CCB Operator: CO
Run Time: 01/27/07 19:23:26
Comment: CCB3/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0228	.00261	.0005	.0001	.0000	-.0101
SDev	.0000	.0042	.00121	.0003	.0001	.0000	.0047
%RSD	146.5	18.62	46.340	56.14	115.3	167.7	46.36
#1	.0001	.0198	.00346	.0003	.0000	-.0000	-.0134
#2	-.0000	.0258	.00175	.0007	.0002	.0000	-.0068

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	-.0002	-.0002	-.0004	.0005	.0041	.0065
SDev	.0001	.0007	.0002	.0003	.0115	.0034	.0037
%RSD	289.5	323.8	94.03	72.69	2536.	82.73	56.34
#1	-.0001	-.0007	-.0003	-.0005	-.0077	.0017	.0039
#2	.0000	.0003	-.0001	-.0002	.0086	.0065	.0091

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0004	.0677	-.0002	-.00074	.00189	.0021
SDev	.0001	.0027	.0357	.0008	.00201	.00117	.0003
%RSD	196.8	665.8	52.68	429.5	273.70	62.231	12.75
#1	-.0000	-.0015	.0425	-.0008	-.00216	.00106	.0023
#2	.0002	.0023	.0930	.0004	.00069	.00271	.0019

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00061	-.00025	.00172	.00020	.0010	.0001	.00244
SDev	.00037	.00173	.00145	.00128	.0025	.0001	.00138
%RSD	59.825	705.79	84.493	644.16	245.0	98.52	56.397
#1	-.00087	-.00147	.00069	-.00071	.0028	.0000	.00342
#2	-.00035	.00098	.00275	.00110	-.0008	.0001	.00147

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0003	-.0006
SDev	.0003	.0003
%RSD	99.10	39.78
#1	.0001	-.0005
#2	.0005	-.0008

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14104	--	--	--	--	--	--
SDev	37.52569	--	--	--	--	--	--
%RSD	.2660622	--	--	--	--	--	--
#1	14131	--	--	--	--	--	--
#2	14078	--	--	--	--	--	--

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Method: SUBLIST Sample Name: C2001-015 5X1 Operator: CO
Run Time: 01/27/07 19:29:29
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	33.02	.02501	.0137	.1882	.0020	3.495
SDev	.0003	.06	.00167	.0001	.0001	.0001	.015
%RSD	40.57	.1869	6.6587	1.042	.0776	2.355	.4377
#1	-.0009	32.98	.02383	.0136	.1881	.0020	3.484
#2	-.0005	33.06	.02619	.0138	.1883	.0021	3.505

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0050	.0237	.0585	.0345	60.49	2.847	3.539
SDev	.0001	.0001	.0001	.0002	.05	.010	.002
%RSD	2.789	.4737	.0869	.6196	.0816	.3662	.0583
#1	.0051	.0237	.0586	.0344	60.46	2.840	3.540
#2	.0049	.0238	.0585	.0347	60.53	2.855	3.537

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9906	-.0017	-.5625	.0412	.04544	.23454	.0060
SDev	.0003	.0012	.0919	.0018	.00066	.01133	.0013
%RSD	.0352	66.86	16.34	4.281	1.4549	4.8326	22.49
#1	.9903	-.0025	-.6275	.0399	.04497	.22653	.0050
#2	.9908	-.0009	-.4975	.0424	.04591	.24256	.0069

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01074	.00666	.17229	.00859	.0101	.0305	-.00117
SDev	.00214	.00235	.00778	.00085	.0004	.0002	.00363
%RSD	19.946	35.263	4.5141	9.8976	4.182	.6346	309.76
#1	.01226	.00500	.16679	.00799	.0098	.0307	-.00373
#2	.00923	.00832	.17778	.00919	.0104	.0304	.00139

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0906	.1084
SDev	.0004	.0001
%RSD	.4458	.1032
#1	.0903	.1085
#2	.0909	.1083

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13992	--	--	--	--	--	--
SDev	58.92879	--	--	--	--	--	--
%RSD	.4211736	--	--	--	--	--	--
#1	13950	--	--	--	--	--	--
#2	14033	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-016 5X1 Operator: CO
Run Time: 01/27/07 19:34:22
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	37.36	.04190	.0191	.6698	.0027	6.005
SDev	.0002	.14	.00415	.0006	.0000	.0001	.009
%RSD	24.78	.3636	9.8955	3.234	.0006	4.620	.1485
#1	-.0007	37.46	.03897	.0195	.6698	.0028	5.999
#2	-.0005	37.27	.04483	.0186	.6698	.0026	6.011

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0032	.0270	.0712	.0441	74.21	4.175	4.442
SDev	.0004	.0006	.0001	.0001	.20	.026	.001
%RSD	11.44	2.227	.1465	.2982	.2675	.6148	.0285
#1	-.0029	.0266	.0713	.0440	74.07	4.193	4.441
#2	-.0035	.0275	.0711	.0442	74.35	4.157	4.443

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.025	-.0009	-.8039	.0582	-.09077	.15497	.0041
SDev	.002	.0014	.0238	.0021	.00393	.00223	.0003
%RSD	.1703	157.9	2.966	3.661	4.3302	1.4411	5.950
#1	1.024	-.0019	-.8207	.0567	-.08799	.15655	.0039
#2	1.026	.0001	-.7870	.0597	-.09355	.15339	.0043

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00630	.00747	.07391	.00764	.0142	.0455	-.00310
SDev	.00089	.00118	.00280	.00108	.0030	.0001	.00067
%RSD	14.070	15.781	3.7860	14.160	21.10	.2847	21.570
#1	.00567	.00664	.07589	.00688	.0163	.0455	-.00263
#2	.00692	.00831	.07193	.00841	.0121	.0456	-.00358

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0889	.1422
SDev	.0001	.0002
%RSD	.0563	.1537
#1	.0889	.1420
#2	.0889	.1423

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14312	--	--	--	--	--	--
SDev	6.552477	--	--	--	--	--	--
%RSD	.0457818	--	--	--	--	--	--
#1	14317	--	--	--	--	--	--
#2	14308	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-017 5X1 Operator: CO
Run Time: 01/27/07 19:39:15
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	28.20	.04087	.0085	.2061	.0022	2.588
SDev	.0002	.04	.00090	.0002	.0001	.0000	.017
%RSD	26.04	.1420	2.1918	2.177	.0399	1.448	.6418
#1	-.0009	28.23	.04023	.0083	.2060	.0022	2.576
#2	-.0007	28.17	.04150	.0086	.2062	.0022	2.600

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.0061	.0286	.0608	.1502	109.3	2.215	3.063
SDev	.0003	.0004	.0004	.0006	.1	.020	.000
%RSD	5.715	1.449	.7195	.4220	.0531	.8840	.0036
#1	L-.0063	.0283	.0611	.1507	109.3	2.229	3.063
#2	L-.0059	.0289	.0604	.1498	109.4	2.202	3.063

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.174	-.0011	-1.379	.0486	.42869	.82671	.0104
SDev	.003	.0001	.104	.0002	.00124	.00459	.0003
%RSD	.2153	13.74	7.554	.3342	.28972	.55471	2.961
#1	1.172	-.0010	-1.306	.0484	.42781	.82347	.0106
#2	1.176	-.0012	-1.453	.0487	.42957	.82995	.0102

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01387	.01362	.69507	.01430	.0118	.0295	-.00627
SDev	.00079	.00133	.00347	.00115	.0026	.0001	.00103
%RSD	5.7134	9.7837	.49939	8.0536	21.68	.1827	16.500
#1	.01331	.01268	.69262	.01349	.0100	.0295	-.00700
#2	.01443	.01456	.69752	.01512	.0136	.0295	-.00554

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0921	.2015
SDev	.0006	.0005
%RSD	.6583	.2406
#1	.0917	.2011
#2	.0926	.2018

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13342	--	--	--	--	--	--
SDev	18.43311	--	--	--	--	--	--
%RSD	.1381541	--	--	--	--	--	--
#1	13329	--	--	--	--	--	--
#2	13355	--	--	--	--	--	--

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Method: SUBLIST Sample Name: C2001-018 5X1 Operator: CO
Run Time: 01/27/07 19:44:08
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	34.89	.01747	.0203	1.353	.0015	5.012
SDev	.0001	.02	.00204	.0009	.000	.0001	.007
%RSD	17.04	.0697	11.695	4.502	.0050	6.596	.1388
#1	-.0009	34.91	.01891	.0209	1.353	.0014	5.007
#2	-.0007	34.87	.01602	.0196	1.352	.0016	5.017

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	.0227	.0499	.0763	46.16	3.258	3.878
SDev	.0001	.0002	.0006	.0003	.00	.019	.017
%RSD	9.163	.9516	1.272	.3780	.0071	.5841	.4392
#1	-.0006	.0228	.0504	.0761	46.16	3.271	3.890
#2	-.0007	.0225	.0495	.0765	46.15	3.244	3.866

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.334	-.0012	-.3606	.0393	.13188	.26367	.0052
SDev	.002	.0000	.1066	.0007	.00025	.00152	.0022
%RSD	.1762	.2111	29.56	1.806	.18716	.57441	42.39
#1	1.336	-.0012	-.2852	.0398	.13205	.26474	.0067
#2	1.332	-.0012	-.4360	.0388	.13170	.26260	.0036

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00718	.00777	.22052	.00817	.0105	.0490	L-.01054
SDev	.00016	.00283	.00109	.00194	.0014	.0001	.00503
%RSD	2.2064	36.381	.49593	23.759	13.40	.2384	47.789
#1	.00729	.00977	.22129	.00954	.0095	.0491	L-.01409
#2	.00707	.00577	.21975	.00679	.0115	.0489	-.00698

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0813	.1291
SDev	.0002	.0000
%RSD	.2821	.0319
#1	.0815	.1291
#2	.0812	.1292

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13559	--	--	--	--	--	--
SDev	22.72271	--	--	--	--	--	--
%RSD	.1675797	--	--	--	--	--	--
#1	13543	--	--	--	--	--	--
#2	13575	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2001-019 5X1 Operator: CO
Run Time: 01/27/07 19:49:01
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	40.56	.01656	.0229	2.316	.0015	4.650
SDev	.0000	.02	.00435	.0002	.003	.0000	.014
%RSD	5.557	.0459	26.293	.8279	.1431	1.143	.2970
#1	-.0007	40.55	.01964	.0228	2.314	.0015	4.640
#2	-.0008	40.58	.01348	.0231	2.318	.0015	4.660

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0012	.0202	.0518	.0566	44.22	3.451	4.559
SDev	.0001	.0001	.0001	.0001	.07	.010	.012
%RSD	6.597	.4852	.2024	.2306	.1694	.2778	.2525
#1	-.0012	.0202	.0517	.0567	44.27	3.457	4.550
#2	-.0011	.0203	.0518	.0565	44.16	3.444	4.567

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.367	-.0016	-.3770	.0415	.69241	.80827	.0048
SDev	.002	.0009	.0247	.0014	.00232	.00061	.0000
%RSD	.1144	55.77	6.544	3.491	.33480	.07497	.9075
#1	1.368	-.0009	-.3944	.0426	.69077	.80784	.0049
#2	1.366	-.0022	-.3595	.0405	.69405	.80870	.0048

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00339	.00506	.77042	.00509	.0099	.0552	-.00974
SDev	.00290	.00541	.00117	.00264	.0018	.0000	.00017
%RSD	85.685	106.81	.15227	51.915	17.90	.0411	1.7514
#1	.00133	.00889	.76959	.00696	.0111	.0552	-.00986
#2	.00544	.00124	.77125	.00322	.0086	.0552	-.00962

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0844	.1519
SDev	.0001	.0003
%RSD	.0900	.2014
#1	.0845	.1521
#2	.0844	.1517

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13630	--	--	--	--	--	--
SDev	55.62873	--	--	--	--	--	--
%RSD	.4081480	--	--	--	--	--	--
#1	13590	--	--	--	--	--	--
#2	13669	--	--	--	--	--	--

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Method: SUBLIST Sample Name: C2001-020 5X1 Operator: CO
Run Time: 01/27/07 19:53:54
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	29.41	.02150	.0114	.6165	.0015	4.968
SDev	.0003	.08	.00166	.0001	.0013	.0000	.003
%RSD	33.06	.2694	7.7150	.6293	.2078	2.720	.0690
#1	-.0007	29.47	.02268	.0113	.6174	.0015	4.966
#2	-.0011	29.36	.02033	.0114	.6156	.0015	4.971

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	.0239	.0560	.0322	64.66	2.260	3.112
SDev	.0001	.0003	.0003	.0005	.07	.009	.001
%RSD	7.473	1.269	.5796	1.419	.1071	.3903	.0261
#1	.0020	.0241	.0558	.0325	64.61	2.266	3.111
#2	.0018	.0236	.0563	.0318	64.71	2.254	3.113

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.299	-.0009	-.6499	.0436	-.10063	.11216	.0049
SDev	.002	.0000	.0224	.0015	.00113	.00181	.0018
%RSD	.1552	.4557	3.451	3.356	1.1237	1.6162	36.70
#1	1.298	-.0009	-.6340	.0446	-.09983	.11088	.0037
#2	1.301	-.0009	-.6657	.0426	-.10143	.11344	.0062

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00497	.00851	.04203	.00792	.0104	.0277	-.00958
SDev	.00146	.00638	.00083	.00474	.0033	.0000	.00126
%RSD	29.403	74.969	1.9746	59.907	31.75	.0430	13.184
#1	.00600	.01302	.04145	.01127	.0081	.0277	L-.01047
#2	.00394	.00400	.04262	.00456	.0128	.0277	-.00868

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0753	.1405
SDev	.0001	.0006
%RSD	.1763	.4548
#1	.0754	.1400
#2	.0752	.1409

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13626	--	--	--	--	--	--
SDev	47.09580	--	--	--	--	--	--
%RSD	.3456357	--	--	--	--	--	--
#1	13593	--	--	--	--	--	--
#2	13659	--	--	--	--	--	--

Analysis Report QC Standard 01/27/07 08:05:55 PM page 1

Method: SUBLIST Sample Name: CCV Operator: CO
Run Time: 01/27/07 20:01:05
Comment: CCV4/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.032	51.34	1.0186	1.038	1.037	1.030	51.27
SDev	.002	.01	.0026	.004	.000	.001	.01
%RSD	.2064	.0140	.25980	.4055	.0326	.0967	.0212
#1	1.033	51.33	1.0167	1.041	1.037	1.030	51.28
#2	1.030	51.34	1.0204	1.035	1.038	1.029	51.27

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9748	.9826	.9839	1.042	49.82	34.78	49.85
SDev	.0012	.0007	.0014	.001	.09	.05	.00
%RSD	.1241	.0751	.1408	.0525	.1726	.1566	.0034
#1	.9740	.9821	.9849	1.043	49.88	34.74	49.85
#2	.9757	.9831	.9829	1.042	49.76	34.82	49.85

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9934	1.002	47.66	.9704	.91613	1.0519	1.021
SDev	.0001	.010	.01	.0005	.00101	.0018	.011
%RSD	.0141	.9926	.0261	.0525	.10973	.16886	1.121
#1	.9933	.9947	47.66	.9700	.91684	1.0532	1.013
#2	.9935	1.009	47.67	.9707	.91542	1.0507	1.029

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0287	1.0172	1.0074	1.0216	1.030	1.051	1.0147
SDev	.0014	.0008	.0015	.0001	.005	.000	.0092
%RSD	.13417	.08025	.15091	.00825	.4642	.0108	.90564
#1	1.0297	1.0166	1.0085	1.0215	1.034	1.051	1.0082
#2	1.0277	1.0178	1.0064	1.0217	1.027	1.051	1.0212

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.9923	.9817
SDev	.0004	.0008
%RSD	.0358	.0777
#1	.9921	.9811
#2	.9926	.9822

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13652	--	--	--	--	--	--
SDev	14.42525	--	--	--	--	--	--
%RSD	.1056608	--	--	--	--	--	--
#1	13642	--	--	--	--	--	--
#2	13663	--	--	--	--	--	--

Analysis Report QC Standard 01/27/07 08:13:07 PM page 1

Method: SUBLIST Sample Name: CCB Operator: CO
Run Time: 01/27/07 20:08:16
Comment: CCB4/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0086	-.00290	.0002	.0001	-.0000	.0020
SDev	.0003	.0002	.00153	.0006	.0001	.0000	.0008
%RSD	488.3	2.618	52.700	311.3	38.53	104.5	39.51
#1	.0002	.0088	-.00182	-.0002	.0002	-.0001	.0026
#2	-.0003	.0085	-.00398	.0006	.0001	-.0000	.0015

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	-.0004	-.0002	.0000	-.0037	.0055	.0072
SDev	.0001	.0001	.0002	.0001	.0088	.0001	.0016
%RSD	98.33	29.93	77.01	148.5	240.7	.9798	21.74
#1	.0002	-.0003	-.0001	.0001	.0026	.0055	.0083
#2	.0000	-.0005	-.0003	-.0000	-.0099	.0055	.0061

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0011	.0725	-.0010	-.00020	.00338	.0029
SDev	.0000	.0006	.0351	.0008	.00314	.00021	.0002
%RSD	32.14	51.53	48.48	78.53	1543.1	6.2849	5.920
#1	.0001	.0015	.0476	-.0004	.00202	.00323	.0030
#2	.0001	.0007	.0973	-.0015	-.00243	.00353	.0027

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00015	-.00385	.00290	-.00205	.0026	.0001	-.00117
SDev	.00048	.00155	.00091	.00087	.0007	.0000	.00163
%RSD	332.72	40.260	31.261	42.654	28.29	20.36	138.80
#1	-.00049	-.00275	.00354	-.00143	.0031	.0001	-.00233
#2	.00020	-.00495	.00226	-.00267	.0021	.0001	-.00002

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0002	-.0005
SDev	.0000	.0002
%RSD	23.50	45.10
#1	.0002	-.0003
#2	.0002	-.0007

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14084	--	--	--	--	--	--
SDev	19.98820	--	--	--	--	--	--
%RSD	.1419223	--	--	--	--	--	--
#1	14070	--	--	--	--	--	--
#2	14098	--	--	--	--	--	--

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: Yttrium, 10000 ug/mL

Log Entry: ME-15-145-2
Received/Prepared Date: 09/08/2006
Expiration Date: 03/01/2008
Location:
Manufacturer's Exp. Date: 03/01/2008
Vendor: CPI
Catalog Number:
Lot Number: 06H010
Solvent:
Certificate Number: 4400-10M671
Notes:

2. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Yttrium	7440-65-5	10000 ug/mL	-

FORM LTL-SS-3.0

MET - 138

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: TRACE PROFILE SOLUTION (5 ppm As)

Log Entry: ME-15-153-6 **Received/Prepared Date:** 01/18/2007 **Expiration Date:** 03/01/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
TRACE PROFILE SOLUTION (5 ppm As) ME-15-153-6 (ORIGINAL)				
Arsenic 1000 ul	**ME-15-150-7**	11/16/2006	12/01/2007	12/01/2007
Yttrium, 10000 ug/mL 100 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.

FORM LTL-SS-3.0

MET - 139

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: ICB/CCB Trace

Log Entry: ME-15-154-20 **Received/Prepared Date:** 01/26/2007 **Expiration Date:** 01/27/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 500 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
ICB/CCB Trace ME-15-154-20 (ORIGINAL)				
Yttrium, 10000 ug/mL 0.25 mL	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Yttrium	7440-65-5	-	5.00 mg/L

FORM LTL-SS-3.0

MET - 140

Laucks Testing Laboratories, Inc. 1908

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: Cal Std. S Trace

Log Entry: ME-15-154-15 **Received/Prepared Date:** 01/25/2007 **Expiration Date:** 06/12/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 100 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
Cal Std. S Trace ME-15-154-15 (ORIGINAL)				
QC Standard 21 5 mL	**ME-15-122-8**	12/16/2005	06/12/2007	06/12/2007
Quality Control Standard 7 1 mL	**ME-15-138-12**	06/21/2006	12/15/2007	12/15/2007
Sodium 100 ul	**ME-15-129-6**	02/22/2006	08/17/2007	08/17/2007
Tin, 1000 ppm 100 ul	**ME-15-151-3**	12/01/2006	05/16/2008	05/16/2008
Yttrium, 10000 ug/mL 50 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.

FORM LTL-SS-3.0

MET - 141

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: Cal Std S1 Trace

Log Entry: ME-15-151-7 Received/Prepared Date: 12/05/2006 Expiration Date: 03/07/2007

Location: Manufacturer's Exp. Date:

Prepared By: Wen-chun Kao Final Volume: 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
Cal Std S1 Trace ME-15-151-7 (ORIGINAL)				
Aluminum 1 mL	ME-15-134-13	09/15/2006	10/05/2007	10/05/2007
Calcium 1 mL	ME-15-129-7	02/22/2006	08/17/2007	08/17/2007
Iron (10,000 mg/L) 0.4 mL	ME-15-138-11	06/21/2006	12/15/2007	12/15/2007
Magnesium (10000 ppm) 1 mL	ME-15-150-6	11/16/2006	12/01/2007	12/01/2007
Potassium (10,000 ug/mL) 2 mL	ME-15-116-6	10/14/2005	03/07/2007	03/07/2007
Sodium 2 mL	ME-15-129-6	02/22/2006	08/17/2007	08/17/2007
Yttrium, 10000 ug/mL 100 ul	ME-15-145-2	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	50.0 mg/L
Calcium	7440-70-2	-	50.0 mg/L
Iron	7439-89-6	-	20.0 mg/L
Magnesium	7439-95-4	-	50.0 mg/L
Potassium	7440-09-7	-	100 mg/L
Sodium	7440-23-5	-	100 mg/L
Yttrium	7440-65-5	-	5.00 mg/L

FORM LTL-SS-3.0

MET - 142

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: Cal Std S2 Trace

Log Entry: ME-15-154-19 **Received/Prepared Date:** 01/27/2007 **Expiration Date:** 08/17/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Eric Frank **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
Cal Std S2 Trace ME-15-154-19 (ORIGINAL)				
Aluminum 5 mL	ME-15-134-13	09/15/2006	10/05/2007	10/05/2007
Calcium 5 mL	ME-15-129-7	02/22/2006	08/17/2007	08/17/2007
Iron (10,000 mg/L) 2 mL	ME-15-138-11	06/21/2006	12/15/2007	12/15/2007
Magnesium (10000 ppm) 5 mL	ME-15-150-6	11/16/2006	12/01/2007	12/01/2007
Potassium 10,000 1 mL	ME-15-153-12	01/18/2007	07/16/2008	07/16/2008
Sodium 1 mL	ME-15-129-6	02/22/2006	08/17/2007	08/17/2007

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	250 mg/L
Calcium	7440-70-2	-	250 mg/L
Iron	7439-89-6	-	100 mg/L
Magnesium	7439-95-4	-	250 mg/L
Potassium	7440-09-7	-	50.0 mg/L
Sodium	7440-23-5	-	50.0 mg/L

FORM LTL-SS-3.0

MET - 143

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: Cal Std S3 Trace

Log Entry: ME-15-154-18 **Received/Prepared Date:** 01/26/2007 **Expiration Date:** 03/07/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
Cal Std S3 Trace ME-15-154-18 (ORIGINAL)				
Aluminum 3 mL	**ME-15-134-13**	09/15/2006	10/05/2007	10/05/2007
Calcium 3 mL	**ME-15-129-7**	02/22/2006	08/17/2007	08/17/2007
Iron (10,000 mg/L) 1.2 mL	**ME-15-138-11**	06/21/2006	12/15/2007	12/15/2007
Magnesium (10000 ppm) 3 mL	**ME-15-150-6**	11/16/2006	12/01/2007	12/01/2007
Potassium 10,000 100 ul	**ME-15-153-12**	01/18/2007	07/16/2008	07/16/2008
Sodium 500 ul	**ME-15-129-6**	02/22/2006	08/17/2007	08/17/2007
Yttrium, 10000 ug/mL 100 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	150 mg/L
Calcium	7440-70-2	-	150 mg/L
Iron	7439-89-6	-	60.0 mg/L
Magnesium	7439-95-4	-	150 mg/L
Potassium	7440-09-7	-	5.00 mg/L
Sodium	7440-23-5	-	25.0 mg/L
Yttrium	7440-65-5	-	5.00 mg/L

FORM LTL-SS-3.0

MET - 144

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: Cal Std S4 Trace

Log Entry: ME-15-154-17 **Received/Prepared Date:** 01/26/2007 **Expiration Date:** 03/07/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 100 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
Cal Std S4 Trace ME-15-154-17 (ORIGINAL)				
Potassium 10,000 100 ul	**ME-15-153-12**	01/18/2007	07/16/2008	07/16/2008
Sodium 100 ul	**ME-15-129-6**	02/22/2006	08/17/2007	08/17/2007
Yttrium, 10000 ug/mL 50 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Potassium	7440-09-7	-	10.0 mg/L
Sodium	7440-23-5	-	10.0 mg/L
Yttrium	7440-65-5	-	5.00 mg/L

FORM LTL-SS-3.0

MET - 145

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: ICV TRACE

Log Entry: ME-15-153-17 **Received/Prepared Date:** 01/19/2007 **Expiration Date:** 02/22/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
ICV TRACE ME-15-153-17 (ORIGINAL)				
Antimony 200 ul	**ME-15-148-8**	10/20/2006	04/18/2008	04/18/2008
Arsenic 200 ul	**ME-15-150-7**	11/16/2006	12/01/2007	12/01/2007
Barium 200 ul	**ME-15-145-1**	09/08/2006	03/01/2008	03/01/2008
Beryllium 200 ul	**ME-15-153-7**	01/18/2007	07/16/2008	07/16/2008
Boron 200 ul	**ME-15-153-8**	01/18/2007	07/16/2008	07/16/2008
Cadmium 200 ul	**ME-15-144-15**	09/08/2006	03/01/2008	03/01/2008
Chromium 200 ul	**ME-15-153-10**	01/18/2007	07/16/2008	07/16/2008
CLPP-ICS-A 2000 ul	**ME-15-150-2**	11/14/2006	12/01/2007	12/01/2007
Cobalt 200 ul	**ME-15-129-10**	02/22/2006	08/17/2007	08/17/2007
Copper 200 ul	**ME-15-144-13**	09/08/2006	03/01/2008	03/01/2008
Lead 200 ul	**ME-15-129-9**	02/22/2006	08/17/2007	08/17/2007
Manganese 200 ul	**ME-15-153-9**	01/18/2007	07/16/2008	07/16/2008
Molybdenum (1000 ppm) 200 ul	**ME-15-76-3**	10/04/2004	09/30/2007	09/30/2007
Nickel 200 ul	**ME-15-144-14**	09/08/2006	03/01/2008	03/01/2008
Potassium, 1000ppm 5000 ul	**ME-15-139-19**	06/29/2006	12/26/2007	12/26/2007
Selenium 200 ul	**ME-15-125-19**	01/17/2006	07/11/2007	07/11/2007
Silver 25 ul	**ME-15-135-19**	05/08/2006	11/04/2007	11/04/2007
Sodium 10 mL	**ME-15-134-12**	04/12/2006	10/05/2007	10/05/2007
Strontium 200 ul	**ME-15-129-11**	02/22/2006	08/17/2007	08/17/2007
Thallium (1000 mg/L) 200 ul	**ME-15-138-8**	06/23/2006	12/15/2007	12/15/2007
Tin 200 ul	**ME-15-113-2**	08/30/2005	02/22/2007	02/22/2007
Vanadium (1000 mg/L) 200 ul	**ME-15-138-9**	06/21/2006	12/15/2007	12/15/2007
Yttrium, 10000 ug/mL 100 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008
Zinc (1000 mg/L) 200 ul	**ME-15-138-10**	06/21/2006	12/15/2007	12/15/2007

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	50.0 mg/L
Antimony	7440-36-0	-	1.00 mg/L
Arsenic	7440-38-2	-	1.00 mg/L

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Barium	7440-39-3	-	1.00 mg/L
Beryllium	7440-41-7	-	1.00 mg/L
Boron	7440-42-8	-	1.00 mg/L
Cadmium	7440-43-9	-	1.00 mg/L
Calcium	7440-70-2	-	50.0 mg/L
Chromium	7440-47-3	-	1.00 mg/L
Cobalt	7440-48-4	-	1.00 mg/L
Copper	7440-50-8	-	1.00 mg/L
Iron	7439-89-6	-	20.0 mg/L
Lead	7439-92-1	-	1.00 mg/L
Magnesium	7439-95-4	-	50.0 mg/L
Manganese	7439-96-5	-	1.00 mg/L
Molybdenum	7439-98-7	-	1.00 mg/L
Nickel	7440-02-0	-	1.00 mg/L
Potassium	7440-09-7	-	25.0 mg/L
Selenium	7782-49-2	-	1.00 mg/L
Silver	7440-22-4	-	0.125 mg/L
Sodium	7440-23-5	-	50.0 mg/L
Strontium	7440-24-6	-	1.00 mg/L
Thallium	7440-28-0	-	1.00 mg/L
Tin	7440-31-5	-	1.00 mg/L
Vanadium	7440-62-2	-	1.00 mg/L
Yttrium	7440-65-5	-	5.00 mg/L
Zinc	7440-66-6	-	1.00 mg/L

FORM LTL-SS-3.0

MET - 147

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: CRDL TRACE

Log Entry: ME-15-154-13 **Received/Prepared Date:** 01/24/2007 **Expiration Date:** 07/11/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
CRDL TRACE ME-15-154-13 (ORIGINAL)				
Barium CRDL SD Stock 400 ul	**ME-15-148-16**	10/26/2006	03/01/2008	
Barium 100 ul	**ME-15-145-1**	09/08/2006	03/01/2008	03/01/2008
Boron 20 ul	**ME-15-153-8**	01/18/2007	07/16/2008	07/16/2008
CRDL Stock Std 100 ul	**ME-15-138-13**	06/21/2006	12/15/2007	12/15/2007
Lead CRDL SD Stock 100 ul	**ME-15-139-6**	06/26/2006	08/17/2007	
Lead 100 ul	**ME-15-129-9**	02/22/2006	08/17/2007	08/17/2007
Molybdenum CRDL SD Stock 200 ul	**ME-15-124-5**	12/29/2005	09/30/2007	
Molybdenum (1000 ppm) 100 ul	**ME-15-76-3**	10/04/2004	09/30/2007	09/30/2007
Selenium CRDL SD Stock 100 ul	**ME-15-139-7**	06/26/2006	07/11/2007	
Selenium 100 ul	**ME-15-125-19**	01/17/2006	07/11/2007	07/11/2007
Yttrium, 10000 ug/mL 100 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.

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MET - 148

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: ICSA TRACE

Log Entry: ME-15-152-18 **Received/Prepared Date:** 01/08/2007 **Expiration Date:** 12/01/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
ICSA TRACE ME-15-152-18 (ORIGINAL)				
CLPP-ICS-A 20 mL	ME-15-150-2	11/14/2006	12/01/2007	12/01/2007
Yttrium, 10000 ug/mL 100 ul	ME-15-145-2	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	0.500 mg/L
Calcium	7440-70-2	-	0.500 mg/L
Iron	7439-89-6	-	0.200 mg/L
Magnesium	7439-95-4	-	0.500 mg/L
Yttrium	7440-65-5	-	5.00 mg/L

FORM LTL-SS-3.0

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Laucks 1908
Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: ICSAB TRACE

Log Entry: ME-15-154-6 **Received/Prepared Date:** 01/19/2007 **Expiration Date:** 03/27/2007
Location: **Manufacturer's Exp. Date:**
Prepared By: Wen-chun Kao **Final Volume:** 200 mL
Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)
Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
ICSAB TRACE ME-15-154-6 (ORIGINAL)				
CLPP-ICS-A 20 mL	**ME-15-150-2**	11/14/2006	12/01/2007	12/01/2007
CLPP-ICS-B4 2 mL	**ME-15-154-8**	01/19/2007	03/27/2007	
Antimony 3000 ul	**ME-15-148-8**	10/20/2006	04/18/2008	04/18/2008
Arsenic 500 ul	**ME-15-150-7**	11/16/2006	12/01/2007	12/01/2007
Barium 2500 ul	**ME-15-145-1**	09/08/2006	03/01/2008	03/01/2008
Beryllium 2500 ul	**ME-15-153-7**	01/18/2007	07/16/2008	07/16/2008
Cadmium 5000 ul	**ME-15-144-15**	09/08/2006	03/01/2008	03/01/2008
Chromium 2500 ul	**ME-15-153-10**	01/18/2007	07/16/2008	07/16/2008
Cobalt 2500 ul	**ME-15-129-10**	02/22/2006	08/17/2007	08/17/2007
Copper 2500 ul	**ME-15-144-13**	09/08/2006	03/01/2008	03/01/2008
Lead 250 ul	**ME-15-129-9**	02/22/2006	08/17/2007	08/17/2007
Manganese 2500 ul	**ME-15-153-9**	01/18/2007	07/16/2008	07/16/2008
Molybdenum (1000 ppm) 1000 ul	**ME-15-76-3**	10/04/2004	09/30/2007	09/30/2007
Nickel 5000 ul	**ME-15-144-14**	09/08/2006	03/01/2008	03/01/2008
Selenium 250 ul	**ME-15-125-19**	01/17/2006	07/11/2007	07/11/2007
Silver 1000 ul	**ME-15-135-19**	05/08/2006	11/04/2007	11/04/2007
Thallium (1000 mg/L) 500 ul	**ME-15-138-8**	06/23/2006	12/15/2007	12/15/2007
Vanadium (1000 mg/L) 2500 ul	**ME-15-138-9**	06/21/2006	12/15/2007	12/15/2007
Zinc (1000 mg/L) 5000 ul	**ME-15-138-10**	06/21/2006	12/15/2007	12/15/2007
Yttrium, 10000 ug/mL 100 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	500 mg/L
Antimony	7440-36-0	-	0.600 mg/L
Arsenic	7440-38-2	-	0.100 mg/L
Barium	7440-39-3	-	0.500 mg/L
Beryllium	7440-41-7	-	0.500 mg/L
Cadmium	7440-43-9	-	1.00 mg/L
Calcium	7440-70-2	-	500 mg/L
Chromium	7440-47-3	-	0.500 mg/L
Cobalt	7440-48-4	-	0.500 mg/L
Copper	7440-50-8	-	0.500 mg/L

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Iron	7439-89-6	-	200 mg/L
Lead	7439-92-1	-	0.0500 mg/L
Magnesium	7439-95-4	-	500 mg/L
Manganese	7439-96-5	-	0.500 mg/L
Molybdenum	7439-98-7	-	0.200 mg/L
Nickel	7440-02-0	-	1.00 mg/L
Selenium	7782-49-2	-	0.0500 mg/L
Silver	7440-22-4	-	0.200 mg/L
Thallium	7440-28-0	-	0.100 mg/L
Vanadium	7440-62-2	-	0.500 mg/L
Yttrium	7440-65-5	-	5.00 mg/L
Zinc	7440-66-6	-	1.00 mg/L

FORM LTL-SS-3.0

MET - 151

Laucks 1908
Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: CCV TRACE

Log Entry: ME-15-153-3 **Received/Prepared Date:** 01/17/2007 **Expiration Date:** 03/07/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 400 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
CCV TRACE ME-15-153-3 (ORIGINAL)				
Aluminum 2 mL	**ME-15-134-13**	09/15/2006	10/05/2007	10/05/2007
Calcium 2 mL	**ME-15-129-7**	02/22/2006	08/17/2007	08/17/2007
Iron (10,000 mg/L) 2 mL	**ME-15-138-11**	06/21/2006	12/15/2007	12/15/2007
Magnesium (10000 ppm) 2 mL	**ME-15-150-6**	11/16/2006	12/01/2007	12/01/2007
Potassium (10,000 ug/mL) 1 mL	**ME-15-116-6**	10/14/2005	03/07/2007	03/07/2007
QC Standard 21 4 mL	**ME-15-122-8**	12/16/2005	06/12/2007	06/12/2007
Quality Control Standard 7 4 mL	**ME-15-138-12**	06/21/2006	12/15/2007	12/15/2007
Sodium 2 mL	**ME-15-129-6**	02/22/2006	08/17/2007	08/17/2007
Tin, 1000 ppm 0.4 mL	**ME-15-151-3**	12/01/2006	05/16/2008	05/16/2008
Yttrium, 10000 ug/mL 200 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	51.0 mg/L
Antimony	7440-36-0	-	1.00 mg/L
Arsenic	7440-38-2	-	1.00 mg/L
Barium	7440-39-3	-	1.00 mg/L
Beryllium	7440-41-7	-	1.00 mg/L
Boron	7440-42-8	-	1.00 mg/L
Cadmium	7440-43-9	-	1.00 mg/L
Calcium	7440-70-2	-	51.0 mg/L
Chromium	7440-47-3	-	1.00 mg/L
Cobalt	7440-48-4	-	1.00 mg/L
Copper	7440-50-8	-	1.00 mg/L
Iron	7439-89-6	-	51.0 mg/L
Lead	7439-92-1	-	1.00 mg/L
Magnesium	7439-95-4	-	51.0 mg/L
Manganese	7439-96-5	-	1.00 mg/L
Molybdenum	7439-98-7	-	1.00 mg/L
Nickel	7440-02-0	-	1.00 mg/L
Potassium	7440-09-7	-	35.0 mg/L
Selenium	7782-49-2	-	1.00 mg/L
Silver	7440-22-4	-	1.00 mg/L
Sodium	7440-23-5	-	51.0 mg/L
Strontium	7440-24-6	-	1.00 mg/L
Thallium	7440-28-0	-	1.00 mg/L
Tin	7440-31-5	-	1.00 mg/L
Vanadium	7440-62-2	-	1.00 mg/L

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Yttrium	7440-65-5	-	5.00 mg/L
Zinc	7440-66-6	-	1.00 mg/L

FORM LTL-SS-3.0

MET - 153

DAILY MICROPIPETTE CALIBRATION REPORT

Laucks Testing Laboratories, INC. - Seattle, WA

Micropipette passes if between 98-102% of True Value

Pipette #	Date	Analyst	Grams H_2O	% of T.V.	Temp H_2O	Comment
010-4	1-26-07	RF	0.0100	100	17°C	
025-10			0.0252	100.8		
050-10			0.0504	100.8		
100-13			0.1019	101.9		
250-9			0.2535	101.4		
500-14			0.5061	101.22		
1000-22			1.0072	100.72		
M19571 A	1/26/07	WK	0.0100	100.0	18°C	
M19578A			0.0198	99.0		
050-8			0.0503	100.6		
100-10			0.1004	100.4		
200-7			0.2027	101.3		
M12524A			0.2517	100.7		
500-12			0.5048	100.9		
1000-20			1.0118	101.2		
M19571A	1/29/07	CO	0.0100	100.0	18°C	
M19578A			0.0199	99.5		
050-8			0.0508	101.6		
100-10			0.1012	101.2		
200-7			0.2029	101.45		
M12524A			0.2531	101.24		
500-12			0.5097	101.94		
1000-20			1.0122	101.22		

Digestion and Distillation Logs

P.O. 15098

LAUCKS TESTING LABORATORIES, INC.		ICP DIGESTION LOG	Place a √ in the box next to the method performed.		
	Digest start : date/time	Digest finish : date/time	SW-846 3005A		ILM0_ _ -water
SDG #: C2001	01-27-07	01-27-07	SW-846 3010A		ILM0_._-soil
Analyst: ELF	10:30		SW-846 3050B	✓	SW-846 3050BM

	Sample ID	Sample Size (g:mL)	Final Volume (mL)	Color Bef	Color Aft	Clarity Bef	Clarity Aft	Text	Art	Comments	Bottle #
01	3012707ICPSC2	1.0g	100mL		11						
02	S012707ICPSC2	1.0g			↓						
03	C2001-001	1.30g		8	3			M			001
04	-001D	1.41g									
05	-001MS	1.27g									
06	-002	1.26g									
07	-003	1.40g									
08	-004	1.35g									
09	-005	1.35g									
10	-006	1.22g									
11	-007	1.38g									
12	-008	1.25g									
13	-009	1.30g			↓						
14	-010	1.38g			~~8~~ 3	01/31/07					
15	-011	1.29g			3						
16	-012	1.28g									
17	-013	1.31g									
18	-014	1.30g									
19	-015	1.26g									
20	-016	1.30g									
21	-017	1.25g									
22	-018	1.28g									
23	-019	1.41g									
24	-020	1.22g	↓	↓	↓			↓			1L

Chain of Custody	Digest Relinquished Date / Time : Analyst	Digest Accepted Analyst	Digest Disposed Date	Hot Plate Temperature, °C
	1-27-07 10:45	CO 1/27/07		

Reagents Lot Number	HNO_3	HCl	H_2O_2
	462257	461944	452535345

Color 1=Red, 2=Blue, 3=Yellow, 4=Green, 5=Orange, 6=Violet, 7=White, 8=Brown, 9=Grey, 10=Black, 11=Colorless
Clarity 1=Clear, 2=Cloudy, 3=Opaque
P:\metals\bnchshee\icpdig.doc
Texture F=Fine (powdery), M=Medium (sandy), C=Coarse (rocky) Artifacts: If "Yes", give description in the comments field.

P:\metals\bnchshee\icpdig.doc **Spike solutions:** spike witness:

1mL CR MC- 15-152-19

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: CLP-Spike

Log Entry: ME-15-152-19 **Received/Prepared Date:** 01/09/2007 **Expiration Date:** 04/30/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Eric Frank **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
CLP-Spike ME-15-152-19 (ORIGINAL)				
CLPP-SPK-1 20 mL	**ME-15-138-16**	06/23/2006	07/01/2007	07/01/2007
CLPP-SPK-2 20 mL	**ME-15-138-17**	06/23/2006	07/01/2007	07/01/2007
CLPP-SPK-3 20 mL	**ME-15-138-18**	06/23/2006	07/01/2007	07/01/2007

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	200000 ug/L
Antimony	7440-36-0	-	50000 ug/L
Arsenic	7440-38-2	-	200000 ug/L
Barium	7440-39-3	-	200000 ug/L
Beryllium	7440-41-7	-	5000 ug/L
Cadmium	7440-43-9	-	5000 ug/L
Chromium	7440-47-3	-	20000 ug/L
Cobalt	7440-48-4	-	50000 ug/L
Copper	7440-50-8	-	25000 ug/L
Iron	7439-89-6	-	100000 ug/L
Lead	7439-92-1	-	50000 ug/L
Manganese	7439-96-5	-	50000 ug/L
Nickel	7440-02-0	-	50000 ug/L
Selenium	7782-49-2	-	200000 ug/L
Silver	7440-22-4	-	5000 ug/L
Thallium	7440-28-0	-	200000 ug/L
Vanadium	7440-62-2	-	50000 ug/L
Zinc	7440-66-6	-	50000 ug/L

FORM LTL-SS-3.0

MET - 157

DAILY MICROPIPET CALIBRATION REPORT

Laucks Testing Laboratories, Inc. - Seattle, WA

Micropipet passes if between 98-102% of T.V.

PIPETTE #	DATE	ANALYST	GRAMS OF WATER	% OF T.V.	COMMENT
025-5	01.27.07	ELF	0.0250	100.0	17°
050-9	↓	↓	0.0505	101.0	↓
250-6AA	↓	↓	0.2518	100.7	↓
500-8	↓	↓	0.5058	101.0	↓
1000-21	↓	↓	1.0031	100.3	↓
5000	↓	↓	5.0061	100.1	↓

LAUCKS TESTING LABORATORIES

SAMPLE DATA PACKAGE

TETRA TECH NUS, INC.

SDG NO.: C2003

FEBRUARY 2, 2007

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

To: Tetra Tech NUS, Inc.
Project No.: CTO 020
Site Name: Crane NSWC
Project Manager: Ralph Basinski
SDG No.: C2003
Date of Report: February 2, 2007

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

Client Sample Identification	Laucks Sample Identification	Testing Analytical Request
07SOCW009C	C2003-001	MET
07SOCW010C	C2003-002	MET
07SOCW010D	C2003-003	MET
07SOCW010E	C2003-004	MET
07SOCW010F	C2003-005	MET

Analytical Request Key:

MET = Lead (6010)

Sample Receipt Comments:

The following discrepancy was noted in association with the receipt of these samples:

The sample custodian inadvertently forgot to take the temperature of the samples upon receipt. The only analysis requested for these samples was metals, so the temperature discrepancy should not be an issue.

GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

ICP Metals:

The preparation blank for metals in soil is calculated to mg/kg by assuming a sample weight of 1.00g/100mL. Total solids of 100% are also assumed.

On the first timed and dated page of each ICP run, the data to be reported or rejected will be tabulated for that run.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

ICP Metals:

Lead was present in the batch preparation blank at a level greater than ½ the CRDL. All associated samples contained concentrations of lead that were greater than twenty times the level found in the preparation blank, therefore no further corrective action was required. Data have not been flagged for this event.

The duplicate sample relative percent difference for lead was outside the control limits of ±20% for sample 07SOCW009C. No further corrective action was required. All relevant data have been flagged with an "*" on Forms I and VI.

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

U The analyte of interest was not detected to the limit of detection indicated.

SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.

PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.

DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.

AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.

J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.

T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.

E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.

P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.

C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial of confirmatory (GC/MS) analysis. See specific report comments for details.

CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

INORGANIC ANALYSES:

J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.

E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.

N Spiked sample recovery not within control limits.

* Duplicate analysis not within control limits.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

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

Respectfully submitted,

for	
M. Elaine Walker	Harry Romberg
Project Manager	Quality Assurance Officer
2/5/07	2/5/07
(DATE)	(DATE)

HOW TO CONTACT US:

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents ($0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

ATTACHMENT A

Chain-of-Custody Copies

LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG

Sample ID (SDG-#)	VTSR	Collected On	Client ID	2540B Total Solids, soil (Inorganic dept.)	6010B Metals (Lead only), Soil
C2003-**001**	01/31/2007 09:00 AM	01/29/2007 10:50 AM	07SOCW009C	A-	P-
C2003-**002**	01/31/2007 09:00 AM	01/29/2007 11:00 AM	07SOCW010C	A-	P-
C2003-**003**	01/31/2007 09:00 AM	01/29/2007 04:00 PM	07SOCW010D	A-	P-
C2003-**004**	01/31/2007 09:00 AM	01/29/2007 04:15 PM	07SOCW010E	A-	P-
C2003-**005**	01/31/2007 09:00 AM	01/29/2007 10:15 AM	07SOCW010F	A-	P-

Approved By: **On:**
Notes:

Samples identified with a '*' client has requested QC for

LEGEND: -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged

FORM LTL-PM-8.0

SDG C2003

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00352-1302007-7

6

Project No: **112G00352**	Facility: **CRANE NSWC**	Project Manager: **Ralph Basinski**	Carrier: **Federal Express**	Laboratory Name: **Laucks Testing Laboratories, Inc** **940 South Harney Street** **Seattle, WA 98108**
Task No: **CTO 0020**	Turn Around Time: **Rush** 24hr.	Field Ops Leader: **David Hickey**	Carrier/Waybill No. **8494 1921 6305**	Point of Contact: **Elaine Walker** **206-957-2433**

	Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
1	01/29/2007	07SOCW009C	10:50	**SW-846 6010B**	07SOCW009	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
2	01/29/2007	07SOCW010C	11:00	**SW-846 6010B**	07SOCW010	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
3	01/29/2007	07SOCW010D	16:00	**SW-846 6010B**	07SOCW010	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
4	01/29/2007	07SOCW010E	16:15	**SW-846 6010B**	07SOCW010	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	
5	01/30/2007	07SOCW010F	10:15	**SW-846 6010B**	07SOCW010	SO	Lead	None	1	Glass - Clear	8 oz. wide-mouth w/Teflon cap	

1. Relinquished By: **David Hickey**	Date: 01/30/2007	Time: 17:52	Received By: **Federal Express**	Date: 01/30/2007	Time: 18:52
2. Relinquished By:	Date:	Time:	Received By: Kiay Jones	Date: 1/31/07	Time: 10:13
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

Cooler Receipt Form
Laucks Testing Laboratories, Inc.

SDG: C2003 Taken By: CLIENT

Cooler: AAT123 Transferred: FEDEX

COC #: 112G000352-13020007-7

Project: CTO 020 Lead Removal (Tetra Tech NUS, Inc.)

Date samples were received at the laboratory: **1/31/2007**

Date cooler was opened: **1/31/2007 9:00AM**

A. PRELIMINARY EXAMINATION PHASE:

1. Did cooler come with a shipping slip (airbill, etc.)? ..... **YES**
   if YES, record carrier name and airbill number: **849419216305**
2. Were custody seals unbroken and intact at the date and time of arrival? ..... **INTACT**
   Date On Custody Seal: Custody Seals Description: **ONE IN FRONT ONE IN BACK**
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... **YES**
4. Did you screen samples for radioactivity using the Geiger Counter? ..... **YES**
5. Were custody papers filled out properly (ink, signed, etc.)? ..... **YES**
6. Did you sign custody papers in the appropriate place? ..... **YES**
7. If required, was enough cooling material present? ..... **YES**
8. Have designated person initial here to acknowledge receipt of cooler: DWD

B. LOG-IN PHASE: Date samples were logged-in: **1/31/2007 9:00AM**

Logged-in by Danielle Osborne (sign) Danielle Osborne

9. Describe type of packing in cooler:

   BUBBLE WRAP

10. Were all bottles sealed in separate plastic bags? ..... **YES**
11. Were labels in good condition? ..... **YES**
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... **YES**
13. Did all bottle labels agree with custody papers? ..... **YES**
14. Were correct containers used for the tests indicated? ..... **YES**
15. Were the correct pHs observed? ..... **YES**
16. Was a sufficient amount of sample sent for tests indicated? ..... **YES**
17. Were bubbles absent in VOA samples? ..... **YES**
18. Temperatures:

DISCREPANCIES:

Temperature of samples not taken upon receipt. Because the only analysis is metals, the temperature is not an issue. EW 1/31/07

Supplemental Sample Receipt Log
Laucks Testing Laboratories

SDG: **C2003**

Cooler: **AAT123**

Temperatures:

COC #: **112G000352-13020007-7**

Sample	Bottle #	Bottle Description	pH	Bubbles
C2003-001	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2003-002	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2003-003	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2003-004	0001	8 oz jar, wide-mouth, clear glass	N/C	None
C2003-005	0001	8 oz jar, wide-mouth, clear glass	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4+/- 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
NC	Not Checked for pH

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

ATTACHMENT B

Index

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

Tetra Tech NUS, Inc.

SDG No.: C2003

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Completed and checked by: Judy Eckland Date: 2/5/07

FORMS SUMMARY

C2003

Metals Data

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW009C

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2003

Matrix (soil/water): Soil

Lab Sample ID: C2003-001

Level (low/med): LOW

Date Received: 01/31/2007

% Solids: 80

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	30.3		*	P	R014689

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW010C

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2003

Matrix (soil/water): Soil

Lab Sample ID: C2003-002

Level (low/med): LOW

Date Received: 01/31/2007

% Solids: 80.3

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	303		*	P	R014689

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW010D

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2003

Matrix (soil/water): Soil

Lab Sample ID: C2003-003

Level (low/med): LOW

Date Received: 01/31/2007

% Solids: 79.8

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	271		*	P	R014689

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW010E

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2003

Matrix (soil/water): Soil

Lab Sample ID: C2003-004

Level (low/med): LOW

Date Received: 01/31/2007

% Solids: 77.7

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	303		*	P	R014689

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW010F

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2003

Matrix (soil/water): Soil

Lab Sample ID: C2003-005

Level (low/med): LOW

Date Received: 01/31/2007

% Solids: 79.7

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	28.9		*	P	R014689

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Initial Calibration Source: ME-15-153-17

Continuing Calbration Source: ME-15-155-2

Concentration Units: mg/L

Analyte	Initial Calibration ICV				Continuing Calibrations CCV1				CCV2		M
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Lead	90-110	1	0.995	99.5	90 - 110	1.000	0.992	99.2	0.979	97.9	P

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Initial Calibration Source: ME-15-153-17

Continuing Calbration Source: ME-15-155-2

Concentration Units: mg/L

Analyte	Initial Calibration				Continuing Calibrations						M
					CCV3				CCV4		
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Lead	90-110				90 - 110	1.000	1.003	100.3	0.991	99.1	P

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Initial Calibration Source: ME-15-153-17

Continuing Calbration Source: ME-15-155-2

Concentration Units: mg/L

Analyte	Initial Calibration				Continuing Calibrations						M
					CCV5				CCV6		
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Lead	90-110				90 - 110	1.000	0.985	98.5	0.975	97.5	P

2B-IN

CRDL STANDARD FOR METALS

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

ICP CRDL Standard Source: ME-15-154-13

Concentration Units: mg/L

Analyte	CRDL Standard for ICP					
	Initial CRDL			Final		
	True	Found	%R	Found	%R	Limits
Lead	0.01	0.01	111.6			

Control Limits: no limits have been established by EPA at this time

SW-846
3A
INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Concentration Units: mg/L

Analyte	Inital Calib. Blank ICB	C	Continuing Calibration Blank CCB1 1	C	CCB2 2	C	CCB3 3	C
Lead	0.0023	U	0.0023	U	0.0023	U	0.0023	U

SW-846

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Concentration Units: mg/L

Analyte	Inital Calib. Blank		Continuing Calibration Blank					
			CCB4		CCB5		CCB6	
		C	1	C	2	C	3	C
Lead			0.0023	U	0.0023	U	0.0023	U

SW-846
3B
BLANKS

Lab Name: Laucks Laboratories
Contract:
Lab Code: LAUCKS SDG No.: C2003
Run Sequence ID: R014689
Lab Sample ID: B013107ICPS03
Prep Batch ID: P015180
Matrix (soil/water): Soil
Date Prepared: 01/31/2007
Concentration Units: mg/Kg

Analyte	Limits	Preparation Blank	C	M
Lead	0.5	0.62	J	P

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

ICS Source: ME-15-154-6

ICP ID Number: ICP (TJA 61E Trace) Concentration Units: mg/L

Analyte	True		Initial Found			Final Found			
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R	Limits
Lead	0	0.050	0.0020	0.050	99.5				

Interference Check Sample Recover Limits: 80 - 120

SW-846
5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

07SOCW009CMS

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2003

Run Sequence ID: R014689

Lab Sample ID: C2003-001MS

Prep Batch ID: P015180

Matrix (soil/water): Soil

Level (low/med): LOW

% Solids for Sample: 80

Concentration Units: mg/Kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Lead	80 - 120	67.1964		30.3236		44.60	82.6		P

Comments:

SW-846
6
DUPLICATES

SAMPLE NO.

07SOCW009CD

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2003

Run Sequence ID: R014689

Lab Sample ID: C2003-001D

Prep Batch ID: P015180

Level (low/med): LOW

Matrix (soil/water): Soil

% Solids for Duplicate 80

% Solids for Sample: 80

Concentration Units: mg/Kg

Analyte	Control Limit	Sample	C	Duplicate (D)	C	RPD	Q	M
Lead		30.3236		23.4722		25.5	*	P

7A
LABORATORY CONTROL SAMPLE

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Lab Sample ID: S013107ICPS03 Prep Batch ID: P015180

LCS Source: ME-15-152-19

Analyte	Concentration Units: mg/Kg					
	True	Found	C	%R Limits		%R
Lead	50.0	43.251		80	120	86.5

9

ICP SERIAL DILUTIONS

SAMPLE NO.

07SOCW009CL

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Matrix (soil/water): Soil Level (low/med: LOW

Lab Sample ID: C2003-001L

Analyte	Actual Results (mg/L)			Final Results (mg/Kg)				%D	Q	M
	Initial Sample(i)	Dilution Sample(S)	IDL	Initial Sample(i)	C	Dilution Sample(S)	C			
Lead	0.0684	0.0700	0.0018	30.3		31.0		2.3		P

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Laucks Laboratories Contract: _____

Lab Code: LAUCKS SDG No.: C2003

Instrument ID: ICP (TJA 61E Trace) Date: 04/01/2005

Analyte	Wavelength	A PQL (mg/Kg)	B PQL (mg/L)	C MDL (mg/Kg)	D MDL (mg/L)	M
Lead	220.35	1	0.01	0.227	0.00227	P

A = Upper Estimated (J Flag) Range in Determination Units
B = Upper Estimated (J Flag) Range in Actual Units
C = Lower Estimated (J Flag) Range in Determination Units
D = Lower Estimated (J Flag) Range in Actual Units

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS Case No.: SAS No.: SDG No.: C20003

ICP ID Number: TJA61E Date: 3/25/04

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Cr
Aluminum	308.2	0.0000000	-0.0002410	0.0000000	0.0000000	-0.0151170
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	-0.0010450
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000020	-0.0000050
Barium	493.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.6	0.0000000	0.0000050	-0.0000170	0.0000000	0.0002210
Cadmium	226.5	0.0000000	0.0000000	0.0002370	0.0000000	0.0000000
Calcium	315.8	0.0000000	0.0000000	-0.0004240	0.0000000	-0.0014670
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3/1	0.0004400	0.0000000	0.0000600	0.0000000	0.0000000
Lead	220.3/2	-0.0002440	0.0000000	0.0001570	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000180	0.0000000
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0/2	0.0000000	0.0000000	-0.0005170	0.0000000	0.0000000
Selenium	196.0/1	0.0000000	0.0000000	-0.0001270	0.0000000	0.0000000
Silver	328.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0039290	0.0013200	-0.0063870	0.0009740	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0001050	0.0000000	0.0061790
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0000270	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000620	0.0000000	0.0005630

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS Case No.: SAS No.: SDG No.: M2-0003 03/12/07

ICP ID Number: TJA61E Date: 3/25/04

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cu	K	Mn	Ni	Tl
Aluminum	308.2	0.0000000	0.0000260	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000500	0.0000000
Barium	493.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.6	-0.0000640	0.0000000	0.0000100	0.0000430	0.0000000
Cadmium	226.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000160	0.0000000	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0002580	0.0000000
Copper	324.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3/1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3/2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0002520	-0.0000100
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0/2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0/1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	-0.0039500	0.0000000	0.0000000	0.0000000	-0.0051680
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	-0.0034270	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	-0.0000420	0.0001090	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS Case No.: SAS No.: SDG No.: 12003 0021/0/07

ICP ID Number: TJA61E Date: 3/25/04

Analyte	Wave-length (nm)	Interelement Correction Factors for: V				
Aluminum	308.2	0.0168150				
Antimony	206.8	-0.0005520				
Arsenic	189.0	-0.0000620				
Barium	493.4	0.0000000				
Beryllium	313.0	0.0008040				
Boron	249.6	0.0000000				
Cadmium	226.5	0.0000000				
Calcium	315.8	0.0000000				
Chromium	267.7	0.0000570				
Cobalt	228.6	0.0000000				
Copper	324.7	0.0000000				
Iron	271.4	0.0156600				
Lead	220.3/1	0.0000000				
Lead	220.3/2	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Molybdenum	202.0	0.0000000				
Nickel	231.6	0.0000670				
Potassium	766.4	0.0000000				
Selenium	196.0/2	0.0000000				
Selenium	196.0/1	0.0000000				
Silver	328.1	0.0001020				
Sodium	330.2	-0.0240500				
Strontium	421.5	0.0000000				
Thallium	190.8	0.0021200				
Tin	189.9	0.0000000				
Vanadium	292.4	0.0000000				
Zinc	206.2	0.0000000				

Comments:

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003

ICP ID Number: ICP (TJA 61E Trace) Date: 03/14/2005

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	M
Lead	10.000	50.0	P

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PREPARATION LOG

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Prep Batch ID: P015180

Method: 6010B

Client Sample No.	Lab Sample ID	Preparation Date	Initial Volume	Volume (mL)
B013107ICPS03	B013107ICPS03	01/31/2007	1.00 gm	100
S013107ICPS03	S013107ICPS03	01/31/2007	1.00 gm	100
07SOCW009C	C2003-001	01/31/2007	1.41 gm	100
07SOCW009CD	C2003-001D	01/31/2007	1.44 gm	100
07SOCW009CMS	C2003-001MS	01/31/2007	1.40 gm	100
07SOCW010C	C2003-002	01/31/2007	1.28 gm	100
07SOCW010D	C2003-003	01/31/2007	1.16 gm	100
07SOCW010E	C2003-004	01/31/2007	1.33 gm	100
07SOCW010F	C2003-005	01/31/2007	1.24 gm	100

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ANALYSIS RUN LOG

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2003

Run Sequence ID: R014689

Instrument ID Number: ICP (TJA 61E Trace)

Method: 6010B

Start Date: 01/31/2007

End Date: 01/31/2007

Client Sample No.	D/F	Time	Analytes																																
			AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TH	TI	TL	U	V	ZN	CN	B	SI
STD1-Blank	1	13:25																				X													
s	1	13:30																				X													
zzzzzz S1	1	13:33																																	
zzzzzz S2 2/01/07	1	13:36																																	
zzzzzz S3 WK	1	13:40																																	
zzzzzz S4	1	13:43																																	
ICV	1	13:57																				X													
ICB	1	14:05																				X													
CRDL	1	14:11																				X													
zzzzzz1	1	14:17																																	
ICSA	1	14:24																				X													
ICSAB	1	14:29																				X													
CCV1	1	15:09																				X													
CCB1	1	15:16																				X													
zzzzzz2	1	15:22																																	
zzzzzz3	1	15:27																																	
zzzzzz4	1	15:32																																	
zzzzzz5	1	15:37																																	
zzzzzz6	1	15:41																																	
zzzzzz7	1	15:46																																	
zzzzzz8	1	15:51																																	
zzzzzz9	1	15:56																																	
zzzzzz10	1	16:01																																	
zzzzzz11	1	16:06																																	
CCV2	1	16:13																				X													
CCB2	1	16:20																				X													
zzzzzz12	1	16:26																																	

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ANALYSIS RUN LOG

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2003

Run Sequence ID: R014689

Instrument ID Number: ICP (TJA 61E Trace)

Method: 6010B

Start Date: 01/31/2007

End Date: 01/31/2007

Client Sample No.	D/F	Time	Analytes																															
			AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TH	TI	TL	U	V	ZN	CN	B	SI
zzzzzz13	1	16:31																																	
zzzzzz14	1	16:36																																	
zzzzzz15	1	16:41																																	
zzzzzz16	1	16:46																																	
zzzzzz17	1	17:02																																	
zzzzzz18	1	17:07																																	
zzzzzz19	1	17:12																																	
zzzzzz20	1	17:17																																	
zzzzzz21	1	17:22																																	
CCV3	1	17:29																				X													
CCB3	1	17:36																				X													
zzzzzz22	1	17:43																																	
zzzzzz23	1	17:48																																	
zzzzzz24	1	17:55																																	
zzzzzz25	1	18:00																																	
zzzzzz26	1	18:05																																	
CCV4	1	18:13																				X													
CCB4	1	18:21																				X													
B013107ICPS03	1	18:27																				X													
S013107ICPS03	1	18:31																				X													
07SOCW009C	5	18:36																				X													
07SOCW009CD	5	18:41																				X													
07SOCW009CMS	5	18:46																				X													
07SOCW009CL	25	18:51																				X													
zzzzzz	5	18:56																																	
07SOCW010C	5	19:01																				X													
07SOCW010D	5	19:06																				X													

14

ANALYSIS RUN LOG

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2003

Run Sequence ID: R014689

Instrument ID Number: ICP (TJA 61E Trace)

Method: 6010B

Start Date: 01/31/2007

End Date: 01/31/2007

Client Sample No.	D/F	Time	Analytes																																
			AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TH	TI	TL	U	V	ZN	CN	B	SI
07SOCW010E	5	19:11																				X													
CCV5	1	19:19																				X													
CCB5	1	19:26																				X													
07SOCW010F	5	19:33																				X													
zzzzzz27	1	19:38																																	
CCV6	1	19:45																				X													
CCB6	1	19:53																				X													

Metals Data

C2003

SW-846

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Laucks Laboratories Contract: _____

Lab Code: LAUCKS SDG No.: C2003

SOW No.: _____

Sample No.	Lab Sample ID
07SOCW009C	C2003-001
07SOCW009CD	C2003-001D
07SOCW009CMS	C2003-001MS
07SOCW010C	C2003-002
07SOCW010D	C2003-003
07SOCW010E	C2003-004
07SOCW010F	C2003-005

Were ICP interelement corrections applied?	Yes/No	YES
Were ICP background corrections applied?	Yes/No	NO
If yes-was raw data generated before application of background corrections?	Yes/No	NO

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: Cheronne Oreiro

Date: 02/02/2007 Title: Metals Lead

Metals Analysis Data Sheets

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW009C

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2003

Matrix (soil/water): Soil

Lab Sample ID: C2003-001

Level (low/med): LOW

Date Received: 01/31/2007

% Solids: 80

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	30.3		*	P	R014689

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW010C

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2003

Matrix (soil/water): Soil

Lab Sample ID: C2003-002

Level (low/med): LOW

Date Received: 01/31/2007

% Solids: 80.3

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	303		*	P	R014689

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

SW-846
-1-
INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW010D

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2003

Matrix (soil/water): Soil

Lab Sample ID: C2003-003

Level (low/med): LOW

Date Received: 01/31/2007

% Solids: 79.8

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	271		*	P	R014689

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW010E

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2003

Matrix (soil/water): Soil

Lab Sample ID: C2003-004

Level (low/med): LOW

Date Received: 01/31/2007

% Solids: 77.7

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	303		*	P	R014689

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

07SOCW010F

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS

SDG No.: C2003

Matrix (soil/water): Soil

Lab Sample ID: C2003-005

Level (low/med): LOW

Date Received: 01/31/2007

% Solids: 79.7

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7439-92-1	Lead	28.9		*	P	R014689

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comment

Quality Control Data

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Initial Calibration Source: ME-15-153-17

Continuing Calbration Source: ME-15-155-2

Concentration Units: mg/L

Analyte	Initial Calibration ICV				Continuing Calibrations CCV1				CCV2		M
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Lead	90-110	1	0.995	99.5	90 - 110	1.000	0.992	99.2	0.979	97.9	P

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Initial Calibration Source: ME-15-153-17

Continuing Calbration Source: ME-15-155-2

Concentration Units: mg/L

Analyte	Initial Calibration				Continuing Calibrations						M
					CCV3				CCV4		
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Lead	90-110				90 - 110	1.000	1.003	100.3	0.991	99.1	P

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Initial Calibration Source: ME-15-153-17

Continuing Calbration Source: ME-15-155-2

Concentration Units: mg/L

Analyte	Initial Calibration				Continuing Calibrations						M
					CCV5				CCV6		
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Lead	90-110				90 - 110	1.000	0.985	98.5	0.975	97.5	P

2B-IN
CRDL STANDARD FOR METALS

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

ICP CRDL Standard Source: ME-15-154-13

Concentration Units: mg/L

Analyte	CRDL Standard for ICP					
	Initial CRDL			Final		
	True	Found	%R	Found	%R	Limits
Lead	0.01	0.01	111.6			

Control Limits: no limits have been established by EPA at this time

SW-846
3A
INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Concentration Units: mg/L

Analyte	Inital Calib. Blank ICB	C	Continuing Calibration Blank CCB1 1	C	CCB2 2	C	CCB3 3	C
Lead	0.0023	U	0.0023	U	0.0023	U	0.0023	U

SW-846

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Concentration Units: mg/L

Analyte	Inital Calib. Blank		Continuing Calibration Blank					
			CCB4		CCB5		CCB6	
		C	1	C	2	C	3	C
Lead			0.0023	U	0.0023	U	0.0023	U

SW-846
3B
BLANKS

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2003

Run Sequence ID: R014689

Lab Sample ID: B013107ICPS03

Prep Batch ID: P015180

Matrix (soil/water): Soil

Date Prepared: 01/31/2007

Concentration Units: mg/Kg

Analyte	Preparation Blank			
	Limits		C	M
Lead	0.5	0.62	J	P

SW-846
4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

ICS Source: ME-15-154-6

ICP ID Number: ICP (TJA 61E Trace) Concentration Units: mg/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R	Limits
Lead	0	0.050	0.0020	0.050	99.5				

Interference Check Sample Recover Limits: 80 - 120

SW-846
5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

07SOCW009CMS

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2003

Run Sequence ID: R014689

Lab Sample ID: C2003-001MS

Prep Batch ID: P015180

Matrix (soil/water): Soil

Level (low/med): LOW

% Solids for Sample: 80

Concentration Units: mg/Kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Lead	80 - 120	67.1964		30.3236		44.60	82.6		P

Comments:

SW-846
6
DUPLICATES

SAMPLE NO.

07SOCW009CD

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2003

Run Sequence ID: R014689

Lab Sample ID: C2003-001D

Prep Batch ID: P015180

Level (low/med): LOW

Matrix (soil/water): Soil

% Solids for Duplicate 80

% Solids for Sample: 80

Concentration Units: mg/Kg

Analyte	Control Limit	Sample	C	Duplicate (D)	C	RPD	Q	M
Lead		30.3236		23.4722		25.5	*	P

7A
LABORATORY CONTROL SAMPLE

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Lab Sample ID: S013107ICPS03 Prep Batch ID: P015180

LCS Source: ME-15-152-19

Analyte	Concentration Units: mg/Kg					
	True	Found	C	%R Limits		%R
Lead	50.0	43.251		80	120	86.5

9

ICP SERIAL DILUTIONS

SAMPLE NO.

07SOCW009CL

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Run Sequence ID: R014689

Matrix (soil/water): Soil Level (low/med: LOW

Lab Sample ID: C2003-001L

Analyte	Actual Results (mg/L)			Final Results (mg/Kg)				%D	Q	M
	Initial Sample(i)	Dilution Sample(S)	IDL	Initial Sample(i)	C	Dilution Sample(S)	C			
Lead	0.0684	0.0700	0.0018	30.3		31.0		2.3		P

13

PREPARATION LOG

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS SDG No.: C2003 Prep Batch ID: P015180

Method: 6010B

Client Sample No.	Lab Sample ID	Preparation Date	Initial Volume	Volume (mL)
B013107ICPS03	B013107ICPS03	01/31/2007	1.00 gm	100
S013107ICPS03	S013107ICPS03	01/31/2007	1.00 gm	100
07SOCW009C	C2003-001	01/31/2007	1.41 gm	100
07SOCW009CD	C2003-001D	01/31/2007	1.44 gm	100
07SOCW009CMS	C2003-001MS	01/31/2007	1.40 gm	100
07SOCW010C	C2003-002	01/31/2007	1.28 gm	100
07SOCW010D	C2003-003	01/31/2007	1.16 gm	100
07SOCW010E	C2003-004	01/31/2007	1.33 gm	100
07SOCW010F	C2003-005	01/31/2007	1.24 gm	100

14

ANALYSIS RUN LOG

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2003

Run Sequence ID: R014689

Instrument ID Number: ICP (TJA 61E Trace)

Method: 6010B

Start Date: 01/31/2007

End Date: 01/31/2007

Client Sample No.	D/F	Time	Analytes																															
			AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TH	TI	TL	U	V	ZN	CN	B	SI
STD1-Blank	1	13:25																				X													
s	1	13:30																				X													
zzzzzz S1	1	13:33																																	
zzzzzz S2 2/01/07	1	13:36																																	
zzzzzz S3 WK	1	13:40																																	
zzzzzz S4	1	13:43																																	
ICV	1	13:57																				X													
ICB	1	14:05																				X													
CRDL	1	14:11																				X													
zzzzzz1	1	14:17																																	
ICSA	1	14:24																				X													
ICSAB	1	14:29																				X													
CCV1	1	15:09																				X													
CCB1	1	15:16																				X													
zzzzzz2	1	15:22																																	
zzzzzz3	1	15:27																																	
zzzzzz4	1	15:32																																	
zzzzzz5	1	15:37																																	
zzzzzz6	1	15:41																																	
zzzzzz7	1	15:46																																	
zzzzzz8	1	15:51																																	
zzzzzz9	1	15:56																																	
zzzzzz10	1	16:01																																	
zzzzzz11	1	16:06																																	
CCV2	1	16:13																				X													
CCB2	1	16:20																				X													
zzzzzz12	1	16:26																																	

14

ANALYSIS RUN LOG

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2003

Run Sequence ID: R014689

Instrument ID Number: ICP (TJA 61E Trace)

Method: 6010B

Start Date: 01/31/2007

End Date: 01/31/2007

Client Sample No.	D/F	Time	Analytes																															
			AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TH	TI	TL	U	V	ZN	CN	B	SI
zzzzzz13	1	16:31																																	
zzzzzz14	1	16:36																																	
zzzzzz15	1	16:41																																	
zzzzzz16	1	16:46																																	
zzzzzz17	1	17:02																																	
zzzzzz18	1	17:07																																	
zzzzzz19	1	17:12																																	
zzzzzz20	1	17:17																																	
zzzzzz21	1	17:22																																	
CCV3	1	17:29																				X													
CCB3	1	17:36																				X													
zzzzzz22	1	17:43																																	
zzzzzz23	1	17:48																																	
zzzzzz24	1	17:55																																	
zzzzzz25	1	18:00																																	
zzzzzz26	1	18:05																																	
CCV4	1	18:13																				X													
CCB4	1	18:21																				X													
B013107ICPS03	1	18:27																				X													
S013107ICPS03	1	18:31																				X													
07SOCW009C	5	18:36																				X													
07SOCW009CD	5	18:41																				X													
07SOCW009CMS	5	18:46																				X													
07SOCW009CL	25	18:51																				X													
zzzzzz	5	18:56																																	
07SOCW010C	5	19:01																				X													
07SOCW010D	5	19:06																				X													

Form XIV-IN

14

ANALYSIS RUN LOG

Lab Name: Laucks Laboratories

Contract:

Lab Code: LAUCKS SDG No.: C2003

Run Sequence ID: R014689

Instrument ID Number: ICP (TJA 61E Trace)

Method: 6010B

Start Date: 01/31/2007

End Date: 01/31/2007

Client Sample No.	D/F	Time	Analytes																															
			AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TH	TI	TL	U	V	ZN	CN	B	SI
07SOCW010E	5	19:11																				X													
CCV5	1	19:19																				X													
CCB5	1	19:26																				X													
07SOCW010F	5	19:33																				X													
zzzzzz27	1	19:38																																	
CCV6	1	19:45																				X													
CCB6	1	19:53																				X													

MET - 25

Quarterly Verification
of
Instrument Parameters

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Laucks Laboratories Contract: _____

Lab Code: LAUCKS SDG No.: C2003

Instrument ID: ICP (TJA 61E Trace) Date: 04/01/2005

Analyte	Wavelength	A PQL (mg/Kg)	B PQL (mg/L)	C MDL (mg/Kg)	D MDL (mg/L)	M
Lead	220.35	1	0.01	0.227	0.00227	P

A = Upper Estimated (J Flag) Range in Determination Units
B = Upper Estimated (J Flag) Range in Actual Units
C = Lower Estimated (J Flag) Range in Determination Units
D = Lower Estimated (J Flag) Range in Actual Units

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS Case No.: SAS No.: SDG No.: C20003

ICP ID Number: TJA61E Date: 3/25/04

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Cr
Aluminum	308.2	0.0000000	-0.0002410	0.0000000	0.0000000	-0.0151170
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	-0.0010450
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000020	-0.0000050
Barium	493.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.6	0.0000000	0.0000050	-0.0000170	0.0000000	0.0002210
Cadmium	226.5	0.0000000	0.0000000	0.0002370	0.0000000	0.0000000
Calcium	315.8	0.0000000	0.0000000	-0.0004240	0.0000000	-0.0014670
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3/1	0.0004400	0.0000000	0.0000600	0.0000000	0.0000000
Lead	220.3/2	-0.0002440	0.0000000	0.0001570	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000180	0.0000000
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0/2	0.0000000	0.0000000	-0.0005170	0.0000000	0.0000000
Selenium	196.0/1	0.0000000	0.0000000	-0.0001270	0.0000000	0.0000000
Silver	328.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0039290	0.0013200	-0.0063870	0.0009740	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0001050	0.0000000	0.0061790
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0000270	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000620	0.0000000	0.0005630

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS Case No.: SAS No.: SDG No.: C20803

ICP ID Number: TJA61E Date: 3/25/04

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cu	K	Mn	Ni	Tl
Aluminum	308.2	0.0000000	0.0000260	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000500	0.0000000
Barium	493.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.6	-0.0000640	0.0000000	0.0000100	0.0000430	0.0000000
Cadmium	226.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000160	0.0000000	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0002580	0.0000000
Copper	324.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3/1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3/2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0002520	-0.0000100
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0/2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0/1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	-0.0039500	0.0000000	0.0000000	0.0000000	-0.0051680
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	-0.0034270	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	-0.0000420	0.0001090	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Laucks Laboratories Contract:

Lab Code: LAUCKS Case No.: SAS No.: SDG No.: 030805 03/18/04

ICP ID Number: TJA61E Date: 3/25/04

Analyte	Wave-length (nm)	Interelement Correction Factors for: V				
Aluminum	308.2	0.0168150				
Antimony	206.8	-0.0005520				
Arsenic	189.0	-0.0000620				
Barium	493.4	0.0000000				
Beryllium	313.0	0.0008040				
Boron	249.6	0.0000000				
Cadmium	226.5	0.0000000				
Calcium	315.8	0.0000000				
Chromium	267.7	0.0000570				
Cobalt	228.6	0.0000000				
Copper	324.7	0.0000000				
Iron	271.4	0.0156600				
Lead	220.3/1	0.0000000				
Lead	220.3/2	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Molybdenum	202.0	0.0000000				
Nickel	231.6	0.0000670				
Potassium	766.4	0.0000000				
Selenium	196.0/2	0.0000000				
Selenium	196.0/1	0.0000000				
Silver	328.1	0.0001020				
Sodium	330.2	-0.0240500				
Strontium	421.5	0.0000000				
Thallium	190.8	0.0021200				
Tin	189.9	0.0000000				
Vanadium	292.4	0.0000000				
Zinc	206.2	0.0000000				

Comments:

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: Laucks Laboratories Contract: _____

Lab Code: LAUCKS SDG No.: C2003

ICP ID Number: ICP (TJA 61E Trace) Date: 03/14/2005

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	M
Lead	10.000	50.0	P

Raw Data

ICP Data

R14689
(C2003)

Runlog, Logbook: C2003 COA
Analyst: WK
Method: 200.7, 6010B
Instrument ID: TJA61E

ISTD: ME-15-145-2 Profile: ME-15-153-6

Seq	Sample ID	Analysis Date	Time	DF	Matrix	Data File	Prep Batch	Analyst Comments
1	STD1-Blank ME-15-155-3	1/31/07	13:25	1	WATER	01312007.dbf		
2	s -154-15	1/31/07	13:30	1	WATER	01312007.dbf		
3	s1 -157-7	1/31/07	13:33	1	WATER	01312007.dbf		
4	s2 -154-19	1/31/07	13:36	1	WATER	01312007.dbf		
5	s3 -154-18	1/31/07	13:40	1	WATER	01312007.dbf		
6	s4 -154-17	1/31/07	13:43	1	WATER	01312007.dbf		
7	ICV1 -153-17	1/31/07	13:57	1	WATER	01312007.dbf		
8	ICB1 -155-3	1/31/07	14:05	1	WATER	01312007.dbf		
9	CRDL1 -154-13	1/31/07	14:11	1	WATER	01312007.dbf		
10	ICS-A1 -152-18	1/31/07	14:17	1	WATER	01312007.dbf		
11	ICS-A2 ↓	1/31/07	14:24	1	WATER	01312007.dbf		
12	ICS-AB1 -154-6	1/31/07	14:29	1	WATER	01312007.dbf		
13	CCV1 -155-2	1/31/07	15:09	1	WATER	01312007.dbf		
14	CCB1 ✓ -155-3	1/31/07	15:16	1	WATER	01312007.dbf		
15	B013007ICPW07 COA	1/31/07	15:22	1	WATER	01312007.dbf 200.7		
16	S013007ICPW07	1/31/07	15:27	1	WATER	01312007.dbf		
17	S013007ICPW07D	1/31/07	15:32	1	WATER	01312007.dbf		
18	HTLF070101-006	1/31/07	15:37	1	WATER	01312007.dbf		
19	HTLF070101-007	1/31/07	15:41	1	WATER	01312007.dbf		
20	HTLF070101-007S	1/31/07	15:46	1	WATER	01312007.dbf		
21	HTLF070101-007SD	1/31/07	15:51	1	WATER	01312007.dbf		
22	HTLF070101-008	1/31/07	15:56	1	WATER	01312007.dbf		
23	HTLF070101-009	1/31/07	16:01	1	WATER	01312007.dbf		
24	HTLF070101-010	1/31/07	16:06	1	WATER	01312007.dbf		
25	CCV2	1/31/07	16:13	1	WATER	01312007.dbf		
26	CCB2	1/31/07	16:20	1	WATER	01312007.dbf		
27	HTLF070101-011	1/31/07	16:26	1	WATER	01312007.dbf		
28	HTLF070101-012	1/31/07	16:31	1	WATER	01312007.dbf		
29	HTLF070101-013	1/31/07	16:36	1	WATER	01312007.dbf		
30	HTLF070101-015	1/31/07	16:41	1	WATER	01312007.dbf		
31	HTLF070101-016	1/31/07	16:46	1	WATER	01312007.dbf		
32	HTLF070101-017	1/31/07	17:02	1	WATER	01312007.dbf		
33	HTLF070101-018	1/31/07	17:07	1	WATER	01312007.dbf		
34	HTLF070101-020	1/31/07	17:12	1	WATER	01312007.dbf		
35	HTLF070101-021	1/31/07	17:17	1	WATER	01312007.dbf		
36	HTLF070101-022 ↓	1/31/07	17:22	1	WATER	01312007.dbf		
37	CCV3	1/31/07	17:29	1	WATER	01312007.dbf		
38	CCB3	1/31/07	17:36	1	WATER	01312007.dbf		
39	HTLF070101-023 COA	1/31/07	17:43	1	WATER	01312007.dbf		
40	HTLF070101-024	1/31/07	17:48	1	WATER	01312007.dbf		
41	HTLF070101-025	1/31/07	17:55	1	WATER	01312007.dbf		
42	PSPF070119-001	1/31/07	18:00	10	WATER	01312007.dbf		
43	PSPF070119-001 ↓	1/31/07	18:05	1	WATER	01312007.dbf ✓		
44	CCV4	1/31/07	18:13	1	WATER	01312007.dbf		
45	CCB4	1/31/07	18:21	1	WATER	01312007.dbf		
46	B013107ICPS03 C2003	1/31/07	18:27	1	SOIL	01312007.dbf 6010B		

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Runlog, Logbook

Analyst

Method

Instrument ID TJA61E

Seq	Sample ID	Analysis Date	Analysis Time	DF	Matrix	Data File	Prep Batch	Analyst Comments
47.	S013107ICPS03 C2003	1/31/07	18:31	1	SOIL	01312007.dbf 6010B		
48.	C2003-001	1/31/07	18:36	5	SOIL	01312007.dbf		
49.	C2003-001D	1/31/07	18:41	5	SOIL	01312007.dbf		
50.	C2003-001S	1/31/07	18:46	5	SOIL	01312007.dbf		
51.	C2003-001L	1/31/07	18:51	25	SOIL	01312007.dbf		
52.	C2003-001A	1/31/07	18:56	5	SOIL	01312007.dbf		
53.	C2003-002	1/31/07	19:01	5	SOIL	01312007.dbf		
54.	C2003-003	1/31/07	19:06	5	SOIL	01312007.dbf		
55.	C2003-004	1/31/07	19:11	5	SOIL	01312007.dbf		
56.	CCV5	1/31/07	19:19	1	WATER	01312007.dbf		
57.	CCB5	1/31/07	19:26	1	WATER	01312007.dbf		
58.	C2003-005	1/31/07	19:33	5	SOIL	01312007.dbf		
59.	B013107ICPS03	1/31/07	19:38	1	SOIL	01312007.dbf		
60.	CCV6	1/31/07	19:45	1	WATER	01312007.dbf		
61.	CCB6	1/31/07	19:53	1	WATER	01312007.dbf		

Analyst Signature Yen-Chen Hao

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Standardization Report 01/31/07 01:48:25 PM page 1

Method: SUBLIST Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag3280	328.068	s	STD1-Blank	.441513	.000313	01/31/07 01:43:57
Al3082	308.215	Multiple	Standards	3.20527	-.397598	01/31/07 01:40:20
As1890	189.042	s	STD1-Blank	.913187	.000587	01/31/07 01:43:57
B_2496	249.678	s	STD1-Blank	.375610	-.005594	01/31/07 01:43:57
Ba4934	493.409	s	STD1-Blank	.299217	.000032	01/31/07 01:43:57
Be3130	313.042	s	STD1-Blank	.316977	.015431	01/31/07 01:43:57
Ca3179	317.933	Multiple	Standards	7.48850	-.114099	01/31/07 01:40:20
Cd2265	226.502	s	STD1-Blank	.151829	-.000172	01/31/07 01:43:57
Co2286	228.616	s	STD1-Blank	.917345	.000781	01/31/07 01:43:57
Cr2677	267.716	s	STD1-Blank	.601657	.000043	01/31/07 01:43:57
Cu3247	324.753	s	STD1-Blank	.413916	-.009055	01/31/07 01:43:57
Fe2714	271.441	Multiple	Standards	8.01891	.032189	01/31/07 01:40:20
K_7664	766.491	Multiple	Standards	2.61790	-.035121	01/31/07 01:43:57
Mg2790	279.078	Multiple	Standards	5.32227	.001188	01/31/07 01:40:20
Mn2576	257.610	s	STD1-Blank	.292654	-.000083	01/31/07 01:43:57
Mo2020	202.030	s	STD1-Blank	2.94980	.001780	01/31/07 01:43:57
Na3302	330.232	Multiple	Standards	61.1837	-.162496	01/31/07 01:43:57
Ni2316	231.604	s	STD1-Blank	.650155	.000738	01/31/07 01:43:57
2203/1	220.351	s	STD1-Blank	.346125	.001681	01/31/07 01:43:57
2203/2	220.352	s	STD1-Blank	.421840	.001074	01/31/07 01:43:57
Sb2068	206.838	s	STD1-Blank	.550612	-.000819	01/31/07 01:43:57
1960/1	196.021	s	STD1-Blank	.455098	.000923	01/31/07 01:43:57
1960/2	196.022	s	STD1-Blank	.501802	-.002421	01/31/07 01:43:57
Pb2203	220.353	NONE	NONE	1.00000	.000000	*01/31/07 01:43:57
Se1960	196.023	NONE	NONE	1.00000	.000000	*01/31/07 01:43:57
Sn1899	189.989	s	STD1-Blank	.793333	-.001743	01/31/07 01:43:57
Sr4215	421.552	s	STD1-Blank	.040561	-.000003	01/31/07 01:43:57
Tl1908	190.864	s	STD1-Blank	.628419	.006931	01/31/07 01:43:57
V_2924	292.402	s	STD1-Blank	.906918	-.000064	01/31/07 01:43:57
Zn2062	206.200	s	STD1-Blank	.641931	-.000045	01/31/07 01:43:57

Method: SUBLIST

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag3280	328.068	STD1-Blank	.000000	.000000	-.000000
		s	1.00000	1.00054	-.000540

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	STD1-Blank	.000000	.000959	-.000959
		s1	50.0000	51.4145	-1.41451
		s2	250.000	259.125	-9.12527
		s	1.00000	1.04810	-.048102
		s3	150.000	153.078	-3.07835

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1890	189.042	STD1-Blank	.000000	.000000	-.000000
		s	5.00000	5.00070	-.000705

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B_2496	249.678	STD1-Blank	.000000	-.000000	.000000
		s	1.00000	.994145	.005855

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba4934	493.409	STD1-Blank	.000000	.000000	-.000000
		s	1.00000	1.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be3130	313.042	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	4.99695	.003045

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca3179	317.933	STD1-Blank	.000000	-.001256	.001256
		s1	50.0000	50.9148	-.914833
		s2	250.000	239.949	10.0508
		s	5.00000	5.17385	-.173852
		s3	150.000	150.449	-.449234

CorCoef: 0.99964

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd2265	226.502	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	5.00130	-.001300

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co2286	228.616	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	5.01122	-.011215

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	4.99927	.000735

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu3247	324.753	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe2714	271.441	STD1-Blank	.000000	-.005071	.005071
		s1	20.0000	19.5661	.433935
		s2	100.000	94.1247	5.87527
		s	5.00000	5.47014	-.470143
		s3	60.0000	57.9705	2.02952

CorCoef: 0.99987

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K_7664	766.491	STD1-Blank	.000000	-.000965	.000965
		s4	10.0000	6.72479	3.27521
		s2	50.0000	58.0256	-8.02564
		s3	5.00000	5.83504	-.835042

CorCoef: 0.99605

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg2790	279.078	STD1-Blank	.000000	.001374	-.001374
		s1	50.0000	49.8774	.122627
		s2	250.000	253.227	-3.22731
		s	5.00000	4.85959	.140406
		s3	150.000	152.644	-2.64365

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	4.99861	.001389

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo2020	202.030	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na3302	330.232	STD1-Blank	.000000	.022000	-.022000
		s4	10.0000	7.33346	2.66654
		s1	100.000	109.008	-9.00795
		s2	50.0000	57.1220	-7.12202
		s3	25.0000	24.6216	.378420

CorCoef: 0.99844

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni2316	231.604	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	5.00135	-.001350

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/1	220.351	STD1-Blank	.000000	.000000	-.000000
		s	5.00000	5.01303	-.013029

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/2	220.352	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	4.99373	.006275

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.838	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	4.97431	.025685

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/1	196.021	STD1-Blank	.000000	.000000	-.000000
		s	5.00000	4.99867	.001330

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/2	196.022	STD1-Blank	.000000	.000000	-.000000
		s	5.00000	4.99767	.002330

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Pb2203	220.353	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Se1960	196.023	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	STD1-Blank	.000000	-.000000	.000000
		s	1.00000	1.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	STD1-Blank	.000000	.000000	-.000000
		s	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl1908	190.864	STD1-Blank	.000000	-.000000	.000000
		s	5.00000	4.97912	.020885

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V_2924	292.402	STD1-Blank	.000000	.000000	-.000000
		s	5.00000	4.99929	.000710

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn2062	206.200	STD1-Blank	.000000	.000000	-.000000
		s	5.00000	4.98400	.016000

Method: SUBLIST Standard: STD1-Blank
Run Time: 01/31/07 13:25:41

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Avge	-.0007	.1243	-.00064	.0149	-.0001	-.0487	.0151
SDev	.0009	.0003	.00471	.0022	.0001	.0001	.0001
%RSD	127.3	.2456	733.18	15.02	46.96	.1038	.5380
#1	-.0013	.1246	-.00398	.0165	-.0001	-.0486	.0151
#2	-.0001	.1241	.00269	.0133	-.0001	-.0487	.0150

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Avge	.0011	-.0009	-.0001	.0219	-.0046	.0130	.0000
SDev	.0000	.0002	.0003	.0003	.0018	.0006	.0004
%RSD	.2053	23.77	422.6	1.399	37.97	4.407	1289.
#1	.0011	-.0010	-.0003	.0217	-.0059	.0126	-.0003
#2	.0011	-.0007	.0001	.0221	-.0034	.0135	.0004

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Avge	.0003	-.0006	.0030	-.0011	-.00486	-.00255	.0015
SDev	.0001	.0007	.0017	.0011	.00185	.00551	.0018
%RSD	35.16	108.2	55.08	97.34	38.004	216.33	121.2
#1	.0002	-.0011	.0042	-.0019	-.00355	.00135	.0002
#2	.0004	-.0001	.0018	-.0004	-.00616	-.00644	.0028

Elem	1960/1	1960/2	Sn1899	Sr4215	Tl1908	V_2924	Zn2062
Avge	-.00203	.00482	.0022	.0001	-.01103	.0001	.0001
SDev	.00647	.00292	.0006	.0003	.00298	.0001	.0007
%RSD	319.22	60.480	27.17	425.9	27.027	141.4	999.9
#1	-.00660	.00689	.0018	-.0001	-.01314	.0000	-.0004
#2	.00255	.00276	.0026	.0003			

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14102	--	--	--	--	--	--
SDev	28.94511	--	--	--	--	--	--
%RSD	.2052548	--	--	--	--	--	--
#1	14082	--	--	--	--	--	--
#2	14123	--	--	--	--	--	--

Method: SUBLIST Standard: s
Run Time: 01/31/07 13:30:14

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Avge	2.265	.4510	5.4755	2.662	3.342	15.72	.7061
SDev	.007	.0007	.0038	.009	.001	.08	.0018
%RSD	.3223	.1511	.06870	.3431	.0401	.5015	.2590
#1	2.271	.4506	5.4728	2.668	3.341	15.77	.7074
#2	2.260	.4515	5.4781	2.655	3.343	15.66	.7048

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	Mg2790	Mn2576
Avge	32.94	5.462	8.309	12.10	.6781	.9128	17.08
SDev	.03	.008	.017	.01	.0001	.0003	.04
%RSD	.0814	.1404	.2042	.0512	.0098	.0278	.2518
#1	32.96	5.467	8.321	12.11	.6782	.9130	17.11
#2	32.92	5.456	8.297	12.10	.6781	.9127	17.05

Elem	Mo2020	Ni2316	2203/1	2203/2	Sb2068	1960/1	1960/2
Avge	1.694	7.691	14.478	11.835	9.036	10.982	9.9643
SDev	.019	.002	.061	.057	.078	.037	.0124
%RSD	1.148	.0235	.42162	.48024	.8662	.33888	.12398
#1	1.681	7.693	14.522	11.876	8.980	11.008	9.9555
#2	1.708	7.690	14.435	11.795	9.091	10.955	9.9730

Elem	Sn1899	Sr4215	Tl1908	V_2924	Zn2062
Avge	1.263	123.3	7.9122	5.512	7.764
SDev	.002	.2	.0212	.017	.027
%RSD	.1210	.1236	.26749	.3037	.3540
#1	1.264	123.4	7.9272	5.524	7.784
#2	1.262	123.2	7.8972	5.501	7.745

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14073	--	--	--	--	--	--
SDev	77.50277	--	--	--	--	--	--
%RSD	.5507181	--	--	--	--	--	--
#1	14018	--	--	--	--	--	--
#2	14128	--	--	--	--	--	--

Method: SUBLIST Standard: s1
Run Time: 01/31/07 13:33:40

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302
Avge	16.16	6.814	2.436	9.371	1.784
SDev	.04	.005	.007	.007	.021
%RSD	.2182	.0798	.3004	.0748	1.157
#1	16.14	6.818	2.431	9.366	1.770
#2	16.19	6.810	2.441	9.376	1.799

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13918	--	--	--	--	--	--
SDev	11.31440	--	--	--	--	--	--
%RSD	.0812919	--	--	--	--	--	--
#1	13910	--	--	--	--	--	--
#2	13926	--	--	--	--	--	--

Method: SUBLIST Standard: s2
Run Time: 01/31/07 13:36:55

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na3302
Avge	80.97	32.06	11.73	22.18	47.58	.9363
SDev	.13	.17	.05	.10	.10	.0086
%RSD	.1618	.5234	.4042	.4565	.2199	.9171
#1	80.87	32.18	11.77	22.11	47.65	.9302
#2	81.06	31.94	11.70	22.25	47.50	.9423

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13088	--	--	--	--	--	--
SDev	37.05405	--	--	--	--	--	--
%RSD	.2831164	--	--	--	--	--	--
#1	13062	--	--	--	--	--	--
#2	13114	--	--	--	--	--	--

Method: SUBLIST Standard: s3
Run Time: 01/31/07 13:40:20

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na3302
Avge	47.88	20.11	7.225	2.242	28.68	.4051
SDev	.04	.04	.020	.006	.05	.0006
%RSD	.0860	.2130	.2704	.2601	.1599	.1592
#1	47.85	20.08	7.211	2.246	28.71	.4046
#2	47.91	20.14	7.239	2.238	28.65	.4055

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13375	--	--	--	--	--	--
SDev	20.60139	--	--	--	--	--	--
%RSD	.1540264	--	--	--	--	--	--
#1	13361	--	--	--	--	--	--
#2	13390	--	--	--	--	--	--

Method: SUBLIST Standard: s4
Run Time: 01/31/07 13:43:57

Elem	K_7664	Na3302
Avge	2.582	.1225
SDev	.001	.0011
%RSD	.0373	.9283
#1	2.582	.1233
#2	2.583	.1217

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14374	--	--	--	--	--	--
SDev	5.091307	--	--	--	--	--	--
%RSD	.0354211	--	--	--	--	--	--
#1	14377	--	--	--	--	--	--
#2	14370	--	--	--	--	--	--

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Method: SUBLIST Sample Name: ICV Operator: CO
Run Time: 01/31/07 13:57:54
Comment: ICV1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1266	49.37	1.0470	1.011	1.023	1.008	50.62
SDev	.0002	.08	.0013	.003	.002	.005	.29
%RSD	.1868	.1679	.12257	.3389	.1732	.4902	.5724
#1	.1267	49.31	1.0461	1.013	1.024	1.004	50.42
#2	.1264	49.43	1.0480	1.008	1.021	1.011	50.83

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9849	.9836	.9846	1.028	19.54	24.84	49.63
SDev	.0018	.0013	.0026	.004	.12	.04	.12
%RSD	.1824	.1356	.2626	.3455	.6024	.1797	.2382
#1	.9836	.9826	.9828	1.030	19.45	24.87	49.71
#2	.9861	.9845	.9864	1.025	19.62	24.81	49.55

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.003	1.007	46.44	.9919	.97952	1.0012	1.027
SDev	.000	.013	.05	.0001	.00400	.0025	.001
%RSD	.0293	1.286	.1012	.0064	.40792	.25383	.0684
#1	1.003	.9974	46.48	.9918	.97669	.99940	1.027
#2	1.003	1.016	46.41	.9919	.98234	1.0030	1.026

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0143	1.0165	.99484	1.0163	1.008	1.047	1.0081
SDev	.0072	.0025	.00302	.0007	.003	.003	.0052
%RSD	.71309	.24955	.30365	.07020	.2902	.2672	.51567
#1	1.0092	1.0183	.99270	1.0158	1.006	1.049	1.0045
#2	1.0194	1.0147	.99698	1.0168	1.010	1.045	1.0118

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.9877	.9773
SDev	.0022	.0059
%RSD	.2231	.6044
#1	.9862	.9732
#2	.9893	.9815

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13935	--	--	--	--	--	--
SDev	77.92745	--	--	--	--	--	--
%RSD	.5592051	--	--	--	--	--	--
#1	13880	--	--	--	--	--	--
#2	13990	--	--	--	--	--	--

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Method: SUBLIST Sample Name: ICB Operator: CO
Run Time: 01/31/07 14:05:06
Comment: ICB1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0094	.00117	-.0004	.0001	-.0000	-.0087
SDev	.0001	.0019	.00155	.0004	.0000	.0000	.0007
%RSD	31.89	19.98	132.83	95.13	.0436	2.069	7.672
#1	.0004	.0081	.00007	-.0007	.0001	-.0000	-.0083
#2	.0006	.0108	.00227	-.0001	.0001	-.0001	-.0092

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.0002	.0003	.0001	.0058	.0017	.0040
SDev	.0001	.0001	.0001	.0001	.0084	.0021	.0003
%RSD	47.96	85.91	23.45	47.41	144.1	123.7	6.560
#1	-.0002	.0003	.0003	.0001	-.0001	.0002	.0042
#2	-.0001	.0001	.0002	.0001	.0118	.0032	.0038

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0033	-.0499	.0006	.00063	.00096	.0006
SDev	.0000	.0001	.0857	.0008	.00167	.00199	.0015
%RSD	48.45	4.462	171.6	119.9	265.67	207.29	268.2
#1	.0000	.0032	-.1105	.0001	.00181	-.00045	.0016
#2	.0000	.0035	.0107	.0012	-.00055	.00237	-.0005

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00130	.00035	.00152	.00037	.0007	.0000	.00040
SDev	.00310	.00090	.00072	.00163	.0031	.0000	.00452
%RSD	238.43	256.63	47.633	444.27	426.0	47.00	1125.8
#1	.00089	.00098	.00101	.00152	-.0015	.0000	-.00279
#2	-.00349	-.00028	.00204	-.00078	.0029	.0000	.00360

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0001	-.0002
SDev	.0000	.0002
%RSD	.0063	90.62
#1	.0001	-.0001
#2	.0001	-.0004

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14139	--	--	--	--	--	--
SDev	15.41548	--	--	--	--	--	--
%RSD	.1090301	--	--	--	--	--	--
#1	14150	--	--	--	--	--	--
#2	14128	--	--	--	--	--	--

Analysis Report QC Standard 01/31/07 02:15:58 PM page 1

Method: SUBLIST Sample Name: CRDL Operator: CO
Run Time: 01/31/07 14:11:08
Comment: CRDL1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0105	.0001	.01100	.0974	.0206	.0053	.0011
SDev	.0003	.0043	.00153	.0006	.0001	.0002	.0030
%RSD	2.936	5137.	13.903	.6413	.3026	4.203	275.1
#1	.0107	.0031	.00992	.0979	.0205	.0052	-.0010
#2	.0103	-.0030	Q.01209	.0970	.0206	.0055	.0032

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0051	.0487	.0103	.0244	.0158	.0012	.0027
SDev	.0001	.0003	.0001	.0003	.0059	.0056	.0005
%RSD	1.899	.5389	.8230	1.154	37.31	450.7	20.10
#1	.0050	.0489	.0102	.0242	.0200	.0052	.0031
#2	.0052	.0486	.0103	.0246	.0117	-.0027	.0023

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0153	.0108	-.0647	.0406	.00857	.00816	.0593
SDev	.0001	.0019	.0403	.0003	.00064	.00012	.0016
%RSD	.5504	17.14	62.34	.6315	7.4158	1.4276	2.784
#1	.0154	.0095	-.0362	.0407	.00902	.00808	.0605
#2	.0152	Q.0122	-.0932	.0404	.00812	.00824	.0581

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00690	.01035	.00893	.00977	-.0029	.0000	.01176
SDev	.00284	.00044	.00014	.00124	.0015	.0000	.00035
%RSD	41.106	4.2105	1.5463	12.684	52.74	24.25	2.9496
#1	.00891	.01066	.00903	.01064	-.0039	.0000	.01152
#2	.00489	.01004	.00883	.00889	-.0018	.0000	.01201

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0496	.0201
SDev	.0004	.0003
%RSD	.7343	1.758
#1	.0499	.0203
#2	.0494	.0198

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14154	--	--	--	--	--	--
SDev	91.03310	--	--	--	--	--	--
%RSD	.6431704	--	--	--	--	--	--
#1	14089	--	--	--	--	--	--
#2	14218	--	--	--	--	--	--

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Method: SUBLIST Sample Name: ICSA Operator: CO
Run Time: 01/31/07 14:24:32
Comment: ICSA1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	495.1	-.00269	.0162	.0016	-.0018	445.3
SDev	.0002	.4	.00415	.0002	.0000	.0000	.8
%RSD	54.19	.0720	153.87	1.478	.0092	.8909	.1891
#1	-.0006	495.4	.00024	.0164	.0016	-.0018	445.9
#2	-.0003	494.9	-.00563	.0160	.0016	-.0018	444.7

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	.0014	.0015	.0028	183.2	-.0134	494.2
SDev	.0001	.0005	.0003	.0000	.4	.0048	.8
%RSD	11.40	33.16	17.73	.0396	.1965	36.05	.1573
#1	-.0014	.0017	.0017	.0028	183.5	-.0100	494.7
#2	-.0012	.0011	.0013	.0028	183.0	-.0169	493.6

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0038	-.0009	-.0070	.0034	-.07342	.03874	.0091
SDev	.0001	.0022	.1595	.0007	.00109	.00535	.0042
%RSD	2.322	236.3	2267.	19.18	1.4851	13.811	45.92
#1	-.0037	.0006	.1057	.0039	-.07419	.03496	.0121
#2	-.0039	-.0024	-.1198	.0030	-.07264	.04253	.0062

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02171	-.00109	.00203	.00714	.0042	.0062	.00511
SDev	.00462	.00666	.00393	.00598	.0010	.0000	.00123
%RSD	21.287	610.92	193.86	83.811	23.48	.5579	24.150
#1	.01844	-.00580	-.00075	.00291	.0035	.0062	.00598
#2	.02498	.00362	.00481	Q.01137	.0049	.0062	.00424

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0006	-.0035
SDev	.0002	.0013
%RSD	43.92	35.83
#1	.0007	-.0026
#2	.0004	-.0044

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12612	--	--	--	--	--	--
SDev	1.178742	--	--	--	--	--	--
%RSD	.0093461	--	--	--	--	--	--
#1	12613	--	--	--	--	--	--
#2	12611	--	--	--	--	--	--

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Method: SUBLIST Sample Name: ICSAB Operator: CO
Run Time: 01/31/07 14:29:28
Comment: ICSAB1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2181	487.3	.10191	.0196	.5504	.4811	441.0
SDev	.0004	.9	.00278	.0001	.0009	.0010	1.5
%RSD	.1898	.1877	2.7249	.7447	.1654	.2122	.3342
#1	.2184	487.9	.09994	.0197	.5498	.4818	442.0
#2	.2178	486.6	.10387	.0195	.5510	.4804	439.9

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9240	.4739	.4966	.5781	181.3	-.0111	487.9
SDev	.0041	.0015	.0015	.0005	.2	.0011	1.7
%RSD	.4392	.3161	.3121	.0884	.0866	9.939	.3526
#1	.9268	.4749	.4977	.5778	181.4	-.0103	489.1
#2	.9211	.4728	.4955	.5785	181.2	-.0118	486.7

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4772	.2002	-1.164	.9302	-.03155	.08937	.6370
SDev	.0011	.0017	.038	.0006	.00419	.00213	.0010
%RSD	.2402	.8275	3.237	.0683	13.283	2.3872	.1575
#1	.4780	.1990	-1.137	.9297	-.02859	.09088	.6377
#2	.4763	.2014	-1.190	.9306	-.03451	.08786	.6363

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07441	.04588	.04978	.05601	.0032	.0062	.10720
SDev	.00297	.00497	.00288	.00232	.0002	.0000	.00236
%RSD	3.9863	10.832	5.7790	4.1507	6.347	.0030	2.2058
#1	.07651	.04236	.05181	.05437	.0031	.0062	.10887
#2	.07231	.04939	.04774	.05765	.0034	.0062	.10552

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.4856	.9354
SDev	.0004	.0013
%RSD	.0783	.1386
#1	.4859	.9363
#2	.4853	.9344

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12681	--	--	--	--	--	--
SDev	41.29669	--	--	--	--	--	--
%RSD	.3256571	--	--	--	--	--	--
#1	12652	--	--	--	--	--	--
#2	12710	--	--	--	--	--	--

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Method: SUBLIST Sample Name: CCV Operator: CO
Run Time: 01/31/07 15:09:08
Comment: CCV1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.024	50.44	1.0059	1.018	1.017	1.022	51.10
SDev	.000	.05	.0012	.001	.001	.001	.33
%RSD	.0319	.0914	.12343	.1108	.0904	.0929	.6379
#1	1.024	50.47	1.0068	1.018	1.016	1.023	51.33
#2	1.024	50.41	1.0050	1.019	1.017	1.022	50.87

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9677	.9731	.9878	1.012	49.54	33.74	49.35
SDev	.0060	.0066	.0037	.001	.12	.08	.09
%RSD	.6221	.6764	.3730	.1221	.2424	.2469	.1778
#1	.9719	.9777	.9904	1.012	49.62	33.80	49.41
#2	.9634	.9684	.9852	1.013	49.45	33.68	49.29

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9894	.9969	47.39	.9624	.89633	1.0394	.9943
SDev	.0037	.0091	.64	.0020	.00415	.0053	.0125
%RSD	.3714	.9081	1.340	.2066	.46275	.50551	1.257
#1	.9920	.9905	47.84	.9638	.89926	1.0431	.9854
#2	.9868	1.003	46.94	.9610	.89340	1.0357	1.003

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0029	.99359	.99238	.99725	1.020	1.032	1.0093
SDev	.0004	.00442	.00493	.00283	.003	.000	.0027
%RSD	.03666	.44488	.49715	.28364	.3072	.0065	.26452
#1	1.0031	.99046	.99586	.99525	1.022	1.032	1.0074
#2	1.0026	.99671	.98889	.99925	1.017	1.032	1.0112

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.9812	.9855
SDev	.0028	.0085
%RSD	.2880	.8647
#1	.9832	.9916
#2	.9792	.9795

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13945	--	--	--	--	--	--
SDev	68.16813	--	--	--	--	--	--
%RSD	.4888463	--	--	--	--	--	--
#1	13993	--	--	--	--	--	--
#2	13896	--	--	--	--	--	--

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Method: SUBLIST Sample Name: CCB Operator: CO
Run Time: 01/31/07 15:16:20
Comment: CCB1/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	-.0137	.00068	-.0020	.0000	.0001	.0079
SDev	.0003	.0008	.00005	.0002	.0000	.0001	.0011
%RSD	70.73	5.920	6.6247	11.29	.0148	52.56	13.59
#1	.0006	-.0143	.00065	-.0022	.0000	.0001	.0072
#2	.0002	-.0131	.00072	-.0019	.0000	.0001	.0087

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0004	.0014	.0005	.0040	-.0057	-.0001
SDev	.0000	.0001	.0014	.0000	.0117	.0047	.0008
%RSD	13.20	33.32	106.1	.1336	291.7	82.42	593.1
#1	-.0001	.0005	.0003	.0005	-.0043	-.0091	.0004
#2	-.0001	.0003	.0024	.0005	.0123	-.0024	-.0007

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0029	-.0082	.0024	.00043	-.00115	.0009
SDev	.0001	.0013	.0584	.0003	.00011	.00013	.0002
%RSD	185.1	45.47	709.1	13.61	24.803	11.613	25.80
#1	-.0000	.0039	-.0495	.0022	.00036	-.00105	.0011
#2	.0001	.0020	.0330	.0026	.00051	-.00124	.0008

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00073	-.00016	.00002	.00071	-.0016	.0000	-.00036
SDev	.00055	.00109	.00005	.00091	.0009	.0000	.00078
%RSD	75.570	697.11	302.66	128.74	57.18	28.21	218.51
#1	.00034	-.00093	.00006	.00006	-.0023	.0000	.00020
#2	.00112	.00061	-.00002	.00135	-.0010	.0000	-.00091

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0002	-.0004
SDev	.0002	.0000
%RSD	93.71	8.312
#1	.0001	-.0005
#2	.0003	-.0004

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14080	--	--	--	--	--	--
SDev	1.037182	--	--	--	--	--	--
%RSD	.0073662	--	--	--	--	--	--
#1	14081	--	--	--	--	--	--
#2	14080	--	--	--	--	--	--

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Method: SUBLIST Sample Name: CCV Operator: CO
Run Time: 01/31/07 16:13:31
Comment: CCV2/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.027	50.94	1.0048	1.021	1.035	1.021	50.50
SDev	.001	.01	.0017	.002	.000	.000	.03
%RSD	.1028	.0250	.16811	.1670	.0016	.0375	.0556
#1	1.028	50.93	1.0036	1.020	1.035	1.021	50.48
#2	1.026	50.95	1.0060	1.022	1.035	1.021	50.52

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9545	.9652	.9942	1.021	49.42	34.16	49.29
SDev	.0050	.0028	.0017	.002	.06	.01	.02
%RSD	.5193	.2905	.1739	.2332	.1166	.0198	.0370
#1	.9510	.9632	.9929	1.022	49.38	34.16	49.27
#2	.9580	.9671	.9954	1.019	49.46	34.17	49.30

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9821	.9883	47.56	.9576	.88923	1.0222	.9987
SDev	.0009	.0078	.03	.0041	.00057	.0050	.0079
%RSD	.0903	.7937	.0611	.4236	.06384	.48867	.7944
#1	.9815	.9827	47.54	.9548	.88883	1.0257	.9931
#2	.9828	.9938	47.58	.9605	.88963	1.0187	1.004

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0024	.98999	.97851	.99468	1.009	1.032	.99370
SDev	.0013	.00174	.00319	.00072	.009	.001	.00224
%RSD	.13372	.17618	.32630	.07211	.8491	.1063	.22494
#1	1.0014	.99122	.98077	.99519	1.015	1.033	.99212
#2	1.0033	.98875	.97625	.99417	1.003	1.032	.99528

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.9773	.9731
SDev	.0002	.0019
%RSD	.0175	.1965
#1	.9774	.9718
#2	.9772	.9745

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14167	--	--	--	--	--	--
SDev	5.751457	--	--	--	--	--	--
%RSD	.0405963	--	--	--	--	--	--
#1	14163	--	--	--	--	--	--
#2	14172	--	--	--	--	--	--

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Method: SUBLIST Sample Name: CCB Operator: CO
Run Time: 01/31/07 16:20:43
Comment: CCB2/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	-.0191	.00036	-.0017	.0000	.0001	.0110
SDev	.0000	.0002	.00059	.0000	.0000	.0001	.0006
%RSD	15.51	1.126	162.24	.8284	.2176	60.50	5.065
#1	.0003	-.0189	-.00005	-.0017	.0000	.0002	.0114
#2	.0003	-.0192	.00078	-.0017	.0000	.0001	.0106

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0004	.0020	.0004	.0068	-.0014	.0055
SDev	.0000	.0002	.0002	.0001	.0112	.0012	.0019
%RSD	22.23	54.01	12.14	19.80	163.3	86.93	33.80
#1	-.0000	.0003	.0018	.0004	.0148	-.0022	.0042
#2	-.0000	.0006	.0022	.0003	-.0011	-.0005	.0068

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0039	-.0293	.0025	.00061	-.00045	.0013
SDev	.0000	.0018	.0000	.0000	.00041	.00036	.0002
%RSD	38.61	45.59	.0148	1.218	66.777	79.758	15.48
#1	.0001	.0051	-.0293	.0025	.00032	-.00071	.0011
#2	.0001	.0026	-.0293	.0025	.00090	-.00020	.0014

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00074	.00021	.00053	.00045	.0005	.0000	-.00064
SDev	.00031	.00152	.00038	.00091	.0001	.0000	.00561
%RSD	42.272	738.27	70.687	200.70	23.54	67.13	870.99
#1	-.00096	.00128	.00027	.00110	.0004	.0000	-.00461
#2	-.00052	-.00087	.00080	-.00019	.0006	.0000	.00332

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	-.0000	-.0006
SDev	.0002	.0004
%RSD	101400.	61.38
#1	.0001	-.0009
#2	-.0001	-.0004

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14242	--	--	--	--	--	--
SDev	15.93407	--	--	--	--	--	--
%RSD	.1118847	--	--	--	--	--	--
#1	14253	--	--	--	--	--	--
#2	14230	--	--	--	--	--	--

Method: SUBLIST Sample Name: CCV Operator: CO
Run Time: 01/31/07 17:29:16
Comment: CCV3/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.025	51.09	1.0169	1.031	1.031	1.028	51.05
SDev	.000	.02	.0013	.001	.002	.002	.04
%RSD	.0020	.0399	.13264	.0634	.2363	.1675	.0742
#1	1.025	51.08	1.0159	1.032	1.030	1.029	51.08
#2	1.025	51.11	1.0179	1.031	1.033	1.027	51.02

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9716	.9836	.9812	1.027	49.50	34.11	49.97
SDev	.0027	.0015	.0012	.000	.01	.05	.03
%RSD	.2740	.1491	.1179	.0161	.0233	.1423	.0634
#1	.9698	.9825	.9804	1.027	49.50	34.08	49.95
#2	.9735	.9846	.9820	1.027	49.49	34.15	50.00

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9938	1.010	48.13	.9673	.90256	1.0515	1.014
SDev	.0004	.010	.04	.0018	.00195	.0041	.005
%RSD	.0422	.9620	.0824	.1873	.21576	.39397	.4446
#1	.9935	1.003	48.16	.9661	.90118	1.0544	1.011
#2	.9941	1.017	48.10	.9686	.90394	1.0486	1.018

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0146	1.0189	1.0025	1.0180	1.023	1.038	1.0120
SDev	.0044	.0058	.0021	.0053	.001	.001	.0051
%RSD	.43662	.56619	.21066	.52311	.1243	.1037	.50115
#1	1.0115	1.0148	1.0040	1.0142	1.024	1.037	1.0084
#2	1.0177	1.0229	1.0010	1.0218	1.022	1.039	1.0156

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.9865	.9833
SDev	.0003	.0010
%RSD	.0267	.0975
#1	.9863	.9840
#2	.9867	.9827

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14331	--	--	--	--	--	--
SDev	61.56870	--	--	--	--	--	--
%RSD	.4296135	--	--	--	--	--	--
#1	14375	--	--	--	--	--	--
#2	14288	--	--	--	--	--	--

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Method: SUBLIST Sample Name: CCB Operator: CO
Run Time: 01/31/07 17:36:28
Comment: CCB3/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	-.0218	.00448	.0002	.0005	.0012	.0500
SDev	.0005	.0119	.00541	.0010	.0003	.0000	.0079
%RSD	37.23	54.66	120.89	606.9	52.31	2.866	15.85
#1	.0017	-.0134	Q.00831	.0008	.0006	.0012	.0556
#2	.0010	-.0303	.00065	-.0005	.0003	.0012	.0444

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0008	.0005	.0012	.0325	.0145	.0246
SDev	.0003	.0001	.0002	.0001	.0066	.0085	.0114
%RSD	59.64	10.47	43.06	9.913	20.38	58.58	46.43
#1	.0007	.0009	.0006	.0013	.0372	.0205	.0326
#2	.0003	.0008	.0003	.0011	.0278	.0085	.0165

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	Q.0118	.0115	.0012	.00021	.00126	.0043
SDev	.0002	.0062	.0032	.0005	.00052	.00196	.0063
%RSD	36.35	52.30	27.38	41.14	252.57	154.94	145.9
#1	.0006	Q.0162	.0138	.0016	.00058	-.00012	.0088
#2	.0004	.0074	.0093	.0009	-.00016	.00265	-.0001

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00202	.00758	.00153	Q.00628	-.0006	.0006	.00316
SDev	.00256	.00285	.00113	.00105	.0027	.0003	.00332
%RSD	126.51	37.544	73.972	16.693	479.9	48.98	105.02
#1	.00021	.00960	.00073	Q.00702	.0014	.0007	Q.00550
#2	.00383	.00557	.00233	Q.00554	-.0025	.0004	.00081

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0002	.0004
SDev	.0002	.0008
%RSD	95.37	187.0
#1	.0003	.0010
#2	.0001	-.0001

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14570	--	--	--	--	--	--
SDev	28.42721	--	--	--	--	--	--
%RSD	.1951137	--	--	--	--	--	--
#1	14549	--	--	--	--	--	--
#2	14590	--	--	--	--	--	--

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Method: SUBLIST Sample Name: CCV Operator: CO
Run Time: 01/31/07 18:13:52
Comment: CCV4/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.039	51.70	1.0061	1.035	1.040	1.037	51.17
SDev	.003	.09	.0013	.000	.002	.002	.03
%RSD	.2557	.1722	.12685	.0139	.2066	.1921	.0535
#1	1.037	51.64	1.0071	1.035	1.038	1.035	51.15
#2	1.041	51.76	1.0052	1.035	1.041	1.038	51.19

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9566	.9735	.9611	1.020	50.07	34.21	49.44
SDev	.0012	.0025	.0010	.000	.09	.03	.03
%RSD	.1298	.2581	.1093	.0155	.1723	.0989	.0627
#1	.9575	.9752	.9618	1.020	50.01	34.19	49.46
#2	.9558	.9717	.9603	1.020	50.13	34.23	49.42

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9845	.9848	47.49	.9448	.89659	1.0366	1.008
SDev	.0002	.0009	.06	.0059	.00652	.0079	.008
%RSD	.0202	.0873	.1262	.6222	.72714	.76675	.7573
#1	.9846	.9854	47.53	.9489	.89198	1.0422	1.003
#2	.9844	.9842	47.45	.9406	.90120	1.0310	1.014

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0170	.99174	.99057	1.0007	1.020	1.032	1.0011
SDev	.0101	.00143	.00318	.0024	.001	.001	.0019
%RSD	.99420	.14398	.32090	.24144	.1371	.0932	.18799
#1	1.0099	.99275	.99282	.99902	1.019	1.032	.99980
#2	1.0242	.99073	.98833	1.0024	1.021	1.031	1.0025

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.9824	.9860
SDev	.0007	.0027
%RSD	.0734	.2687
#1	.9829	.9841
#2	.9819	.9879

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14136	--	--	--	--	--	--
SDev	38.56287	--	--	--	--	--	--
%RSD	.2727957	--	--	--	--	--	--
#1	14163	--	--	--	--	--	--
#2	14109	--	--	--	--	--	--

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Method: SUBLIST Sample Name: CCB Operator: CO
Run Time: 01/31/07 18:21:03
Comment: CCB4/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	-.0396	-.00175	-.0026	.0001	.0001	.0346
SDev	.0003	.0011	.00177	.0000	.0000	.0000	.0032
%RSD	57.81	2.688	101.00	1.232	.0599	16.06	9.198
#1	.0003	-.0404	-.00301	-.0026	.0001	.0001	.0369
#2	.0007	-.0389	-.00050	-.0026	.0001	.0002	.0324

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0005	.0016	.0014	.0139	-.0046	.0042
SDev	.0001	.0002	.0009	.0003	.0020	.0018	.0027
%RSD	31.41	46.56	58.55	25.01	14.13	38.44	63.33
#1	.0002	.0003	.0022	.0016	.0153	-.0059	.0061
#2	.0001	.0006	.0009	.0011	.0125	-.0034	.0023

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0031	-.0165	.0009	.00008	-.00103	.0026
SDev	.0000	.0004	.0059	.0002	.00085	.00029	.0018
%RSD	70.23	14.12	35.70	26.48	1024.9	28.407	69.43
#1	.0001	.0034	-.0207	.0007	-.00052	-.00082	.0038
#2	.0000	.0028	-.0124	.0010	.00068	-.00124	.0013

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00049	.00199	-.00003	.00205	-.0005	.0001	-.00157
SDev	.00106	.00335	.00009	.00188	.0002	.0000	.00062
%RSD	214.82	168.00	310.81	91.443	34.49	3.301	39.168
#1	-.00026	.00436	-.00009	.00338	-.0003	.0001	-.00114
#2	.00125	-.00037	.00003	.00073	-.0006	.0001	-.00201

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0001	-.0002
SDev	.0001	.0002
%RSD	71.15	109.7
#1	.0002	-.0000
#2	.0001	-.0003

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14244	--	--	--	--	--	--
SDev	21.45006	--	--	--	--	--	--
%RSD	.1505872	--	--	--	--	--	--
#1	14229	--	--	--	--	--	--
#2	14259	--	--	--	--	--	--

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Method: SUBLIST Sample Name: B013107ICPS03 Operator: CO
Run Time: 01/31/07 18:27:06
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	-.0375	.00088	-.0008	.0004	.0010	.0980
SDev	.0004	.0048	.00267	.0011	.0000	.0002	.0000
%RSD	48.19	12.83	303.59	131.8	4.123	19.40	.0440
#1	.0012	-.0341	-.00101	-.0001	.0004	.0009	.0980
#2	.0006	-.0409	.00277	-.0016	.0004	.0011	.0980

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	-.0006	.0009	.0018	.1094	.0257	.0062
SDev	.0001	.0002	.0005	.0001	.0097	.0063	.0031
%RSD	6.213	28.35	51.95	5.037	8.905	24.58	49.51
#1	.0008	-.0005	.0012	.0019	.1163	.0302	.0083
#2	.0007	-.0007	.0006	.0017	.1026	.0213	.0040

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	-.0021	1.043	.0005	.01497	.00098	.0078
SDev	.0000	.0015	.059	.0004	.00066	.00037	.0013
%RSD	5.859	72.92	5.701	79.34	4.4218	37.546	16.07
#1	.0006	-.0010	1.001	.0008	.01544	.00072	.0086
#2	.0005	-.0031	1.085	.0002	.01450	.00125	.0069

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01612	.00914	.00624	.00126	.0286	.0002	-.00937
SDev	.00244	.00010	.00002	.00074	.0009	.0000	.00147
%RSD	15.154	1.0993	.33530	58.653	3.116	6.896	15.689
#1	-.01784	.00921	.00623	.00074	.0292	.0002	-.00833
#2	-.01439	.00907	.00626	.00179	.0279	.0002	L-.01041

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0001	.0484
SDev	.0001	.0003
%RSD	76.17	.6474
#1	.0002	.0486
#2	.0001	.0482

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14954	--	--	--	--	--	--
SDev	124.6455	--	--	--	--	--	--
%RSD	.8334995	--	--	--	--	--	--
#1	14866	--	--	--	--	--	--
#2	15043	--	--	--	--	--	--

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Method: SUBLIST Sample Name: S013107ICPS03 Operator: CO
Run Time: 01/31/07 18:31:59
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0405	1.564	1.7632	.0224	1.907	.0454	.1341
SDev	.0005	.005	.0073	.0003	.001	.0001	.0002
%RSD	1.158	.3046	.41606	1.130	.0536	.2941	.1251
#1	.0401	1.567	1.7684	.0226	1.906	.0453	.1343
#2	.0408	1.560	1.7580	.0222	1.908	.0455	.1340

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0451	.4445	.1820	.2346	1.023	.0249	.0075
SDev	.0002	.0002	.0004	.0002	.019	.0023	.0003
%RSD	.4709	.0520	.2240	.0686	1.898	9.339	3.843
#1	.0449	.4444	.1817	.2347	1.036	.0233	.0077
#2	.0452	.4447	.1822	.2345	1.009	.0266	.0073

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4712	-.0029	.3535	.4444	.44396	.42558	.4377
SDev	.0000	.0004	.1066	.0005	.00257	.00449	.0034
%RSD	.0009	15.34	30.14	.1217	.57796	1.0552	.7767
#1	.4712	-.0033	.4288	.4448	.44215	.42875	.4401
#2	.4712	-.0026	.2781	.4440	.44578	.42240	.4353

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.5008	1.4847	.43251	1.4906	.0274	.0007	1.6637
SDev	.0045	.0070	.00215	.0062	.0024	.0000	.0117
%RSD	.30021	.46933	.49598	.41265	8.633	1.035	.70097
#1	1.5040	1.4896	.43403	1.4950	.0291	.0007	1.6554
#2	1.4977	1.4798	.43100	1.4863	.0257	.0008	1.6719

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.4696	.4793
SDev	.0008	.0010
%RSD	.1705	.2117
#1	.4702	.4786
#2	.4691	.4801

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14712	--	--	--	--	--	--
SDev	76.98418	--	--	--	--	--	--
%RSD	.5232687	--	--	--	--	--	--
#1	14658	--	--	--	--	--	--
#2	14767	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2003-001 5X1 Operator: CO
Run Time: 01/31/07 18:36:52
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	46.12	.02367	.0169	.2408	.0022	3.212
SDev	.0004	.02	.00272	.0004	.0007	.0001	.024
%RSD	160.1	.0348	11.477	2.108	.2734	5.726	.7318
#1	-.0005	46.11	.02559	.0167	.2413	.0022	3.195
#2	.0000	46.14	.02175	.0172	.2404	.0021	3.228

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	.0215	.0643	.0395	53.49	3.881	4.802
SDev	.0000	.0000	.0007	.0000	.29	.014	.016
%RSD	.1798	.1203	1.122	.1017	.5412	.3489	.3336
#1	-.0020	.0215	.0638	.0394	53.29	3.891	4.791
#2	-.0020	.0215	.0648	.0395	53.70	3.872	4.813

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7667	.0017	-.5107	.0441	-.03571	.11938	.0029
SDev	.0039	.0010	.0875	.0000	.00268	.00159	.0006
%RSD	.5036	59.59	17.13	.0210	7.4967	1.3330	19.94
#1	.7640	.0010	-.5726	.0441	-.03382	.11825	.0033
#2	.7694	.0024	-.4488	.0441	-.03761	.12050	.0025

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00425	.00799	.06842	.00729	.0080	.0388	.00023
SDev	.00242	.00026	.00017	.00098	.0007	.0001	.00125
%RSD	57.048	3.2899	.24945	13.483	9.325	.2912	532.47
#1	.00254	.00780	.06830	.00660	.0074	.0388	-.00065
#2	.00596	.00818	.06854	.00799	.0085	.0389	.00111

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.1003	.1088
SDev	.0007	.0006
%RSD	.6880	.5643
#1	.0998	.1084
#2	.1007	.1093

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14587	--	--	--	--	--	--
SDev	18.10235	--	--	--	--	--	--
%RSD	.1241026	--	--	--	--	--	--
#1	14599	--	--	--	--	--	--
#2	14574	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2003-001D 5X1 Operator: CO
Run Time: 01/31/07 18:41:46
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	50.07	.02327	.0217	.2564	.0023	3.358
SDev	.0002	.13	.00226	.0009	.0003	.0001	.007
%RSD	256.1	.2582	9.7121	4.106	.1333	4.223	.1976
#1	.0002	49.98	.02487	.0223	.2562	.0023	3.362
#2	-.0001	50.16	.02167	.0211	.2567	.0024	3.353

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	.0234	.0694	.0370	58.51	4.352	5.178
SDev	.0001	.0003	.0001	.0001	.05	.050	.000
%RSD	7.081	1.150	.1879	.1546	.0840	1.138	.0052
#1	-.0021	.0236	.0695	.0370	58.54	4.317	5.177
#2	-.0019	.0232	.0693	.0371	58.47	4.387	5.178

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9039	.0017	-.4760	.0469	-.05686	.10845	.0040
SDev	.0019	.0024	.0550	.0002	.00113	.00096	.0004
%RSD	.2065	145.3	11.55	.4148	1.9881	.88355	9.223
#1	.9053	-.0000	-.5149	.0467	-.05606	.10913	.0042
#2	.9026	.0034	-.4371	.0470	-.05766	.10777	.0037

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00565	.00726	.05409	.00727	.0084	.0426	-.00068
SDev	.00299	.00044	.00102	.00071	.0013	.0000	.00138
%RSD	53.015	6.0153	1.8826	9.7368	15.04	.0815	202.51
#1	.00776	.00695	.05481	.00777	.0075	.0426	-.00166
#2	.00353	.00757	.05337	.00677	.0093	.0426	.00029

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.1101	.1093
SDev	.0001	.0009
%RSD	.0759	.8413
#1	.1101	.1099
#2	.1102	.1086

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14582	--	--	--	--	--	--
SDev	58.12708	--	--	--	--	--	--
%RSD	.3986159	--	--	--	--	--	--
#1	14541	--	--	--	--	--	--
#2	14623	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2003-001MS 5X1 Operator: CO
Run Time: 01/31/07 18:46:40
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0075	47.22	.38766	.0189	.6333	.0117	3.311
SDev	.0000	.04	.00232	.0010	.0004	.0001	.002
%RSD	.5315	.0890	.59958	5.249	.0593	.8000	.0695
#1	.0075	47.25	.38931	.0196	.6330	.0118	3.309
#2	.0075	47.19	.38602	.0182	.6335	.0116	3.313

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0071	.1095	.0996	.0842	56.12	3.917	4.928
SDev	.0004	.0004	.0005	.0002	.05	.013	.000
%RSD	5.099	.4036	.5458	.2331	.0864	.3360	.0083
#1	.0074	.1092	.1000	.0841	56.09	3.927	4.929
#2	.0069	.1099	.0992	.0844	56.16	3.908	4.928

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8212	.0013	-.6953	.1341	.03955	.20470	.0481
SDev	.0001	.0004	.0686	.0002	.00038	.00073	.0018
%RSD	.0165	33.59	9.869	.1258	.97130	.35665	3.686
#1	.8211	.0016	-.6467	.1342	.03982	.20522	.0469
#2	.8213	.0010	-.7438	.1340	.03928	.20419	.0494

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.35032	.34382	.15053	.34653	.0054	.0397	.35383
SDev	.00408	.00291	.00061	.00330	.0016	.0001	.00286
%RSD	1.1658	.84765	.40828	.95347	29.78	.1196	.80975
#1	.34743	.34176	.15096	.34419	.0043	.0397	.35180
#2	.35321	.34588	.15009	.34887	.0066	.0396	.35586

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.1930	.1932
SDev	.0000	.0003
%RSD	.0155	.1404
#1	.1929	.1934
#2	.1930	.1930

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14614	--	--	--	--	--	--
SDev	5.657545	--	--	--	--	--	--
%RSD	.0387125	--	--	--	--	--	--
#1	14618	--	--	--	--	--	--
#2	14610	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2003-001L 5X1 Operator: CO
Run Time: 01/31/07 18:51:33
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	8.762	.00578	.0003	.0471	.0012	.6656
SDev	.0002	.013	.00049	.0001	.0001	.0001	.0013
%RSD	81.40	.1539	8.4671	20.54	.1120	9.643	.1957
#1	.0004	8.771	.00544	.0004	.0471	.0013	.6646
#2	.0001	8.752	.00613	.0003	.0470	.0011	.6665

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	.0044	.0140	.0076	10.55	.6138	.9440
SDev	.0002	.0008	.0009	.0002	.02	.0042	.0040
%RSD	54.31	17.65	6.761	3.192	.1900	.6864	.4206
#1	-.0002	.0039	.0147	.0075	10.54	.6168	.9412
#2	-.0005	.0050	.0134	.0078	10.57	.6108	.9469

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1525	.0013	-.1317	.0094	-.00632	.02315	.0006
SDev	.0003	.0004	.0027	.0002	.00092	.00221	.0001
%RSD	.1631	32.00	2.032	2.511	14.610	9.5610	24.69
#1	.1523	.0016	-.1299	.0096	-.00567	.02158	.0007
#2	.1527	.0010	-.1336	.0092	-.00698	.02471	.0005

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00096	.00258	.01399	.00257	.0000	.0076	.00397
SDev	.00028	.00171	.00117	.00105	.0007	.0000	.00502
%RSD	29.395	66.378	8.3711	40.958	9327.	.5450	126.48
#1	.00116	.00137	.01316	.00182	-.0005	.0076	.00751
#2	.00076	.00380	.01482	.00331	.0005	.0077	.00042

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0196	.0247
SDev	.0001	.0003
%RSD	.6411	1.388
#1	.0195	.0244
#2	.0197	.0249

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15190	--	--	--	--	--	--
SDev	63.97245	--	--	--	--	--	--
%RSD	.4211394	--	--	--	--	--	--
#1	15236	--	--	--	--	--	--
#2	15145	--	--	--	--	--	--

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Method: SUBLIST Sample Name: C2003-002 5X1 Operator: CO
Run Time: 01/31/07 19:01:20
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	38.42	.02540	.0135	.1899	.0024	2.444
SDev	.0003	.08	.00073	.0002	.0001	.0002	.000
%RSD	251.3	.1966	2.8578	1.284	.0398	7.310	.0176
#1	.0003	38.37	.02592	.0134	.1898	.0023	2.445
#2	-.0001	38.47	.02489	.0137	.1899	.0026	2.444

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0017	.0202	.0577	.1407	52.57	3.192	3.906
SDev	.0002	.0003	.0003	.0001	.01	.023	.004
%RSD	11.66	1.705	.5552	.0322	.0186	.7177	.1015
#1	-.0016	.0204	.0575	.1406	52.57	3.175	3.909
#2	-.0019	.0200	.0580	.1407	52.58	3.208	3.904

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7300	.0004	-.4474	.0403	.51675	.67468	.0091
SDev	.0000	.0003	.0735	.0012	.00114	.00266	.0030
%RSD	.0036	70.92	16.42	2.936	.22060	.39476	32.76
#1	.7300	.0002	-.4994	.0412	.51756	.67656	.0111
#2	.7300	.0006	-.3954	.0395	.51594	.67280	.0070

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00489	.00889	.62276	.00809	.0080	.0307	-.00226
SDev	.00215	.00205	.00216	.00208	.0036	.0001	.00126
%RSD	43.938	23.090	.34693	25.719	44.78	.2534	55.615
#1	.00337	.00744	.62428	.00662	.0105	.0307	-.00315
#2	.00641	.01035	.62123	.00956	.0055	.0308	-.00137

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0920	.1231
SDev	.0000	.0004
%RSD	.0346	.3551
#1	.0920	.1234
#2	.0920	.1228

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15023	--	--	--	--	--	--
SDev	101.0265	--	--	--	--	--	--
%RSD	.6724706	--	--	--	--	--	--
#1	14952	--	--	--	--	--	--
#2	15095	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2003-003 5X1 Operator: CO
Run Time: 01/31/07 19:06:14
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	33.19	.01885	.0153	.1697	.0024	2.297
SDev	.0002	.01	.00173	.0007	.0001	.0001	.004
%RSD	469.2	.0231	9.1591	4.324	.0871	2.054	.1881
#1	.0001	33.20	.02007	.0157	.1696	.0023	2.300
#2	-.0002	33.19	.01763	.0148	.1698	.0024	2.294

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0011	.0178	.0511	.0826	43.38	2.885	3.406
SDev	.0000	.0001	.0006	.0001	.10	.007	.001
%RSD	3.357	.3712	1.074	.1215	.2313	.2501	.0409
#1	-.0011	.0178	.0515	.0825	43.45	2.890	3.407
#2	-.0012	.0177	.0507	.0827	43.31	2.880	3.405

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7512	.0007	-.4346	.0342	.41711	.54442	.0033
SDev	.0009	.0004	.0051	.0005	.00214	.00400	.0022
%RSD	.1266	58.11	1.167	1.468	.51238	.73404	68.39
#1	.7519	.0004	-.4310	.0345	.41560	.54159	.0049
#2	.7506	.0010	-.4382	.0338	.41862	.54724	.0017

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00274	.00960	.50262	.00784	.0052	.0279	-.00231
SDev	.00369	.00008	.00338	.00118	.0008	.0001	.00016
%RSD	134.97	.85170	.67175	14.982	15.58	.2172	6.9916
#1	.00012	.00966	.50023	.00701	.0046	.0280	-.00220
#2	.00535	.00954	.50500	.00867	.0057	.0279	-.00242

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0791	.1129
SDev	.0001	.0001
%RSD	.1789	.1237
#1	.0790	.1128
#2	.0792	.1130

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15190	--	--	--	--	--	--
SDev	21.68553	--	--	--	--	--	--
%RSD	.1427654	--	--	--	--	--	--
#1	15174	--	--	--	--	--	--
#2	15205	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2003-004 5X1 Operator: CO
Run Time: 01/31/07 19:11:07
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	35.04	.02039	.0087	.1722	.0027	2.201
SDev	.0003	.05	.00272	.0008	.0000	.0001	.001
%RSD	344.7	.1500	13.330	9.103	.0070	2.903	.0610
#1	-.0001	35.08	.01847	.0093	.1722	.0026	2.200
#2	.0003	35.00	.02231	.0082	.1722	.0027	2.201

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0017	.0224	.0584	.0748	57.74	2.727	3.614
SDev	.0000	.0002	.0002	.0000	.12	.004	.005
%RSD	1.526	.8117	.4008	.0400	.2018	.1336	.1271
#1	-.0017	.0226	.0583	.0748	57.82	2.729	3.617
#2	-.0017	.0223	.0586	.0748	57.66	2.724	3.611

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9553	.0013	-.6853	.0389	.50344	.68523	.0061
SDev	.0004	.0020	.0156	.0007	.00135	.00192	.0014
%RSD	.0442	156.7	2.274	1.716	.26764	.27941	23.60
#1	.9550	-.0001	-.6743	.0394	.50440	.68658	.0071
#2	.9556	.0027	-.6963	.0384	.50249	.68387	.0051

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00791	.00833	.62534	.00871	.0052	.0278	-.00105
SDev	.00030	.00043	.00173	.00018	.0006	.0000	.00209
%RSD	3.8143	5.1192	.27623	2.0951	12.29	.0594	199.53
#1	.00813	.00803	.62656	.00858	.0056	.0278	-.00252
#2	.00770	.00863	.62412	.00884	.0047	.0278	.00043

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.0875	.1150
SDev	.0002	.0000
%RSD	.2159	.0335
#1	.0877	.1150
#2	.0874	.1149

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15388	--	--	--	--	--	--
SDev	40.40107	--	--	--	--	--	--
%RSD	.2625503	--	--	--	--	--	--
#1	15359	--	--	--	--	--	--
#2	15417	--	--	--	--	--	--

Method: SUBLIST Sample Name: CCV Operator: CO
Run Time: 01/31/07 19:19:27
Comment: CCV5/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.023	51.80	1.0108	1.034	1.060	1.026	50.15
SDev	.002	.05	.0056	.002	.003	.002	.02
%RSD	.2005	.0930	.55495	.2212	.2566	.1502	.0340
#1	1.021	51.83	1.0068	1.032	1.062	1.025	50.17
#2	1.024	51.76	1.0147	1.035	1.058	1.027	50.14

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9499	.9676	.9460	1.034	49.32	34.80	49.41
SDev	.0002	.0014	.0005	.001	.00	.15	.02
%RSD	.0221	.1409	.0518	.0523	.0035	.4363	.0403
#1	.9500	.9666	.9463	1.034	49.32	34.91	49.40
#2	.9497	.9686	.9456	1.033	49.33	34.69	49.43

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9771	1.001	47.71	.9440	.89453	1.0286	1.016
SDev	.0003	.011	.16	.0023	.00036	.0040	.012
%RSD	.0282	1.107	.3435	.2401	.03992	.39079	1.176
#1	.9769	.9929	47.82	.9456	.89428	1.0258	1.007
#2	.9773	1.009	47.59	.9424	.89479	1.0315	1.024

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0215	1.0032	.98458	1.0099	1.017	1.044	1.0153
SDev	.0022	.0073	.00285	.0056	.002	.001	.0010
%RSD	.21637	.72654	.28973	.55449	.2422	.0751	.10180
#1	1.0200	.99803	.98256	1.0059	1.015	1.044	1.0160
#2	1.0231	1.0083	.98659	1.0138	1.018	1.043	1.0145

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.9791	.9674
SDev	.0004	.0002
%RSD	.0438	.0165
#1	.9788	.9673
#2	.9794	.9675

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14082	--	--	--	--	--	--
SDev	53.88375	--	--	--	--	--	--
%RSD	.3826517	--	--	--	--	--	--
#1	14120	--	--	--	--	--	--
#2	14044	--	--	--	--	--	--

Method: SUBLIST Sample Name: CCB Operator: CO
Run Time: 01/31/07 19:26:37
Comment: CCB5/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	-.0194	.00011	-.0028	-.0000	-.0003	.0219
SDev	.0002	.0053	.00196	.0007	.0000	.0000	.0010
%RSD	81.84	27.41	1810.4	23.77	283.8	.3582	4.721
#1	.0001	-.0157	.00150	-.0032	-.0000	-.0003	.0212
#2	.0005	-.0232	-.00128	-.0023	.0000	-.0003	.0226

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0006	.0002	.0011	-.0019	-.0058	.0021
SDev	.0001	.0001	.0001	.0000	.0058	.0017	.0008
%RSD	84.74	13.70	35.71	1.961	307.9	28.39	37.75
#1	.0002	.0007	.0002	.0011	-.0060	-.0070	.0027
#2	.0001	.0006	.0001	.0011	.0022	-.0047	.0016

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0024	.0563	.0006	.00226	-.00105	.0015
SDev	.0000	.0003	.0412	.0009	.00070	.00087	.0008
%RSD	437.4	12.42	73.15	151.0	30.909	82.769	52.75
#1	-.0000	.0026	.0854	.0012	.00275	-.00166	.0021
#2	.0000	.0022	.0272	-.0000	.00176	-.00043	.0010

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00010	.00028	.00069	.00072	-.0028	.0000	.00289
SDev	.00150	.00388	.00034	.00209	.0036	.0000	.00142
%RSD	1435.0	1366.4	49.521	289.36	127.4	17.01	49.297
#1	.00095	-.00246	.00045	-.00075	-.0003	.0000	.00389
#2	-.00116	.00303	.00093	.00220	-.0053	.0000	.00188

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	-.0003	-.0003
SDev	.0002	.0005
%RSD	56.96	161.7
#1	-.0005	-.0007
#2	-.0002	.0000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14125	--	--	--	--	--	--
SDev	84.81000	--	--	--	--	--	--
%RSD	.6004160	--	--	--	--	--	--
#1	14065	--	--	--	--	--	--
#2	14185	--	--	--	--	--	--

Method: SUBLIST Sample Name: C2003-005 5X1 Operator: CO
Run Time: 01/31/07 19:33:48
Comment: 6010B/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	32.96	.02506	.0101	.1642	.0023	1.688
SDev	.0001	.12	.00017	.0008	.0006	.0000	.003
%RSD	14.10	.3613	.68428	7.874	.3936	.6277	.1674
#1	-.0005	33.05	.02494	.0106	.1646	.0023	1.686
#2	-.0004	32.88	.02518	.0095	.1637	.0023	1.690

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0028	.0252	.0670	.0307	80.34	2.161	3.655
SDev	.0001	.0003	.0002	.0000	.04	.013	.013
%RSD	1.919	1.198	.2981	.1408	.0543	.6240	.3484
#1	-.0028	.0250	.0668	.0307	80.31	2.171	3.646
#2	-.0027	.0254	.0671	.0306	80.37	2.152	3.664

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.155	-.0002	-.9595	.0401	-.12515	.14726	.0050
SDev	.004	.0017	.1289	.0009	.00081	.00070	.0016
%RSD	.3080	769.7	13.43	2.281	.64516	.47560	31.66
#1	1.152	-.0014	-.8684	.0394	-.12458	.14776	.0039
#2	1.157	.0010	-1.051	.0407	-.12572	.14677	.0061

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01123	.00795	.05723	.00959	.0058	.0260	-.00637
SDev	.00111	.00154	.00073	.00140	.0002	.0000	.00028
%RSD	9.8809	19.392	1.2821	14.602	4.134	.1003	4.3803
#1	.01045	.00686	.05775	.00860	.0060	.0260	-.00657
#2	.01202	.00904	.05671	.01058	.0057	.0260	-.00618

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.1137	.1236
SDev	.0002	.0006
%RSD	.1946	.4589
#1	.1135	.1232
#2	.1138	.1240

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14729	--	--	--	--	--	--
SDev	50.30126	--	--	--	--	--	--
%RSD	.3415186	--	--	--	--	--	--
#1	14764	--	--	--	--	--	--
#2	14693	--	--	--	--	--	--

Analysis Report QC Standard 01/31/07 07:50:43 PM page 1

Method: SUBLIST Sample Name: CCV Operator: CO
Run Time: 01/31/07 19:45:53
Comment: CCV6/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.045	52.06	1.0047	1.033	1.058	1.036	50.52
SDev	.002	.02	.0063	.003	.002	.001	.01
%RSD	.2025	.0347	.63144	.2725	.1426	.1027	.0189
#1	1.044	52.08	1.0002	1.031	1.059	1.035	50.51
#2	1.047	52.05	1.0092	1.035	1.057	1.036	50.53

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9297	.9566	.9660	1.023	49.96	34.62	48.85
SDev	.0025	.0011	.0002	.002	.02	.08	.01
%RSD	.2698	.1176	.0170	.2122	.0317	.2224	.0299
#1	.9315	.9558	.9659	1.025	49.95	34.68	48.83
#2	.9280	.9573	.9661	1.022	49.97	34.57	48.86

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9708	.9739	47.05	.9362	.88729	1.0171	1.007
SDev	.0004	.0092	.43	.0020	.00915	.0073	.004
%RSD	.0428	.9414	.9125	.2104	1.0315	.71621	.4008
#1	.9705	.9674	47.36	.9348	.88082	1.0119	1.004
#2	.9711	.9804	46.75	.9376	.89376	1.0222	1.009

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0145	.98273	.97458	.99390	1.012	1.031	.99618
SDev	.0038	.01001	.00811	.00793	.002	.001	.00044
%RSD	.37290	1.0181	.83235	.79839	.2439	.1389	.04369
#1	1.0119	.97565	.96884	.98829	1.010	1.032	.99649
#2	1.0172	.98980	.98031	.99951	1.014	1.030	.99588

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	.9760	.9689
SDev	.0006	.0004
%RSD	.0593	.0392
#1	.9764	.9691
#2	.9756	.9686

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13928	--	--	--	--	--	--
SDev	45.54002	--	--	--	--	--	--
%RSD	.3269620	--	--	--	--	--	--
#1	13960	--	--	--	--	--	--
#2	13896	--	--	--	--	--	--

Analysis Report QC Standard 01/31/07 07:57:55 PM page 1

Method: SUBLIST Sample Name: CCB Operator: CO
Run Time: 01/31/07 19:53:05
Comment: CCB6/61E(A)
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	-.0440	-.00219	-.0032	.0000	.0000	.0416
SDev	.0001	.0012	.00027	.0008	.0000	.0000	.0019
%RSD	37.00	2.639	12.497	23.89	279.5	282.8	4.561
#1	.0002	-.0448	-.00238	-.0027	-.0000	-.0000	.0429
#2	.0004	-.0432	-.00199	-.0038	.0000	.0000	.0402

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0004	.0016	.0017	.0030	-.0116	.0008
SDev	.0001	.0002	.0001	.0000	.0108	.0013	.0005
%RSD	70.94	54.61	3.810	1.278	356.4	11.20	65.45
#1	.0001	.0003	.0016	.0017	-.0046	-.0107	.0012
#2	.0000	.0006	.0015	.0017	.0107	-.0126	.0004

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0020	-.1453	.0020	.00058	-.00033	.0023
SDev	.0000	.0015	.0305	.0002	.00134	.00180	.0000
%RSD	19.91	74.07	20.98	9.621	231.95	552.78	1.186
#1	.0001	.0030	-.1669	.0022	.00153	-.00160	.0023
#2	.0001	.0009	-.1238	.0019	-.00037	.00095	.0023

Elem	1960/1	1960/2	Pb2203	Se1960	Sn1899	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00263	-.00139	.00061	.00051	-.0024	.0000	.00244
SDev	.00163	.00201	.00076	.00080	.0031	.0000	.00078
%RSD	62.168	144.33	123.89	155.92	128.1	84.84	32.107
#1	.00378	-.00281	.00008	-.00005	-.0047	.0000	.00188
#2	.00147	.00003	.00115	.00107	-.0002	.0000	.00299

Elem	V_2924	Zn2062
Units	ppm	ppm
Avge	-.0001	-.0004
SDev	.0000	.0001
%RSD	47.77	16.23
#1	-.0001	-.0004
#2	-.0001	-.0004

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14163	--	--	--	--	--	--
SDev	1.650376	--	--	--	--	--	--
%RSD	.0116526	--	--	--	--	--	--
#1	14164	--	--	--	--	--	--
#2	14162	--	--	--	--	--	--

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: Yttrium, 10000 ug/mL

Log Entry: ME-15-145-2
Received/Prepared Date: 09/08/2006
Expiration Date: 03/01/2008
Location:
Manufacturer's Exp. Date: 03/01/2008
Vendor: CPI
Catalog Number:
Lot Number: 06H010
Solvent:
Certificate Number: 4400-10M671
Notes:

2. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Yttrium	7440-65-5	10000 ug/mL	-

FORM LTL-SS-3.0

MET - 102

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: TRACE PROFILE SOLUTION (5 ppm As)

Log Entry: ME-15-153-6 **Received/Prepared Date:** 01/18/2007 **Expiration Date:** 03/01/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
TRACE PROFILE SOLUTION (5 ppm As) ME-15-153-6 (ORIGINAL)				
Arsenic 1000 ul	**ME-15-150-7**	11/16/2006	12/01/2007	12/01/2007
Yttrium, 10000 ug/mL 100 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.

FORM LTL-SS-3.0

MET - 103

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: ICB/CCB Trace

Log Entry: ME-15-155-3 **Received/Prepared Date:** 01/31/2007 **Expiration Date:** 02/01/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 500 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
ICB/CCB Trace ME-15-155-3 (ORIGINAL)				
Yttrium, 10000 ug/mL 0.25 mL	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Yttrium	7440-65-5	-	5.00 mg/L

FORM LTL-SS-3.0

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: Cal Std. S Trace

Log Entry: ME-15-154-15 **Received/Prepared Date:** 01/25/2007 **Expiration Date:** 06/12/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 100 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
Cal Std. S Trace ME-15-154-15 (ORIGINAL)				
QC Standard 21 5 mL	**ME-15-122-8**	12/16/2005	06/12/2007	06/12/2007
Quality Control Standard 7 1 mL	**ME-15-138-12**	06/21/2006	12/15/2007	12/15/2007
Sodium 100 ul	**ME-15-129-6**	02/22/2006	08/17/2007	08/17/2007
Tin, 1000 ppm 100 ul	**ME-15-151-3**	12/01/2006	05/16/2008	05/16/2008
Yttrium, 10000 ug/mL 50 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.

FORM LTL-SS-3.0

MET - 105

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: Cal Std S1 Trace

Log Entry: ME-15-151-7 Received/Prepared Date: 12/05/2006 Expiration Date: 03/07/2007

Location: Manufacturer's Exp. Date:

Prepared By: Wen-chun Kao Final Volume: 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
Cal Std S1 Trace ME-15-151-7 (ORIGINAL)				
Aluminum 1 mL	ME-15-134-13	09/15/2006	10/05/2007	10/05/2007
Calcium 1 mL	ME-15-129-7	02/22/2006	08/17/2007	08/17/2007
Iron (10,000 mg/L) 0.4 mL	ME-15-138-11	06/21/2006	12/15/2007	12/15/2007
Magnesium (10000 ppm) 1 mL	ME-15-150-6	11/16/2006	12/01/2007	12/01/2007
Potassium (10,000 ug/mL) 2 mL	ME-15-116-6	10/14/2005	03/07/2007	03/07/2007
Sodium 2 mL	ME-15-129-6	02/22/2006	08/17/2007	08/17/2007
Yttrium, 10000 ug/mL 100 ul	ME-15-145-2	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	50.0 mg/L
Calcium	7440-70-2	-	50.0 mg/L
Iron	7439-89-6	-	20.0 mg/L
Magnesium	7439-95-4	-	50.0 mg/L
Potassium	7440-09-7	-	100 mg/L
Sodium	7440-23-5	-	100 mg/L
Yttrium	7440-65-5	-	5.00 mg/L

FORM LTL-SS-3.0

MET - 106

Laucks Testing Laboratories, Inc. 1908

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: Cal Std S2 Trace

Log Entry: ME-15-154-19 **Received/Prepared Date:** 01/27/2007 **Expiration Date:** 08/17/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Eric Frank **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
Cal Std S2 Trace ME-15-154-19 (ORIGINAL)				
Aluminum 5 mL	ME-15-134-13	09/15/2006	10/05/2007	10/05/2007
Calcium 5 mL	ME-15-129-7	02/22/2006	08/17/2007	08/17/2007
Iron (10,000 mg/L) 2 mL	ME-15-138-11	06/21/2006	12/15/2007	12/15/2007
Magnesium (10000 ppm) 5 mL	ME-15-150-6	11/16/2006	12/01/2007	12/01/2007
Potassium 10,000 1 mL	ME-15-153-12	01/18/2007	07/16/2008	07/16/2008
Sodium 1 mL	ME-15-129-6	02/22/2006	08/17/2007	08/17/2007

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	250 mg/L
Calcium	7440-70-2	-	250 mg/L
Iron	7439-89-6	-	100 mg/L
Magnesium	7439-95-4	-	250 mg/L
Potassium	7440-09-7	-	50.0 mg/L
Sodium	7440-23-5	-	50.0 mg/L

FORM LTL-SS-3.0

MET - 107

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: Cal Std S3 Trace

Log Entry: ME-15-154-18 **Received/Prepared Date:** 01/26/2007 **Expiration Date:** 03/07/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
Cal Std S3 Trace ME-15-154-18 (ORIGINAL)				
Aluminum 3 mL	**ME-15-134-13**	09/15/2006	10/05/2007	10/05/2007
Calcium 3 mL	**ME-15-129-7**	02/22/2006	08/17/2007	08/17/2007
Iron (10,000 mg/L) 1.2 mL	**ME-15-138-11**	06/21/2006	12/15/2007	12/15/2007
Magnesium (10000 ppm) 3 mL	**ME-15-150-6**	11/16/2006	12/01/2007	12/01/2007
Potassium 10,000 100 ul	**ME-15-153-12**	01/18/2007	07/16/2008	07/16/2008
Sodium 500 ul	**ME-15-129-6**	02/22/2006	08/17/2007	08/17/2007
Yttrium, 10000 ug/mL 100 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	150 mg/L
Calcium	7440-70-2	-	150 mg/L
Iron	7439-89-6	-	60.0 mg/L
Magnesium	7439-95-4	-	150 mg/L
Potassium	7440-09-7	-	5.00 mg/L
Sodium	7440-23-5	-	25.0 mg/L
Yttrium	7440-65-5	-	5.00 mg/L

FORM LTL-SS-3.0

MET - 108

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: Cal Std S4 Trace

Log Entry: ME-15-154-17 **Received/Prepared Date:** 01/26/2007 **Expiration Date:** 03/07/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 100 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
Cal Std S4 Trace ME-15-154-17 (ORIGINAL)				
Potassium 10,000 100 ul	**ME-15-153-12**	01/18/2007	07/16/2008	07/16/2008
Sodium 100 ul	**ME-15-129-6**	02/22/2006	08/17/2007	08/17/2007
Yttrium, 10000 ug/mL 50 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Potassium	7440-09-7	-	10.0 mg/L
Sodium	7440-23-5	-	10.0 mg/L
Yttrium	7440-65-5	-	5.00 mg/L

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MET - 109

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: ICV TRACE

Log Entry: ME-15-153-17 **Received/Prepared Date:** 01/19/2007 **Expiration Date:** 02/22/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
ICV TRACE ME-15-153-17 (ORIGINAL)				
Antimony 200 ul	**ME-15-148-8**	10/20/2006	04/18/2008	04/18/2008
Arsenic 200 ul	**ME-15-150-7**	11/16/2006	12/01/2007	12/01/2007
Barium 200 ul	**ME-15-145-1**	09/08/2006	03/01/2008	03/01/2008
Beryllium 200 ul	**ME-15-153-7**	01/18/2007	07/16/2008	07/16/2008
Boron 200 ul	**ME-15-153-8**	01/18/2007	07/16/2008	07/16/2008
Cadmium 200 ul	**ME-15-144-15**	09/08/2006	03/01/2008	03/01/2008
Chromium 200 ul	**ME-15-153-10**	01/18/2007	07/16/2008	07/16/2008
CLPP-ICS-A 2000 ul	**ME-15-150-2**	11/14/2006	12/01/2007	12/01/2007
Cobalt 200 ul	**ME-15-129-10**	02/22/2006	08/17/2007	08/17/2007
Copper 200 ul	**ME-15-144-13**	09/08/2006	03/01/2008	03/01/2008
Lead 200 ul	**ME-15-129-9**	02/22/2006	08/17/2007	08/17/2007
Manganese 200 ul	**ME-15-153-9**	01/18/2007	07/16/2008	07/16/2008
Molybdenum (1000 ppm) 200 ul	**ME-15-76-3**	10/04/2004	09/30/2007	09/30/2007
Nickel 200 ul	**ME-15-144-14**	09/08/2006	03/01/2008	03/01/2008
Potassium, 1000ppm 5000 ul	**ME-15-139-19**	06/29/2006	12/26/2007	12/26/2007
Selenium 200 ul	**ME-15-125-19**	01/17/2006	07/11/2007	07/11/2007
Silver 25 ul	**ME-15-135-19**	05/08/2006	11/04/2007	11/04/2007
Sodium 10 mL	**ME-15-134-12**	04/12/2006	10/05/2007	10/05/2007
Strontium 200 ul	**ME-15-129-11**	02/22/2006	08/17/2007	08/17/2007
Thallium (1000 mg/L) 200 ul	**ME-15-138-8**	06/23/2006	12/15/2007	12/15/2007
Tin 200 ul	**ME-15-113-2**	08/30/2005	02/22/2007	02/22/2007
Vanadium (1000 mg/L) 200 ul	**ME-15-138-9**	06/21/2006	12/15/2007	12/15/2007
Yttrium, 10000 ug/mL 100 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008
Zinc (1000 mg/L) 200 ul	**ME-15-138-10**	06/21/2006	12/15/2007	12/15/2007

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	50.0 mg/L
Antimony	7440-36-0	-	1.00 mg/L
Arsenic	7440-38-2	-	1.00 mg/L

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Barium	7440-39-3	-	1.00 mg/L
Beryllium	7440-41-7	-	1.00 mg/L
Boron	7440-42-8	-	1.00 mg/L
Cadmium	7440-43-9	-	1.00 mg/L
Calcium	7440-70-2	-	50.0 mg/L
Chromium	7440-47-3	-	1.00 mg/L
Cobalt	7440-48-4	-	1.00 mg/L
Copper	7440-50-8	-	1.00 mg/L
Iron	7439-89-6	-	20.0 mg/L
Lead	7439-92-1	-	1.00 mg/L
Magnesium	7439-95-4	-	50.0 mg/L
Manganese	7439-96-5	-	1.00 mg/L
Molybdenum	7439-98-7	-	1.00 mg/L
Nickel	7440-02-0	-	1.00 mg/L
Potassium	7440-09-7	-	25.0 mg/L
Selenium	7782-49-2	-	1.00 mg/L
Silver	7440-22-4	-	0.125 mg/L
Sodium	7440-23-5	-	50.0 mg/L
Strontium	7440-24-6	-	1.00 mg/L
Thallium	7440-28-0	-	1.00 mg/L
Tin	7440-31-5	-	1.00 mg/L
Vanadium	7440-62-2	-	1.00 mg/L
Yttrium	7440-65-5	-	5.00 mg/L
Zinc	7440-66-6	-	1.00 mg/L

FORM LTL-SS-3.0

MET - 111

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: CRDL TRACE

Log Entry: ME-15-154-13 **Received/Prepared Date:** 01/24/2007 **Expiration Date:** 07/11/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
CRDL TRACE ME-15-154-13 (ORIGINAL)				
Barium CRDL SD Stock 400 ul	**ME-15-148-16**	10/26/2006	03/01/2008	
Barium 100 ul	**ME-15-145-1**	09/08/2006	03/01/2008	03/01/2008
Boron 20 ul	**ME-15-153-8**	01/18/2007	07/16/2008	07/16/2008
CRDL Stock Std 100 ul	**ME-15-138-13**	06/21/2006	12/15/2007	12/15/2007
Lead CRDL SD Stock 100 ul	**ME-15-139-6**	06/26/2006	08/17/2007	
Lead 100 ul	**ME-15-129-9**	02/22/2006	08/17/2007	08/17/2007
Molybdenum CRDL SD Stock 200 ul	**ME-15-124-5**	12/29/2005	09/30/2007	
Molybdenum (1000 ppm) 100 ul	**ME-15-76-3**	10/04/2004	09/30/2007	09/30/2007
Selenium CRDL SD Stock 100 ul	**ME-15-139-7**	06/26/2006	07/11/2007	
Selenium 100 ul	**ME-15-125-19**	01/17/2006	07/11/2007	07/11/2007
Yttrium, 10000 ug/mL 100 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.

FORM LTL-SS-3.0

MET - 112

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: ICSA TRACE

Log Entry: ME-15-152-18 Received/Prepared Date: 01/08/2007 Expiration Date: 12/01/2007

Location: Manufacturer's Exp. Date:

Prepared By: Wen-chun Kao Final Volume: 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
ICSA TRACE ME-15-152-18 (ORIGINAL)				
CLPP-ICS-A 20 mL	ME-15-150-2	11/14/2006	12/01/2007	12/01/2007
Yttrium, 10000 ug/mL 100 ul	ME-15-145-2	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	0.500 mg/L
Calcium	7440-70-2	-	0.500 mg/L
Iron	7439-89-6	-	0.200 mg/L
Magnesium	7439-95-4	-	0.500 mg/L
Yttrium	7440-65-5	-	5.00 mg/L

FORM LTL-SS-3.0

MET - 113

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: ICSAB TRACE

Log Entry: ME-15-154-6 **Received/Prepared Date:** 01/19/2007 **Expiration Date:** 03/27/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
ICSAB TRACE ME-15-154-6 (ORIGINAL)				
CLPP-ICS-A 20 mL	**ME-15-150-2**	11/14/2006	12/01/2007	12/01/2007
CLPP-ICS-B4 2 mL	**ME-15-154-8**	01/19/2007	03/27/2007	
Antimony 3000 ul	**ME-15-148-8**	10/20/2006	04/18/2008	04/18/2008
Arsenic 500 ul	**ME-15-150-7**	11/16/2006	12/01/2007	12/01/2007
Barium 2500 ul	**ME-15-145-1**	09/08/2006	03/01/2008	03/01/2008
Beryllium 2500 ul	**ME-15-153-7**	01/18/2007	07/16/2008	07/16/2008
Cadmium 5000 ul	**ME-15-144-15**	09/08/2006	03/01/2008	03/01/2008
Chromium 2500 ul	**ME-15-153-10**	01/18/2007	07/16/2008	07/16/2008
Cobalt 2500 ul	**ME-15-129-10**	02/22/2006	08/17/2007	08/17/2007
Copper 2500 ul	**ME-15-144-13**	09/08/2006	03/01/2008	03/01/2008
Lead 250 ul	**ME-15-129-9**	02/22/2006	08/17/2007	08/17/2007
Manganese 2500 ul	**ME-15-153-9**	01/18/2007	07/16/2008	07/16/2008
Molybdenum (1000 ppm) 1000 ul	**ME-15-76-3**	10/04/2004	09/30/2007	09/30/2007
Nickel 5000 ul	**ME-15-144-14**	09/08/2006	03/01/2008	03/01/2008
Selenium 250 ul	**ME-15-125-19**	01/17/2006	07/11/2007	07/11/2007
Silver 1000 ul	**ME-15-135-19**	05/08/2006	11/04/2007	11/04/2007
Thallium (1000 mg/L) 500 ul	**ME-15-138-8**	06/23/2006	12/15/2007	12/15/2007
Vanadium (1000 mg/L) 2500 ul	**ME-15-138-9**	06/21/2006	12/15/2007	12/15/2007
Zinc (1000 mg/L) 5000 ul	**ME-15-138-10**	06/21/2006	12/15/2007	12/15/2007
Yttrium, 10000 ug/mL 100 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	500 mg/L
Antimony	7440-36-0	-	0.600 mg/L
Arsenic	7440-38-2	-	0.100 mg/L
Barium	7440-39-3	-	0.500 mg/L
Beryllium	7440-41-7	-	0.500 mg/L
Cadmium	7440-43-9	-	1.00 mg/L
Calcium	7440-70-2	-	500 mg/L
Chromium	7440-47-3	-	0.500 mg/L
Cobalt	7440-48-4	-	0.500 mg/L
Copper	7440-50-8	-	0.500 mg/L

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Iron	7439-89-6	-	200 mg/L
Lead	7439-92-1	-	0.0500 mg/L
Magnesium	7439-95-4	-	500 mg/L
Manganese	7439-96-5	-	0.500 mg/L
Molybdenum	7439-98-7	-	0.200 mg/L
Nickel	7440-02-0	-	1.00 mg/L
Selenium	7782-49-2	-	0.0500 mg/L
Silver	7440-22-4	-	0.200 mg/L
Thallium	7440-28-0	-	0.100 mg/L
Vanadium	7440-62-2	-	0.500 mg/L
Yttrium	7440-65-5	-	5.00 mg/L
Zinc	7440-66-6	-	1.00 mg/L

FORM LTL-SS-3.0

MET - 115

Laucks 1908
Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: CCV TRACE

Log Entry: ME-15-155-2 **Received/Prepared Date:** 01/29/2007 **Expiration Date:** 03/07/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Wen-chun Kao **Final Volume:** 400 mL

Solvent: Deionized Water (LTL DIWater with 5% HCl/1% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
CCV TRACE ME-15-155-2 (ORIGINAL)				
Aluminum 2 mL	**ME-15-134-13**	09/15/2006	10/05/2007	10/05/2007
Calcium 2 mL	**ME-15-129-7**	02/22/2006	08/17/2007	08/17/2007
Iron (10,000 mg/L) 2 mL	**ME-15-138-11**	06/21/2006	12/15/2007	12/15/2007
Magnesium (10000 ppm) 2 mL	**ME-15-150-6**	11/16/2006	12/01/2007	12/01/2007
Potassium 10,000 1 mL	**ME-15-153-12**	01/18/2007	07/16/2008	07/16/2008
QC Standard 21 4 mL	**ME-15-122-8**	12/16/2005	06/12/2007	06/12/2007
Quality Control Standard 7 4 mL	**ME-15-138-12**	06/21/2006	12/15/2007	12/15/2007
Sodium 2 mL	**ME-15-129-6**	02/22/2006	08/17/2007	08/17/2007
Tin, 1000 ppm 0.4 mL	**ME-15-151-3**	12/01/2006	05/16/2008	05/16/2008
Yttrium, 10000 ug/mL 200 ul	**ME-15-145-2**	09/08/2006	03/01/2008	03/01/2008

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	51.0 mg/L
Antimony	7440-36-0	-	1.00 mg/L
Arsenic	7440-38-2	-	1.00 mg/L
Barium	7440-39-3	-	1.00 mg/L
Beryllium	7440-41-7	-	1.00 mg/L
Boron	7440-42-8	-	1.00 mg/L
Cadmium	7440-43-9	-	1.00 mg/L
Calcium	7440-70-2	-	51.0 mg/L
Chromium	7440-47-3	-	1.00 mg/L
Cobalt	7440-48-4	-	1.00 mg/L
Copper	7440-50-8	-	1.00 mg/L
Iron	7439-89-6	-	51.0 mg/L
Lead	7439-92-1	-	1.00 mg/L
Magnesium	7439-95-4	-	51.0 mg/L
Manganese	7439-96-5	-	1.00 mg/L
Molybdenum	7439-98-7	-	1.00 mg/L
Nickel	7440-02-0	-	1.00 mg/L
Potassium	7440-09-7	-	35.0 mg/L
Selenium	7782-49-2	-	1.00 mg/L
Silver	7440-22-4	-	1.00 mg/L
Sodium	7440-23-5	-	51.0 mg/L
Strontium	7440-24-6	-	1.00 mg/L
Thallium	7440-28-0	-	1.00 mg/L
Tin	7440-31-5	-	1.00 mg/L
Vanadium	7440-62-2	-	1.00 mg/L

MET - 116

Yttrium	7440-65-5	-	5.00 mg/L
Zinc	7440-66-6	-	1.00 mg/L

FORM LTL-SS-3.0

MET - 117

DAILY MICROPIPETTE CALIBRATION REPORT

Laucks Testing Laboratories, INC. - Seattle, WA

Micropipette passes if between 98-102% of True Value

Pipette #	Date	Analyst	Grams H_2O	% of T.V.	Temp H_2O	Comment
M1957A	1/31/07	WM	0.0100	100.0	15°	
M1958A			0.0200	100.0		
050-8			0.0502	100.4		
100-10			0.1007	100.7		
250-7			0.2030	101.5		
M1524A			0.2536	101.4		
500-12			0.5008	100.2		
1000-20			1.0007	100.1		
010-4	1/31/07	RE	0.0099	99	15°C	
025-10			0.0246	98.4		
050-10			0.0500	100		
100-13			0.0985	98.5		
250-9			0.2517	100.68		
500-14			0.5041	100.82		
1000-22	1/31/07		0.9919	99.19		
IC-20.5	2/1/07	M	0.0202	101.	15°C	
050-11			0.0507	101.4		
~~200-4~~ 100-6 M 2/1/07			0.1008	100.8		
200.4			0.1998	99.9		
500.6-AA			0.5053	101.06		
1000-9			1.0080	100.8		
IC1000-24	2/1/07	MM	1.0131	101.31	17°C	
500-15			0.4970	99.40		
250-10			0.2498	99.92		
100-12			0.1012	101.2		
050-12			0.497	99.4		
025-9			0.0250	100.0		
010-12			0.0100	100.0		

PL 2/1/07

Digestion and Distillation Logs

P015150

LAUCKS TESTING LABORATORIES, INC.			ICP DIGESTION LOG	Place a √ in the box next to the method performed.		
	Digest start : date/time		Digest finish : date/time	SW-846 3005A		ILM0_._-water
SDG #: C2503	1/31/07	1110	1/31/07	SW-846 3010A		ILM0_._-soil
Analyst: LWH			15150	SW-846 3050B	X	SW-846 3050BM

	Sample ID	Sample Size (g:mL)	Final Volume (mL)	Color Bef	Color Aft	Clarity Bef	Clarity Aft	Text	Art	Comments	Bottle #
01	B013107ICP503	1.0	100	–	11			–			–
02	S013107ICP503	↓	↓	–	↓			–			–
03	C2503-001	1.41	↓	8	3			M			001
04	IDup	1.41	↓	↓	↓			↓			↓
05	MS	1.40	↓	↓	↓			↓			↓
06	2	1.28	↓	↓	↓			↓			↓
07	3	1.10	↓	↓	↓			↓			↓
08	4	1.33	↓	↓	↓			↓			↓
09	5	1.24	↓	↓	↓			↓			↓
10											
11											
12											
13											
14											
15											
16											
17					LWH						
18					1/31/07						
19											
20											
21											
22											
23											
24											

Chain of Custody	Digest Relinquished Date / Time : Analyst	Digest Accepted Analyst	Digest Disposed Date	Hot Plate Temperature, °C
	01/31/07 1100 [illegible]	CO 1/31/07		

Reagents Lot Number	HNO_3	HCl	H_2O_2
	460257	460194	9525 35 4/5

Color 1=Red, 2=Blue, 3=Yellow, 4=Green, 5=Orange, 6=Violet, 7=White, 8=Brown, 9=Grey, 10=Black, 11=Colorless
Clarity 1=Clear, 2=Cloudy, 3=Opaque
P:\metals\bnchshee\icpdig.doc
Texture F=Fine (powdery), M=Medium (sandy), C=Coarse (rocky) Artifacts: If "Yes", give description in the comments field.

P:\metals\bnchshee\icpdig.doc **Spike solutions:** spike witness:

1ml CCP MC-15-152-19.

Laucks Testing Laboratories, Inc.

STANDARD SOLUTION DATA SHEET

1. STANDARD INFORMATION

Name: CLP-Spike

Log Entry: ME-15-152-19 **Received/Prepared Date:** 01/09/2007 **Expiration Date:** 04/30/2007

Location: **Manufacturer's Exp. Date:**

Prepared By: Eric Frank **Final Volume:** 200 mL

Solvent: Deionized Water (LTL DIWater with 5% HNO3)

Notes:

2. COMPOSITION - STANDARDS

SOLUTION	LOG ENTRY	CREATED/RECV'D.	EXP.	MANU EXP.
CLP-Spike ME-15-152-19 (ORIGINAL)				
CLPP-SPK-1 20 mL	**ME-15-138-16**	06/23/2006	07/01/2007	07/01/2007
CLPP-SPK-2 20 mL	**ME-15-138-17**	06/23/2006	07/01/2007	07/01/2007
CLPP-SPK-3 20 mL	**ME-15-138-18**	06/23/2006	07/01/2007	07/01/2007

3. COMPOSITION - ANALYTES

CHEMICAL	CAS #	STOCK CONC.	FINAL CONC.
Aluminum	7429-90-5	-	200000 ug/L
Antimony	7440-36-0	-	50000 ug/L
Arsenic	7440-38-2	-	200000 ug/L
Barium	7440-39-3	-	200000 ug/L
Beryllium	7440-41-7	-	5000 ug/L
Cadmium	7440-43-9	-	5000 ug/L
Chromium	7440-47-3	-	20000 ug/L
Cobalt	7440-48-4	-	50000 ug/L
Copper	7440-50-8	-	25000 ug/L
Iron	7439-89-6	-	100000 ug/L
Lead	7439-92-1	-	50000 ug/L
Manganese	7439-96-5	-	50000 ug/L
Nickel	7440-02-0	-	50000 ug/L
Selenium	7782-49-2	-	200000 ug/L
Silver	7440-22-4	-	5000 ug/L
Thallium	7440-28-0	-	200000 ug/L
Vanadium	7440-62-2	-	50000 ug/L
Zinc	7440-66-6	-	50000 ug/L

FORM LTL-SS-3.0

MET - 121

DAILY MICROPIPET CALIBRATION REPORT

Laucks Testing Laboratories, Inc. - Seattle, WA

Micropipet passes if between 98-102% of T.V.

PIPETTE #	DATE	ANALYST	GRAMS OF WATER	% OF T.V.	COMMENT
025-8	01-27-07	ELF	0.0250	100.0	17°
050-9			0.0505	101.0	
250-6AA			0.2518	100.7	
500-8			0.5058	101.0	
1000-21			1.0031	100.3	
5000			5.0061	100.1	
025-8	1-29-07	WM	0.0250	100.0	18°
050-9			0.0502	100.4	
250-6AA			0.2507	100.3	
500-8			0.5013	100.3	
1000-21			1.0120	101.2	
5000			5.0220	100.4	
025-8	1-30-07	ELF	0.0251	100.4	18°
050-9			0.0503	100.6	
250-6AA			0.2512	100.4	
500-8			0.5011	100.2	
1000-21			1.0036	100.3	
5000			5.0210	100.4	
025-8	1-31-07	WM	0.0250	100.0	17°
050-9			0.0503	100.6	
250-6AA			0.2497	99.9	
500-8			0.5031	100.6	
1000-21			1.0020	100.1	
5000			5.0180	100.4	

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APPENDIX E

WASTE MANIFESTS AND WEIGH TICKETS

WASTE MANAGEMENT

368505

Lawrence County Regional Landfill
RT 2 BOX 891
SUMNER, IL, 62466
Ph: 618-936-9035

Original
Ticket# 6588

Customer Name IN ASSOCIATES IN ASSOCIATES
Ticket Date 01/23/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest ug205867
Destination
PO 5291
Profile UG205867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTOFANDV US DEPT OF NO97

Carrier JeffGuisewite Jeff Guisewite
Vehicle# 10
Container
Driver
Check#
Billing # 0000233
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound			
In	01/23/2007 10:51:10	MAN WEIGHT	vdp	Gross	65680	lb	
Out	01/23/2007 10:51:33	MAN WEIGHT	vdp	Tare	32520	lb	
				Net	33160	lb	
				Tons		16.58	

Comments crew

#10

Product	LOT	Qty	UOM	Rate	Tax	Amount	Origin
250-DECLASSIFIED W 1MO		16.58	Tons				MARTIN 51

Total Tax
Total Ticket

403WM-N

Driver Signature

WASTE MANAGEMENT

368524

Lawrence County Regional Landfill
RT 3 BOX 891
SUMNER, IL, 62466
Ph: 618-936-9035

Original
Ticket# 6608

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/23/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest ug285867
Destination
PO 5391
Profile UG285867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTOFNAVY US DEPT OF NAVY

Carrier JeffGuisewite Jeff Guisewite
Vehicle# 6
Volume
Container
Driver
Check#
Billing # 0000233
Gen EPA ID

	Time	Scale	Operator				
In	01/23/2007 16:17:55	Scale	vdp	Inbound	Gross	55380	lb
Out	01/23/2007 16:36:18	Scale	vdp		Tare	28000	lb
					Net	27380	lb
					Tons	13.69	

6

Comments crane

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 260-DECLASSIFIED W	100	13.69	Tons				MARTIN-51

Total Tax
Total Ticket

403WM-N
Driver's Signature

3

WASTE MANAGEMENT

368525

Lawrence County Regional Landfil
RT 3 BOX 891
SUMNER, IL, 62466
Ph: 618-936-9035

Original
Ticket# 6607

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/23/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest UG285867
Destination
PO 5391
Profile UG285867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTOFNAVY US DEPT OF NAVY

Carrier JeffG
Vehicle# 9
Container
Driver
Check#
Billing # 0000233
Gen EPA ID

Guisewite
Volume

	Time	Scale	Operator	Inbound			
In	01/23/2007 16:16:45	MANUAL WT	vdp		Gross	73420	lb
Out	01/23/2007 16:42:33	Scale	vdp		Tare	30060	lb
					Net	43360	lb
					Tons	21.68	

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	PCO-DECLASSIFIED W 100		21.68	Tons				VERMILLION

Total Tax
Total Ticket

403WM-N

Driver's Signature

2

WASTE MANAGEMENT

368528

12

Lawrence County Regional Landfill
RT 3 BOX 891
SUMNER, IL, 62466
Ph: 618-936-9035

Original
Ticket# 8611

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/24/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest ug285867
Destination
PO 5391
Profile UG285867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTOFNAVY US DEPT OF NAVY

Carrier JeffGuisewite Jeff Guisewite
Vehicle# 12
Volume
Container
Driver
Check#
Billing # 0000233
Gen EPA ID

	Time	Scale	Operator	Inbound			
In	01/24/2007 07:58:57	Scale	vdp		Gross	52220	lb
Out	01/24/2007 07:58:57		vdp		Tare	31800	lb
					Net	30420	lb
					Tons	15.21	

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	260-DECLASSIFIED W 100		15.21	Tons				MARTIN-51

Crane Naval Base

Total Tax
Total Ticket

Driver's Signature

403WM-N

WASTE MANAGEMENT

368538

Lawrence County Regional Landfill
RT 2 BOX 891
SUMNER, IL, 62466
Ph: 618-936-9035

Original
Ticket# 6621

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/24/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest ug285867
Destination
PO 5391
Profile UG285867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTOFNAVY US DEPT OF NAVY

Carrier JeffGuisewite Jeff Guisewite
Vehicle# 6
Container
Driver
Check#
Billing # 00000233
Gen EPA ID

Volume

6

	Time	Scale	Operator	Inbound			
In	01/24/2007 10:14:14	MAN WEIGHT	vdp		Gross	51840	lb
Out	01/24/2007 10:14:29	MAN WEIGHT	vdp		Tare	28000	lb
					Net	23840	lb
					Tons	11.92	

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	260-DECLASSIFIED W 100		11.92	Tons				MARTIN-51

Crane Naval Base

Total Tax
Total Ticket

403WM-N

Driver's Signature

WASTE MANAGEMENT

368548

Lawrence County Regional Landfill
RT 3 BOX 891
SUMNER, IL, 62466
Ph: 618-936-9035

Original
Ticket# 6631

12

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/24/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest ug285867
Destination
PO 5391
Profile UG285867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTOFNAVY-US DEPT OF NAVY

Carrier JeffGuisewite Jeff Guisewite
Vehicle# 12
Volume
Container
Driver
Check#
Billing # 0000233
Gen EPA ID

	Time	Scale	Operator	Inbound			
In	01/24/2007 13:25:38	Scale	vdp		Gross	65620	lb
Out	01/24/2007 13:25:38		vdp		Tare	31800	lb
					Net	33820	lb
					Tons	16.91	

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	260-DECLASSIFIED W 100		16.91	Tons				MARTIN-51

Crane Naval Base

Total Tax
Total Ticket

403WM-N
Driver's Signature

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WASTE MANAGEMENT

368554

Lawrence County Regional Landfill
RT 3 BOX 891
SUMNER, IL, 62466
Ph: 618-936-9035

Original
Ticket# 6637

6

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/24/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest ug285867
Destination
PO 5391
Profile UG285867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTOFNAVY US DEPT OF NAVY

Carrier JeffGuisewite Jeff Guisewite
Vehicle# 6
Container
Driver
Check#
Billing # 0000233
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound			
In	01/24/2007 14:50:31	Scale	vdp		Gross	51620	lb
Out	01/24/2007 14:50:31		vdp		Tare	28000	lb
					Net	23620	lb
					Tons	11.81	

Comments

66

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 260-DECLASSIFIED W 100		11.81	Tons				MARTIN-51

Crane Navel Base

Total Tax
Total Ticket

403WM-N
Driver's Signature

WASTE MANAGEMENT

368564

Lawrence County Regional Landfill
RT 3 BOX 831
SUMNER, IL, 62466
Ph: 618-936-9035

Original
Ticket# 6649

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/25/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
Waste Waste Code
Manifest ug285867
Destination
PO 5391
Profile UG285867 (LEAD CONTACTED SOILS)
Generator 141-USDEPTOFNAVY US DEPT OF NAVY

Carrier JeffBuisewite Jeff Buisewite
Vehicle# 10
Volume
Container
Driver
Check#
Billing # 0000233
Gen EPA ID

	Time	Scale	Operator	Inbound	Gross	67740 lb
In	01/25/2007 10:11:18	Scale	vde		Tare	32500 lb
Out	01/25/2007 10:11:18		vdp		Net	35240 lb
					Tons	17.61

Comments

Product	LDA	Qty	UOM	Rate	Tax	Amount	Origin
1 P60-DECLASSIFIED N	100	17.61	Tons				MORTIN-51

Total Tax
Total Ticket

#10

403WM-N

Driver's Signature

13

WASTE MANAGEMENT

368567

Lawrence County Regional Landfill
RT 3 BOX 891
SUMNER, IL, 62466
Ph: 618-936-3035

Original
Ticket# 6651

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/25/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest ug285867
Destination
PO 5391
Profile US285867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTOFNAVY US DEPT OF NAVY

Carrier JeffGuisewite Jeff Guisewite
Vehicle# 12
Container
Driver
Check#
Billing # 0000233.
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound			
In	01/25/2007 10:47:40	Scale	vdp		Gross	67020	lb
Out	01/25/2007 10:47:40		vdp		Tare	31800	lb
					Net	35220	lb
					Tons	17.61	12

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 260-DECLASSIFIED W 100		17.61	Tons				MARTIN-51

Crane Naval Base

Total Tax
Total Ticket

Driver's Signature

403WM-N

WASTE MANAGEMENT

368575

Lawrence County Regional Landfill
RT 3 BOX 891
SUMNER, IL, 62466
Ph: 618-936-9035

Original
Ticket# 6659

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/25/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest ug285867
Destination
PO 5391
Profile UG285867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTOFNAVY US DEPT OF NAVY

Carrier JeffGuisewite Jeff Guisewite
Vehicle# 6
Container
Driver
Check#
Billing # 0000333
Gen/EPA ID

Volume

46

	Time	Scale	Operator	Inbound			
In	01/25/2007 12:02:37	Scale	vdp		Gross	46440	lb
Out	01/25/2007 12:02:37		vdp		Tare	28000	lb
					Net	18440	lb
					Tons		9.22

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	260-DECLASSIFIED W 100		9.22	Tons				MARTIN-51

Total Tax
Total Ticket

403WM-N

Driver's Signature

WASTE MANAGEMENT

368577

Lawrence County Regional Landfill
RT 3 BOX 891
SUMNER, IL, 62466
Ph: 618-936-9035

Original
Ticket# 6560

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/25/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest ug285867
Destination
PO 5391
Profile UG285867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTOFNAVY US DEPT OF NAVY

Carrier JeffGuisewite Jeff Guisewite
Vehicle# 1
Volume
Container
Driver
Check#
Billing # 0000233
Gen EPA ID

	Time	Scale	Operator	Inbound	Gross	57160	lb
In	01/25/2007 12:05:08	Scale	vdp		Tare	25440	lb
Out	01/25/2007 12:17:46	Scale	vdp		Net	31720	lb
					Tons	15.86	

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	260-DECLASSIFIED W 100		15.86	Tons				MARTIN-51

Total Tax
Total Ticket

403WM-N

Driver's Signature

WASTE MANAGEMENT

368593

Lawrence County Regional Landfill
RT 3 BOX 891
SUMNER, IL, 62466
Ph: 618-936-9035

Original
Ticket# 6676

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/25/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest ug285867
Destination
PO 5391
Profile US285867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTDFNAVY US DEPT OF NAVY

Carrier JeffGuisewite Jeff Guisewite
Vehicle# 10
Volume
Container
Driver
Check#
Billing # A0000233
Gen EPA ID

	Time	Scale	Operator	Inbound	Gross	66480	lb
In	01/25/2007 14:42:15	Scale	vdn		Tare	32520	lb
Out	01/25/2007 14:43:19		vdn		Net	33960	lb
					Tons	16.98	

Comments

	Product	LD#	Qty	UOM	Rate	Tax	Amount	Origin
1	260-DECLASSIFIED W	100	16.99	Tons				MARTIN-51

$10

Total Tax
Total Ticket

403WM-N
Driver's Signature

WASTE MANAGEMENT

368595

12

Lawrence County Regional Landfill
RT 3 BOX 891
SUMNER, IL, 62466
Ph: 618-936-9035

Original
Ticket# 6678

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/25/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest ug285867
Destination
PO 5391
Profile UG285867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTOFNAVY US DEPT OF NAVY

Carrier JeffGuisewite Jeff Guisewite
Vehicle# 12
Volume
Container
Driver
Check#
Billing # 0000233
Gen EPA ID

	Time	Scale	Operator	Inbound			
In	01/25/2007 15:47:26	Scale	ydp		Gross	54620	lb
Out	01/25/2007 15:47:26		ydp		Tare	31800	lb
					Net	22020	lb
					Tons	11.41	

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	260-DECLASSIFIED W 100		11.41	Tons				MARTIN-51

Crane wheel base

Total Tax
Total Ticket

403WM-N

Driver's Signature

9

WASTE MANAGEMENT

368648

Lawrence County Regional Landfill
RT 3 BOX 891
BUMNER, IL, 62466
PH: 618-936-9035

Original
Ticket# 6731

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest ug285867
Destination
PO 8391
Profile UG285867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTOFNAVY US DEPT OF NAVY

Carrier JeffGuisewite Jeff Guisewite
Vehicle# 12
Volume
Container
Driver
Check#
Billing # 0000233
Gen EPA ID

12

	Time	Scale	Operator	Inbound			
In	01/29/2007 14:23:12	Scale	vdp		Gross	61460	lb
Out	01/29/2007 14:33:12		vdp		Tare	31800	lb
					Net	29660	lb
					Tons	14.83	

Comments

	Product	LDF	Qty	UOM	Rate each	Tax	Amount	Origin
1	260-DECL ASSIFIED W 100		14.83	Tons				MARION-IL

Crane

Lawrence Co. Landfill

2 Total Tax
Total Ticket

403WM-N
Driver's Signature

15

WASTE MANAGEMENT

368654

Lawrence County Regional Landfill
RT 3 BOX 891
SUMNER, IL, 62466
Ph: 618-936-9035

Original
Ticket# 6737

Customer Name TN ASSOCIATES TN ASSOCIATES
Ticket Date 01/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest ug285867
Destination
PO 5391
Profile UG285867 (LEAD IMPACTED SOIL)
Generator 141-USDEPTOFNAVY US DEPT OF NAVY

Carrier JeffGuisewite Jeff Guisewite
Vehicle# 6
Container
Driver
Check#
Billing # 0000233
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound			
In	01/29/2007 15:25:14	Scale	vdp		Gross	51760	lb
Out	01/29/2007 15:25:14		vdp		Tare	28000	lb
					Net	23760	lb
					Tons	11.88	

Comments

	Product	LB%	Qty	UOM	Rate	Tax/	Amount	Origin
1	260-DECLASSIFIED W	100	11.88	Tons				MARTIN-51

Total Tax
Total Ticket

403WM-N
Driver's Signature

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WASTE MANAGEMENT

363669

Lawrence County Regional Landfill
RT 3 BOX 891
SUMNER, IL, 62466
Ph: 618-936-8035

Original
Ticket# 6752

Customer Name: IN ASSOCIATES IN ASSOCIATES
Ticket Date: 01/30/2007
Payment Type: Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest: vg205867
Destination
PO: 5391
Profile: UG265567 (LEAD IMPACTED SOIL)
Generator: 141-USDEPTDFNAVY US DEPT OF NAVY

Carrier: JeffGeisewite Jeff Geisewite
Vehicle#: 12
Volume
Container
Driver
Check#
Billing #: 0000233
Gen EPA ID

	Time	Scale	Operator	Inbound			
In	01/30/2007 11:03:08	Scale	vdp		Gross	44760	lb
Out	01/30/2007 11:03:08		vdp		Tare	31800	lb
					Net	12960	lb
					Tons	6.48	

Comments

Product	ID#	Qty	UOM	Rate	Tax	Amount	Origin
1 2600-DECLASSIFIED W 100		6.48	Tons				MARTIN-51

Total Tax
Total Ticket

Driver's Signature

403WM-N

16

9ND-NWSCC 4010/2 (Rev. 6-79)

TRUCK/TRACTOR NO.	SCC ☐ ☐ ☐	PASSENGER ☐ ON ☑ OFF
TRAILER NO.	IDENTIFICATION	DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS 9.51	
EMPTY WT-STENCIL	TARE 8.25	
LOAD LIMIT	NET 1.26 mins.	
☐ COUPLED		
☐ UNCOUPLED	1 HR over	
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		
CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

9ND-NWSCC 4010/2 (Rev. 6-79)

TRUCK/TRACTOR NO.	SCC ☐ ☐ ☐	PASSENGER ☐ ON ☑ OFF
TRAILER NO.	IDENTIFICATION	DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	
EMPTY WT-STENCIL	TARE 8:25	
LOAD LIMIT	NET 1.26 mins.	
☐ COUPLED		
☐ UNCOUPLED	1 HR over	
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		
CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

21875	☐ ☐ ☐	☑ ON ☐ OFF
TRAILER NO.	IDENTIFICATION	DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS 3:15	
EMPTY WT-STENCIL	TARE	
LOAD LIMIT	NET 6 hr. 45 min. 43280	
☐ COUPLED		9
☐ UNCOUPLED		
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		
CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

TRAILER NO.	IDENTIFICATION	☐ ON ☐ OFF
		DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	300Pm 55700
EMPTY WT-STENCIL	TARE	0871
LOAD LIMIT	NET	6½ hrs. 26700
☐ COUPLED		
☐ UNCOUPLED		
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		

CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY
	[illegible]	

	☐ ☐ ☐	☑ ON ☐ OFF
TRAILER NO.	IDENTIFICATION	DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	62300
EMPTY WT-STENCIL	TARE	
LOAD LIMIT	NET	31400
☐ COUPLED		
☐ UNCOUPLED	#12	
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		

CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

4

TRAILER NO.	IDENTIFICATION	☐ ON ☐ OFF DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	
EMPTY WT-STENCIL	TARE	
LOAD LIMIT	NET	
☐ COUPLED	1.44 mins 34600	
☐ UNCOUPLED	#12	
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		
CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

#6	☐ ☐ ☐	PASSENGER ☑ ON ☐ OFF
TRAILER NO.	IDENTIFICATION	DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	
EMPTY WT-STENCIL	TARE	
LOAD LIMIT	NET	53 mins. 23,760
☐ COUPLED		
☐ UNCOUPLED	#6	
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		
CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

	☐ ☐ ☐	☑ ON ☐ OFF
TRAILER NO.	IDENTIFICATION	DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	
EMPTY WT-STENCIL	TARE	
LOAD LIMIT	NET	30 min. 23760
☐ COUPLED		
☐ UNCOUPLED		e6
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		

CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

TRAILER NO. 12	IDENTIFICATION	☑ ON ☐ OFF DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	12
EMPTY WT-STENCIL	TARE	
LOAD LIMIT	NET	
☐ COUPLED	1.34	35100
☐ UNCOUPLED		
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		

CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY
		8

TRAILER NO.	IDENTIFICATION	☐ ON ☐ OFF DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	12
EMPTY WT-STENCIL	TARE	
LOAD LIMIT	NET	1.24 min 23880
☐ COUPLED		
☐ UNCOUPLED		
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		

CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY
		4

TRAILER NO. 6	IDENTIFICATION	☐ ON ☑ OFF DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	
EMPTY WT-STENCIL	TARE #6	
LOAD LIMIT	NET	
☐ COUPLED	1 hr 25 mins. 18,780	
☐ UNCOUPLED		
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		
CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

TRAILER NO.	IDENTIFICATION	☐ ON ☐ OFF
RR CAR NO.		DEBRIS ☐ YES ☐ NO
EMPTY WT-STENCIL	GROSS	
LOAD LIMIT	TARE	
☐ COUPLED	NET	1hr. 22 mins. 31720
☐ UNCOUPLED		
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		

CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

	☐ ☐ ☐	☐ ON ☐ OFF
TRAILER NO.	IDENTIFICATION	DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	
EMPTY WT-STENCIL	TARE	
LOAD LIMIT	NET	34 220
☐ COUPLED	59 mins.	
☐ UNCOUPLED	#10	
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		

CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

TRUCK/TRACTOR NO.	☐ ☐ ☐	☑ ON ☐ OFF
TRAILER NO. 10	IDENTIFICATION WOOD	DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	
EMPTY WT-STENCIL	TARE	
LOAD LIMIT	NET 51 mins. 35220	
☐ COUPLED		
☐ UNCOUPLED		
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.	#10	
CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

13

TRAILER NO.	IDENTIFICATION	☐ ON ☐ OFF DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	6
EMPTY WT-STENCIL	TARE	
LOAD LIMIT	NET 33 mins	23,740
☐ COUPLED		
☐ UNCOUPLED		
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		

CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

16	☐ ☐ ☐	PASSENGER ☐ ON ☐ OFF
TRAILER NO.	IDENTIFICATION	DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	
EMPTY WT-STENCIL	TARE	
LOAD LIMIT	NET	27 mins, 30,620
☐ COUPLED		
☐ UNCOUPLED		
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		
CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

15

	☐ ☐ ☐	☐ ON ☑ OFF
TRAILER NO. 12	IDENTIFICATION	DEBRIS ☐ YES ☐ NO
RR CAR NO.	GROSS	
EMPTY WT-STENCIL	TARE	
LOAD LIMIT	NET	37 mins.
☐ COUPLED		
☐ UNCOUPLED		
CONTRACT NO.	CONTRACTOR	
ITEM NO.		
PARTIAL DEL. NO.		

CONTRACTOR REP. *(if applicable)*	WEIGHMASTER	VERIFIED BY

WASTE MANAGEMENT

ILLINOIS PROFILE NUMBER 1162158 67

NON-SPECIAL WASTE - BILL OF LADING

Generator: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.*

Name & site address:	Contact name:	Telephone number:
U.S. Navy, NSA Crane, OPR	Tom Brent	812/854-6160
Mailing address:		Telephone number:
300 Highway 361 Crane, IN 47522		
Contractor name & address: 1035 N. Mayfair Ave. P.O. Box 1 Milwaukee, WI 53226	Contact name:	Telephone number:
PET Environmental, LLC.	Gary Reiter	314/220-9369
Waste disposal site name & address: Lawrence County Regional Landfill Rte 3, Box 192, P.O Box 147, Sumner, IL 62466		Telephone number: 618-936-9035
Name & address of responsible agency: Illinois Environmental Protection Agency, P.O. Box 19276 Springfield, Illinois 62794-9276		
Description of waste/materials:	Number of containers & type:	Total quantity:
Lead Impacted Soil	≈5, Dump Truck	≈75 ton
Printed or typed name and title: JAMES HUNZICKER ENV. PROT. MGR, NSA Cr	Signature: James Hunzicker	Date: 01/23/07

Transporter: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.*

Transporter #1 name:		Telephone number:
Jeff Guisewite, Inc.		(618) 262-4933
Address: 16153 East 1100 Rd, Mt. Carmel, IL 62863		
Driver #1 name: Kelly D. Yabor	Signature:	Date: 1-24-07
Transporter #2 name:		Telephone number:
Address:		
Driver #2 name:	Signature:	Date:

Landfill:

Discrepancy indication space:		
Waste disposal site owner: Lawrence County Regional Landfill		618 936 9035
Printed/typed name & title: Marie Hedges Scale operator	Signature: Marie Hedges	Date: 1/24/07

WASTE MANAGEMENT

ILLINOIS PROFILE NUMBER UC 2858 07

NON-SPECIAL WASTE - BILL OF LADING

Generator: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.*

Name & site address:	Contact name:	Telephone number:
U.S. Navy, NSA Crane, OPR	Tom Brent	812/854-6160
Mailing address: 300 Highway 361 Crane, IN 47522		Telephone number:
Contractor name & address: DAT Environmental LLC. 10334 Mayfair Rd. Milwaukee, WI 53226	Contact name: Cary Reiter	Telephone number: 314/220-9369
Waste disposal site name & address: Lawrence County Regional Landfill Rte 3, Box 892, P.O Box 147, Sumner, IL 62466		Telephone number: 618-936-9035
Name & address of responsible agency: Illinois Environmental Protection Agency, P.O. Box 19276 Springfield, Illinois 62794-9276		
Description of waste/materials: Lead Impacted Soil	Number of containers & type: ≈5, Dump Truck	Total quantity: ≈75 ton
Printed or typed name and title: JAMES HUNZICKER ENV. PROT. MGR, NSA Cr	Signature: James Hunzicker	Date: 01/23/07

Transporter: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.*

Transporter #1 name:		Telephone number:
Jeff Guisewite, Inc.		812-495-3381
Address: 16153 East 1100 Rd, Mt. Carmel, IL 62863		
Driver #1 name: DERRICK WHELLER	Signature: Derrick Wheller	Date: 1-23-07
Transporter #2 name:		Telephone number:
Address:		
Driver #2 name:	Signature:	Date:

Landfill:

Discrepancy indication space:		
Waste disposal site owner: Lawrence County Regional Landfill 618 936 9035		
Printed/typed name & title: Valerie Padgett, Scale operator	Signature: Valerie Padgett	Date: 1/23/07

WASTE MANAGEMENT

ILLINOIS PROFILE NUMBER IL6285867

NON-SPECIAL WASTE - BILL OF LADING

Generator: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.*

Name & site address:	Contact name:	Telephone number:
U.S. Navy, NSA Crane, OPR	Tom Brent	812/854-6160
Mailing address:		Telephone number:
300 Highway 361 Crane, IN 47522		
Contractor name & address: 1633 N. Mayfair Rd. Wauwatosa, WI 53226	Contact name:	Telephone number:
DRT Environmental, LLC	Cory Reiter	314/220-9369
Waste disposal site name & address: Lawrence County Regional Landfill, Rte 3, Box 892, P.O Box 147, Sumner, IL 62466		Telephone number: 618-936-9035
Name & address of responsible agency: Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois 62794-9276		
Description of waste/materials:	Number of containers & type:	Total quantity:
Lead Impacted Soil	≈5 Dump Truck	≈75 ton
Printed or typed name and title: James Hunziker, Gov. Prot. Mgr, NSA Cr	Signature: James Hunziker	Date: 01/23/07

Transporter: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.*

#6

Transporter #1 name:		Telephone number:
Jeff Guisewite, Inc.		618/262-4933
Address: 16153 East 1100 Rd, Mt. Carmel, IL 62863		
Driver #1 name: Joshua Johnson	Signature: Joshua Johnson	Date: 1/24/07
Transporter #2 name:		Telephone number:
Address:		
Driver #2 name:	Signature:	Date:

Landfill:

Discrepancy indication space:		
Waste disposal site owner: Lawrence County Regional Landfill 618-936-9035		
Printed/typed name & title: Valerie Padgett	Signature: Valerie Padgett	Date: 1/24/07

WASTE MANAGEMENT

ILLINOIS PROFILE NUMBER IL6285807
NON-SPECIAL WASTE - BILL OF LADING

Generator: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.*

Name & site address: U.S. Navy, NSA Crane OPR	Contact name: Tom Brent	Telephone number: 812/854-6160
Mailing address: 300 Highway 361, Crane, IN 47522		Telephone number:
Contractor name & address: DPT Environmental LLC, 1021 N. Mayfair Rd, Wauwatosa, WI 53226	Contact name: Cory Reiter	Telephone number: 314/220-9369
Waste disposal site name & address: Lawrence County Regional Landfill, Rte 3, Box 892, P.O Box 147, Sumner, IL 62466		Telephone number: 618-936-9035
Name & address of responsible agency: Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois 62794-9276		
Description of waste/materials: Lead Impacted Soil	Number of containers & type: ≈5, Dump Truck	Total quantity: ≈75 ton
Printed or typed name and title: James Hunsicker, Env. Prot. Mgr, NSA Crane	Signature: James Hunsicker	Date: 01/23/07

Transporter: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.*

#6

Transporter #1 name: Jeff Guisewite, Inc.		Telephone number: (618)262-4933
Address: 16153 East 1100 Rd, Mt. Carmel, IL 62863		
Driver #1 name: Joshua Johnson	Signature: Joshua Johnson	Date: 1/24/07
Transporter #2 name:		Telephone number:
Address:		
Driver #2 name:	Signature:	Date:

Landfill:

Discrepancy indication space:		
Waste disposal site owner: Lawrence County Regional Landfill 618-936-9035		
Printed/typed name & title: Valarie Hazlett, Scale operator	Signature: Valarie Hazlett	Date: 1/24/07

WM
WASTE MANAGEMENT

ILLINOIS PROFILE NUMBER UC285867
NON-SPECIAL WASTE - BILL OF LADING

Generator: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.*

Name & site address: U.S. Navy, NSA Crane, OPR	Contact name: Tom Brent	Telephone number: 812/854-6160
Mailing address: 300 Highway 361, Crane, IN 47522		Telephone number:
Contractor name & address: DPT Environmental, LLC. 1037 N. Mayfair Rd. Milwaukee, WI 53226	Contact name: Cory Reiter	Telephone number: 34/220-9369
Waste disposal site name & address: Lawrence County Regional Landfill Rte 3, Box 892, P.O Box 147, Sumner, IL 62466		Telephone number: 618-936-9033
Name & address of responsible agency: Illinois Environmental Protection Agency, P.O. Box 19276 Springfield, Illinois 62794-9276		
Description of waste/materials: Lead Impacted Soil	Number of containers & type: ≈5 Dump Truck	Total quantity: ≈75 ton
Printed or typed name and title: Mike Henderson Eng. Sup. Mgr. Crane	Signature: [signature]	Date: 01/23/07

Transporter: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.* unit 10

Transporter #1 name: Jeff Guisewite, Inc.		Telephone number: 618-262-4933
Address: 16153 East 1100 Rd, Mt. Carmel, IL 62863		
Driver #1 name: Jeff Guisewite	Signature: [signature]	Date: 1/23/07
Transporter #2 name:		Telephone number:
Address:		
Driver #2 name:	Signature:	Date:

Landfill:

Discrepancy indication space:		
Waste disposal site owner: Lawrence County Regional Landfill		
Printed/typed name & title: Valane Padgett, Scale Operator	Signature: [signature]	Date: 1/23/07

#12

WASTE MANAGEMENT

ILLINOIS PROFILE NUMBER U628586 7

NON-SPECIAL WASTE - BILL OF LADING

Generator: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.*

Name & site address: U.S. Navy, NSA Crane, OPR	Contact name: Tom Brent	Telephone number: 812/854-6160
Mailing address: 300 Highway 361 Crane, IN 47522		Telephone number:
Contractor name & address: DPT Environmental LLC 7631 N. Marlen Rd Milwaukee, WI 53226	Contact name: Cory Reiter	Telephone number: 314/220-9369
Waste disposal site name & address: Lawrence County Regional Landfill Rte 3, Box 892, P.O Box 147, Sumner, IL 62466		Telephone number: 618-936-9035
Name & address of responsible agency: Illinois Environmental Protection Agency, P.O. Box 19276 Springfield, Illinois 62794-9276		
Description of waste/materials: Lead Impacted Soil	Number of containers & type: ≈5 Dump Truck	Total quantity: ≈75 ton
Printed or typed name and title: Christine D. Freeman Env. Prot. Spec.	Signature: Christine D. Freeman	Date: 1/25/07

Transporter: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.*

Transporter #1 name: Jeff Guisewite, Inc.		Telephone number: (618) 262-4933
Address: 16153 East 1100 Rd, Mt. Carmel, IL 62863		
Driver #1 name: Kelly D. Yarbor	Signature: X [signature]	Date: 1-25-07
Transporter #2 name:		Telephone number:
Address:		
Driver #2 name:	Signature:	Date:

Landfill:

Discrepancy indication space:		
Waste disposal site owner: Lawrence County Regional Landfill		
Printed/typed name & title: [illegible]	Signature: [illegible]	Date: 1/25/07

Scale operator

WASTE MANAGEMENT

ILLINOIS PROFILE NUMBER U6 285367
NON-SPECIAL WASTE - BILL OF LADING

Generator: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.*

Name & site address:	Contact name:	Telephone number:
U.S. Navy, NSA Crane, OPR	Tom Brent	812/854-6160
Mailing address: 300 Highway 361, Crane, IN 47522		Telephone number:
Contractor name & address: DPT Environmental, LLC. 10333 N. Mayfair Rd. Milwaukee, WI 53226	Contact name: Cory Reiter	Telephone number: 314/220-9369
Waste disposal site name & address: Lawrence County Regional Landfill Rte 3, Box 892, P.O Box 147, Sumner, IL 62466		Telephone number: 618-936-9035
Name & address of responsible agency: Illinois Environmental Protection Agency, P.O. Box 19276 Springfield, Illinois 62794-9276		
Description of waste/materials: Lead Impacted Soil	Number of containers & type: ≈5 Dump Truck	Total quantity: ≈75 ton
Printed or typed name and title: Christine D. Freeman Env. Prot. Spec.	Signature: Christine D. Freeman	Date: 1/25/07

#10

Transporter: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.*

Transporter #1 name: Jeff Guisewite, Inc.		Telephone number:
Address: 16153 East 1100 Rd, Mt. Carmel, IL 62863		
Driver #1 name: Jeff Guisewite	Signature: Jeff Guisewite	Date: 1/25/07
Transporter #2 name:		Telephone number:
Address:		
Driver #2 name:	Signature:	Date:

Landfill:

Discrepancy indication space:		
Waste disposal site owner: Lawrence County Regional Landfill		
Printed/typed name & title: Small operator	Signature:	Date: 1/25/07

WASTE MANAGEMENT

ILLINOIS PROFILE NUMBER UG285867
NON-SPECIAL WASTE - BILL OF LADING

Generator: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.*

Name & site address: U.S. Navy, NSA Crane, OPR	Contact name: Tom Brent	Telephone number: 812/854-6100
Mailing address: 300 Highway 361, Crane, IN 47522		Telephone number:
Contractor name & address: DPT Environmental LLC. 1633 N. Marshall Rd. Milwaukee, WI 53224	Contact name: Cory Reitor	Telephone number: 314/220-9369
Waste disposal site name & address: Lawrence County Regional Landfill Rte 3, Box 892, P.O Box 147, Sumner, IL 62466		Telephone number: 618-936-9035
Name & address of responsible agency: Illinois Environmental Protection Agency, P.O. Box 19276 Springfield, Illinois 62794-9276		
Description of waste/materials: Lead Impacted Soil	Number of containers & type: ≈5, Dump Truck	Total quantity: ≈75 tons
Printed or typed name and title: Christine D. Freeman Env. Prot. Spec	Signature: Christine D Freeman	Date: 1/25/07

#6

Transporter: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.*

Transporter #1 name: Jeff Guisewite, Inc.		Telephone number: 812-455-3351
Address: 16153 East 1100 Rd, Mt. Carmel, IL 62863		
Driver #1 name: DERRICK WHEELER	Signature: Derrick Wheeler	Date: 1-25-07
Transporter #2 name:		Telephone number:
Address:		
Driver #2 name:	Signature:	Date:

Landfill:

Discrepancy indication space:		
Waste disposal site owner: Lawrence County Regional Landfill		
Printed/typed name & title: Volane Ridgeway Scale Operator	Signature: Volane Ridgeway	Date: 1-25-07

WASTE MANAGEMENT

ILLINOIS PROFILE NUMBER UG285067
NON-SPECIAL WASTE - BILL OF LADING

Generator: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.*

Name & site address:	Contact name:	Telephone number:
U.S. Navy, NSA Crane, OPR	Tom Brent	812/854-6160
Mailing address: 300 Highway 361 Crane, IN 47522		Telephone number:
Contractor name & address: 1023 N. Mayfair Ave. Ft. Lauderdale, NJ DPT Environmental LLC. 53220	Contact name: Cory Reiter	Telephone number: 314/220-9369
Waste disposal site name & address: Lawrence County Regional Landfill Rte 3, Box 892, P.O Box 147, Sumner, IL 62466		Telephone number: 618-936-9035
Name & address of responsible agency: Illinois Environmental Protection Agency. P.O. Box 19276 Springfield, Illinois 62794-9276		
Description of waste/materials: Lead Impacted Soil	Number of containers & type: ≈5 Dump Truck	Total quantity: ≈75 ton
Printed or typed name and title: Christine D. Freeman Env. Prot. Spec	Signature: Christine D Freeman	Date: 1/25/07

Transporter: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.*

Transporter #1 name: Jeff Guisewite, Inc.		Telephone number:
Address: 16153 East 1100 Rd, Mt. Carmel, IL 62863		
Driver #1 name: Jeff Guisewite	Signature: Jeff Guisewite	Date: 1/25/07
Transporter #2 name:		Telephone number:
Address:		
Driver #2 name:	Signature:	Date:

#10

Landfill:

Discrepancy indication space:		
Waste disposal site owner: Lawrence County Regional Landfill		
Printed/typed name & title: Valerie Redpath Scale operator	Signature: Valerie Redpath	Date: 1/25/07

#12

WASTE MANAGEMENT

ILLINOIS PROFILE NUMBER UG285867
NON-SPECIAL WASTE - BILL OF LADING

Generator: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.*

Name & site address: U.S. Navy, NSA Crane, OPR	Contact name: Tom Brent	Telephone number: 812/854-6160
Mailing address: 300 Highway 361, Crane, IN 47522		Telephone number:
Contractor name & address: DPT Environmental, LLC 1633 N. Mayfair Rd. Wauwatosa, WI 53226	Contact name: Cory Reiter	Telephone number: 34/220-9369
Waste disposal site name & address: Lawrence County Regional Landfill Rte 3, Box 892, P.O Box 147, Sumner, IL 62466		Telephone number: 618-936-9035
Name & address of responsible agency: Illinois Environmental Protection Agency, P.O. Box 19276 Springfield, Illinois 62794-9276		
Description of waste/materials: Lead Impacted Soil	Number of containers & type: ≈5, Dump Truck	Total quantity: ≈75 ton
Printed or typed name and title: Christine D. Freeman Env. Prct. Spec.	Signature: Christine D. Freeman	Date: 1/25/07

Transporter: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.*

Transporter #1 name: Jeff Guisewite, Inc.		Telephone number: (618) 263-4933
Address: 16153 East 1100 Rd, Mt. Carmel, IL 62863		
Driver #1 name: Kelly D. Harbor	Signature: Kelly D. Harbor	Date: 1-25-07
Transporter #2 name:		Telephone number:
Address:		
Driver #2 name:	Signature:	Date:

Landfill:

Discrepancy indication space:		
Waste disposal site owner: Lawrence County Regional Landfill (618) 936-9035		
Printed/typed name & title: Valerie Hedges	Signature: Valerie Hedges	Date: 1/25/07

WASTE MANAGEMENT

ILLINOIS PROFILE NUMBER 6G285867
NON-SPECIAL WASTE - BILL OF LADING

Generator: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.*

Name & site address:	Contact name:	Telephone number:
U.S. Navy, NSA Crane, OPR	Tom Brent	812/854-6160
Mailing address: 300 Highway 361, Crane, IN 47522		Telephone number:
Contractor name & address: 10324 N. Mayfair Rd. Ste. 1 Milwaukee, WI 53226 DPT Environmental, LLC	Contact name: Gary Reiter	Telephone number: 314/220-9369
Waste disposal site name & address: Lawrence County Regional Landfill Rte 3, Box 892, P.O Box 147, Sumner, IL 62466		Telephone number: 618-936-9035
Name & address of responsible agency: Illinois Environmental Protection Agency, P.O. Box 19276 Springfield, Illinois 62794-9276		
Description of waste/materials: Lead Impacted Soil	Number of containers & type: ≈5 Dump Truck	Total quantity: ≈75 ton
Printed or typed name and title: Jerry L McCracken	Signature: Jerry L McCracken	Date: 1/29/07

Transporter: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.*

#12

Transporter #1 name: Jeff Guisewite, Inc.		Telephone number: 618/262-4933
Address: 16153 East 1100 Rd, Mt. Carmel, IL 62863		
Driver #1 name: Joshua Johnson	Signature:	Date: 1/29/07
Transporter #2 name:		Telephone number:
Address:		
Driver #2 name:	Signature:	Date:

Landfill:

Discrepancy indication space:		
Waste disposal site owner: Lawrence County Regional Landfill		
Printed/typed name & title: Valerie Redyk Scale Operator	Signature: Valerie Redyk	Date: 1/29/07

#2

WASTE MANAGEMENT

ILLINOIS PROFILE NUMBER 1162858 67
NON-SPECIAL WASTE - BILL OF LADING

Generator: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.*

Name & site address:	Contact name:	Telephone number:
U.S. Navy, NSA Crane, OPR	Tom Brent	812/854-6160
Mailing address:		Telephone number:
300 Highway 361 Crane, IN 47522		
Contractor name & address: 1033 N. Mayfair Rd. Ft. Wayne, IN 53224	Contact name:	Telephone number:
DPT Environmental LLC.	Cory Reiter	314/220-9369
Waste disposal site name & address: Lawrence County Regional Landfill Rte 3, Box 892, P.O Box 147, Sumner, IL 62466		Telephone number: 618-936-9035
Name & address of responsible agency: Illinois Environmental Protection Agency, P.O. Box 19276 Springfield, Illinois 62794-9276		
Description of waste/materials:	Number of containers & type:	Total quantity:
Lead Impacted Soil	≈5 Dump Truck	≈75 ton
Printed or typed name and title: Christine D. Freeman Env. Prot. Spec	Signature: Christine D. Freeman	Date: 1/30/07

Transporter: *I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.*

Transporter #1 name:		Telephone number:
Jeff Guisewite, Inc.		(618) 262-4933
Address: 16153 East 1100 Rd, Mt. Carmel, IL 62863		
Driver #1 name: Kelly D. Yadon	Signature:	Date: 1-30-07
Transporter #2 name:		Telephone number:
Address:		
Driver #2 name:	Signature:	Date:

Landfill:

Discrepancy indication space:		
Waste disposal site owner: Lawrence County Regional Landfill		
Printed/typed name & title: Scale Operator	Signature:	Date: 1/30/07

APPENDIX F

EMAC REPORTS

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE	January 23, 2007
REPORT NO	2

PHASE	CONTRACT NO	CONTRACT TITLE
	N40083-05-D-4014/FC09	SWMU 7, Old Pistol Range

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☒ NO ☐

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #
	Excavation Activities	

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☒ NO ☐

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #
	Access Road Construction	
	Temporary Stream Crossing	

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Access Road Construction
	Temporary Stream Crossing

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)		REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)	
Schedule Activity No.	Description	Schedule Activity No.	Description
	None		NA

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Mfg. Rep On-Site, etc.

Schedule Activity No.	Description

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

AUTHORIZED QC MANAGER AT SITE

January 23, 2007
DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER

1/24/07
DATE

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE	January 24, 2007
REPORT NO	3

PHASE	CONTRACT NO	N40083-05-D-4014/FC09	CONTRACT TITLE	SWMU 7, Old Pistol Range

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☒ NO ☐

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☒ NO ☐

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #
	Excavation Activities	

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Access Road Construction
	Temporary Stream Crossing
	Excavation Activities

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)		REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)	
Schedule Activity No.	Description	Schedule Activity No.	Description
	None		NA

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Mfg. Rep On-Site, etc.

Schedule Activity No.	Description

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

AUTHORIZED QC MANAGER AT SITE

January 24, 2007
DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER

DATE

CONTRACTOR QUALITY CONTROL REPORT

(CONTINUATION SHEET)
(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE January 24, 2007
REPORT NO. 3

PHASE | CONTRACT NO N40083-05-D-4014/FC09 | CONTRACT TITLE SWMU 7, Old Pistol Range

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐
WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Construction of Access Roads
	Maintained access road throughout the day using John Deere dozer.
	Excavation Activities
	D&T was informed that the North and West Walls as well as the Floor of the 3rd (southernmost) grid from OPR, Berm 2 had XRF results of 640 mg/kg and that the 1st and 2nd (northernmost) grids did not have XRF results above 400 mg/kg. Excavated an additional 12 ton of material from the floor and walls of the 3rd grid of OPR, Berm 2 and informed Tt/NUS and Navy that OPR, Berm 2 was ready for XRF at approximately 1345 hours. Tt/NUS on site at approximately 1430 to perform XRF sampling of OPR, Berm 2.
	Tt/NUS did not perform XRF testing on OPR, Berm 1; therefore, after discussion with Navy, D&T continued excavating material with visible bullet fragments (approximately 29 ton) from 3 grids. Informed Tt/NUS and Navy that OPR, Berm 1 was ready for XRF sampling at 1215 hours . Tt/NUS on site at approximately 1430 to perform XRF sampling of OPR, Berm 1.
	Site Restoration
	No work performed.

REMARKS (Also Explain Any Checklist Item From Above That Was Answered "NO"), Mfg. Rep. On-Site, etc.

Schedule Activity No.	Description
	Additional Remarks
	Tim Sears, Greg Ellis and Tom Brent on site for Navy
	David Hickey from Tt/NUS on site at approximately 1430 hours to perform XRF sampling of OPR, Berm 1 and 3rd (southernmost) grid of OPR, Berm 2.
	David Hickey from Tt/NUS did not provide XRF results of OPR, Berm 2 until 0830 hours today and did not perform XRF sampling of OPR, Berm 1 yesterday. Mr. Hickey informed D&T that he had requested additional support from Tt/NUS but that request was declined. D&T and Navy discussed continuing removal of visible bullet fragments in accordance with the IMWP. Navy directed D&T to continue this activity; however, since XRF results were received late for OPR, Berm 2 and XRF sampling was not performed yesterday on OPR, Berm 1, D&T was not able to schedule additional trucks for the day which delayed excavation, transportation and disposal activities. D&T was informed by Mr. Hickey that results for OPR, Berm 1 would be provided overnight and that he would not be able to sample OPR, Berm 2 today.
	In order to prevent any additional delays, D&T requested 4 trucks to be present at 0730 hours on Thursday, January 25, 2006. D&T will continue with removing visible bullet fragments in the floor and west walls of grids 2, 3 and 6 of OPR, Berm 1.

CONTRACTOR PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE	January 24, 2007		
CONTRACT NO	N40083-05-D-4014/FC09	TITLE AND LOCATION	SWMU 7 Old Pistol Range
REPORT NO	3		
CONTRACTOR	D&T Environmental	Site Manager	Todd Porter
AM WEATHER	Partly Cloudy	PM WEATHER	Sunny
MAX TEMP (F)	31	MIN TEMP (F)	23

WORK PERFORMED TODAY

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	EMPLOYER	NUMBER	TRADE	HRS
	SWMU 7 – Todd Porter (SS/SSHO)	D&T	1	Professional	7
	SWMU 7 – Cory Reiter (QCM)	D&T	1	Professional	7
	SWMU 7 – Excavation Activities	Harrell	2	Operator/Laborer	10

JOB SAFETY					
	WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☒ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE, THIS DATE, INCL CON'T SHEETS	24
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO	CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	79
		☐ YES	☒ NO		
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO	TOTAL WORK HOURS FROM START OF CONSTRUCTION	103

Schedule Activity No.	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED	☒ SAFETY REQUIREMENTS HAVE BEEN MET.
	Site Safety Meeting	

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

	Submittal #	Description of Equipment/Material Received

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
SWMU 7	Harrell	CAT 312C Excavator	3
SWMU 7	Harrell	John Deere 455E Bulldozer	2
SWUM 7	Harrell	Case 1845C Skidsteer	0

Schedule Activity No.	REMARKS
	Construction of Access Roads
	Maintained access road throughout the day using John Deere dozer.
	Excavation Activities
	D&T was informed that the North and West Walls as well as the Floor of the 3rd (southernmost) grid from OPR, Berm 2 had XRF results of 640 mg/kg and that the 1st and 2nd (northernmost) grids did not have XRF results above 400 mg/kg. Excavated an additional 12 ton of material from the floor and walls of the 3rd grid of OPR, Berm 2 and informed Tt/NUS and Navy that OPR, Berm 2 was ready for XRF at approximately 1345 hours. Tt/NUS on site at approximately 1430 to perform XRF sampling of OPR, Berm 2.
	Tt/NUS did not perform XRF testing on OPR, Berm 1; therefore, after discussion with Navy, D&T continued excavating material with visible bullet fragments (approximately 29 ton) from 3 grids. Informed Tt/NUS and Navy that OPR, Berm 1 was ready for XRF sampling at 1215 hours . Tt/NUS on site at approximately 1430 to perform XRF sampling of OPR, Berm 1.
	Site Restoration
	No work performed.
	Additional Remarks
	Tim Sears, Greg Ellis and Tom Brent on site for Navy
	David Hickey from Tt/NUS on site at approximately 1430 hours to perform XRF sampling of OPR, Berm 1 and 3rd (southernmost) grid of OPR, Berm 2.

	David Hickey from Tt/NUS did not provide XRF results of OPR, Berm 2 until 0830 hours today and did not perform XRF sampling of OPR, Berm 1 yesterday. Mr. Hickey informed D&T that he had requested additional support from Tt/NUS but that request was declined. D&T and Navy discussed continuing removal of visible bullet fragments in accordance with the IMWP. Navy directed D&T to continue this activity; however, since XRF results were received late for OPR, Berm 2 and XRF sampling was not performed yesterday on OPR, Berm 1, D&T was not able to schedule additional trucks for the day which delayed excavation, transportation and disposal activities. D&T was informed by Mr. Hickey that results for OPR, Berm 1 would be provided overnight and that he would not be able to sample OPR, Berm 2 today.
	In order to prevent any additional delays, D&T requested 4 trucks to be present at 0730 hours on Thursday, January 25, 2006. D&T will continue with removing visible bullet fragments in the floor and west walls of grids 2, 3 and 6 of OPR, Berm 1.
	CONTRACTOR/SUPERINTENDENT: Todd A Porter — DATE: January 24, 2007

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE	January 25, 2007
REPORT NO	4

PHASE | CONTRACT NO N40083-05-D-4014/FC09 | CONTRACT TITLE SWMU 7, Old Pistol Range

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☒ NO ☐

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☒ NO ☐

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Access Road Construction
	Temporary Stream Crossing
	Excavation Activities

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)		REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)	
Schedule Activity No.	Description	Schedule Activity No.	Description
	None		NA

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Mfg. Rep On-Site, etc.

Schedule Activity No.	Description

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

AUTHORIZED QC MANAGER AT SITE

January 25, 2007
DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER

DATE

CONTRACTOR QUALITY CONTROL REPORT

(CONTINUATION SHEET)
(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE January 25, 2007
REPORT NO. 4

PHASE	CONTRACT NO	N40083-05-D-4014/FC09	CONTRACT TITLE	SWMU 7, Old Pistol Range

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Construction of Access Roads
	Maintained access road throughout the day using John Deere dozer.
	Excavation Activities
	Tt/NUS did not perform XRF sampling on the 3rd (southernmost) grid yesterday. No excavation activities were performed on OPR, Berm 2.
	Tt/NUS provided results of OPR, Berm 1. D&T was informed that the grid 2 wall had a XRF result of 699 mg/kg, grid 3 wall had a XRF result of 515 mg/kg, and grid 5 floor had a XRF result of 569 mg/kg. D&T continued to excavate material with visible bullet fragments (in the walls and floors primarily in the 2nd and 3rd grid of OPR, Berm 1) as well as over-excavated the areas that exceeded 400 mg/kg (approximately 90 ton). Informed Tt/NUS and Navy that OPR, Berm 1 would be ready for XRF sampling by 1300 hours . Tt/NUS on site at approximately 1330 to perform XRF sampling of OPR, Berm 1.
	Site Restoration
	No work performed.

REMARKS (Also Explain Any Checklist Item From Above That Was Answered "NO"), Mfg. Rep. On-Site, etc.

Schedule Activity No.	Description
	Additional Remarks
	Tim Sears and Tom Brent on site for Navy
	David Hickey from Tt/NUS on site at approximately 1330 hours to perform XRF sampling of 2nd, 3rd and 5th grid of OPR, Berm 1 and 3rd (southernmost) grid of OPR, Berm 2.
	David Hickey from Tt/NUS did not specify wall location for the XRF samples exceeded 400 mg/kg in the two grid walls of the OPR, Berm 1; however, D&T continued to excavate visible bullet fragments (in the walls and floors of OPR, Berm 1 – primarily in the 2nd and 3rd grid) and over-excavated both the east and west walls of the 2nd and 3rd grid of OPR, Berm 1. Mr. Hickey from Tt/NUS informed D&T that he would not be performing XRF sampling today because he needed to package and ship samples from yesterdays XRF sampling to the laboratory and that we would not receive XRF results for grids 2, 3 and 5 of OPR, Berm 1 and grid 3 of OPR, Berm 2 until sometime Friday, January 26, 2007. Therefore, in order to prevent additional delays, D&T demobilized until Monday.
	XRF samples from the grids of OPR, Berms 1 and 2 that did not exceed 400 mg/kg were sent to a Laboratory for 24 hour TAT. D&T will not receive laboratory results until sometime Monday/Tuesday; however, if XRF samples from grids 2, 3 and 5 of OPR, Berm 1 and grid 3 of OPR, Berm 2 exceed 400 mg/kg, D&T will over-excavate these areas on Monday.

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: January 29, 2007
REPORT NO: 5

PHASE | CONTRACT NO: N40083-05-D-4014/FC09 | CONTRACT TITLE: SWMU 7, Old Pistol Range

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☒ NO ☐

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☒ NO ☐

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Access Road Construction
	Temporary Stream Crossing
	Excavation Activities

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)		REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)	
Schedule Activity No.	Description	Schedule Activity No.	Description
	None		NA

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Mfg. Rep On-Site, etc.

Schedule Activity No.	Description

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

AUTHORIZED QC MANAGER AT SITE — DATE: January 29, 2007

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER — DATE

CONTRACTOR/SUPERINTENDENT	DATE
	January 29, 2007

CONTRACTOR QUALITY CONTROL REPORT

(CONTINUATION SHEET)
(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: January 29, 2007
REPORT NO: 5

PHASE	CONTRACT NO	N40083-05-D-4014/FC09	CONTRACT TITLE	SWMU 7, Old Pistol Range

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

FOLLOW-UP

Schedule Activity No	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Construction of Access Roads
	Maintained access road throughout the day using John Deere dozer.
	Excavation Activities
	Tt/NUS did perform XRF sampling on the 3rd and 2 (southernmost) grid today. Excavation activities were performed on OPR, Berm 2 and 3
	Tt/NUS provided results of OPR, Berm 2 and 3. D&T was informed that the grid 2 berm was good and the 3rd berm was still hot. Contact Jeff Guisewite of the trucking company to set up one truck for tomorrow.
	Site Restoration
	Josh from Harrell construction company cleaned up berm 2 area and leveled berm 2.

REMARKS (Also Explain Any Checklist Item From Above That Was Answered "NO"), Mfg Rep On-Site, etc

Schedule Activity No.	Description
	Additional Remarks
	Tim Sears and Tom Brent on site for Navy
	David Hickey from Tt/NUS on site at approximately 1330 hours to perform XRF sampling of 2nd and 3rd grid of OPR, Berm. Was informed by Tim Sears to take out about 1 to 2 ft of dirt from grid 2 and 3 and the third grid came back still hot. Was informed by Cory Reiter of D&T to take berm 2 and 3 down to the Stream an Level of the same as berm 1 and 3.
	Jeff Guisewite trucking company was scheduled to be on-site at 0900 and was delayed for 3 in a half hours, first truck finally arrived at 1230hr and was of-site at 1245hr. Second truck arrived at 1315hr and left site at 1335hr. Because of the trucks being late Dave Hickey from Tt/NUS didn't get results back in time. Was informed about results at 1415hr and truck couldn't make their turn around.

CONTRACTOR PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE	January 25, 2007		
CONTRACT NO	N40083-05-D-4014/FC09	TITLE AND LOCATION	SWMU 7 Old Pistol Range
REPORT NO	4		
CONTRACTOR	D&T Environmental	Site Manager	Todd Porter
AM WEATHER	Partly Cloudy	PM WEATHER	Sunny
MAX TEMP (F)	38	MIN TEMP (F)	22

WORK PERFORMED TODAY

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	EMPLOYER	NUMBER	TRADE	HRS
	SWMU 7 – Todd Porter (SS/SSHO)	D&T	1	Professional	7
	SWMU 7 – Cory Reiter (QCM)	D&T	1	Professional	7
	SWMU 7 – Excavation Activities	Harrell	2	Operator/Laborer	12

JOB SAFETY					
WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☒ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE, THIS DATE, INCL CONT SHEETS	26
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO	CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	103
	☐ YES	☒ NO		
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO	TOTAL WORK HOURS FROM START OF CONSTRUCTION	129

Schedule Activity No.	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED	☒ SAFETY REQUIREMENTS HAVE BEEN MET.
	Site Safety Meeting	

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

	Submittal #	Description of Equipment/Material Received

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
SWMU 7	Harrell	CAT 312C Excavator	4
SWMU 7	Harrell	John Deere 455E Bulldozer	2
SWUM 7	Harrell	Case 1845C Skidsteer	0

Schedule Activity No.	REMARKS
	Construction of Access Roads
	Maintained access road throughout the day using John Deere dozer.
	Excavation Activities
	Tt/NUS did not perform XRF sampling on the 3rd (southernmost) grid yesterday. No excavation activities were performed on OPR, Berm 2.
	Tt/NUS provided results of OPR, Berm 1. D&T was informed that the grid 2 wall had a XRF result of 699 mg/kg, grid 3 wall had a XRF result of 515 mg/kg, and grid 5 floor had a XRF result of 569 mg/kg. D&T continued to excavate material with visible bullet fragments (in the walls and floors primarily in the 2nd and 3rd grid of OPR, Berm 1) as well as over-excavated the areas that exceeded 400 mg/kg (approximately 90 ton). Informed Tt/NUS and Navy that OPR, Berm 1 would be ready for XRF sampling by 1300 hours . Tt/NUS on site at approximately 1330 to perform XRF sampling of OPR, Berm 1.
	Site Restoration
	No work performed.
	Additional Remarks
	Tim Sears and Tom Brent on site for Navy
	David Hickey from Tt/NUS on site at approximately 1330 hours to perform XRF sampling of 2nd, 3rd and 5th grid of OPR, Berm 1 and 3rd (southernmost) grid of OPR, Berm 2.

	David Hickey from Tt/NUS did not specify wall location for the XRF samples exceeded 400 mg/kg in the two grid walls of the OPR, Berm 1; however, D&T continued to excavate visible bullet fragments (in the walls and floors of OPR, Berm 1 – primarily in the 2nd and 3rd grid) and over-excavated both the east and west walls of the 2nd and 3rd grid of OPR, Berm 1. Mr. Hickey from Tt/NUS informed D&T that he would not be performir XRF sampling today because he needed to package and ship samples from yesterdays XRF sampling to t laboratory and that we would not receive XRF results for grids 2, 3 and 5 of OPR, Berm 1 and grid 3 of OPR, Berm 2 until sometime Friday, January 26, 2007. Therefore, in order to prevent additional delays, D&T demobilized until Monday.
	XRF samples from the grids of OPR, Berms 1 and 2 that did not exceed 400 mg/kg were sent to a Laboratory for 24 hour TAT. D&T will not receive laboratory results until sometime Monday/Tuesday; however, if XRF samples from grids 2, 3 and 5 of OPR, Berm 1 and grid 3 of OPR, Berm 2 exceed 400 mg/kg, D&T will over-excavate these areas on Monday.
	CONTRACTOR/SUPERINTENDENT: Todd A Porter — DATE: January 25, 2007

CONTRACTOR PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE	January 29, 2007		
CONTRACT NO	N40083-05-D-4014/FC09	TITLE AND LOCATION	SWMU 7 Old Pistol Range
REPORT NO	5		
CONTRACTOR	D&T Environmental	Site Manager	Todd Porter
AM WEATHER	Partly Cloudy	PM WEATHER	Sunny
MAX TEMP (F)	36	MIN TEMP (F)	20

WORK PERFORMED TODAY

Schedule Activity No	WORK LOCATION AND DESCRIPTION	EMPLOYER	NUMBER	TRADE	HRS
	SWMU 7 – Todd Porter (SS/SSHO)	D&T	1	Professional	7
	SWMU 7 - Excavation Activities	Harrell	2	Operator/Laborer	14

JOB SAFETY					
	WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☒ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE, THIS DATE, INCL CON'T SHEETS	21
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO	CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	129
		☐ YES	☒ NO	TOTAL WORK HOURS FROM START OF CONSTRUCTION	150
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO		

Schedule Activity No	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED	☒ SAFETY REQUIREMENTS HAVE BEEN MET.
	Site Safety Meeting	

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

	Submittal #	Description of Equipment/Material Received

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER

Schedule Activity No	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
SWMU 7	Harrell	CAT 312C Excavator	5
SWMU 7	Harrell	John Deere 455E Bulldozer	3
SWUM 7	Harrell	Case 1845C Skidsteer	0

Schedule Activity No	REMARKS
	Construction of Access Roads
	Maintained access road throughout the day using John Deere dozer.
	Excavation Activities
	Tt/NUS did perform XRF sampling on the 2nd and 3rd (southernmost) grid today. Excavation activities were performed on OPR, Berms 2 and 3
	Tt/NUS provided results of OPR, Berm 2 and 3. D&T was informed that grid 2 berm was good and the 3rd berm was still hot. Contacted Jeff Guieswite of the trucking company to set up one truck for tomorrow.
	Site Restoration
	Josh from Harrell construction company cleaned up #2 berm area and leveled area.
	Additional Remarks
	Tim Sears and Tom Brent on site for Navy
	David Hickey from Tt/NUS on site at approximately 1330 hours to perform XRF sampling of 2nd and 3rd grid of OPR, Berm. Was informed by Tim Sears to take out about 1 to 2 ft of dirt from grid 2 and 3 and the third grid came back still hot. Was informed by Cory Reiter of D&T to take berm 2 and 3 down to the Stream an Level of the same as berm 1 and 3.
	Jeff Guisewite trucking company was scheduled to be on-site at 0900 and was delayed for 3 in a half hours, first truck finally arrived at 1230hr and was of-site at 1245hr. Second truck arrived at 1315hr and left site at 1335hr. Because of the trucks being late Dave Hickey from Tt/NUS didn't get results back in time. Was informed about results at 1415hr and truck couldn't make their turn around.

APPENDIX G

HEALTH AND SAFETY AND LANDFILL DOCUMENTATION

THE NATIONAL ENVIRONMENTAL TRAINERS

certify that

Todd Porter

has satisfactorily passed an exam and completed a 40 hour training course entitled
Hazardous Waste Operations and Emergency Response
meeting the requirements identified in Title 29 CFR 1910.120 (OSHA HAZWOPER Regulations).
This course has been awarded 5.0 Industrial Hygiene CM Points by the American Board of Industrial Hygiene-Approval Number 13334. This course is eligible for 3.33 Continuance of Certification (COC) points from the Board of Certified Safety Professionals.

NATIONAL
ENVIRONMENTAL
TRAINERS, Inc.

May 29, 2007

Signature of Instructor

Clay A. Bednarz, MS, RPIH

www.nationalenvironmentaltrainers.com

NATIONAL
ENVIRONMENTAL
TRAINERS, Inc.

WWW.NATLENVTRAINERS.COM

1.888.877.7130

This course has been awarded 5.0 Industrial Hygiene CM Points by the American Board of Industrial Hygiene – Approval Number 13334. This course is also eligible for 3.33 Continuance of Certification (COC) points from the Board of Certified Safety Professionals.

The National Environmental Trainers

(WWW.NATLENVTRAINERS.COM)

certify that

Todd Porter

has completed a 40 hour training course entitled
"Hazardous Waste Operations and Emergency Response"
meeting the requirements in Title 29 CFR 1910.120 (OSHA HAZWOPER)

Date

May 28, 2007

Signature of Instructor

Clay A. Bednarz, MS, RPIH

T N & Associates, Inc.
Engineering and Science

1033 N. Mayfair Road, Suite 200
Milwaukee, WI 53226
Phone: (414) 257-4200

Certificate of Completion

Cory Reiter

has successfully completed the requirements for

8-hr OSHA Hazardous Waste Operations and Emergency Response Refresher Training
as required under Code of Federal Regulations Title 29, Part 1910.120(e)

Dated: March 05, 2007 Expires: March 05, 2008

William S. Fink, CIH, CSP, CHMM

TN&A Corporate Safety and Health Manager
American Board of Industrial Hygiene Certificate No.: 4422
Board of Certified Safety Professionals Certificate No.: 10628

Certificate Number: EDWS 2007.01

U.S. ARMY CORPS OF ENGINEERS

PROFESSIONAL DEVELOPMENT SUPPORT CENTER
HUNTSVILLE, ALABAMA

CERTIFICATE

This is to certify that

CORY M. REITER

has completed the Corps of Engineers Training Course

CONSTRUCTION QUALITY MANAGEMENT FOR CONTRACTORS

Given at Ft. Leavenworth, KS (Location) By NWK FM-LV (Instructional District) 19 Nov 2004 (Date)

Facilitator

THIS CERTIFICATE EXPIRES FIVE YEARS FROM DATE OF ISSUE

Chief, USACE Professional Development Support Center

Stone & Webster

A Shaw Group Company

Stone and Webster Inc.

Supervisor Training

This Certifies that

Cory M. Reiter

340-76-9663

has attended and satisfactorily completed training for the *HAZWOPER Supervisor Training* in accordance with OSHA in 29CFR 1910.120.

January 17, 2002

Date Awarded

Dr. Dirk Decker, CIH
Project Industrial Hygienist

U.S. ARMY CORPS OF ENGINEERS

PROFESSIONAL DEVELOPMENT SUPPORT CENTER
HUNTSVILLE, ALABAMA

CERTIFICATE

CORY M. REITER

has completed the Corps of Engineers Training Course

CONSTRUCTION QUALITY MANAGEMENT

and is awarded
the continuing education credit indicated
for 20 hours of organized instruction.

Certified Provider #199309
1.5 CEUs

Registered Provider #1009
54 LUs

Registered Provider
15 PDHs

Given at *HUNTSVILLE, AL* — LOCATION

18-20 NOVEMBER 1998 — DATE

Chief, USACE Professional Development Support Center

CEHNC Form 958
1 July 97

12/15/2006

Congratulations!

Mr. Todd Porter
TN & ASSOCIATES

You have successfully completed the online OSHA course

Construction Industry 10 Hour

through Summit Training Source, Inc. with a final score of

84.31%.

Your paper work is being processed and you will receive your card within a few weeks.

Please use this certificate as proof of completion until you receive your card.

If you have any questions regarding this training, please contact us by phone at 1-800-842-0466 or via email at 1030@safetyontheweb.com.

3/21/2007

Congratulations!

Corey Reiter
TN & ASSOCIATES

You have successfully completed the online OSHA course

Construction Industry 10 Hour

through Summit Training Source, Inc. with a final score of

94.18%.

Your paper work is being processed and you will receive your card within a few weeks.

Please use this certificate as proof of completion until you receive your card.

If you have any questions regarding this training, please contact us by phone at 1-800-842-0466 or via email at 1030@safetyontheweb.com.

SUMMIT TRAINING SOURCE, INC.

CELEBRATING 25 YEARS OF EXCELLENCE

OSHA 10 Hour Construction Safety & Health Course

Cory,

Congratulations on your recent successful completion of Summit's OSHA 10 Hour Construction Safety & Health Course. Enclosed you will find your OSHA Card. You have our best wishes for continued success in your safety efforts.

Sincerely,

Scott Wallace
OSHA Program Coordinator
Summit Training Source, Inc.

OSHA 001390039

U.S. Department of Labor
Occupational Safety and Health Administration

Cory Reiter

has successfully completed a 10-hour Occupational Safety and Health Training Course in

Construction Safety & Health

Scott Wallace
(Trainer)

03/05/07
(Date)

4170 Embassy Drive SE | Grand Rapids, MI 49546 | 800-842-0466 | fax 616-949-5684 | www.safetyontheweb.com

THE NATIONAL ENVIRONMENTAL TRAINERS

certify that

Cory Reiter

has satisfactorily passed an exam and completed an 8-hour annual refresher training course entitled

Hazardous Waste Operations and Emergency Response

meeting the requirements identified in Title 29 CFR 1910.120.

This course has been awarded 1.0 Industrial Hygiene CM Points by the American Board of Industrial Hygiene-Approval Number 13334. This course is also eligible for .66 Continuance of Certification (COC) points from the Board of Certified Safety Professionals.

NATIONAL ENVIRONMENTAL TRAINERS

Signature of Instructor

December 09, 2005

Clay A. Bednarz, MS, RPIH

12/15/2006

Congratulations!

Mr. Todd Porter
TN & ASSOCIATES

You have successfully completed the online OSHA course

Construction Industry 10 Hour

through Summit Training Source, Inc. with a final score of

84.31%.

Your paper work is being processed and you will receive your card within a few weeks.

Please use this certificate as proof of completion until you receive your card.

If you have any questions regarding this training, please contact us by phone at 1-800-842-0466 or via email at 1030@safetyontheweb.com.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 – (217) 782-3397
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601 – (312) 814-6026

ROD R. BLAGOJEVICH, GOVERNOR DOUGLAS P. SCOTT, DIRECTOR

217/524-3300

July 21, 2006

Certified Mail
7004 2510 0001 8593 3798

Waste Management of Illinois, Inc.
Attn: Mr. Ernest H. Dennison, P.E.
601 Madison Road
East St. Louis, Illinois 62201

Re: 1010100002 – Lawrence County
Lawrence County Regional Landf
Permit No. 1994-529-LF
Modification No. 18
Log No. 2005-177
Expiration Date: January 1, 2011
Permit File

Dear Mr. Dennison:

Permit has been granted to Waste Management of Illinois, Inc. as owner and operator, approving the development and operation of a new municipal solid waste landfill and non-hazardous special waste landfill all in accordance with the application and plans provided in Application Log No. 1994-529. Final plans, specifications, application, and supporting documents, as submitted and approved, shall constitute part of this permit and are identified in the records of the Illinois Environmental Protection Agency (Illinois EPA), Bureau of Land, Division of Land Pollution Control by the permit number designated in the heading above.

Permit No. 1994-529-LF approved:

The development of a new solid waste management facility for the disposal of general municipal solid waste and non-hazardous special waste consisting of approximately 42 acres situated within an approximately 75 acre tract of land located along state Route 250 between Bridgeport and Sumner or more specifically in Section 12, T.3N, R.13W 2nd P.M., Lawrence County, Illinois, pursuant to 35 Illinois Administrative Code, Subtitle G ("35 IAC"), Parts 810 through 813. The Lawrence County Regional Landfill has an "in-place" waste capacity of 4.788 million cubic yards and will have a final peak elevation of 620 MSL.

Permit Modification No. 18 is hereby granted to Waste Management of Illinois, Inc., as owner and operator, allowing significant modification of an existing municipal and non-hazardous special waste landfill all in accordance with the application prepared by Ernest H. Dennison, P.E. of Waste Management of Illinois, Inc. and signed and sealed by Mr. Dennison on May 19, 2005.

WASTE MANAGEMENT, INC.

January 18, 2007

Michele Bivens
TN & Associates
1033 N. Mayfair Rd. Suite 200
Milwaukee, WI 53226-

Dear Michele Bivens

The special waste stream referenced below has been approved for disposal at **S&S Grading Recycling and Disposal Facility**. Please note the following information:

Generator:	U. S. Department of Navy Old Pistol Range Crane, IN 47522-
Waste Stream:	Lead Impacted Soil
Notification Number:	UG285867
Notification Expiration Date:	01/18/2008
Manifest Required:	Waste Shipment/Disposal Record **Waste Manifest is Attached**
Landfill Notification:	**24 HOUR NOTIFICATION REQUIRED**

Please note the special conditions as noted by our Technical Manager:

1. **No Free Liquids.**
2. **Each load must be have a Waste Disposal Manifest.**
3. **Waste is approved under authority of IC 13-19-3-1.**

The confidence and trust you have placed in selecting Waste Management, L.L.C. to manage your disposal needs is greatly appreciated. If you have any questions or need assistance with additional waste disposal, please do not hesitate to contact the Indiana Service Center at (317) 745-5598 Ext 27.

Sincerely,

Annette Ratliff
Technical Service Representative

WASTE MANAGEMENT, INC.

January 19, 2007

Michele Bivens
TN & Associates
1033 N. Mayfair Rd. Suite 200
Milwaukee, WI 53226-

Dear Michele Bivens

The special waste stream referenced below has been approved for disposal at **S&S Grading Recycling and Disposal Facility**. Please note the following information:

Generator:	U. S. Department of Navy Old Pistol Range Crane, IN 47522-
Waste Stream:	Lead Impacted Soil
Notification Number:	UG285867
Notification Expiration Date:	01/18/2008
Manifest Required:	Waste Shipment/Disposal Record **Bill of Lading is Attached**
Landfill Notification:	**24 HOUR NOTIFICATION REQUIRED**

Please note the special conditions as noted by our Technical Manager:

1. **No Free Liquids.**
2. **Each load must be have a Waste Disposal Bill of Lading.**

The confidence and trust you have placed in selecting Waste Management, L.L.C. to manage your disposal needs is greatly appreciated. If you have any questions or need assistance with additional waste disposal, please do not hesitate to contact the Indiana Service Center at (317) 745-5598 Ext 27.

Sincerely,

Annette Ratliff
Technical Service Representative

WASTE MANAGEMENT

Industrial Waste Bill of Lading

Profile Number: UG285867
Expiration Date: 01/18/2008

ALL SOIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

PO: 5391

Section A — Generator Information

Generator Name: U. S. Department of Navy

Technical Contact: Michele Bivens

Waste Location:
Street Address: Old Pistol Range

County: Martin

City: Crane

State: IN

Zip Code: 47522-

Emergency Response Phone Number:

619-230-1712

Waste Name: Lead Impacted Soil

Est. Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: S&S Grading **OPP Number:** _____ **Amount:** _____

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

ILLINOIS PROFILE NUMBER _____
NON-SPECIAL WASTE - BILL OF LADING

Generator: ***I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.***

Name & site address:	Contact name:	Telephone number:
Mailing address:		Telephone number:
Contractor name & address:	Contact name:	Telephone number:
Waste disposal site name & address: Lawrence County Regional Landfill Rte 3, Box 892, P.O Box 147, Sumner, IL 62466		Telephone number: 618-936-9035
Name & address of responsible agency: Illinois Environmental Protection Agency, P.O. Box 19276 Springfield, Illinois 62794-9276		
Description of waste/materials:	Number of containers & type:	Total quantity:
Printed or typed name and title:	Signature:	Date:

Transporter: ***I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.***

Transporter #1 name:		Telepbone number:
Address:		
Driver #1 name:	Signature:	Date:
Transporter #2 name:		Telephone number:
Address:		
Driver #2 name:	Signature:	Date:

Landfill:

Discrepancy indication space:		
Waste disposal site owner: **Lawrence County Regional Landfill**		
Printed/typed name & title:	Signature:	Date:

Generator's Nonhazardous Waste Profile Sheet

UG285867

D. Regulatory Status (Please check appropriate responses)

1. Is this a USEPA (40 CFR Part 261)/State hazardous waste? If yes, contact your sales representative. ☐ Yes ☑ No
2. Is this waste included in one or more of categories below (Check all that apply)? If yes, attach supporting documentation. ☐ Yes ☑ No
   - ☐ Delisted Hazardous Waste ☐ Excluded Wastes Under 40 CFR 261.4
   - ☐ Treated Hazardous Waste Debris ☐ Treated Characteristic Hazardous Waste
3. Is the waste from a Federal (40 CFR 300, Appendix B) or state mandated clean-up? If yes, see instructions. ☐ Yes ☑ No
4. Does the waste represented by this waste profile sheet contain radioactive material? ☐ Yes ☑ No
   - a. If yes, is disposal regulated by the Nuclear Regulatory Commission? ☐ Yes ☐ No
   - b. If yes, is disposal regulated by a State Agency for radioactive waste/NORM? ☐ Yes ☐ No
5. Does the waste represented by this waste profile sheet contain concentrations of regulated Polychlorinated Biphenyls (PCBs)? ☐ Yes ☑ No
   - a. If yes, is disposal regulated under TSCA? ☐ Yes ☐ No
6. Does the waste contain untreated, regulated, medical or infectious waste? ☐ Yes ☑ No
7. Does the waste contain asbestos? ☐ Yes ☑ No If Yes, ☐ Friable ☐ Non Friable
8. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ☐ Yes ☑ No
   - If yes, does the waste contain <500 ppmw VOHAPs at the point of determination? ☐ Yes ☐ No

E. Generator Certification (Please read and certify by signature below)

By signing this Generator's Waste Profile Sheet, I hereby certify that all:

1. Information submitted in this profile and all attached documents contain true and accurate descriptions of the waste material;
2. Relevant information within the possession of the Generator regarding known or suspected hazards pertaining to this waste has been disclosed to WM/the Contractor;
3. Analytical data attached pertaining to the profiled waste was derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules; and
4. Changes that occur in the character of the waste (i.e. changes in the process or new analytical) will be identified by the Generator and disclosed to WM (and the Contractor if applicable) prior to providing the waste to WM (and the Contractor if applicable).
5. Check all that apply:
   - ☑ Attached analytical pertains to the waste. Identify laboratory & sample ID #'s and parameters tested: Pace Analytical Services, Inc., Sample ID 5058279-001 (N Berm 1 - Grid), TCLP Lead # Pages: 8
   - ☐ Only the analyses identified on the attachment pertain to the waste (identify by laboratory & sample ID #'s and parameters tested). Attachment #: _____
   - ☐ Additional information necessary to characterize the profiled waste has been attached (other than analytical). Indicate the number of attached pages: _____
   - ☑ I am an agent signing on behalf of the Generator, and the delegation of authority to me from the Generator for this signature is available upon request.
   - ☐ By Generator process knowledge, the following waste is not a listed waste and is below all TCLP regulatory limits.

Certification Signature: [signature] Title: Project Manager

Company Name: T N & Associates, Inc. Name (Print): Cory Reiter, P.E.

Date: January 16, 2007

FOR WM USE ONLY

Management Method: ☒ Landfill ☐ Bioremediation Approval Decision: ☒ Approved ☐ Not Approved

☐ Non-hazardous solidification ☐ Other: _____ Waste Approval Expiration Date: 01/18/08

Management Facility Precautions, Special Handling Procedures or Limitation on approval: Not an IPW for generator certification No manifest or IS/WPL required

☐ Shall not contain free liquid
☐ Shipment must be scheduled into disposal facility
☐ Approval Number must accompany each shipment
☐ Waste Manifest must accompany load

WM Authorization Name / Title: [signature] Date: 01/18/07

State Authorization (if Required): _____ Date: _____

Generator's Nonhazardous Waste Profile Sheet

Requested Disposal Facility S & S Grading Landfill, Lawrence Profile Number UG285867

☐ Renewal for Profile Number _____ Waste Approval Expiration Date 01/18/08

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: U.S. Department of Navy
2. Site Address: Old Pistol Range
3. City/ZIP: Crane, 47522
4. State: IN
5. County: Martin County
6. Contact Name/Title: Cory Reiter
7. Email Address: creiter@tnainc.com
8. Phone: 618-659-4095
9. FAX: 618-659-4483
10. NAICS Code: 562910
11. Generator USEPA ID #: IN5170023498
12. State ID# (if applicable): NA

B. Customer Information ☐ same as above

P. O. Number: 5391

1. Customer Name: T N & Associates, Inc.
2. Billing Address: 1033 N. Mayfair Road, Suite 200
3. City, State and ZIP: Milwaukee, WI, 53226
4. Contact Name: Michele Bivens
5. Contact Email: mbivens@tnainc.com
6. Phone: 619-230-1712 x22 FAX: 619-291-8100
7. Transporter Name: Jeff Guisewite, Inc.
8. Transporter ID # (if appl.): S.W.H. Permit # 4302
9. Transporter Address: 16153 East 1100 Road
10. City, State and ZIP: Mt. Carmel, IL, 62863

C. Waste Stream Information

1. DESCRIPTION
   a. Common Waste Name: Lead Contaminated Soil State Waste Code(s): NA
   b. Describe Process Generating Waste or Source of Contamination:

   Firing Range Soil Berms

   c. Typical Color(s): Brown, Dark Brown, Black
   d. Strong Odor? ☐ Yes ☑ No Describe: _____
   e. Physical State at 70°F: ☑ Solid ☐ Liquid ☐ Powder ☐ Semi-Solid or Sludge ☐ Other: _____
   f. Layers? ☑ Single layer ☐ Multi- layer ☐ NA
   g. Water Reactive? ☐ Yes ☑ No If Yes, Describe: _____
   h. Free Liquid Range (%): _____ to _____ ☑ NA(solid)
   i. pH Range: ☐ ≤2 ☐ 2.1-12.4 ☐ ≥12.5 ☑ NA(solid) ☐ Actual: _____
   j. Liquid Flash Point: ☐ < 140°F ☐ ≥ 140°F ☑ NA(solid) ☐ Actual: _____
   k. Flammable Solid: ☐ Yes ☑ No
   l. Physical Constituents: List all constituents of waste stream - (e.g. Soil 0-80%, Wood 0-20%): ☐ (See Attached)

Constituents *(Total Composition Must be ≥ 100%)*	Concentration %	Constituents *(Total Composition Must be ≥ 100%)*	Concentration %
1. Soil	95%	4.	
2. Miscellaneous Debris	5%	5.	
3.		6.	

2. ESTIMATED QUANTITY OF WASTE AND SHIPPING INFORMATION
   a. ☑ Event ☐ Base/Ongoing (Check One)
   b. Estimated Annual Quantity: 76 ☑ Tons ☐ Cubic Yards ☐ Drums ☐ Gallons ☐ Other (specify): _____
   c. Shipping Frequency: 5 Total Truck Loads at 2 Units per ☐ Month ☐ Quarter ☐ Year ☑ One Time ☐ Other
   d. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If yes, answer e.) ☐ Yes ☑ No
   e. USDOT Shipping Description (if applicable): _____
3. SAFETY REQUIREMENTS (Handling, PPE, etc.): Modified Level D PPE (Tyvek Suits and Booties, Nitrile Gloves)

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CONTRACTOR'S SUBMITTAL TRANSMITTAL

CONTRACT NO.	TRANSMITTAL NO.	DATE
N40083-05-D-4014/FC09	304	14-Dec-06

FROM CONTRACTOR: D&T Environmental, LLC

TO: US Dept. of the Navy Midwest Div. Contract Specialist - Debbie Dills
NSA Crane, IN

PROJECT TITLE AND LOCATION: SWMU 7 Pistol Range

CONTRACTOR USE ONLY

List only one specification division per form

List only one of the following categories on each transmittal form and indicate which is being submitted

- [ ] Contractor Approval
- [x] Govt Approval
- [ ] Deviation/Substitution (Govt Approval)

REVIEWER USE ONLY — ACTION CODES

A- Approved
D- Disapproved
AN- Approved As Noted
ANR- Approved AS Noted Resubmit
RA- Receipt Acknowlaged

GOVERNMENT USE ONLY — ACTION CODES

A- Approved
D- Disapproved
AN- Approved As Noted
ANR- Approved AS Noted Resubmit
RA- Receipt Acknowlaged

ITEM	SPEC. SECT. & PARA. AND/OR DWG. NO.	ITEM IDENTIFICATION (TYPE, SIZE, MODEL NO., MFG. NAME, DRAWING OR BROCHURE NUMBER)	NUMBER OF COPIES	RECOMMENDED ACTION	REVIEWERS INITIALS	DATE	ACTION	REVIEWERS INITIALS	DATE
1	UFGS 01356A, 02370, and 02373	Geotextile Fabric for Temporary Construction Entrance, Temporary Access Roads, and Temporary Stream Crossing	Electronic	A	CMR	14-Dec-06	A	T.S.	12/14/06
2	UFGS 01356A, 02370, and 02373	Silt Fence	Electronic	A	CMR	14-Dec-06			

CONTRACTOR'S CERTIFICATION AND COMMENTS

IT IS HEREBY CERTIFIED THAT THE EQUIPMENT AND/OR MATERIAL SHOWN AND MARKED IN THIS SUBMITTL IS THAT PROPOSED TO BE INCORPORATED INTO THIS CONTRACT. IS INCOMPLIANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS, AND CAN BE INSTALLED IN THE ALLOCATED SPACES.

DATE RECEIVED BY REVIEWER

REVIEWER'S COMMENTS

DATE RECEIVED BY GOVT

GOVT COMMENTS

CONTRACTOR'S REPRESENTATIVE SIGNATURE	DATE	REVIEWER'S SIGNATURE	DATE	GOVT REP SIGNATURE	DATE
	14-Dec-06		14-Dec-06		12/14/06

SAFETY & BUILDING AVAILABILITY PERMIT
NON-ROUTINE REPAIR OR MAINTENANCE
NWSCC 10470/1 (REV. 12-78)

TO SAFETY SPECIALIST	TO Horrell Contracting
ISSUED TO Scm	DATE 22 January 2007

PERMIT TO PERFORM THE FOLLOWING WORK

DESCRIPTION OF WORK

- lead renovation of pistol range

Backhoe, excavator, track hoe, bulldozer, General hand tools

LOCATION AREA Demo BUILDING Range	DATES FROM 1-22-07 THROUGH 1-26-07

APPLICABLE SAFETY PRECAUTIONS

☐ General Safety Instructions on the reverse side deemed adequate.

☑ In addition to the General Safety Precautions on the reverse side, comply with the following:

- Call Walt Waggoner when entering / exiting area @ 854-1317
- Call ~~the~~ Walt Waggoner if run across ordanance larger than pistol or shotgun

BUILDING AVAILABLE AND WORK APPROVED

SIGNATURE (Supervisor) [illegible]

SIGNATURE (Issuing Safety Specialist) [illegible]