Nevada
Environmental
Restoration
Project

DOE/NV--1226

Closure Report for Corrective Action Unit 484: Surface Debris, Waste Sites, and Burn Area, Tonopah Test Range, Nevada

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September 2007

Environmental Restoration
Project

U.S. Department of Energy
National Nuclear Security Administration
Nevada Site Office

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**CLOSURE REPORT FOR
CORRECTIVE ACTION UNIT 484:
SURFACE DEBRIS, WASTE SITES, AND BURN AREA,
TONOPAH TEST RANGE, NEVADA**

**U.S. Department of Energy
National Nuclear Security Administration
Nevada Site Office
Las Vegas, Nevada**

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CORRECTIVE ACTION UNIT 484:
SURFACE DEBRIS, WASTE SITES, AND BURN AREA,
TONOPAH TEST RANGE, NEVADA**

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ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
CAS	Corrective Action Site
CAU	Corrective Action Unit
COC(s)	contaminant(s) of concern
COPC(s)	contaminant(s) of potential concern
CR	Closure Report
CSM	conceptual site model
DOE	U.S. Department of Energy
DQO	data quality objective(s)
DU	depleted uranium
DUS	Depleted Uranium Site
EPA	U.S. Environmental Protection Agency
FIDLER	field instrument for detecting low energy radiation
FFACO	<i>Federal Facility Agreement and Consent Order</i>
ft	foot (feet)
ft ³	cubic foot (feet)
gps	Global Positioning System
JTA	Joint Test Assembly
LLW	low-level waste
M&OC	Management and Operations Contractor
mg/kg	milligram(s) per kilogram
MPDT	Metal Particle Dispersion Test
Mt.	Mount
MTADS	multi-sensor towed array detection system
mV	millivolt(s)
NDEP	Nevada Division of Environmental Protection
NIOSH	National Institute for Occupational Safety and Health
NNSA/NSO	U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office
NNSA/NV	U.S. Department of Energy, National Nuclear Security Administration Nevada Operations Office

ACRONYMS AND ABBREVIATIONS (continued)

NTS	Nevada Test Site
PAL	preliminary action level
pCi/g	picoCuries(s) per gram
pCi/L	picoCuries(s) per liter
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
RMA	Radioactive Materials Area
RWMS	Radioactive Waste Management Site
SAFER	Streamlined Approach for Environmental Restoration
TTR	Tonopah Test Range
µg/L	micrograms per liter
UXO	unexploded ordnance
VSP	Visual Sample Plan
WMA	waste management area
yd ³	cubic yard(s)

EXECUTIVE SUMMARY

Corrective Action Unit (CAU) 484 is identified in the *Federal Facility Agreement and Consent Order* (FFACO, 1996) as Surface Debris, Waste Sites, and Burn Area (TTR). CAU 484 is located at the Tonopah Test Range, Nevada, and consists of the following six Corrective Action Sites (CASs):

- CAS RG-52-007-TAML, Davis Gun Penetrator Test
- CAS TA-52-001-TANL, NEDS Detonation Area
- CAS TA-52-004-TAAL, Metal Particle Dispersion Test
- CAS TA-52-005-TAAL, Joint Test Assembly DU Sites
- CAS TA-52-006-TAPL, Depleted Uranium Site
- CAS TA-54-001-TANL, Containment Tank and Steel Structure

CAU 484 closure activities started in November 2003 and were completed in August 2007. Activities were performed in accordance with the FFACO and the Streamlined Approach for Environmental Restoration (SAFER) Plan for CAU 484 (U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office, 2004b). The corrective action alternatives that were applied at each site consisted of clean closure and closure in place with best management practices.

CASs TA-52-001-TANL (NEDS Detonation Area), TA-52-004-TAAL (Metal Particle Dispersion Test), TA-52-005-TAAL (Joint Test Assembly DU Sites), and TA-52-006-TAPL (Depleted Uranium Site) were closed by locating, removing, and disposing of depleted uranium (DU) and soil that had been impacted by the DU. Drive-over radiological and geophysical surveys were conducted to locate radiological hotspots and metal fragments that could be radiologically contaminated. Soil samples were collected to assist in locating elevated radioactivity and beryllium, to determine the concentrations where radioactivity was elevated, and to confirm that excavation and removal activities had successfully reduced DU contamination to acceptable levels.

At CAS RG-52-007-TAML (Davis Gun Penetrator Test), aerial photography and multispectral surveys were conducted in addition to the drive-over radiological and geophysical surveys. The aerial surveys were performed to identify areas where historical excavations to recover penetrators were evident and to identify circular bermed areas where testing occurred. Locations where penetrators were most likely to be present were excavated at Pedro Lake, Antelope Lake, and Mount Helen. No penetrators were found at any of the excavation locations, and results of the investigation activities indicate that the penetrators were either recovered or are buried so deep as to not be a hazard to human health or the environment. However, DU was present in the soil at Antelope Lake. Although the DU locations could not be directly associated with Davis Gun penetrators, they also could not be disproved from being thus associated. DU was excavated where clean closure was feasible and closed in place where it was not, at four locations on Antelope Lake.

CAS TA-54-001-TANL (Containment Tank and Steel Structure) was an uncontaminated site that was closed by removing the uncontaminated structures and either recycling the materials or re-using them elsewhere.

DU and radiologically-impacted soil outside of the CAS boundaries was detected because the surveys covered areas larger than the CAS boundaries. Where concentrations exceeded the action levels established in the CAU 484 SAFER Plan, these areas were also excavated and cleaned up as a best management practice.

Closure activities generated approximately 343 cubic yards of low-level waste (LLW) and approximately 40 cubic yards of sanitary waste and recyclable materials. The LLW consisted of DU and radiologically-impacted soil that was containerized and will be transported to the Nevada Test Site for disposal at the Area 5 Radioactive Waste Management Site. The recyclable materials consisted of structure debris that was size-reduced and transported to the Sandia Salvage yard in Area 3 at the TTR.

This closure report documents the activities taken to close this CAU and includes cleanup verification sample results, waste disposition paperwork, and other supporting documentation.

1.0 INTRODUCTION

This Closure Report (CR) documents closure activities for Corrective Action Unit (CAU) 484, Surface Debris, Waste Sites, and Burn Area (TTR), according to the *Federal Facility Agreement and Consent Order* (FFACO, 1996) and the Streamlined Approach for Environmental Restoration (SAFER) Plan for CAU 484 (U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office [NNSA/NSO], 2004b). CAU 484 is located at the Tonopah Test Range (TTR), Nevada (Figure 1), and consists of the following six Corrective Action Sites (CASs):

- CAS RG-52-007-TAML, Davis Gun Penetrator Test
- CAS TA-52-001-TANL, NEDS Detonation Area
- CAS TA-52-004-TAAL, Metal Particle Dispersion Test (MPDT)
- CAS TA-52-005-TAAL, Joint Test Assembly (JTA) DU Sites
- CAS TA-52-006-TAPL, Depleted Uranium Site (DUS)
- CAS TA-54-001-TANL, Containment Tank and Steel Structure

1.1 PURPOSE

The purpose of this CR is to provide a summary of the completed closure activities, to document waste disposal, and to present analytical data confirming that the remediation goals were met. The closure alternatives consisted of clean closure and closure in place with implementation of best management practices.

1.2 SCOPE

The closure strategy for CAU 484 was as follows:

- CAS RG-52-007-TAML (Davis Gun Penetrator Test) was closed in place by investigating known Davis Gun Penetrator Test locations, identifying geophysical anomalies that were potential penetrators, and excavating DU-contaminated soil possibly associated with the Davis Gun tests. Suspected penetrator locations were excavated to identify the source of the geophysical anomalies on Antelope Lake, Pedro Lake, and at Mount (Mt.) Helen. No Davis Gun penetrator debris or DU was encountered during any of the exploratory excavations; therefore, NNSA/NSO and the Nevada Division of Environmental Protection (NDEP) agreed that no additional Davis Gun penetrator targets would be excavated or investigated. Investigating penetrators that may be present at depths greater than 10 feet (ft) below ground surface (bgs) is not feasible due to technology limitations and, at these depths, hazardous debris and/or depleted uranium (DU) does not pose a threat to human health and/or the environment. DU was found at locations not directly attributable to a Davis Gun penetrator and was excavated and clean closed where possible. Four locations on Antelope Lake were closed in place, one of which is not a CAU 484 site but which was completed as a best management practice.

- CAS TA-52-001-TANL (NEDS Detonation Area) was clean closed by removing and disposing of DU debris and contaminated soil.
- CAS TA-52-004-TAAL (MPDT) was clean closed by removing and disposing of DU debris and contaminated soil.
- CAS TA-52-005-TAAL (JTA DU Sites) was clean closed by locating, retrieving, and disposing of three DU rings that comprise the CAS.
- CAS TA-52-006-TAPL (DUS) was clean closed by removing and disposing of DU debris and contaminated soil.
- CAS TA-54-001-TANL (Containment Tank and Steel Structure) was clean closed by removing the uncontaminated metal and wood structures and either recycling the materials or re-using them elsewhere.

1.3 CLOSURE REPORT CONTENTS

This CR includes the following sections:

- Section 1.0 - Introduction
- Section 2.0 - Closure Activities
- Section 3.0 - Waste Disposition
- Section 4.0 - Closure Verification Results
- Section 5.0 - Conclusions and Recommendations
- Section 6.0 - References
- Appendix A - Data Quality Objectives
- Appendix B - Sample Analytical Results
- Appendix C - Waste Disposition Documentation
- Appendix D - Site Closure Photographs
- Appendix E - Position Paper – End State Meeting for Depleted Uranium and Davis Gun Targets, January 2007
- Appendix F - Position Paper – Initial Multi-Spectral, Electromagnetic, and Radiometric Survey Results, January 2006
- Appendix G - Position Paper – Depleted Uranium Closure in Place, August 2007
- Appendix H - UXO Report
- Appendix I - Multispectral Survey Report
- Appendix J - Statistics Reports
- Appendix K - Geophysics Reports
- Appendix L - Davis Gun Targets Table

- Appendix M - Radiological Surveys Report
- Appendix N - Imagery (Geophysical, Radiological, and Multispectral)
- Appendix O – Use Restriction Documentation
- Library Distribution List

This report was developed using information and guidance from the following documents:

- SAFER Plan for CAU 484 (NNSA/NSO, 2004b)
- *Nevada Environmental Restoration Project Industrial Sites Quality Assurance Project Plan (QAPP)* (U.S. Department of Energy, National Nuclear Security Administration Nevada Operations Office [NNSA/NV], 2002)

1.3.1 Data Quality Objectives

The data quality objectives (DQOs) used for closure of CAU 484 were presented in Appendix A of the SAFER Plan for CAU 484 (NNSA/NSO, 2004b) and are included as Appendix A of this report. Three conceptual site models (CSMs) were developed for CAU 484 based on process knowledge, historical information, and personnel interviews.

The first CSM, *Surface-Shallow Subsurface Debris*, includes CASs RG-52-007-TAML (Davis Gun Penetrator Test) and TA-52-005-TAAL (JTA DU Sites). This CSM assumes the primary source of potential contamination is discrete pieces of DU that fractured from the Davis Gun Penetrator and JTA tests. Although surface and shallow subsurface soil could be affected by DU from un-recovered penetrators and DU rings from these tests, the un-recovered penetrators and DU rings themselves were expected to be the only wastes at these sites.

The second CSM, *Surface Detonation Debris*, includes CASs TA-52-001-TANL (NEDS Detonation Area), TA-52-004-TAAL (MPDT), and TA-52-006-TAPL (DUS, “Colimbo”). This CSM assumes that DU and beryllium may be present as discrete fragments on the ground surface as a result of surface detonations. The assumption is that beryllium will be similarly dispersed to the DU because the beryllium and DU came from the same source and would have been dispersed in the same detonation, scattering beryllium (if present) to the same locations as DU.

The third CSM, *Non-Impacted Surface Debris*, addresses CAS TA-54-001-TANL (Containment Tank and Steel Structure) and assumes that the metal and wood structures that comprise the CAS are uncontaminated and can be either disposed of as construction debris or recycled.

In general, the CSMs were confirmed by closure activities. CSM confirmation and variations are identified below.

- The *Surface-Shallow Subsurface Debris* CSM was confirmed at CAS TA-52-005-TAAL (JTA DU Sites) by finding the three DU rings on Antelope Lake and DU-contaminated soil under the rings. One of the DU rings was found outside of the expected CAS boundary, indicating that the projectiles containing the DU rings had traveled farther than originally expected. For CAS RG-52-007-TAML (Davis Gun Penetrator Test), aerial photography and multispectral and geophysical surveys, used in conjunction with visual observations of surface features, indicated potential locations where Davis Gun Penetrators could be located. However, the only penetrator observed was a solid, inert slug (with no DU) on the ground

surface at Mt. Helen. All penetrator excavations on Antelope and Pedro Lakes contained practice ordnance from other test events and metallic debris. Excavation activities and interviews with project personnel indicate that the penetrators were most likely recovered after the test and that, if any penetrators were not recovered, they are at such depth that they do not pose a hazard. At the locations where DU was detected, it was oxidized and present in the soil as well as being in discrete pieces. This was a deviation from the CSM and was addressed in hold point meetings with NDEP. As a best management practice, the DU was excavated and clean closed, where possible, or closed in place with use restrictions.

- The *Surface Detonation Debris* CSM was confirmed by locating and removing DU and debris from the CASs on NEDS Lake and Antelope Lake. DU and chemical uranium were detected, removed, and disposed. Beryllium did not exceed action levels in any of the soil samples. Further investigation, after the SAFER Plan (NNSA/NSO, 2004b) had been completed, revealed that the boundary for CAS TA-52-001-TANL (NEDS Detonation Area) was incorrectly identified and was actually approximately 700 ft south of the original location. The boundary for TA-52-006-TAPL (DUS) was slightly modified to account for an offset dispersal of debris from the aerial detonation of the cruise missile.
- The *Non-Impacted Surface Debris* CSM was confirmed through removal and disposal of the surface debris and structures located at CAS TA-54-001-TANL.

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2.0 CLOSURE ACTIVITIES

This section details the specific activities completed during the closure of CAU 484, deviations from the CAU 484 SAFER Plan, the schedule of completed activities, and the final site plan. Photographs in Appendix D of this report document the state of the sites before corrective actions were implemented, during field work, and after completion of work.

2.1 DESCRIPTION OF CORRECTIVE ACTION ACTIVITIES

Closure activities for CAU 484 were completed according to the SAFER Plan (NNSA/NSO, 2004b) and based on other decisions made by the core decision team identified in the SAFER Plan. Closure activities consisted of aerial photography and multispectral surveys; drive-over radiological, geophysical, and unexploded ordnance (UXO) surveys; walk-over geophysical and radiological surveys; Geoprobe[®] investigation soil sample collection; exploratory excavations; and DU cleanup. The following sections detail the closure activities as completed. Due to the similarities of activities within each CSM, the closure activities will be presented by CSM, rather than in order of CAS number. Table 1 identifies the activities that were conducted at each CAS.

2.1.1 Preplanning and Site Preparation

Prior to closure activities, the following documents were prepared:

- *National Environmental Policy Act Checklist*
- Site-Specific Health and Safety Plan
- Field Management Plan
- NNSA/NSO Real Estate/Operations Permits
- Work control packages

2.1.2 Closure Activities – Surface Detonation Debris Sites

The surface detonation debris sites CSM consists of the following three CASs:

- CAS TA-52-001-TANL, NEDS Detonation Area, is located on the northern half of NEDS Lake. The SAFER Plan (NNSA/NSO, 2004b) shows ground zero at the northern edge of NEDS Lake; however, additional process knowledge uncovered during this investigation, along with investigation results, showed that the actual ground zero was slightly to the south of the originally identified area (Figure 2).
- CAS TA-52-006-TAPL, DUS (“Colimbo”), is located on the northern half of NEDS Lake, to the north of CAS TA-52-001-TANL. Ground zero of the test is marked on the playa surface by a survey monument; however, because the detonation was in the air, the actual area of dispersion was further to the northwest, in the direction of cruise missile travel, than originally presented in the SAFER Plan. The location of fine-particle deposition from the detonation is indicated by a circle with a 300-ft radius centered near ground zero of the

TABLE 1. CAU 484 CLOSURE ACTIVITIES FOR EACH CAS

CAS	CSM*	AERIAL PHOTOGRAPHY	MULTI- SPECTRAL SURVEYS	RADIOLOGICAL SURVEYS	GEOPHYSICAL SURVEYS	GEOPROBE SAMPLING	EXPLORATORY EXCAVATION	REMEDIAL EXCAVATION/ REMOVAL
RG-52-007-TAML (Davis Gun Penetrator Test)	B	X	X	X	X		X	X
TA-52-001-TANL (NEDS Detonation Area)	A	X	X	X	X	X		X
TA-52-004-TAAL (MPDT)	A	X	X	X	X	X		X
TA-52-005-TAAL (JTA DU Sites)	B	X	X	X	X			X
TA-52-006-TAPL (DUS)	A	X	X	X	X	X		X
TA-54-001-TANL (Tank & Structures)	C			X				X

* CSMs:

A – Surface detonation debris sites

B – Surface-shallow subsurface debris area

C – Non-impacted surface debris

impact, is shown in Figure 3. Surface and shallow subsurface soil was sampled within a 300-ft radius of the detonation area to access impact from fine particulates resulting from the detonation.

- CAS TA-52-004-TAAL, MPDT, is located in the northwest corner of Antelope Lake. The CAS is an area of approximately 2,000 ft by 3,000 ft that was bermed to keep the area from flooding after the test (NNSA/NSO, 2004b). Documentation found during the investigation confirmed the location of the detonation to be near the south end of the bermed area, and the ejecta from the detonation to have been mapped a considerable distance from the boundaries of the bermed area. Surface and shallow subsurface soil was sampled within a 300-ft radius of the detonation area (Figure 4) to access impact from fine particulates resulting from the detonation.

Based on the CSM, these sites are generally considered to be areas where normally distributed, discrete pieces of DU debris were expected to be present on the ground surface. The sources of the debris were test articles that were detonated on or above the ground surface. Associated debris was therefore expected to be occurring at the greatest concentrations near the point source of the detonation (i.e., ground zero) and decreasing in all directions away from that point. Beryllium was associated with the test objects and, if present, was expected to be co-located with the DU debris and similarly dispersed. DU and beryllium were the contaminants of potential concern (COPCs) for these sites.

During the investigation and closure activities, it was determined that much of the DU was not in discrete pieces on the ground surface. Most of the DU encountered on NEDS and Antelope Lakes was highly oxidized, and in some cases the uranium oxide had migrated along drying/expansion cracks in the lake bed. This required re-evaluation of the CSM and the characterization/closure approach. Detailed information regarding the surface detonation debris sites CSM can be found in the SAFER Plan (NNSA/NSO, 2004b). The DQOs from that document, which present the CSM, are also included in Appendix A of this document.

2.1.2.1 Radiological and Geophysical Drive-Over Surveys

Radiological and geophysical drive-over surveys were conducted on the northern half of NEDS Lake and the northern half of Antelope Lake to map the debris and DU dispersion patterns for subsequent cleanup activities. The SAFER Plan (NNSA/NSO, 2004b) provides additional detail on the boundaries of the survey areas and the objectives, methodology, and equipment used for these surveys. Surveys were conducted from November to December 2003, and May to June 2004. The geophysical and radiological surveys were suspended in June 2004, when potentially live UXO was found on Antelope Lake; however, surveys of the Surface Detonation Debris Sites were completed before the UXO was encountered.

Geophysical results of the Surface Detonation Debris Sites was generally inconclusive and did not provide a good indication of where CAS-specific testing-related metal or associated DU (and associated beryllium, if any) might be located on the dry lake beds. Numerous activities over the history of the TTR have left metal pieces and fragments scattered over the dry lake bed surfaces, and the geophysical survey detected thousands of metallic objects, which may or may not be related to the CAU 484 CASs. An example, showing the large number of geophysical (as well

as radiological) anomalies on a portion of NEDS Lake, is provided in Figure 5. Geophysical survey reports are provided in Appendix K, and associated imagery showing the geophysical anomalies is presented in Appendix N.

Radiological survey data were processed to confirm the presence of DU, and each location was identified by a unique target number and latitude-longitude coordinate. Each DU target was evaluated and assigned a grade of A, B, C, or D, depending on the quality of the spectra and their statistical significance. Three spectral peaks and associated, elevated radioactivity were used in the rankings. For example, an “A” ranking was assigned where all three targeted spectral peaks were present, and a “B” ranking was assigned where only two peaks were present. From the rankings, DU was found to be present at all locations ranked “A,” and at most locations ranked “B” or “C,” but not necessarily for those with a “D” ranking. Locations were ranked “D” if the radioactivity in the area appeared to have some statistical significance indicating possible elevated radioactivity; however, there were no discernable peaks. More details on the rankings and the radiological findings are presented in the radiological reports in Appendix M.

A description of the radiological survey methodology and findings is presented in Appendix M. Radiological and geophysical data were compiled in a Geographic Information System database to determine areas where a DU target was associated with one or more geophysical anomalies, which may suggest more numerous DU fragments or a larger fragment of DU in the subsurface. An example showing the radiological anomalies on NEDS Lake, without the geophysical anomalies, is provided in Figure 6. Imagery of radiological and geophysical survey results is presented in Appendix N.

2.1.2.1.1 CAS TA-52-001-TANL (NEDS Detonation Area)

The radiological survey identified seven locations of DU within the 300-ft radius testing location for the NEDS Detonation Area (i.e., NEDS 3, 6, 7, 8, 10, 13, and 14) (Figure 7). Additional DU was detected at locations outside of the 300-ft areas for either the NEDS Detonation Area or the DUS. Because of the nature of the detonation tests on NEDS Lake, DU associated with the NEDS tests could not be distinguished from DU resulting from the Colimbo (DUS) detonation. Therefore, all 20 DU targets identified and confirmed to be present on NEDS Lake were ultimately remediated. During the reacquisition and cleanup activities, several DU targets were confirmed to consist of several small areas of DU instead of the one large impacted area indicated by the initial survey data.

2.1.2.1.2 CAS TA-52-006-TAPL (DUS, “Colimbo”)

The radiological survey showed two locations of DU within the 300-ft radius testing location for the DUS (Figure 7). A Cobalt-60 radiological source (described in the SAFER Plan) was not found and is either not located on the northern portion of NEDS Lake, as was originally thought, or was removed some time in the past. Section 2.1.2.1.1 contains additional information about DU identified on NEDS Lake.

2.1.2.1.3 CAS TA-52-004-TAAL (MPDT)

The radiological survey identified numerous locations of DU within the MPDT berm, including one location where DU had substantially higher activity. All but the one “higher activity” DU locations were low-energy targets that were only slightly higher than background. The one “higher activity” location (SCA-33 in Figure 8) was within the CAS boundary. Because all of Antelope Lake was surveyed for radioactivity, the northern half intended to locate Davis Gun penetrators (CAS RG-52-007-TAML) as well as DU associated with the MPDT site, additional areas of elevated radioactivity were detected outside of the MPDT boundary. Other locations of DU identified on Figure 8 are addressed in this CR under either CAS RG-52-007-TAML (Davis Gun Penetrator Test) or CAS TA-52-005-TAAL (JTA DU Sites). All areas of DU confirmed to be present were located and remediated.

2.1.2.2 **Investigation Soil Sample Collection**

Soil samples were collected from within each of the Surface Detonation Debris CSM CAS boundaries to supplement the drive-over surveys and obtain additional information regarding radiological and chemical concentrations in the soil. The 300-ft radius area identified for each location was assumed to represent the area most likely to have been impacted by fine particulates as a result of the detonation. Larger fragments were assumed to have been dispersed further from the point of detonation and outside of the area selected for sampling. Samples were collected from locations generated by Visual Sample Plan (VSP) software (Pacific Northwest National Laboratory, 2005), with input parameters designed to detect a “hot spot” with a 95-percent confidence level of detection. For that level of confidence, 36 samples were collected from within each of the three CAS boundaries, from latitude and longitude coordinates identified by the program. Assumptions used to determine the required number of samples are included in the SAFER Plan. An additional 20 samples were collected, using the same methodology, from the south end of Pedro Lake (Figure 9). The Pedro Lake samples were collected to identify the background concentrations to be expected and against which to compare the CAS sample results. The Pedro Lake location was selected because it is a lake location least likely to have been used for tests of DU or beryllium projectiles, and no evidence of DU was found during the Kiwi radiological surveys of this area.

The sample location coordinates provided by VSP were located in the field using a handheld Global Positioning System (GPS). Samples were collected from 0-0.5 ft bgs and from 1.0-1.5 ft bgs using a Geoprobe. Samples were submitted for laboratory analysis to identify concentrations of DU, chemical uranium, and beryllium. Samples were submitted for laboratory analysis following standard chain of custody and Management and Operations Contractor (M&OC) procedures. Laboratory analytical reports are maintained in M&OC Environmental Restoration files in Mercury, Nevada. The analytical report summaries are presented in Appendix B.

Analytical results for soil samples collected from Pedro Lake are summarized in Tables 2 and 3. Beryllium was present in all samples at low concentrations, indicating the presence of beryllium at background levels of 1.7 milligrams per kilogram (mg/kg) or less. Chemical uranium was not present above detection levels in any of the background samples. Isotopic uranium (U-234, U-235, and U-238) was present but at low concentrations, much less than the corresponding action levels. COPCs and sampling rationale are documented in the SAFER Plan

FIGURE 9. PEDRO LAKE BACKGROUND SOIL SAMPLE LOCATIONS

TABLE 2. SOIL SAMPLE RESULTS FOR BERYLLIUM AT PEDRO LAKE

SAMPLE LOCATION	ANALYTICAL RESULTS ¹ (mg/kg) PAL ² = 1,900		PURPOSE
	0-0.5 ft bgs	1.0-1.5 ft bgs	
PDRO-01	1	0.67	Background
PDRO-02	0.84	0.94	Background
PDRO-03	0.83	0.61	Background
PDRO-04	1.4	1.2	Background
PDRO-05	0.87	0.64	Background
PDRO-06	1	1.6	Background
PDRO-07	1.2	0.81	Background
PDRO-08	1.2	0.93	Background
PDRO-09	1.1	1.6	Background
PDRO-10	1.4	1.6	Background
PDRO-11	1.1	0.73	Background
PDRO-12	1.2	1.5	Background
PDRO-13	1.2	1.4	Background
PDRO-14	1.4	0.6	Background
PDRO-15	1.3	1	Background
PDRO-16	1.2	0.95	Background
PDRO-17	1.5	1.5	Background
PDRO-18	1.4	1.7	Background
PDRO-19	1.5	1.4	Background
PDRO-20	1.2	1.6	Background
PDRO-21	1.4	1.3	QA ³ duplicate of PDRO-17
PDRO-R1	<0.2 µg/L		QA Equipment Rinsate Blank

¹ Quantitation limit is 0.01-0.02 mg/kg (0.2 µg/L for QA Equipment Rinsate Blank)

² PAL: preliminary action level

³ QA: Quality assurance

TABLE 3. SOIL SAMPLE RESULTS FOR URANIUM AT PEDRO LAKE

SAMPLE LOCATION ¹	ANALYTICAL RESULTS				PURPOSE
	URANIUM (mg/kg)	U-234 (pCi/g)	U-235 (pCi/g)	U-238 (pCi/g)	
	PAL = 200	PAL = 85.8	PAL = 10.56	PAL = 63	
PDRO-01A	<0.89	0.852	0.0292	0.82	Background
PDRO-01B	<0.9	0.883	0.0528	0.91	Background
PDRO-02A	<0.86	1.31	0.0761	1.22	Background
PDRO-02B	<0.91	1.07	0.0492	0.963	Background
PDRO-03A	<0.88	0.947	0.0388	0.891	Background
PDRO-03B	<0.9	0.823	0.0348	0.784	Background
PDRO-04A	<0.91	1.28	0.0442	1.17	Background
PDRO-04B	<0.95	1.01	0.0499	1.05	Background
PDRO-05A	<0.87	0.981	0.0592	0.955	Background
PDRO-05B	<0.9	1.69	0.0628	1.32	Background
PDRO-06A	<0.9	0.824	0.0554	0.807	Background
PDRO-06B	<0.99	1.12	0.0758	1.12	Background
PDRO-07A	<0.9	1.52	0.0651	1.3	Background
PDRO-07B	<0.91	0.883	0.0516	0.884	Background
PDRO-08A	<0.91	0.997	0.0669	1.04	Background
PDRO-08B	<0.89	0.99	0.0397	0.794	Background
PDRO-09A	<0.91	1.23	0.0666	1.09	Background
PDRO-09B	<0.95	0.956	0.0546	1.01	Background
PDRO-10A	<0.96	1.08	0.0483	0.952	Background
PDRO-10B	<0.96	1.11	0.0485	1.08	Background
PDRO-11A	<0.89	1.18	0.0552	1.05	Background
PDRO-11B	<0.9	1.14	0.0638	1.05	Background
PDRO-12A	<0.91	1.43	0.0673	1.17	Background
PDRO-12B	<0.95	1.05	0.0593	1.03	Background
PDRO-13A	<0.91	1.42	0.0658	1.17	Background
PDRO-13B	<0.94	1.28	0.0801	1.15	Background
PDRO-14A	<0.97	0.981	0.0481	0.988	Background
PDRO-14B	<0.86	0.908	0.0454	0.889	Background
PDRO-15A	<0.87	1.17	0.0562	0.959	Background
PDRO-15B	<0.89	1.13	0.0528	1.15	Background
PDRO-16A	<0.9	1.11	0.0472	1.01	Background
PDRO-16B	<0.91	1.08	0.0485	1.04	Background
PDRO-17A	<0.89	1.41	0.0647	1.16	Background

TABLE 3. SOIL SAMPLE RESULTS FOR URANIUM AT PEDRO LAKE (CONTINUED)

SAMPLE LOCATION ¹	ANALYTICAL RESULTS				PURPOSE
	URANIUM (mg/kg)	U-234 (pCi/g)	U-235 (pCi/g)	U-238 (pCi/g)	
	PAL = 200	PAL = 85.8	PAL = 10.56	PAL = 63	
PDRO-17B	<0.94	1.2	0.0608	1.11	Background
PDRO-18A	<0.91	1.4	0.0538	1.2	Background
PDRO-18B	<0.96	1.15	0.0508	1.09	Background
PDRO-19A	<0.91	1.41	0.0705	1.25	Background
PDRO-19B	<0.93	1.31	0.0541	1.22	Background
PDRO-20A	<0.89	1.37	0.0745	1.19	Background
PDRO-20B	<0.93	1.22	0.0735	1.14	Background
PDRO-21A	<0.9	1.45	0.0733	1.22	QA duplicate of PDRO-17A
PDRO-21B	<0.94	1.21	0.0486	1.15	QA duplicate of PDRO-17B
PDRO-R1 ²	<8.8 µg/L	<0.0295	<0.0012	<0.0103	QA-Equipment Rinsate Blank

¹ “A” sample collected from 0.0-0.5 ft bgs, “B” sample collected from 1.0-1.5 ft bgs.

² Quality Assurance blank in liquid units (i.e., µg/L or picoCuries per liter [pCi/L]).

(NNSA/NSO, 2004b). Several additional COPCs were identified for CAS TA-52-006-TAPL (DUS) as a result of additional investigation of Los Alamos National Laboratory records. Samples were collected to establish local background concentrations for these additional metal COPCs.

A statistical analysis of analytical data from investigation samples is provided in Appendix J and is summarized in Sections 4.1.1.1.2 and 4.1.1.2.

2.1.2.2.1 CAS TA-52-001-TANL (NEDS Detonation Area)

Sample locations for the NEDS Detonation Area are shown in Figure 10. Analytical results for the soil samples are summarized in Tables 4 and 5. Beryllium was detected at all sample locations; however, concentrations were all less than 2 mg/kg, less than the 1,900 mg/kg action level for beryllium and approximately the same concentrations as the background concentrations detected at Pedro Lake. Isotopic uranium (U-234, U-235, and U-238) was detected at numerous locations; however, all concentrations were less than the associated action levels.

The chemical uranium was detected at four locations. One sample location (sample number NEDS-14B, identified as NEDS-14 [GP] in Figure 7), at 325 mg/kg, exceeded the 200 mg/kg action level. This location also corresponds with ground zero of the detonation and with one of the areas of elevated radioactivity (NEDS 3) detected by the radiological drive-over survey. Uranium is a contaminant of concern (COC) for this CAS.

2.1.2.2.2 CAS TA-52-006-TAPL (DUS, Colimbo)

Sample locations for the DUS are shown in Figure 11. Analytical results for soil samples collected from the DUS are summarized in Tables 6 and 7. Beryllium was detected at all sample locations; however, concentrations were all less than 1.5 mg/kg, which is less than the 1,900 mg/kg action level for beryllium and similar to the background concentrations detected at Pedro Lake. Isotopic uranium (U-234, U-235, and U-238) was detected at numerous locations; however, all isotopic uranium concentrations were less than the associated action levels. The chemical uranium was not present above action levels at any sample location.

Although analytical results of soil samples collected near the point of detonation showed no indication of contamination above action levels, the radiological drive-over survey detected areas of DU contamination that were determined to be fragments on the ground surface with limited soil contamination.

2.1.2.2.3 CAS TA-52-004-TAAL (MPDT)

Sample locations for the MPDT area are shown in Figure 12. Analytical results for soil samples collected from the MPDT area are summarized in Tables 8 and 9. Beryllium was detected at all sample locations; however, concentrations were all less than 2 mg/kg, less than the 1,900 mg/kg action level for beryllium and approximately the same concentrations as the background concentrations detected at Pedro Lake. Isotopic uranium (U-234, U-235, and U-238) was detected at numerous locations in the MPDT area; however, all concentrations were less than the associated action levels. The chemical uranium, which was detected at two locations with concentrations of 2.3 and 2.6 mg/kg, also did not exceed the 200 mg/kg action level.

**TABLE 4. SOIL SAMPLE RESULTS FOR BERYLLIUM AT CAS TA-52-001-TANL,
NEDS DETONATION AREA**

SAMPLE LOCATION	ANALYTICAL RESULTS ¹ (mg/kg) PAL = 1,900		PURPOSE
	0-0.5 ft bgs	1.0-1.5 ft bgs	
NEDS-01	1.3	1.4	Investigation
NEDS-02	1.3	1.3	Investigation
NEDS-03	1.2	1.3	Investigation
NEDS-04	1.1	0.99	Investigation
NEDS-05	1.1	1.7	Investigation
NEDS-06	1.3	0.98	Investigation
NEDS-07	1.1	1.4	Investigation
NEDS-08	1.1	1.4	Investigation
NEDS-09	1.2	1.1	Investigation
NEDS-10	1.2	1.3	Investigation
NEDS-11	0.96	0.8	Investigation
NEDS-12	1.1	1.4	Investigation
NEDS-13	0.95	1.4	Investigation
NEDS-14	0.71	3.2	Investigation
NEDS-15	0.91	0.89	Investigation
NEDS-16	1.1	0.95	Investigation
NEDS-17	1.1	1.2	Investigation
NEDS-18	0.95	1.1	Investigation
NEDS-19	0.85	1.3	Investigation
NEDS-20	0.92	1.2	Investigation
NEDS-21	0.85	1	Investigation
NEDS-22	1	1	Investigation
NEDS-23	1.2	1.5	Investigation
NEDS-24	1.2	1.2	Investigation
NEDS-25	1.1	1.3	Investigation
NEDS-26	1	1.2	Investigation
NEDS-27	1.2	1.2	Investigation
NEDS-28	0.89	1.2	Investigation
NEDS-29	0.93	1.5	Investigation
NEDS-30	0.98	1.5	Investigation
NEDS-31	0.85	1.2	Investigation
NEDS-32	0.71	0.95	Investigation
NEDS-33	0.86	1.6	Investigation

**TABLE 4. SOIL SAMPLE RESULTS FOR BERYLLIUM AT CAS TA-52-001-TANL,
NEDS DETONATION AREA (CONTINUED)**

SAMPLE LOCATION	ANALYTICAL RESULTS ¹ (mg/kg) PAL = 1,900		PURPOSE
	0-0.5 ft bgs	1.0-1.5 ft bgs	
NEDS-34	1.1	1.2	Investigation
NEDS-35	0.83	1.5	Investigation
NEDS-36	0.96	1.4	Investigation
NEDS-37	1	1.1	QA Duplicate (NEDS-10)
NEDS-38	0.91	1	QA Duplicate (NEDS-20)
NEDS-R1	0.21 µg/L		QA Equipment Rinsate Blank

¹ Quantitation limit is 0.01-0.02 mg/kg (0.2 µg/L for QA Equipment Rinsate Blank)

**TABLE 5. SOIL SAMPLE RESULTS FOR URANIUM AT CAS TA-52-001-TANL,
NEDS DETONATION AREA**

SAMPLE LOCATION ¹	ANALYTICAL RESULTS				PURPOSE
	URANIUM (mg/kg)	U-234 (pCi/g)	U-235 (pCi/g)	U-238 (pCi/g)	
	PAL = 200	PAL = 85.8	PAL = 10.56	PAL = 63	
NEDS-01A	<2.2	1.78	<-0.0616	1.02	Investigation
NEDS-01B	<2.2	1.19	<0.221	1.38	Investigation
NEDS-02A	<2.2	1.80	<0.154	1.24	Investigation
NEDS-02B	<2.3	1.03	<0.0563	0.786	Investigation
NEDS-03A	<2.1	1.32	<-0.0827	0.719	Investigation
NEDS-03B	<2.2	<0.773	<0.0296	0.633	Investigation
NEDS-04A	<2.2	1.66	<0.0432	1.27	Investigation
NEDS-04B	<2.2	<0.770	<0.194	<0.665	Investigation
NEDS-05A	<2.3	1.06	<-0.0781	1.15	Investigation
NEDS-05B	<2.4	<0.633	<0.299	<0.628	Investigation
NEDS-06A	<2.1	<0.418	<0.096	0.917	Investigation
NEDS-06B	<2.2	1.54	<0.0564	<0.659	Investigation
NEDS-07A	<2.2	<0.733	<0.299	<0.267	Investigation
NEDS-07B	<2.3	<0.847	<-0.211	<0.714	Investigation
NEDS-08A	<2.2	1.61	<0.149	<0.673	Investigation
NEDS-08B	<2.2	1.39	<0.0545	<0.527	Investigation
NEDS-09A	<2.2	<0.379	<0.126	0.931	Investigation
NEDS-09B	<2.2	<0.700	<-0.139	<0.419	Investigation
NEDS-10A	<2.1	<0.544	<-0.0526	0.987	Investigation
NEDS-10B	<2.2	1.97	<0.218	1.07	Investigation
NEDS-11A	<2.1	1.55	0.383	1.13	Investigation
NEDS-11B	<2.2	1.24	<0.0031	2.32	Investigation
NEDS-12A	<2.1	1.51	<0.102	1.15	Investigation
NEDS-12B	<2.2	1.42	<0.130	1.46	Investigation
NEDS-13A	<2.2	1.83	<0.217	1.91	Investigation
NEDS-13B	<2.2	1.68	<0.00277	1.21	Investigation
NEDS-14A	27.1	1.91	<-0.0713	4.84	Investigation
NEDS-14B	325 ²	1.96	<0.267	8.24	Investigation
NEDS-15A	<2.2	1.69	<0.134	1.79	Investigation
NEDS-15B	<2.3	1.89	<0.0775	1.66	Investigation
NEDS-16A	<2.2	1.77	<0.0413	1.84	Investigation
NEDS-16B	<2.2	1.84	<0.215	1.87	Investigation
NEDS-17A	<2.1	1.72	<0.133	0.992	Investigation

**TABLE 5. SOIL SAMPLE RESULTS FOR URANIUM AT CAS TA-52-001-TANL,
NEDS DETONATION AREA (CONTINUED)**

SAMPLE LOCATION ¹	ANALYTICAL RESULTS				PURPOSE
	URANIUM (mg/kg)	U-234 (pCi/g)	U-235 (pCi/g)	U-238 (pCi/g)	
	PAL = 200	PAL = 85.8	PAL = 10.56	PAL = 63	
NEDS-17B	<2.2	1.29	<-0.0181	1.72	Investigation
NEDS-18A	<2.1	1.53	<-0.0334	1.41	Investigation
NEDS-18B	<2.3	1.46	<0.154	2.02	Investigation
NEDS-19A	<2.2	1.30	<0.0247	0.786	Investigation
NEDS-19B	<2.2	1.99	<0.112	1.96	Investigation
NEDS-20A	<2.1	1.65	<0.250	1.33	Investigation
NEDS-20B	<2.2	1.69	<0.185	1.26	Investigation
NEDS-21A	<2.2	1.21	<0.195	<0.264	Investigation
NEDS-21B	<2.2	3.19	<0.815	<0.660	Investigation
NEDS-22A	<2.2	2.14	<0.241	1.36	Investigation
NEDS-22B	<2.2	2.00	0.991	<0.902	Investigation
NEDS-23A	<2.2	<1.15	<0.356	<0.440	Investigation
NEDS-23B	<2.3	2.76	<0.330	1.96	Investigation
NEDS-24A	<2.2	2.18	<0.328	<0.887	Investigation
NEDS-24B	<2.3	2.28	<0.704	<0.997	Investigation
NEDS-25A	<2.2	1.63	<0.459	1.11	Investigation
NEDS-25B	<2.2	<1.00	<0.368	<1.29	Investigation
NEDS-26A	<2.2	<1.03	<0.678	1.69	Investigation
NEDS-26B	<2.2	<1.08	<0.419	<0.624	Investigation
NEDS-27A	<2.1	1.24	<0.417	<1.01	Investigation
NEDS-27B	<2.2	1.54	<0.380	0.835	Investigation
NEDS-28A	<2.1	2.86	<0.363	1.54	Investigation
NEDS-28B	<2.2	2.73	<0.544	1.23	Investigation
NEDS-29A	<2.2	2.24	<0.427	<0.777	Investigation
NEDS-29B	<2.2	1.94	<0.221	<1.18	Investigation
NEDS-30A	<2.1	2.04	<0.473	1.21	Investigation
NEDS-30B	<2.3	1.81	<0.172	0.835	Investigation
NEDS-31A	<2.1	3.95	0.955	1.46	Investigation
NEDS-31B	<2.1	<1.03	<0.426	2.16	Investigation
NEDS-32A	48.7	4.45	0.860	5.71	Investigation
NEDS-32B	3.4	14.6	4.10	7.29	Investigation
NEDS-33A	<2.1	<1.26	<0.502	<0.740	Investigation
NEDS-33B	<2.1	3.49	1.08	1.59	Investigation

**TABLE 5. SOIL SAMPLE RESULTS FOR URANIUM AT CAS TA-52-001-TANL,
NEDS DETONATION AREA (CONTINUED)**

SAMPLE LOCATION ¹	ANALYTICAL RESULTS				PURPOSE
	URANIUM (mg/kg)	U-234 (pCi/g)	U-235 (pCi/g)	U-238 (pCi/g)	
	PAL = 200	PAL = 85.8	PAL = 10.56	PAL = 63	
NEDS-34A	<2.1	3.32	<0.438	<0.306	Investigation
NEDS-34B	<2.1	<1.41	<-0.207	<0.964	Investigation
NEDS-35A	<2.1	1.88	<0.271	<0.878	Investigation
NEDS-35B	<2.1	2.38	<0.759	<1.46	Investigation
NEDS-36A	<2.2	0.804	<0.298	1.45	Investigation
NEDS-36B	<2.1	<1.03	<1.10	<0.457	Investigation
NEDS-37A	<2.2	2.29	<0.709	1.15	QA-Duplicate (NEDS-10A)
NEDS-37B	<2.1	3.06	1.51	2.37	QA-Duplicate (NEDS-10B)
NEDS-38A	<2.1	2.53	<0.579	1.78	QA-Duplicate (NEDS-20A)
NEDS-38B	<2.2	1.69	0.919	1.55	QA-Duplicate (NEDS-20B)
NEDS-R1 ³	<21.4 µg/L	2.01 pCi/L	<0.619 pCi/L	<-0.00335 pCi/L	QA-Equipment Rinsate Blank

¹ “A” sample collected from 0.0-0.5 ft bgs, “B” sample collected from 1.0-1.5 ft bgs.

² Exceeds action level.

³ Quality Assurance blank in liquid units (i.e., µg/L or pCi/L).

TABLE 6. SOIL SAMPLE RESULTS FOR BERYLLIUM AT CAS TA-52-006-TAPL, DUS

SAMPLE LOCATION	ANALYTICAL RESULTS (mg/kg) PAL = 1,900		PURPOSE
	0-0.5 ft bgs	1.0-1.5 ft bgs	
DUS-01	1.2	0.53	Investigation
DUS-02	1.1	0.94	Investigation
DUS-03	1.2	0.96	Investigation
DUS-04	1.1	1.4	Investigation
DUS-05	1.1	0.48	Investigation
DUS-06	1.1	0.57	Investigation
DUS-07	1.1	0.93	Investigation
DUS-08	1.3	0.82	Investigation
DUS-09	1.2	1	Investigation
DUS-10	0.99	0.89	Investigation
DUS-11	1.1 (J) ¹	0.88 (J)	Investigation
DUS-12	1.2 (J)	0.65 (J)	Investigation
DUS-13	0.96 (J)	1.2 (J)	Investigation
DUS-14	1.1 (J)	1.4 (J)	Investigation
DUS-15	1.1 (J)	1 (J)	Investigation
DUS-16	1.1 (J)	0.56 (J)	Investigation
DUS-17	0.92 (J)	0.72 (J)	Investigation
DUS-18	1.3 (J)	1.4 (J)	Investigation
DUS-19	1.2 (J)	1.1 (J)	Investigation
DUS-20	1.1 (J)	1.1 (J)	Investigation
DUS-21	0.68	0.83	Investigation
DUS-22	1.1	0.51	Investigation
DUS-23	1.1	0.75	Investigation
DUS-24	1.1	0.84	Investigation
DUS-25	0.95	1.3	Investigation
DUS-26	0.95	0.61	Investigation
DUS-27	0.99	0.98	Investigation
DUS-28	1.1	1.5	Investigation
DUS-29	1.1	0.79	Investigation
DUS-30	0.98	0.53	Investigation
DUS-31	0.88	0.57	Investigation
DUS-32	0.94	0.71	Investigation
DUS-33	1	0.43	Investigation

**TABLE 6. SOIL SAMPLE RESULTS FOR BERYLLIUM AT
CAS TA-52-006-TAPL, DUS (CONTINUED)**

SAMPLE LOCATION	ANALYTICAL RESULTS (mg/kg)		PURPOSE
	0-0.5 ft bgs	1.0-1.5 ft bgs	
DUS-34	0.94	0.86	Investigation
DUS-35	1.1	0.85	Investigation
DUS-36	1.1	0.83	Investigation
DUS-37	0.99	0.88	QA Duplicate (DUS-10)
DUS-38	1.1	0.91	QA Duplicate (DUS-20)
DUS-R1	<0.2 µg/L		QA Equipment Rinsate Blank

¹ (J). Qualifier added because value is estimated due to interference. Quantitation limit is 0.02 mg/kg (0.2 µg/L for DUS-R1).

TABLE 7. SOIL SAMPLE RESULTS FOR URANIUM AT CAS TA-52-006-TAPL, DUS

SAMPLE LOCATION ¹	ANALYTICAL RESULTS				PURPOSE
	URANIUM (mg/kg)	U-234 (pCi/g)	U-235 (pCi/g)	U-238 (pCi/g)	
	PAL = 200	PAL = 85.8	PAL = 10.56	PAL = 63	
DUS-01A	<2.2	<0.363	<0.0826	<0.725	Investigation
DUS-01B	<2.2	3.43	0.910	<0.922	Investigation
DUS-02A	<2.2	1.54	<-0.0762	1.93	Investigation
DUS-02B	<2.3	1.55	<-0.184	<0.146	Investigation
DUS-03A	<2.2	<1.31	<0.544	<-0.108	Investigation
DUS-03B	<2.2	2.25	0.744	2.11	Investigation
DUS-04A	<2.1	<1.18	<0.364	1.56	Investigation
DUS-04B	<2.2	3.83	<0.690	2.63	Investigation
DUS-05A	<2.2	2.40	<1.05	1.39	Investigation
DUS-05B	<2.3	<0.475	<-0.0677	<0.247	Investigation
DUS-06A	<2.2	<1.07	<1.11	<0.193	Investigation
DUS-06B	<2.2	1.89	0.426	1.03	Investigation
DUS-07A	<2.2	<0.621	<0.158	<1.19	Investigation
DUS-07B	<2.2	3.24	1.20	2.10	Investigation
DUS-08A	<2.2	<0.852	<-0.0665	<0.906	Investigation
DUS-08B	<2.2	<1.51	<0.653	<1.21	Investigation
DUS-09A	<2.2	1.80	<-0.244	<1.04	Investigation
DUS-09B	<2.2	<0.865	<0.451	<-0.0787	Investigation
DUS-10A	<2.2	2.19	<0.245	2.12	Investigation
DUS-10B	<2.3	2.33	<-0.187	<0.596	Investigation
DUS-11A	<2.1	<0.861	<0.525	<0.649	Investigation
DUS-11B	<2.2	1.97	<0.122	<0.786	Investigation
DUS-12A	<2.2	<0.127	<0.0782	1.58	Investigation
DUS-12B	<2.2	1.85	<-0.0589	<0.397	Investigation
DUS-13A	<2.1	1.92	<0.518	<-0.18	Investigation
DUS-13B	<2.3	<1.48	0.344	1.58	Investigation
DUS-14A	<2.1	2.33	<0.638	<1.14	Investigation
DUS-14B	<2.2	2.67	<0.0719	1.57	Investigation
DUS-15A	<2.2	<1.63	<0.758	<-0.221	Investigation
DUS-15B	<2.3	1.99	<0.157	<0.405	Investigation
DUS-16A	<2.2	<1.68	<0.792	<0.519	Investigation
DUS-16B	<2.2	<1.19	<-0.538	<0.404	Investigation
DUS-17A	<2.1	<0.968	0.00	<0.958	Investigation

TABLE 7. SOIL SAMPLE RESULTS FOR URANIUM AT CAS TA-52-006-TAPL, DUS (CONTINUED)

SAMPLE LOCATION ¹	ANALYTICAL RESULTS				PURPOSE
	URANIUM (mg/kg)	U-234 (pCi/g)	U-235 (pCi/g)	U-238 (pCi/g)	
	PAL = 200	PAL = 85.8	PAL = 10.56	PAL = 63	
DUS-17B	<2.2	1.60	<0.420	1.55	Investigation
DUS-18A	<2.1	<1.20	<0.143	<0.536	Investigation
DUS-18B	<2.2	2.26	<-0.202	<0.789	Investigation
DUS-19A	<2.1	<0.905	<-0.049	<0.849	Investigation
DUS-19B	<2.2	<1.30	<-0.117	<1.79	Investigation
DUS-20A	<2.1	1.86	<-0.0525	1.51	Investigation
DUS-20B	<2.2	2.40	<0.473	<1.35	Investigation
DUS-21A	<2.2	1.6	<0.14	2.42	Investigation
DUS-21B	2.4	<0.421	<0.308	<0.457	Investigation
DUS-22A	<2.2	1.17	<0.471	<0.586	Investigation
DUS-22B	<2.2	<0.790	<-0.354	<0.218	Investigation
DUS-23A	<2.2	1.28	<-0.192	<0.255	Investigation
DUS-23B	<2.3	<0.885	<0.378	<0.673	Investigation
DUS-24A	<2.1	1.90	<0.0379	<0.690	Investigation
DUS-24B	<2.2	0.974	<0.138	<0.678	Investigation
DUS-25A	<2.1	1.94	<0.179	1.32	Investigation
DUS-25B	<2.2	2.09	<-0.104	<0.615	Investigation
DUS-26A	<2.2	1.34	<0.0333	1.07	Investigation
DUS-26B	<2.2	1.07	<0.175	<0.448	Investigation
DUS-27A	<2.2	1.59	<-0.0178	<0.590	Investigation
DUS-27B	<2.2	1.18	<0.0457	<0.861	Investigation
DUS-28A	<2.2	1.05	<0.392	<0.809	Investigation
DUS-28B	<2.3	3.75	<0.354	3.11	Investigation
DUS-29A	<2.2	<0.516	<0.0671	<0.664	Investigation
DUS-29B	<2.2	<0.738	<-0.116	<0.969	Investigation
DUS-30A	<2.2	1.22	<-0.209	<0.706	Investigation
DUS-30B	<2.2	1.44	<0.156	<0.826	Investigation
DUS-31A	<2.2	3.84	0.566	2.11	Investigation
DUS-31B	<2.2	5.51	1.01	1.84	Investigation
DUS-32A	<2.2	1.93	<0.435	2.27	Investigation
DUS-32B	<2.3	2.05	<0.487	<0.709	Investigation
DUS-33A	<2.2	4.06	<0.535	1.82	Investigation
DUS-33B	<2.2	2.12	<0.358	1.45	Investigation

TABLE 7. SOIL SAMPLE RESULTS FOR URANIUM AT CAS TA-52-006-TAPL, DUS (CONTINUED)

SAMPLE LOCATION ¹	ANALYTICAL RESULTS				PURPOSE
	URANIUM (mg/kg)	U-234 (pCi/g)	U-235 (pCi/g)	U-238 (pCi/g)	
	PAL = 200	PAL = 85.8	PAL = 10.56	PAL = 63	
DUS-34A	<2.2	2.84	0.892	1.81	Investigation
DUS-34B	<2.2	3.23	1.16	2.50	Investigation
DUS-35A	<2.2	4.10	<0.374	<0.994	Investigation
DUS-35B	<2.3	1.59	<-0.217	<1.29	Investigation
DUS-36A	<2.2	3.55	1.55	1.85	Investigation
DUS-36B	<2.3	2.44	<0.583	1.18	Investigation
DUS-37A	<2.1	2.28	<0.273	1.55	QA Duplicate (DUS-10A)
DUS-37B	<2.3	2.66	<0.0671	1.36	QA Duplicate (DUS-10B)
DUS-38A	<2.2	<1.10	<-0.0957	<0.613	QA Duplicate (DUS-20A)
DUS-38B	<2.2	<1.36	<0.316	<0.583	QA Duplicate (DUS-20B)
DUS-R1 ²	<21.4 µg/L	<1.90 pCi/L	<-0.32 pCi/L	<1.08 pCi/L	QA Equipment Rinsate Blank

¹ “A” sample collected from 0.0-0.5 ft bgs, “B” sample collected from 1.0-1.5 ft bgs.

² Quality Assurance blank in liquid units (i.e., µg/L or pCi/L).

MPDT

LOCATION	LATITUDE DegDec	LONGITUDE DegDec	LATITUDE DMS	LONGITUDE DMS	X Coord UTM Zone 11 (Easting)	Y Coord UTM Zone 11 (Northing)
1	37.895194	-116.883527	37° 41' 42.7"	-116° 41' 00.7"	527899.2107	4172043.7884
2	37.895194	-116.883166	37° 41' 42.7"	-116° 40' 59.4"	527930.9147	4172043.7884
3	37.895444	-116.884083	37° 41' 43.6"	-116° 41' 02.7"	527851.6547	4172071.2449
4	37.895444	-116.883722	37° 41' 43.6"	-116° 41' 01.4"	527883.3587	4172071.2449
5	37.895444	-116.883361	37° 41' 43.6"	-116° 41' 00.1"	527915.0627	4172071.2449
6	37.895444	-116.883	37° 41' 43.6"	-116° 40' 58.8"	527946.7667	4172071.2449
7	37.895444	-116.882638	37° 41' 43.6"	-116° 40' 57.5"	527978.4707	4172071.2449
8	37.895694	-116.88425	37° 41' 44.5"	-116° 41' 03.3"	527835.8027	4172098.7013
9	37.895694	-116.883888	37° 41' 44.5"	-116° 41' 02.0"	527867.5067	4172098.7013
10	37.895694	-116.883527	37° 41' 44.5"	-116° 41' 00.7"	527899.2107	4172098.7013
11	37.895694	-116.883166	37° 41' 44.5"	-116° 40' 59.4"	527930.9147	4172098.7013
12	37.895694	-116.882805	37° 41' 44.5"	-116° 40' 58.1"	527962.6187	4172098.7013
13	37.895694	-116.882444	37° 41' 44.5"	-116° 40' 56.8"	527994.3227	4172098.7013
14	37.895944	-116.884083	37° 41' 45.4"	-116° 41' 02.7"	527851.6547	4172126.1578
15	37.895944	-116.883722	37° 41' 45.4"	-116° 41' 01.4"	527883.3587	4172126.1578
16	37.895944	-116.883361	37° 41' 45.4"	-116° 41' 00.1"	527915.0627	4172126.1578
17	37.895944	-116.883	37° 41' 45.4"	-116° 40' 58.8"	527946.7667	4172126.1578
18	37.895944	-116.882638	37° 41' 45.4"	-116° 40' 57.5"	527978.4707	4172126.1578
19	37.896194	-116.88425	37° 41' 46.3"	-116° 41' 03.3"	527835.8027	4172153.6143
20	37.896194	-116.883888	37° 41' 46.3"	-116° 41' 02.0"	527867.5067	4172153.6143
21	37.896194	-116.883527	37° 41' 46.3"	-116° 41' 00.7"	527899.2107	4172153.6143
22	37.896166	-116.883166	37° 41' 46.2"	-116° 40' 59.4"	527930.9147	4172153.6143
23	37.896166	-116.882805	37° 41' 46.2"	-116° 40' 58.1"	527962.6187	4172153.6143
24	37.896166	-116.882444	37° 41' 46.2"	-116° 40' 56.8"	527994.3227	4172153.6143
25	37.896416	-116.884083	37° 41' 47.1"	-116° 41' 02.7"	527851.6547	4172181.0707
26	37.896416	-116.883722	37° 41' 47.1"	-116° 41' 01.4"	527883.3587	4172181.0707
27	37.896416	-116.883361	37° 41' 47.1"	-116° 41' 00.1"	527915.0627	4172181.0707
28	37.896416	-116.883	37° 41' 47.1"	-116° 40' 58.8"	527946.7667	4172181.0707
29	37.896416	-116.882638	37° 41' 47.1"	-116° 40' 57.5"	527978.4707	4172181.0707
30	37.896666	-116.883527	37° 41' 48.0"	-116° 41' 00.7"	527899.2107	4172208.5272
31	37.896027	-116.883527	37° 41' 45.7"	-116° 41' 00.7"	527899.1701	4172136.9905
32	37.895861	-116.883527	37° 41' 45.1"	-116° 41' 00.7"	527899.4683	4172117.3077
33	37.895805	-116.883361	37° 41' 44.9"	-116° 41' 00.1"	527914.9760	4172111.0460
34	37.895861	-116.883194	37° 41' 45.1"	-116° 40' 59.5"	527930.1855	4172117.0095
35	37.896027	-116.883194	37° 41' 45.7"	-116° 40' 59.5"	527929.8872	4172135.7976
36	37.896083	-116.883361	37° 41' 45.9"	-116° 41' 00.1"	527913.7831	4172143.5514

8/15/07

FIGURE 12. CAS TA-52-004-TAAL (MPDT) SOIL SAMPLE LOCATIONS

TABLE 8. SOIL SAMPLE RESULTS FOR BERYLLIUM AT CAS TA-52-004-TAAL, MPDT

SAMPLE LOCATION	ANALYTICAL RESULTS ¹ (mg/kg) PAL = 1,900		PURPOSE
	0-0.5 ft bgs	1.0-1.5 ft bgs	
MPDT-01	1.8	1.5	Investigation
MPDT-02	1.6	1.5	Investigation
MPDT-03	1.5	1.4	Investigation
MPDT-04	1.6	1.4	Investigation
MPDT-05	1.5	1.4	Investigation
MPDT-06	1.6	1.5	Investigation
MPDT-07	1.7	1.3	Investigation
MPDT-08	1.5	1.4	Investigation
MPDT-09	1.7	1.3	Investigation
MPDT-10	1.4	1.4	Investigation
MPDT-11	1.5	1.5	Investigation
MPDT-12	1.7	1.6	Investigation
MPDT-13	1.7	1.6	Investigation
MPDT-14	1.7	1.4	Investigation
MPDT-15	1.5	1.4	Investigation
MPDT-16	1.6	1.4	Investigation
MPDT-17	1.5	1.5	Investigation
MPDT-18	1.7	1.5	Investigation
MPDT-19	1.4	1.4	Investigation
MPDT-20	1.5	1.4	Investigation
MPDT-21	1.8	1.8	Investigation
MPDT-22	1.9	1.8	Investigation
MPDT-23	1.9	1.5	Investigation
MPDT-24	1.8	1.7	Investigation
MPDT-25	1.8	1.6	Investigation
MPDT-26	2	1.6	Investigation
MPDT-27	1.7	1.6	Investigation
MPDT-28	1.9	1.7	Investigation
MPDT-29	1.8	1.7	Investigation
MPDT-30	1.9	1.5	Investigation
MPDT-31	1.8	1.6	Investigation
MPDT-32	1.7	1.5	Investigation
MPDT-33	1.8	1.6	Investigation

**TABLE 8. SOIL SAMPLE RESULTS FOR BERYLLIUM AT
CAS TA-52-004-TAAL, MPDT (CONTINUED)**

SAMPLE LOCATION	ANALYTICAL RESULTS ¹ (mg/kg) PAL = 1,900		PURPOSE
	0-0.5 ft bgs	1.0-1.5 ft bgs	
MPDT-34	1.6	1.6	Investigation
MPDT-35	1.9	1.5	Investigation
MPDT-36	1.9	1.6	Investigation
MPDT-37	1.7	1.5	QA Duplicate (MPDT-10)
MPDT-38	1.9	1.6	QA Duplicate (MPDT-20)
MPDT-R1	0.1 µg/L		QA Equipment Rinsate Blank

¹ Quantitation limit is 0.01 mg/kg (0.1 µg/L for MPDT-R1).

TABLE 9. SOIL SAMPLE RESULTS FOR URANIUM AT CAS TA-52-004-TAAL, MPDT

SAMPLE LOCATION ¹	ANALYTICAL RESULTS				PURPOSE
	URANIUM (mg/kg)	U-234 (pCi/g)	U-235 (pCi/g)	U-238 (pCi/g)	
	PAL = 200	PAL = 85.8	PAL = 10.56	PAL = 63	
MPDT-01A	<2.2	1.44	<0.208	1.26	Investigation
MPDT-01B	<2.2	1.75	<0.0457	1.55	Investigation
MPDT-02A	<2.2	1.35	0.201	1.62	Investigation
MPDT-02B	<2.2	1.46	<0.0539	1.6	Investigation
MPDT-03A	<2.2	1.29	<0.194	1.5	Investigation
MPDT-03B	<2.2	1.49	<0.0904	0.959	Investigation
MPDT-04A	<2.2	1.61	<-0.0128	1.32	Investigation
MPDT-04B	2.3	1.79	0.391	1.22	Investigation
MPDT-05A	<2.2	1.59	<0.0975	0.897	Investigation
MPDT-05B	<2.2	1.36	<0.17	1.34	Investigation
MPDT-06A	<2.2	1.15	0.194	0.877	Investigation
MPDT-06B	<2.2	1.62	<0.177	1.76	Investigation
MPDT-07A	<2.2	1.22	<0.037	0.917	Investigation
MPDT-07B	<2.2	1.59	<0.0842	1.07	Investigation
MPDT-08A	<2.2	2.17	<0.123	1.13	Investigation
MPDT-08B	<2.2	1.42	0.323	1.55	Investigation
MPDT-09A	<2.2	1.22	<0.101	1.23	Investigation
MPDT-09B	<2.2	1.56	<0.0534	1.67	Investigation
MPDT-10A	<2.2	1.23	0	1.53	Investigation
MPDT-10B	<2.2	0.94	<0.0463	1.2	Investigation
MPDT-11A	<2.3	1.93	<0.104	1.53	Investigation
MPDT-11B	<2.3	1.27	<0.0447	1.09	Investigation
MPDT-12A	<2.3	1.76	<0.187	0.966	Investigation
MPDT-12B	<2.3	1.54	0	1.37	Investigation
MPDT-13A	<2.3	1.52	<0.0762	0.946	Investigation
MPDT-13B	<2.3	1.9	<0.0892	1.66	Investigation
MPDT-14A	<2.2	1.25	<0.0761	1.06	Investigation
MPDT-14B	<2.3	1.61	<0.073	1.15	Investigation
MPDT-15A	<2.3	1.13	0	1.27	Investigation
MPDT-15B	<2.5	1.31	<0.19	1.48	Investigation
MPDT-16A	<2.2	1.19	<0.117	1.2	Investigation
MPDT-16B	<2.3	1.74	<0.172	1.67	Investigation
MPDT-17A	<2.2	1.36	<0.0966	1.67	Investigation

**TABLE 9. SOIL SAMPLE RESULTS FOR URANIUM AT
CAS TA-52-004-TAAL, MPDT (CONTINUED)**

SAMPLE LOCATION ¹	ANALYTICAL RESULTS				PURPOSE
	URANIUM (mg/kg)	U-234 (pCi/g)	U-235 (pCi/g)	U-238 (pCi/g)	
	PAL = 200	PAL = 85.8	PAL = 10.56	PAL = 63	
MPDT-17B	<2.3	1.6	<0.184	0.955	Investigation
MPDT-18A	<2.3	1.66	0.288	0.942	Investigation
MPDT-18B	<2.3	1.78	<0.204	1.35	Investigation
MPDT-19A	<2.2	1.05	<0.0931	1.7	Investigation
MPDT-19B	<2.3	1.67	<0.0982	0.873	Investigation
MPDT-20A	<2.2	1.41	<0.0491	1.18	Investigation
MPDT-20B	<2.3	2.18	0.386	1.08	Investigation
MPDT-21A	<2.3	0.928	0.27	1.63	Investigation
MPDT-21B	<2.3	1.84	<0.125	1.23	Investigation
MPDT-22A	<2.3	1.3	0.14	1.03	Investigation
MPDT-22B	<2.3	1.42	<0.0955	1.01	Investigation
MPDT-23A	<2.3	1.92	<0.0268	1.19	Investigation
MPDT-23B	<2.3	1.28	<0.176	1.37	Investigation
MPDT-24A	<2.3	1.4	<0.0304	1.32	Investigation
MPDT-24B	<2.3	1.32	<0.123	0.762	Investigation
MPDT-25A	<2.2	1.53	0	1.55	Investigation
MPDT-25B	<2.3	1.09	<0.044	1.06	Investigation
MPDT-26A	<2.2	1.08	<0.0166	1.09	Investigation
MPDT-26B	<2.3	1.71	<0.086	1.11	Investigation
MPDT-27A	<2.2	1.66	<0.0472	1.45	Investigation
MPDT-27B	<2.3	1.1	<0.234	1.05	Investigation
MPDT-28A	<2.3	1.58	<0.174	1.43	Investigation
MPDT-28B	<2.3	1.5	<0.138	1.02	Investigation
MPDT-29A	<2.2	1.3	0.145	1.47	Investigation
MPDT-29B	<2.3	1.67	0.144	1.55	Investigation
MPDT-30A	2.6	1.36	<0.0883	1.6	Investigation
MPDT-30B	<2.3	1.16	<0.142	1.15	Investigation
MPDT-31A	<2.2	1.59	<0.0787	1.15	Investigation
MPDT-31B	<2.3	1.77	0.131	1.33	Investigation
MPDT-32A	<2.2	1.21	<0.0701	1.22	Investigation
MPDT-32B	<2.2	1.45	<0.0371	1.5	Investigation
MPDT-33A	<2.2	1.52	<0.0725	1.12	Investigation
MPDT-33B	<2.2	1.28	<0.165	1.48	Investigation

**TABLE 9. SOIL SAMPLE RESULTS FOR URANIUM AT
CAS TA-52-004-TAAL, MPDT (CONTINUED)**

SAMPLE LOCATION ¹	ANALYTICAL RESULTS				PURPOSE
	URANIUM (mg/kg)	U-234 (pCi/g)	U-235 (pCi/g)	U-238 (pCi/g)	
	PAL = 200	PAL = 85.8	PAL = 10.56	PAL = 63	
MPDT-34A	<2.2	1.33	<0.139	1.34	Investigation
MPDT-34B	<2.2	1.81	<0.0924	1.37	Investigation
MPDT-35A	<2.2	1.62	0	1.49	Investigation
MPDT-35B	<2.2	1.39	<-0.00438	1.06	Investigation
MPDT-36A	<2.2	1.58	<-0.0044	0.949	Investigation
MPDT-36B	<2.3	1.96	<0.132	1.34	Investigation
MPDT-37A	<2.2	1.35	<0.0931	1.49	QA Duplicate (MPDT-10A)
MPDT-37B	<2.2	1.43	<0.0925	1.32	QA Duplicate (MPDT-10B)
MPDT-38A	<2.2	1.47	<0.0322	0.996	QA Duplicate (MPDT-20A)
MPDT-38B	<2.2	1.67	0.148	1.46	QA Duplicate (MPDT-20B)
MPDT-R1 ²	<21.4 µg/L	<0.0977 pCi/L	<0.0177 pCi/L	<0.0751 pCi/L	QA Equipment Rinsate Blank

¹ “A” sample collected from 0.0-0.5 ft bgs, “B” sample collected from 1.0-1.5 ft bgs.

² Quality Assurance blank in liquid units (i.e., µg/L or pCi/L).

Although analytical results showed no indication of contamination above action levels, the radiological drive-over survey detected one location within the MPDT bermed area with DU contamination. This contamination was found to be a DU fragment on the ground surface with limited soil contamination.

2.1.2.3 Excavation/Removal of DU

Data collected to date were reviewed and confirmed on the ground (i.e., “ground-truthed”) prior to beginning excavation activities. To do this, the Kiwi vehicle, which is configured with eight sodium iodide gamma detectors in four pods, was used to re-acquire the areas where DU was originally detected. The Kiwi vehicle had been used to perform the original radiological surveys. Handheld radiological screening instruments (Field Instrument for Detecting Low Energy Radiation [FIDLER] and/or Electra[®]) were then used to confirm locations of elevated radioactivity and to support DU cleanup.

DU fragments and contaminated soil were removed and excavated from both NEDS Lake and Antelope Lake. Most of the DU was on the ground surface or at shallow depths in the soil; however, it was present at some locations on Antelope Lake to depths of nearly 10 ft bgs. DU contamination at CAS TA-52-001-TANL (NEDS Detonation Area) test location was found to consist of impacted debris and contaminated soil interlayered with clean fill. This was consistent with interviews with project personnel who recalled clean fill being added to the site after each test to maintain a “clean” working surface. Within the NEDS Detonation Area test location, one area approximately 6 inches deep with a diameter of approximately 30 ft was excavated (NEDS 3). Within this 30-ft diameter area, one deeper excavation (approximately 4 ft wide by 3 ft deep), appeared to be a location where NEDS-related debris was buried.

Where DU was present at the ground surface or at shallow depths (to about 1 ft bgs), it was removed and/or excavated using hand tools. Deeper contamination was excavated using heavy equipment. Table 10 identifies locations where DU debris and contaminated soil were excavated and the approximate volume of each excavation. DU and contaminated soil was placed in soft-sided containers or B-25 boxes and managed in a radioactive materials area (RMA) until disposal (Section 3.0).

The initial approach to verify clean closure using handheld radiological survey instruments assumed that only DU fragments and minor quantities of impacted soil were present. Because investigation activities showed some areas of impact to exceed 1 cubic foot (ft³) of contaminated soil and DU debris, the CSM for these areas was not upheld and re-evaluation of the closure approach was required. A sampling plan to justify the number and location of samples was prepared and submitted to NDEP for review in December 2006. The sampling plan (Appendix E) was approved and implemented. Samples were collected to verify clean closure of the sites, from locations selected within each excavation based on results of handheld instruments. Handheld instruments were used to select sample locations so that samples would be collected from those portions of the excavation with the highest residual radioactivity. This provides a level of confidence that contamination would be detected in the soil samples if it is still present above action levels.

Subsequent evaluation of the verification data confirmed that using handheld instruments to guide sample collection was not a valid approach for CAU 484. The handheld instruments that

TABLE 10. SUMMARY OF DU-EXCAVATED SOIL FROM SURFACE DETONATION DEBRIS SITES

EXCAVATION LOCATION	VOLUME EXCAVATED	EXCAVATION LOCATION	VOLUME EXCAVATED
NEDS 1	<1 ft ³	NEDS 29	<1 ft ³
NEDS 2	<1 ft ³	NEDS 30	<1 ft ³
NEDS 3 / NEDS-14 (GP)	62 yd ³	NEDS 31	<1 ft ³
NEDS 4	6 yd ³	NEDS 32	<1 ft ³
NEDS 5	1 ft ³	NEDS 33	<1 ft ³
NEDS 6	<1 ft ³	NEDS 34	<1 ft ³
NEDS 7	1 ft ³	NEDS 35	<1 ft ³
NEDS 8	<1 ft ³	NEDS 36	<1 ft ³
NEDS 9	1 ft ³	NEDS 37	<1 ft ³
NEDS 10	<1 ft ³	NEDS 38	<1 ft ³
NEDS 11	<1 ft ³	NEDS 39	<1 ft ³
NEDS 12	<1 ft ³	NEDS 40	<1 ft ³
NEDS 13	<1 ft ³	NEDS 41	<1 ft ³
NEDS 14	<1 ft ³	NEDS 42	<1 ft ³
NEDS 15	<1 ft ³	NEDS 43	<1 ft ³
NEDS 16	<1 ft ³	NEDS 44	<1 ft ³
NEDS 17	<1 ft ³	NEDS 45	<1 ft ³
NEDS 18	<1 ft ³	NEDS 46	<1 ft ³
NEDS 19	<1 ft ³	NEDS 47	<1 ft ³
NEDS 20	<1 ft ³	NEDS 48	<1 ft ³
NEDS 21	<1 ft ³	NEDS 49	<1 ft ³
NEDS 22	<1 ft ³	NEDS 50	<1 ft ³
NEDS 23	<1 ft ³	NEDS 51	<1 ft ³
NEDS 24	<1 ft ³	NEDS 52	<1 ft ³
NEDS 25	<1 ft ³	NEDS 53	<1 ft ³
NEDS 26	<1 ft ³	NEDS 54	<1 ft ³
NEDS 27	<1 ft ³	SCA 33	6 yd ³
NEDS 28	<1 ft ³		

were used at CAU 484 were designed to detect alpha/beta radiation, which is easily shielded by a thin covering of soil. Also, the ability to obtain representative results in soil samples is highly dependent on collecting representative and homogeneous samples. The presence of one fragment of DU, which is undetectable with handheld survey instruments, can highly skew the analytical results. Instead, an approach presented in the SAFER Plan (NNSA/NSO, 2004b) and subsequent hold point meetings was implemented. This approach used the Kiwi to guide DU cleanup and to verify and document cleanup effectiveness. The Kiwi sodium iodide detectors proved to be effective for reacquiring the location of previously identified DU and for verifying cleanup effectiveness. Use of the Kiwi was deemed sufficient to show clean closure for locations accessible to the Kiwi vehicle; therefore, cleanup verification sample collection was only needed for those locations that were inaccessible to the Kiwi vehicle. Clean closure was confirmed using the Kiwi for all of the sites in this CSM. See Appendix M for additional detail on use of the Kiwi and the radiological data collected.

2.1.2.3.1 CAS TA-52-001-TANL (NEDS Detonation Area)

In November 2006, DU and uranium-contaminated soil were excavated from within the NEDS Detonation Area (Figure 7). All areas had been identified by the drive-over radiological survey. One of those areas (NEDS 3) was also identified as a subsurface hot spot by analytical results from the Geoprobe soil sampling (NEDS-14B). Handheld radiological instruments (FIDLERs and/or Electras) were used to verify that the elevated radioactivity had been removed, and cleanup verification soil samples were collected from areas where more than 1 ft³ of soil had been removed.

After the November 2006, sampling effort, cleanup verification sample analytical results showed that DU and chemical uranium were still present above action levels at several locations. From April to June 2007, excavation on NEDS Lake continued until clean closure could be verified by the Kiwi. Cleanup verification results, as confirmed by the Kiwi, are presented in Appendix M.

Upon completion of excavation activities on NEDS Lake, approximately 68 cubic yards (yd³) of DU and impacted soil had been removed and containerized in B-25 boxes and soft-sided containers. The waste will be transported to the Nevada Test Site (NTS) and disposed of in the Area 5 Radioactive Waste Management Site (RWMS) in September 2007.

2.1.2.3.2 CAS TA-52-006-TAPL (DUS)

In November 2006, DU and associated contaminated soil were excavated from within the DUS (Figure 7). All areas had been identified by the drive-over radiological survey. Handheld radiological instruments (FIDLERs and/or Electras) were used to verify that the elevated radioactivity had been removed. Soil samples were collected from areas where more than 1 ft³ of soil had been removed, and sample results again indicated that DU was still present above action levels.

From April to June 2007, additional Kiwi radiological surveys were conducted on NEDS Lake to locate DU that was previously not found and to verify the effectiveness of previous DU cleanup. Previously excavated locations were determined to contain residual DU contamination, and several locations previously not found were re-acquired and confirmed to contain DU

contamination. All areas containing DU were cleaned up to background conditions and verified using the Kiwi. Cleanup verification results, as confirmed by the Kiwi, showed that the elevated radioactivity had been successfully removed from these locations. Results are presented in Appendix M.

Several of the locations on NEDS Lake that were originally identified as single, large DU targets during the initial Kiwi surveys were later confirmed to be multiple, small individual fragments of DU. This change is depicted in the Kiwi survey figures (Appendix N) by a greater number of DU targets than identified during the initial survey. This difference is due to slower survey speeds and a lower detection height used for the verification surveys.

Waste was containerized with the other radioactive waste from NEDS Lake (see Section 2.1.2.3.1).

2.1.2.3.3 CAS TA-52-004-TAAL (MPDT)

In November 2006, one area was excavated to remove DU and associated contaminated soil from within the MPDT Detonation Area (SCA-33 in Figure 8). This area had been identified by the drive-over radiological survey. Other areas were also excavated from the northern half of Antelope Lake to remove DU and contaminated soil that was detected by the drive-over radiological survey (Figure 8). The Kiwi and handheld radiological instruments (FIDLERs and/or Electras) were used to verify that the elevated radioactivity had been removed. Other areas that were excavated from the northern half of Antelope Lake to remove DU and contaminated soil are documented under CAS RG-52-007-TAML (Davis Gun Penetrator Test).

Waste from SCA-33 was containerized with other radioactive waste from Antelope Lake and managed in an RMA until disposition. Waste disposition is documented in Section 3.0.

2.1.3 **Closure Activities – Surface-Shallow Subsurface Debris Sites**

The surface-shallow subsurface debris sites CSM consists of the following two CASs:

- CAS RG-52-007-TAML, Davis Gun Penetrator Test, consists of locations on Main Lake, Pedro Lake, Brownes Lake, Antelope Lake, Antelope Tuff Target 1, Antelope Tuff Target 2, Sidewinder Tuff, Myers Ridge, and Mt. Helen (Figure 13). Details regarding the Davis Gun Penetrator Tests can be found in the CAU 484 SAFER Plan (NNSA/NSO, 2004b). As stated in the DQOs for CAU 484 (Appendix A), there is evidence that all penetrators were recovered completely intact. It is highly unlikely that test components were left at the sites where the experiments were conducted because an unrecovered penetrator would be considered a test failure, and no failures for Davis Gun tests have been reported.

Survey documentation confirmed that Mt. Helen is not within the permit boundary for the TTR and is located on the Nevada Test and Training Range 76. It is unknown how this site was selected and approved for Sandia testing of the Davis Gun penetrators; however, it is known that the site was selected because of its geology (good surface exposure of welded tuff) and was used for penetrator testing. Mt. Helen was the area selected and used for the earliest series of penetrator tests at tuff locations from the early 1970s to the late 1970s or early 1980s. The survey monument at the Mt. Helen site is dated 1968. At or about the early 1980s, Davis Gun tests at tuff locations were moved from Mt. Helen to the Antelope Tuff

FIGURE 13
CAS RG-52-007-TAML, DAVIS GUN PENETRATOR TEST

Target 1 location. The reasoning for this move is not known, but testing at Mt. Helen was discontinued after the relocation of operations. Only the areas where testing activities obviously took place were included in the scope for geophysical and radiological surveys. Based on the findings of the CAU 484 investigation, the remaining geophysical anomalies will not be investigated or removed.

- CAS TA-52-005-TAAL, JTA DU Site, is located on Antelope Lake (Figure 14) and consists of three DU rings that could not be located after projectile testing from Area 9 to Antelope Lake. The three rings were expected to be found on the northern half of Antelope Lake. The three rings were found and were removed.

These are sites where DU and/or system components, if present, were expected to have been released to the ground surface or to have penetrated the shallow subsurface. Any DU was expected to be present in discrete pieces and, based on process knowledge and technology limitations, at depths of 10 ft bgs or less. The CSM was confirmed to be incorrect in that DU, which was originally present in discrete pieces, has oxidized and contaminated the surrounding soil. Some DU was also encountered in the shallow subsurface on Antelope Lake.

Detailed information regarding the surface-shallow subsurface debris sites CSM can be found in the SAFER Plan (NNSA/NSO, 2004b). The DQOs from that document, which present the CSM, are also included in Appendix A of this document.

2.1.3.1 Aerial Photography and Multispectral Surveys

Aerial photography and multispectral surveys were conducted over the entire footprint of CAU 484, including locations where Davis Gun Penetrator Tests (CAS RG-52-007-TAML) were conducted: Main Lake, Pedro Lake, Brownes Lake, NEDS Lake, Antelope Lake, Antelope Tuff Targets 1 and 2, Sidewinder Tuff, Myers Ridge, and Mt. Helen. Davis Gun tests were conducted throughout the entire footprint of each test location. Aerial photographs and multispectral survey data were reviewed along with data collected later in the investigation to identify locations where Davis Gun projectiles may have impacted the surface.

On the dry lakes/playas, where soil was historically bermed in a circle around Davis Gun impact locations to keep the area from flooding, circular features that could be berms were identified as suspect areas and targeted for additional investigation. Disturbed areas within the berms were suspected locations of where excavation or drilling may have been performed to recover penetrators. Many circular features are still present and were discernable in the aerial photography and multispectral imagery.

The aerial photographs provided a better indication of features related to potential penetrator locations on the playas (see Figure 15 for an example). Evidence of many historical testing locations could not be identified on aerial photographs because the testing areas had been largely “erased” by wave and wind action on the dry lake bed. Multispectral surveys were helpful because different colors on the multispectral surveys indicate different soil types, including areas of disturbed ground. Circular areas with a different soil type on the surface provide an indication of disturbance, where soil from a greater depth may have been excavated and brought to the surface, as would have occurred by excavating a Davis Gun penetrator, or where soil may have been brought in to berm an area, as would have occurred when protecting a Davis Gun penetrator

target location from flooding. An example of the multispectral survey results for the playa locations is provided in Figure 16. Appendix N contains imagery with the multispectral survey results.

For the tuff locations, depressions and rubble piles are indicators of potential penetrator entrance and recovery locations (Figure 17). Depressions in the tuff with little or no rubble nearby were identified as areas where projectiles may have entered the earth but were not recovered, whereas depressions with associated rubble piles were more likely representative of recovered projectiles. Historical documentation also confirms that debris piles usually correspond to a test recovery or attempted recovery. Aerial photographs were helpful in identifying the areas that had been disturbed by activity; however, neither aerial photographs nor multispectral survey results were helpful in identifying potential penetrator locations at the tuff sites because individual depressions or rubble piles were generally indistinguishable from the topography.

Results from these surveys were generally used together with other survey results (e.g., radiological and geophysical surveys, ground-truthing, etc.) and not independent of other input. Aerial and multispectral survey results did not help in locating any of the DU rings associated with CAS TA-52-005-TAAL (JTA DU Site) due to the size and nature of the test article.

2.1.3.2 Radiological and Geophysical Drive-Over Surveys

Radiological and geophysical drive-over surveys were performed on Brownes Lake, Pedro Lake, NEDS Lake, and Antelope Lake. All areas received nearly 100 percent survey coverage (see survey path coverage figure in attached imagery disk, Appendix N). The data were used to help identify locations where Davis Gun penetrators (or resulting debris) may be present on the surface and in the shallow subsurface, and to assist in the location of the CAS TA-52-005-TAAL DU rings on Antelope Lake. The surveys were conducted using the same methodology and instrumentation as described in Section 2.1.2.1.

Radiological and geophysical surveys were conducted from November through December 2003, and May through June 2004. During the surveys in 2003 and 2004, survey areas were visually inspected for explosive hazards by a UXO technician prior to survey personnel and equipment entering the area. The radiological and geophysical surveys were suspended in June 2004, when UXO was found on Antelope Lake. The remaining radiological and geophysical surveys for approximately 500 acres of CAU 484, on the north half of Antelope Lake, was completed from June to September 2006 using an unmanned, pre-programmed, autonomously controlled survey vehicle.

Prior to resuming radiological and geophysical surveys, geophysical “prove-outs” were conducted on Brownes Lake and at a tuff location to identify the expected geophysical signatures (instrument responses) to the various targets for the two geologic environments of interest. Prove-outs were conducted at a tuff location that had no history of Davis Gun activity, to the north of Antelope Tuff Target 1, to determine the expected signatures of different targets at tuff locations. Prove-outs were also conducted on Brownes Lake to identify the corresponding geophysical signatures on a playa (i.e., dry lake bed). Brownes Lake was selected because it was found to be relatively free of geophysical anomalies during the earlier geophysical survey.

To conduct a prove-out, objects were buried to represent: (a) metallic objects similar to the DU rings of CAS TA-52-005-TAAL (JTA DU Sites), (b) Davis Gun projectile-shaped objects, and

**FIGURE 16. MULTISPECTRAL SURVEY OF ANTELOPE LAKE SHOWING
SUSPECTED DAVIS GUN PENETRATOR LOCATIONS**

FIGURE 17
DEPRESSIONS AND RUBBLE PILES EVIDENT AT DAVIS GUN SITES

(c) various bomblets. (Bomblet data was also collected for CAU 408 at this time and will be presented in the CAU 408 CR.) The objects were buried at different depths and orientations.

For the geophysical prove-out on Brownes Lake, two objects similar to the Davis Gun projectiles were buried at several different depths and orientation. For the geophysical prove-out at the tuff site, two objects similar to Davis Gun projectiles were buried at depths of 6.5 and 9 ft bgs. A geophysical survey was then conducted over the prove-out areas. Results of the geophysical surveys over the prove-out areas were used to identify expected geophysical signatures for CAU 484-related objects.

After the prove-outs were completed, geophysical and radiological surveys of the remainder of Antelope Lake and of the Davis Gun tuff sites continued. For safety reasons, because of the potential for live UXO, the portion of Antelope Lake that had not previously been surveyed was completed using an autonomously operated robotic tractor (also known as a “towbot”) that towed the geophysical and radiological arrays (Figure 18). Upon completion of these surveys, all of Antelope Lake was covered by radiological and geophysical surveys; however, only the northern half of Antelope Lake is included in CAU 484 (see the SAFER Plan [NNSA/NSO, 2004b] for details on the boundaries of the CAU 484 survey area). The southern half of the lake was surveyed for CAU 408, results of which will be presented in the CAU 408 CR (not yet published).

The tuff areas consisted of uneven terrain over which the robotic tractor could not be used, with a greater likelihood of damaging the fragile equipment than of obtaining useable data. Instead, an all-terrain vehicle was used to pull a smaller geophysical array over the tuff areas. Instead of the EM61-MKII system (which was used on the playas), a multi-sensor towed array detection system (MTADS), similar to the EM61-MKII but with a narrower detection width, was used. As with the MKII system, the MTADS is a high-sensitivity time-domain electromagnetic instrument capable of detecting both ferrous (steel) and non-ferrous (aluminum, copper, brass, etc.) metals. The MTADS has a higher transmitter moment and overlapping coils, which makes it more effective at mapping large metal items buried at depth (e.g., Davis Gun penetrators). Radiological surveys were performed on select target locations using manually-operated handheld instruments at the tuff areas.

Appendix N contains a full set of images showing the geophysical survey results and target locations.

2.1.3.2.1 CAS RG-52-007-TAML, Davis Gun Penetrator Test

Data (geophysical, multispectral, and radiological) collected through 2005 (before the geophysical prove-outs were conducted) were reviewed to identify potential Davis Gun penetrator locations on the playas, results of which are presented in a position paper provided in Appendix F. As a result of this review, fourteen locations on Pedro Lake and twenty locations on Antelope Lake were selected for further investigation. No locations on Brownes Lake were selected for further investigation because available data showed no clear indication of a Davis Gun site with associated DU or buried projectiles.

A site walkdown with an EM61 push cart system was performed to confirm the location of the selected locations on Antelope and Pedro Lakes and to confirm that the corresponding geophysical anomaly resulted from a large, deep source, rather than from smaller, shallow

FIGURE 18. AUTONOMOUS TOW VEHICLE AND TOWED ARRAYS

debris. Locations were selected for excavation based on the following criteria. On Antelope Lake, excavation locations were predominantly selected based on the response of the geophysical equipment. Where the response of the EM61 indicated smaller, shallow subsurface metal, those locations were removed from the list of potential excavation sites.

On Pedro Lake, circular features were evident. Excavation locations were selected based on the presence of circular features where a significant, deep geophysical anomaly was also present. Additional locations on Pedro Lake were selected (1) within a bermed area, where a large, deep anomaly was identified through geophysical data processing, and (2) at another large, deep geophysical anomaly identified through the multispectral survey where soil was visibly mounded. Results of the exploratory excavations can be found in Section 2.1.3.3.1.

Results of the geophysical prove-out on Brownes Lake indicated that projectiles buried deeper than 10 ft bgs would not be detectable with the existing technology. Deep (yet less than 10 ft bgs) projectile-like objects provided a geophysical response greater than 10 millivolts (mV) and greater than 5 meters in diameter. The intensity of the reading (in mV) was not a good indication of Davis Gun-type projectiles because the electromagnetic intensity was found to be similar for shallow metallic objects from other sources, which were numerous at the sites. Because the deeper buried object (from the prove-out) produced a larger diameter geophysical response, the physical size of the signature (a minimum of 5 meters) was used as the primary indicator that a geophysical response greater than 10 mV represented the presence of a Davis Gun projectile.

Results from the geophysical surveys were compared against the prove-out criteria to identify potential Davis Gun projectile locations. For the playas, the geophysical signature, compared with the prove-out, met the criteria for a potential Davis Gun projectile at hundreds of locations (see Appendices K, L, and N):

- Pedro Lake: 134 targets
- Antelope Lake: 732 targets
- Brownes Lake: 15 targets
- Main Lake: under water and was not surveyed.

All of these targets were not investigated after the prove-out results were obtained. Excavation activities at Pedro and Antelope Lakes had begun before the geophysical survey results were compared against the geophysical prove-outs. Those excavation locations were selected based on results of the geophysical surveys that had been completed in 2003 and 2004 (see results in Section 2.1.3.3.1) and other data that were available.

After the comparison with the prove-outs, the only area that was critically evaluated for additional investigation was the southern 500 acres on the north half of Antelope Lake. This is where the geophysical and radiological surveys had not previously been completed, and is the only area where additional drive-over geophysical and radiological data were collected after the discontinuation of these surveys in 2004. This area had not previously been evaluated because the data for this area were not previously available. For this area, geophysical results were compared against aerial photographs and multispectral surveys and field-checked using the handheld EM61 to verify that the anomaly represented a deep target (rather than shallow surface

debris). Results were used to select two additional excavation locations most representative of a potential penetrator location.

The other hundreds of locations were not investigated further because excavation activities at the most likely locations for a Davis Gun projectile showed that the anomalies were representative of practice ordnance and other scrap metal, and not Davis Gun projectiles. This confirmed the CSM expectation that Davis Gun projectiles were recovered at the time of the test. See Section 2.1.3.3.1 for more details on the Davis Gun investigation of the playas.

For tuff locations, the geophysical prove-out at the tuff site showed that the deeper object provided a response greater than 15 mV and approximately 5 meters in diameter. Again, the intensity of the reading (in mV) did not provide a good indication of whether the resulting geophysical signature was for Davis Gun projectiles or of surface or shallow buried metallic objects from other sources which, again, were numerous in the areas. Figure 19 shows an inert Davis Gun penetrator that was found on Mt. Helen.

For the tuff sites, there was some additional evaluation of the locations where the geophysical signature met the criteria for a potential Davis Gun projectile. A site walkdown with an EM61 push cart system was performed, as well as a visual inspection of each penetrator location that was originally identified. On the basis of this follow-up investigation, many of the original locations were disqualified from being Davis Gun projectile locations because of the presence of surface metal (e.g., stakes, piles of nails, metal cans) that met the Davis Gun geophysical criteria, or the absence of any ground disturbance indicating that a penetrator may have impacted the site. The following provides the initial number of potential Davis Gun penetrator locations, along with the reduced number after ground-truthing at each tuff site:

- Antelope Tuff Target 1: 74 targets, reduced to 8 targets
- Antelope Tuff Target 2: 98 targets, reduced to 21 targets
- Sidewinder Tuff: 33 targets, reduced to 17 targets
- Myers Ridge: 76 targets, reduced to 12 targets
- Mt. Helen: 8 targets, reduced to 5 targets

Geophysical survey results indicating potential Davis Gun projectile locations (as well as the other types of targets) are provided on the imagery in Appendix N. Appendices K and L contain this information for all of the sites where geophysical surveys were conducted and include tables that identify the geographic location, the type of target, and estimated depth of burial. Davis Gun projectiles were the only targets in the tuff areas. Additional non-penetrator geophysical anomalies were identified at the Davis Gun tuff sites locations. These anomalies were not considered to be related to CAU 484 and were not investigated.

The radiological survey results were unsuccessful in identifying locations of potentially intact, buried penetrators at any of the Davis Gun sites. Buried penetrators containing DU cannot be detected at the surface with existing technology. Additionally, based on process knowledge, any penetrators that are still present on the playas should not contain DU and are likely much deeper than 10 ft bgs.

Because a penetrator impacting the lithified tuff might fragment or leave small pieces at the entry point on impact, potential impact locations (depressions and holes) and/or associated rubble piles were screened using handheld equipment to identify elevated radioactivity. It was expected that,

Photographed: November 2006

FIGURE 19
DAVIS GUN PENETRATOR FOUND AT MT. HELEN

if DU was associated with penetrators at the tuff sites, there would be elevated radioactivity at or near the impact site and/or associated rubble piles where penetrators were recovered. Handheld instruments were used to screen the depression, holes (if present), and surrounding rubble for DU that may have fragmented off of the penetrator on impact or during recovery. Sixty-three depressions were screened in this manner, and radioactivity above background concentrations was not detected at any of these locations.

Radiological surveys completed over the north half of Antelope Lake identified numerous locations where DU was present at or near the ground surface. All of the locations were within or near known, historical Davis Gun penetrator test areas; however, it could not be confirmed if the residual DU was related to Davis Gun penetrator testing activities. Radiological survey results were used in conjunction with geophysical data to identify locations on the north half of Antelope Lake (the southern half will be addressed with CAU 408) where DU fragments or contaminated soil were present, for further investigation and cleanup.

The radiological results provided information regarding the location of DU fragments and contaminated soil on the ground surface or in the shallow subsurface, while the geophysical survey results were considered more valuable for locating projectiles, if present.

2.1.3.2.2 CAS TA-52-005-TAAL, JTA DU Sites

Similar to the CASs in the Surface Detonation Debris Sites CSM, geophysical results did not provide a good indication of the location of the JTA DU rings because of the relatively small size of the rings and the large number of metallic objects on Antelope Lake. Therefore, all of the DU rings were found based on the radiological results. Excavation areas for DU cleanup are identified in Figure 8. Two of the DU rings were found on the north half of Antelope Lake, at radiological target locations NA-2 and NA-3. The third DU ring was found on the south end of Antelope Lake, within the footprint of CAU 408 (Bomblet Target Area), at radiological target location SA-10. The presence of the DU ring on south Antelope Lake required the CSM to be modified to reflect that the DU ring had been projected further than originally anticipated by the test, beyond the original boundary of CAU 484. The approximate location of where all three rings were found is shown on Figure 14.

2.1.3.3 Exploratory Excavation and DU Removal

Results from the geophysical and radiological surveys were compared against aerial photography and multispectral surveys to better define the targets of interest (i.e., Davis Gun projectiles and DU rings).

2.1.3.3.1 CAS RG-52-007-TAML, Davis Gun Penetrator Test

Based on an evaluation of the data collected through 2005, Pedro and Antelope Lakes were excavated at locations where Davis Gun penetrators were determined most likely to be present. Five locations were excavated on Pedro Lake (Figure 20) and six locations were excavated on Antelope Lake (all but the southernmost two in Figure 21). At the five locations on Pedro Lake, three practice bombs (locations IM13, PD2, and PD3) and scrap metal (locations IM7 and PL_253) were uncovered. On Antelope Lake, numerous items were uncovered and consisted of

FIGURE 21. EXPLORATORY EXCAVATIONS FOR DAVIS GUN PENETRATORS ON ANTELOPE LAKE

non-Davis Gun-related practice ordnance, metal plate, buried concrete slabs, and scrap metal. Excavation activities were temporarily halted in October 2006, when two objects appearing to be UXO were uncovered, and resumed in November 2006. No Davis Gun penetrators were found at any of the excavation locations. A report containing the results of the UXO removal activities is provided in Appendix H.

Excavation was not completed at all of the locations identified as potential locations for Davis Gun penetrators because no Davis Gun penetrators were found at those locations deemed most likely to contain a penetrator. Further excavation was temporarily put on hold pending a meeting of the primary CAU 484 decision makers. The preliminary geophysical results were presented to NDEP at a hold point/status meeting in November 2006. A technical position paper (Appendix E) presented at that meeting provided the following recommendations and justifications for remaining Davis Gun activities:

- For the playas, two more excavations were proposed in the southernmost portion of north Antelope Lake (P006_001 and P007_001 in Figure 21). These were in the area that was covered in the 2006 geophysical survey. They were considered to be the most likely penetrator locations based on geophysical results and were both located inside circular berms. Discontinuation of excavation for Davis Gun penetrators on the playas was proposed if no penetrators were found at these locations. This was proposed because of the potential to uncover UXO and other non-Davis Gun-related debris, which is all that had been found to date.
- For the tuff sites, two locations where data indicate Davis Gun projectiles would most likely be present on Mt. Helen would be excavated to retrieve Davis Gun penetrators, if present. The two anomalies that yielded the best geophysical signature that corresponded to the geophysical prove-out were selected at Mt. Helen. Mt. Helen is the oldest of the tuff locations and was used during the early 1970s to early 1980s. Environmental issues were not a paramount concern during this time frame; therefore, this location had the best potential for containing residual Davis Gun penetrator debris and/or DU. Of the five Davis Gun targets at Mt. Helen, PH01_001 and PH01_002 had the highest mV readings, the largest diameter geophysical expressions, and were located in very close proximity to visible surface depressions. As such, these two locations were targeted for excavation. The paper proposed discontinuation of the investigation of penetrator anomalies at other tuff locations if the investigation at Mt. Helen did not yield Davis Gun penetrator-related debris or DU.

The technical position paper was approved and the plan was implemented. In November 2006, the remaining two locations on Antelope Lake were excavated (southernmost on Figure 21). In June 2007, Mt. Helen locations PH01_001 and PH01_002 (Figure 22) were excavated to investigate the source of the geophysical anomalies and to identify whether Davis Gun projectiles were present. Excavation at all locations revealed only inert, metallic debris. No Davis Gun penetrators were unearthed.

In addition to the exploratory excavations, six locations on Antelope Lake were excavated to remove DU as a part of the Davis Gun closure activities (Figure 8, locations NA-13, SA-4, SA-5-9, CA-1, CA-2, and SA-12-15). Two areas (CA-1 and CA-2), identified to contain large fragments of DU on the ground surface prior to conducting the radiological and geophysical surveys, were fenced and posted as contamination areas and no subsequent investigation was

LEGEND

Mt. Helen
 Excavation Location

USAF Air Space (with range designation)
 TTR Boundary

**FIGURE 22. EXPLORATORY EXCAVATIONS FOR
 DAVIS GUN PENETRATORS AT MT. HELEN**

conducted over these areas. Instead, they were addressed at the same time as the other DU-contaminated areas on Antelope Lake. SA-12-15 is actually located in CAU 408; however, because the nature of the contamination and the field effort required to effect closure are the same at this location as for CAU 484, DU was excavated and the site was closed in place. This was a more efficient process, as the equipment was already available at the site, and the exposure hazard was removed earlier than would have occurred with CAU 408 field activities. DU was excavated and removed, and clean closure was verified using field-screening methods. Table 11 identifies locations where DU debris and contaminated soil were excavated, the approximate volume of each excavation, and whether the location was clean closed or if it has been closed in place.

Clean closure was verified using the Kiwi equipment. After excavation, the Kiwi vehicle was stopped over the excavation and the resulting radiological results were obtained and processed to determine whether clean closure had been attained. At location CA-1, DU-contaminated soil was excavated from an area of approximately 15 ft x 20 ft, to a depth of 6 ft bgs. It was impossible to drive the Kiwi vehicle over this area; therefore, soil was scraped from the excavation surfaces, placed on plastic, and screened using the Kiwi vehicle on the ground surface level (see photo in Appendix D). The methodology to verify clean closure is described in detail in Appendix M.

All but four locations on Antelope Lake were clean closed. Locations CA-1, SA-4, SA-5-9, and SA-12-15 have been closed in place with use restrictions. At three of the four locations, the volume of DU-contaminated soil greatly exceeds that identified in the CSM, which assumes hot spots with small volumes of contamination. At the fourth location (SA-4), UXO and other debris not included in CAU 484 is present. NDEP was contacted and the hold point was resolved by implementing closure in place of these four sites. Surface contamination was excavated to depths of 0.5 ft bgs or deeper to remove related exposure hazards. The excavations were then backfilled with clean, native fill material and slightly mounded so that water will run off these areas. The position paper describing the proposed actions, which have since been completed, is presented in Appendix G. Appendix M contains details on the cleanup verification methodology and results. A use restriction has been implemented for each of the four sites and is provided in Appendix O. Post-closure requirements are described in Section 5.0.

2.1.3.3.2 CAS TA-52-005-TAAL, JTA DU Sites

The JTA DU rings were recovered during the DU cleanup of Antelope Lake, details of which are covered under the MPDT CAS. Two of the rings (NA-2 and SA-10 in Figure 14) were on the ground surface. These rings were retrieved and containerized with the other DU waste from Antelope Lake. The third ring was found approximately 6 inches bgs at NA-3. It also was excavated, and the ring and surrounding impacted soil was containerized with the other DU waste from Antelope Lake. Table 11 identifies locations where DU rings and associated contaminated soil was excavated and the approximate volume of each excavation. CAS TA-52-005-TAAL was clean closed upon removal of the three DU rings and associated, impacted soil. Cleanup verification was confirmed using photographic documentation and the Kiwi equipment.

**TABLE 11. SUMMARY OF DU-EXCAVATED SOIL FROM SURFACE-SHALLOW
SUBSURFACE DEBRIS SITES**

EXCAVATION LOCATION	VOLUME EXCAVATED	CLEAN CLOSURE ATTAINED?
NA-2	<1 yd ³	Yes
NA-3	<1 yd ³	Yes
NA-13	14 yd ³	Yes
CA-1	98 yd ³	No
CA-2	7 yd ³	Yes
SA-4	14 yd ³	No
SA-5-9	98 yd ³	No
SA-10 (JTA DU ring on south end of Antelope Lake)	1 ft ³	Yes
SA-12-15 *	36	No

* SA-12-15 is on the south end of Antelope Lake and is not within the boundary of CAU 484 (it is within the boundary of CAU 408). Because the DU at this location was similar in nature to the other Antelope Lake DU contamination, the DU at this location was excavated, and remaining subsurface DU has been use-restricted with the three use-restricted areas of CAS RG-52-007-TAML, Davis Gun Penetrator Test.

2.1.4 Closure Activities – Non-Impacted Surface Debris

This CSM consisted of one CAS, TA-54-001-TANL, Containment Tank and Steel Structure. This CAS consisted of three structures of non-impacted waste/debris on the north end of NEDS Lake (Figure 23). All structures associated with this CAS were surveyed to verify that radiological contamination was less than the free-release limit established in the *NV/YMP Radiological Control Manual* (NNSA/NSO, 2004a). The structures were size-reduced and transported to the Sandia Salvage yard in Area 3 at the TTR. Appendix D provides photographs of the site before and after structure removal.

2.2 DEVIATIONS FROM THE SAFER PLAN AS APPROVED

Several deviations from the CAU 484 SAFER Plan (NNSA/NSO, 2004b) were necessary, as described below.

- Surface Detonation Debris Sites:
 - The CSM assumed that DU would exist as discrete fragments on the ground surface; however, DU was found on the ground surface and in the soil to a depth of approximately 10 ft bgs. Also, DU was found as metal fragments and as oxide, and the DU oxide had dispersed into the surrounding soil. The initial approach to verifying clean closure using field survey methods was therefore changed to collecting cleanup verification samples where more than 1 ft³ of soil was removed (see sampling technical paper in Appendix E). This approach was later modified to consist of verification using the Kiwi sodium iodide detectors (a field survey method) for excavations accessible to the Kiwi survey vehicle, and collecting cleanup verification soil samples for excavations that were not accessible to the Kiwi vehicle.
- CAS RG-52-007-TAML, Davis Gun Penetrator Test:
 - Geophysical and radiological surveys were not conducted on Main Lake because it was covered with water. A decision was made to postpone investigation of Main Lake until such time that investigation results indicated that if Davis Gun penetrators were present at other playa locations, an investigation strategy would be developed for Main Lake. If no penetrators were located on other playas, then Main Lake would also be considered closed.
 - All Davis Gun penetrator geophysical targets were not investigated because no Davis Gun-related debris or DU was encountered in the 13 excavations that were completed on Antelope and Pedro Lakes, and because six of the geophysical anomalies that were investigated turned out to be UXO. The geophysical surveys, aerial photography, and multispectral surveys indicated that these 13 locations were those where Davis Gun penetrators were most likely to be located. In absence of finding penetrators at these locations, the other anomalies most likely contain bombs, UXO, or other scrap metal, as was found at the 13 locations. As part of the conditions stated in the Davis Gun position paper (Appendix E), a confidence level was calculated using the targets identified during the investigation and the findings of the excavations on Antelope and Pedro Lakes.

The calculations and support documentation are included in the statistical analysis report located in Appendix J.

- Radiological surveys at the volcanic tuff locations were completed using handheld instrumentation instead of the Kiwi. Handheld instrumentation can identify the presence of elevated radioactivity; however, it cannot specifically identify the presence of DU as can the Kiwi sodium iodide detectors. The Kiwi was not used due to the rough terrain at the tuff sites, which prevented acquisition of useable data from the Kiwi equipment. The survey data of the tuff sites that was collected during the investigation was evaluated by radiological control personnel and determined to be consistent with background conditions of the area.
- NEDS and Antelope Lakes: DU was encountered outside of expected/known areas of dispersion.
 - On NEDS Lake, DU dispersion extended outside of the preliminary anticipated area identified in the SAFER Plan for the NEDS Detonation Area and the DUS. The only known tests on NEDS Lake are the NEDS and Colimbo (DUS) Tests, and the DU debris that was found was consistent with dispersal from these detonations; therefore, the DU cleaned up on NEDS Lake is not outside the bounds of CAU 484.
 - The DU encountered on Antelope Lake can be grouped into two categories: (1) fragments with limited contaminated soil on the playa surface, and (2) larger, oxidized debris disseminated on the playa surface and in the shallow subsurface soil. The DU fragments on the ground surface are consistent with a surface detonation, which could be related to dispersion from the MPDT, and possible subsequent movement of fragments on the playa surface due to weather/physical forces. Documentation on this test indicates that debris was dispersed approximately 1,500 ft from the point of detonation. The source of the larger oxidized areas of DU on the playa surface and shallow subsurface is unknown. Most of the areas with DU are in or near areas where historical Davis Gun penetrator tests were known to have been conducted, even though the relation of the DU to these tests is not known. In a May 7, 2007, meeting, NNSA/NSO decided that areas of DU on Antelope Lake that are within or near areas of Davis Gun testing would be cleaned up within the scope of CAU 484.
- Antelope Lake: DU contamination was closed in place at four locations because it was technically not feasible to continue excavation of the buried DU. This decision was made in a July 30, 2007, hold point meeting with NDEP. The following actions were taken based on the rationale presented at the meeting, as described in the position paper presented in Appendix G, and as summarized below.
 - At three locations (CA-1, SA-5-9, and SA-12-15), DU contamination exceeds the expected CSM volume limitations for small-volume hot spots. From 6 to 95 yd³ have been excavated at each location, and DU contamination is still present. Although the vertical extent of the contamination is unknown, it is unlikely that contamination will impact the ground water based on the relative immobility of DU in soil and a depth to groundwater of approximately 300 ft bgs, based on depth to water at water well on the TTR. The lateral extent of surface DU has been successfully excavated to depths of 0.5 to 3 ft bgs to remove the potential for exposure to DU.

- At SA-4, UXO and debris unrelated to CAU 484 were exposed while excavating DU contamination. The excavation was at a depth of 2 ft bgs when excavation was suspended for the hold point. To provide for worker protection as well as to remove the potential for exposure to DU, the lateral extent of remaining surface DU contamination was excavated to a depth of 0.5 ft bgs.

2.3 CORRECTIVE ACTION SCHEDULE AS COMPLETED

Closure activities for CAU 484 started in November 2003 and were completed in August 2007. Details of the schedule are provided in Table 12.

2.4 SITE PLAN/SURVEY PLAT

CAS RG-52-007-TAML, Davis Gun Penetrator Test, was closed in place with administrative controls (i.e., use restrictions were implemented). Figures showing the locations of the surveyed points delineating the use-restricted areas are provided in Appendix O of this report.

TABLE 12. CAU 484 CLOSURE ACTIVITIES SCHEDULE

ACTIVITY	CAS	LOCATION	START DATE	END DATE
Aerial Photography and Multispectral Surveys	RG-52-007-TAML (Davis Gun)	All Davis Gun sites	September 21, 2003 April 29, 2006 July 15, 2006	
Radiological and Geophysical Drive-Over Surveys	RG-52-007-TAML (Davis Gun)	Brownes Lake	November 2003 and May 2004	December 2003 and June 2004
	RG-52-007-TAML (Davis Gun)	Pedro Lake		
	RG-52-007-TAML (Davis Gun) TA-52-001-TANL (NEDS) TA-52-006-TAPL (DUS)	NEDS Lake		
	RG-52-007-TAML (Davis Gun) TA-52-004-TAAL (MPDT) TA-52-005-TAAL (JTA DU Sites)	Antelope Lake (north)		
Investigation Soil Sample Collection (using Geoprobe)	TA-52-001-TANL (NEDS) TA-52-006-TAPL (DUS)	NEDS Lake	August 2006	September 2006
	TA-52-004-TAAL (MPDT)	Antelope Lake		
	None – Background determination	Pedro Lake		
Geophysical Prove-Outs	Playa	Browne Lake	May 2006	July 2006
	Tuff	Tuff site		
Radiological and Geophysical Remote Drive-Over Surveys	RG-52-007-TAML (Davis Gun) TA-52-005-TAAL (JTA DU Sites)	Antelope Lake (south)	August 2006	August 2006
	RG-52-007-TAML (Davis Gun)	Davis Gun tuff sites		
Exploratory Excavation	RG-52-007-TAML (Davis Gun)	Pedro Lake	October 2006	November 2006
	RG-52-007-TAML (Davis Gun)	Antelope Lake		

TABLE 12. CAU 484 CLOSURE ACTIVITIES SCHEDULE (CONTINUED)

ACTIVITY	CAS	LOCATION	START DATE	END DATE
UXO Removal (Exploratory Excavation Locations)	RG-52-007-TAML (Davis Gun)	Pedro Lake	February 2007	February 2007
	RG-52-007-TAML (Davis Gun)	Antelope Lake		
Excavation/Removal of DU, Phase 1	TA-52-001-TANL (NEDS)	NEDS Lake	October 2006	November 2006
	TA-52-004-TAAL (MPDT) TA-52-005-TAAL (JTA DU Sites)	Antelope Lake		
Excavation/Removal of DU, Phase 2	TA-52-001-TANL (NEDS)	NEDS Lake	April 2007	August 2007
	TA-52-004-TAAL (MPDT)	Antelope Lake		
Exploratory Excavation	RG-52-007-TAML (Davis Gun)	Mt. Helen	June 2007	June 2007
Structure removal and disposal	TA-54-001-TANL (Containment Tank and Steel Structure)	NEDS Lake, north end	June 2007	June 2007
Waste disposal	TA-52-001-TANL (NEDS) TA-52-006-TAPL (DUS)	NEDS Lake waste	September 2007 (in process)	
	TA-52-004-TAAL (MPDT) TA-52-005-TAAL (JTA DU Sites) RG-52-007-TAML (Davis Gun)	Antelope Lake waste		

3.0 WASTE DISPOSITION

This section describes the waste streams generated during closure activities and their final disposition.

3.1 WASTE MINIMIZATION

Waste minimization practices were applied where possible. Structures associated with CAS TA-54-001-TANL (Containment Tank and Steel Structure) were size-reduced and transported to the Sandia Salvage Yard in Area 3 at the TTR, from which they will either be re-used or recycled.

3.2 WASTE MANAGEMENT

All waste was managed according to applicable federal and state regulations, U.S. Department of Energy orders, and M&OC procedures. Waste management areas (WMAs) were established throughout the project, as needed. All WMAs were identified with appropriate signs and boundaries to restrict unauthorized access. The WMAs were inspected on a monthly basis, or as otherwise required, to ensure that all containers were intact, not leaking, and not exceeding storage duration times. Applicable WMAs were posted as RMAs whenever radiological waste was stored in the area. Upon removal of radiologically impacted waste, the RMAs will be surveyed and de-posted.

Waste containers were purchased either new or reconditioned. All containers were inspected prior to use to verify that they were in good condition (e.g., no leaks, rust, or dents), lined or made of material that would not react with the waste, and met U.S. Department of Transportation requirements. The containers remained closed while stored unless waste was being added. Containers were also handled in such a manner that the integrity of the container was not compromised. Appropriate labels were affixed, and relevant information was marked on the containers with an indelible marker. All information was legible and clearly visible.

3.3 WASTE CHARACTERIZATION

Waste streams were characterized according to industry standards and M&OC company procedures. Laboratory samples were collected, sealed with a custody seal, cooled to 4 degrees Celsius, and logged on a chain of custody. Waste was also screened for radiological contamination using handheld radiological survey instruments (FIDLERs and/or Electras).

3.4 WASTE STREAMS AND DISPOSAL

Waste streams generated during closure activities at CAU 484 consisted of low-level waste (LLW) and sanitary waste. Waste generation and disposition is summarized in Table 13 and discussed in detail in the following sections. Waste disposition documentation is maintained in the NTS M&OC project files in Mercury, Nevada.

3.4.1 Sanitary Waste

Sanitary waste from cleanup activities was generated by UXO removal. All waste was screened to verify that radiological contamination was less than the free-release limit established in the *NV/YMP Radiological Control Manual* (NNSA/NSO, 2004a). Inert ordnance debris recovered from Pedro and Antelope Lakes during the UXO clearance (see Appendix H for a report of the cleanup activities) was transported to and disposed of at the Air Force Range 71 UXO debris staging area.

3.4.2 Low-Level Waste

A total of approximately 343 yd³ of LLW was generated during closure activities. Radiologically impacted soil and debris were packaged in B-25 boxes and soft-sided containers and stored at TTR in an RMA. The waste profile has been completed and the waste has been approved for disposal in the Area 5 RWMS at the NTS. Table 13 provides a summary of the LLW generated during CAU 484 closure activities. The waste is expected to be transported to the NTS and disposed of in Fiscal Year 2008.

TABLE 13. CAU 484 LLW DISPOSITION SUMMARY

WASTE STREAM	LOCATION	CAS	VOLUME (yd ³)	DISPOSITION
LLW	NEDS Lake	TA-52-001-TANL NEDS Detonation Area	68	NTS Area 5 RWMS
		TA-52-006-TAPL, DUS		
	Antelope Lake	TA-52-004-TAAL, MPDT	275	NTS, Area 5 RWMS
		RG-52-007-TAML, Davis Gun Penetrator Test		
		TA-52-005-TAAL, JTA DU Sites		

4.0 CLOSURE VERIFICATION RESULTS

Closure verification was confirmed through radiological surveys using the drive-over Kiwi equipment. Results show that COCs above the action levels have been removed from all but four of the excavation locations. Cleanup verification via radiological survey (i.e., use of the Kiwi) is documented in the radiological results provided in Appendix M.

4.1 DATA QUALITY ASSESSMENT

Accurate and defensible analytical data were collected to verify that waste was properly characterized, managed, and disposed of and that verification samples adequately confirm closure for CAU 484 closure activities. Data were also processed to verify that samples collected during investigation activities (i.e., Geoprobe sample results for the Surface Detonation Debris Sites) met the applicable QA criteria. The following sections describe the QA/quality control (QC) procedures, data validation process, and a reconciliation of the CSM with actual findings during CAU 484 closure activities. More detail on the QA/QC procedures for CAU 484 can be found in the SAFER Plan for CAU 484 (NNSA/NSO, 2004b) and the Industrial Sites QAPP (NNSA/NV, 2002).

All samples were collected with disposable polyethylene scoops and placed in appropriately labeled sample containers secured with custody seals. Samples were labeled with a unique sample number, placed on ice, and transported under a chain of custody. Standard QA/QC samples were collected (i.e., one blind duplicate and one equipment blank per twenty samples). Samples were analyzed by certified offsite contract laboratories. Analytical results were validated at the laboratory using stringent QA/QC procedures, including matrix spike/matrix spike duplicates, spiked surrogate recovery analysis, verification of analytical results, and data quality indicator requirements. Detailed information regarding the QA/QC program requirements can be found in the Industrial Sites QAPP (NNSA/NV, 2002).

Data validation was performed according to the Industrial Sites QAPP (NNSA/NV, 2002) which is based on the U.S. Environmental Protection Agency (EPA) functional guidelines for data quality (EPA, 1994 and 1999). Data were reviewed to ensure that samples were appropriately processed and analyzed, and that the results are valid. All sample data were internally validated at the Tier I and Tier II levels.

4.1.1 Investigation Data

During investigation of the Surface Detonation Debris Sites, soil samples were collected using the Geoprobe and submitted for laboratory analysis. Results of these analyses were used in conjunction with other data (i.e., geophysical and radiological survey results) to locate areas where COCs were present. This section provides information regarding the QA/QC evaluation of these data.

4.1.1.1 Geoprobe Analytical Data at Surface Detonation Debris Sites

4.1.1.1.1 Data Quality Indicators

All of the Geoprobe data met the data quality indicators required by the DQOs (precision, accuracy, sensitivity, completeness, comparability, and representativeness) and were useable for making decisions except as noted below:

- Precision - The 20% relative percent difference was exceeded for lithium and thallium samples at the DUS and for uranium isotopes at other sites; however, all of the sample concentrations were orders of magnitude less than the action levels such that the data were useable for making a decision. Results from most of the duplicate samples were near or less than the detection limit, which is where the relative percent difference calculations are subject to such results and have little impact on the value of the data quality.
- Accuracy - Laboratory recoveries were inadequate for all niobium analyses and all niobium data were rejected. Niobium is not a typical analyte, and a standard method for detecting the concentration of niobium has not been identified in the Test Methods for Evaluating Solid Waste, SW-846 (EPA, 1996). All other samples met this data quality criterion.
- Completeness - This criterion was met for all critical analytes and for all non-critical analytes other than niobium. The presence of niobium was intended to be a potential indicator that DU would be present and is not considered a hazard itself. Niobium has no established action level in the Region 9, EPA preliminary remediation goals (EPA, 2004) and is not listed as a chemical hazard by the U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health (NIOSH) in the *NIOSH Pocket Guide to Chemical Hazards* (NIOSH, 2005). Because the DU was adequately detected and remediated, the inability to adequately identify the concentration of niobium is not considered a failure in completing the objectives of the CAU 484 closure.

An additional evaluation of the analytical data was completed to verify that a sufficient number of samples were collected to characterize the site within the level of confidence and methodologies identified in the SAFER Plan. The plan was prepared using the Visual Sampling Plan (VSP) software in conjunction with sample number calculations based on the EPA guidance discussed in the SAFER Plan. The VSP "Hot Spot" identification module was used with the input parameters of 95 percent probability of locating an elliptical hot spot with a semi-major axis of 30 feet and a height to width ratio of 0.8 oriented at an unknown angle. The software applied a triangular grid sampling layout and calculated the actual sampling coordinates for each of the sampling locations. The probability and hot spot detection parameters were based on the assumptions stated in the SAFER Plan. The samples were collected for the purpose of identifying an aerial dispersion area, and not to identify the small hot spots that were present because of individual particles and small radioactive metal pieces, as was detected by the radiological surveys.

For the evaluation of characterization data, the same methodologies and assumptions used in the SAFER Plan were used. The initial calculations used to estimate the number of samples needed for characterization used existing data for beryllium and U-238 collected from a similar detonation site at the NTS. A 95 percent confidence and an error of 20 percent were used. The resulting calculation estimated that 36 samples would be needed. For the verification calculation, only U-238 data was used since beryllium was not confirmed at any of the sites. All

U-238 data from each of the compliance sampling locations (i.e., DUS, NEDS, and MPDT) were pooled and normalized to adjust for a lognormal distribution. Data was analyzed using the Grubbs test for outliers, and three locations from the NEDS test area were determined to be outliers and were excluded from the data analysis. Based on this analysis, the number of samples required to characterize each site is less than 36. The 36 samples collected at each location provides a confidence level that approaches 99 percent with an associated error of less than 10% and a statistical significance of 0.01. In summary, the DUS, NEDS, and MPDT sites have been adequately characterized.

4.1.1.1.2 Statistical Analysis

Statistical evaluations of the Geoprobe investigation data were performed to compare and evaluate the different data sets. The statistical evaluations include results regarding comparability of data collected from the two different depths at each site, comparisons of characterization data with local background concentrations, and other evaluations. Results of the statistical analysis are provided in Appendix J-1 and are summarized below:

- Surface versus subsurface concentrations – There is no statistically significant difference in uranium concentrations between samples collected from the surface (i.e., 0.0-0.5 ft bgs) and those collected from the subsurface (i.e., 1.0-1.5 ft bgs) with the exception of one hot spot in the center of the NEDS Detonation Debris Site. There are some differences for the other analytes.
- Investigation versus background concentrations – There were some differences between background concentrations and the individual site concentrations at all locations; however, there were no differences between concentrations of mercury and thallium at the DUS.
- Investigation versus action level – The action level for one analyte was exceeded at only one location, the uranium hot spot at the NEDS site.
- Probability of concentration exceeding the action level – The probability of any random point at the site exceeding the action level is extremely low (i.e., less than 0.000001), except for the uranium hot spot at the NEDS site.

4.1.1.2 **Statistical Evaluation of Davis Gun Geophysical Data**

Statistical evaluations of the Davis Gun geophysical data were performed to compare and evaluate the different data sets. Results of the statistical analysis are provided in Appendix J-2. Results indicate that pursuing alternate options to excavating all of the potential targets would be more prudent than to excavate the extremely large number of targets that would be necessary to get a reasonable degree of assurance (i.e., the 95 percent confidence level) that all of the DU and/or Davis Gun penetrators have been identified. This supports the closure alternatives that were undertaken, which took measures to identify and conduct closer investigation of those sites where penetrators or DU were most likely present, rather than excavating all of the anomalies that were identified.

4.1.2 Cleanup Verification Data

Cleanup verification was confirmed using the Kiwi vehicle sodium iodide detectors. The results of this field detection method are direct readings of the remaining radioactivity at the cleanup locations. Data are post-processed to evaluate the spectral quality and confirm if radiological count measurements exceed the threshold of standard deviations from the mean. Technical evaluation of the Kiwi system has documented that three standard deviations from average background is the lowest threshold where the presence of depleted uranium can be quantified. All but four locations on Antelope Lake (i.e., CA-1, SA-4, SA-5-9, and SA-12-15) were verified clean closed. Results of cleanup verification using this method are described in more detail in Appendix M.

4.1.3 CSMs

Three CAU 484 CSMs were developed and were presented in Appendix A of the approved SAFER Plan for CAU 484 (NNSA/NSO, 2004b). This information is also included in Appendix A of this document. All CSMs were confirmed and verified by closure activities with the following exceptions:

- Surface Detonation Debris Sites:
 - The CSM assumed that DU would exist as discrete fragments on the ground surface; however, DU was found on the ground surface and in the surrounding soil to a depth of as much as 10 ft bgs. Also, DU was found as metal fragments and as oxide, and the DU oxide had dispersed into the surrounding soil. Cleanup was completed and verified using the Kiwi sodium iodide detectors.
- CAS RG-52-007-TAML, Davis Gun Penetrator Test:
 - Geophysical and radiological surveys were not conducted on Main Lake because it was covered with water. A decision was made to postpone investigation of Main Lake until such time that investigation results indicated that if Davis Gun penetrators were present at other playa locations, an investigation strategy would be developed for Main Lake. If no penetrators were located on other playas, then Main Lake would also be considered closed. No penetrators were located on the other playas.
 - All Davis Gun penetrator geophysical targets were not investigated because no Davis Gun related debris or DU was encountered in the 13 excavations that were completed on Antelope and Pedro Lakes, and because six of the geophysical anomalies that were investigated turned out to be UXO rather than Davis Gun penetrators.
- NEDS and Antelope Lakes: DU was encountered outside of expected/known areas of dispersion.
 - On NEDS Lake, DU dispersion extended outside of the anticipated area identified in the SAFER Plan for the NEDS Detonation Area and the DUS. The only known tests on NEDS Lake are the NEDS and Colimbo (DUS) Tests, and the DU debris that was found was consistent with dispersal from these detonations; therefore, the DU cleaned up on NEDS Lake is not outside the bounds of CAU 484.

- The DU encountered on Antelope Lake can be grouped into two categories: (1) fragments with limited contaminated soil on the playa surface, and (2) larger, oxidized debris disseminated on the playa surface and in the shallow subsurface. The DU fragments on the ground surface are consistent with a surface detonation, which could be related to dispersion from the MPDT. The source of the larger oxidized areas of DU on the playa surface and shallow subsurface is unknown; however, the areas with DU are in or near areas where historical Davis Gun penetrator tests were known to have been conducted, even though the relation of the DU to these tests is not known. In a May 7, 2007, meeting, NNSA/NSO decided that areas of DU on Antelope Lake that are within or near areas of Davis Gun testing would be cleaned up within the scope of CAU 484. Cleanup was completed and verified using the Kiwi sodium iodide detectors for excavations accessible to the Kiwi survey vehicle, and collecting cleanup verification soil samples for excavations that were not accessible to the Kiwi vehicle.

4.2 USE RESTRICTION

A use restriction has been implemented for CAS RG-52-007-TAML, Davis Gun Penetrator Test. Four locations on Antelope Lake were use-restricted for remaining subsurface DU contamination. Surface contamination was excavated to remove DU and DU-contaminated soil shallower than 0.5 ft bgs. Excavated areas have been filled with clean, native fill and slightly mounded to prevent ponding of rainwater. Each of the four areas has been posted with four use restriction signs to warn against intrusive activity. "Underground Radiological Material" signs have also been posted at each location. The CAU Land-Use Restriction Information form and figures showing the locations of the surveyed points delineating the use-restricted areas are provided in Appendix O. This information has been submitted to the U.S. Air Force at the TTR.

Annual site inspections will be performed to verify that the signs are in good repair and that the use restriction has been maintained. Details on the post-closure requirements for this CAS are included in Section 5.2.

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5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSIONS

The following site closure activities were performed at CAU 484 and are documented in this CR:

- CAS RG-52-007-TAML (Davis Gun Penetrator Test) was closed in place at four locations on Antelope Lake where clean closure was not possible. DU debris and contaminated soil that were detected on the ground surface at Antelope Lake was excavated, packaged, and will be disposed of as LLW. At the four locations, extent of DU contamination was extensive and/or complicated by the presence of non-CAU 484 UXO and debris. These four locations were excavated to remove surface contamination, covered with clean fill that has been mounded to provide for water runoff, and closed in place with a use restriction. Numerous investigation activities were also undertaken to locate Davis Gun penetrators or associated debris. No Davis Gun penetrator debris or DU was encountered during any of the exploratory excavations made to locate the penetrators; therefore, NNSA and NDEP agreed that no additional Davis Gun penetrator targets would be excavated or investigated. Investigating penetrators that may be present at depths greater than 10 ft bgs is not feasible due to technology limitations and, at these depths, hazardous debris and/or DU does not pose a threat to human health and/or the environment.
- CAS TA-52-001-TANL (NEDS Detonation Area) was clean closed by removing and disposing of DU debris and contaminated soil.
- CAS TA-52-004-TAAL (MPDT) was clean closed by removing and disposing of DU debris and contaminated soil.
- CAS TA-52-005-TAAL (JTA DU Sites) was clean closed by locating, retrieving, and disposing of three DU rings, which comprise the CAS, and associated, contaminated soil.
- CAS TA-52-006-TAPL (DUS) was clean closed by removing and disposing of DU debris, DU, and uranium-contaminated soil.
- CAS TA-54-001-TANL (Containment Tank and Steel Structure) was clean closed by removing the uncontaminated structures and either recycling the materials or re-using them elsewhere.

5.2 POST-CLOSURE REQUIREMENTS

Results of all inspections in a given year will be documented in the annual combined post-closure report for the TTR. This report will include a discussion of inspections and observations, and copies of the site inspection checklists. This report will be submitted to the NDEP annually or as otherwise agreed to with the NDEP.

5.2.1 Inspections

Inspections will be performed semi-annually for the first year post-closure, after which they will be performed annually. Inspections will consist of visual observations to verify that the underground radioactive material area and UR warning signs are in place and readable and that

the UR is maintained. The interior of each of the UR areas will also be inspected to confirm that there have been no disturbances. Any repairs or maintenance will be documented in writing at the time of the repair. A Post-Closure Inspection Checklist will be completed to document the results of the inspection and to describe repairs that were performed since the previous inspection.

5.2.2 Monitoring

No monitoring other than visual inspections will be required for CAU 484.

5.3 RECOMMENDATIONS

Since closure activities for CAU 484 have been completed following the NDEP-approved SAFER Plan (NNSA/NSO, 2004b) or as otherwise documented in this report, NNSA/NSO requests the following:

1. Provision of a Notice of Completion from NDEP to NNSA/NSO for the closure of CAU 484.
2. Transfer of CAU 484 from Appendix III to Appendix IV, Closed CAUs, of the FFACO (FFACO, 1996).

6.0 REFERENCES

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NIOSH, see U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

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APPENDIX A*

DATA QUALITY OBJECTIVES

* As presented and published in Appendix A1 of the approved *Streamlined Approach for Environmental Restoration Plan for Corrective Action Unit 484: Surface Debris, Waste Sites, and Burn Area, Tonopah Test Range, Nevada*. 2004. DOE/NV--975. Las Vegas, NV.

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ACRONYMS AND ABBREVIATIONS

BN	Bechtel Nevada
CAI	Corrective Action Investigation
CAS	Corrective Action Site
CAU	Corrective Action Unit
COC	Contaminants of concern
COPC	Contaminants of potential concern
CSM	Conceptual Site Model
CV	Coefficient of variation
DOE	U.S. Department of Energy
DOE/NV	U.S. Department of Energy, Nevada Operations Office
DQO	Data Quality Objective(s)
DU	Depleted uranium
EPA	U.S. Environmental Protection Agency
FFACO	Federal Facility Agreement and Consent Order
ft	foot (feet)
ft ²	square feet
ft ³	cubic feet
IT	International Technology
JTA	Joint Test Assembly
m	meter(s)
m ²	square meters
m ³	cubic meters
MPDT	Metal Particle Dispersion Test
NCRP	National Council on Radiation Protection and Measurements
NDEP	Nevada Division of Environmental Protection
NEDS	Nonviolent Explosive Destruct System
NNSA/NSO	U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office
PRG	Preliminary remediation goal
QA/QC	Quality Assurance/Quality Control
SAFER	Streamlined Approach for Environmental Restoration
TTR	Tonopah Test Range

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APPENDIX A
DATA QUALITY OBJECTIVES FOR
CORRECTIVE ACTION UNIT 484: SURFACE DEBRIS, WASTE SITES,
AND BURN AREA,
TONOPAH TEST RANGE, NEVADA

Presentation of Known Data Related to Corrective Action Unit 484

The information presented in this worksheet is based on historical data generated from preliminary assessment activities for Corrective Action Unit (CAU) 484 at the Tonopah Test Range (TTR). The Data Quality Objective (DQO) worksheet follows the U.S. Environmental Protection Agency (EPA) DQO guidance outline (EPA, 2000b). The steps systematically build on the data acquired during preliminary assessment work and background research. Copies of the preliminary assessment work are retained in the CAU 484 project files.

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5. Primary Decision Makers
Janet Appenzeller- Wing (NNSA/NSO)
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1.0 STATE THE PROBLEM (Step 1)

Concisely describe the problem to be studied. Review prior studies and existing information to gain a sufficient understanding to define the problem.

The general location, nature, and extent of the CAU 484 corrective action sites (CASs) is understood; however, additional information is needed to verify that the existing information is adequate, confirm the existence of contamination and/or waste, and/or verify previously completed cleanup activities. Information will be used to close these CASs under the Streamlined Approach to Environmental Restoration (SAFER) process.

1.1 CAS Specific Information

CAU 484, Surface Debris, Waste Sites, and Burn Area, is located at the TTR and consists of the following six CASs:

- CAS RG-52-007-TAML, Davis Gun Penetrator Test,
- CAS TA-52-001-TANL, NEDS Detonation Area,
- CAS TA-52-004-TAAL, Metal Particle Dispersion Test,
- CAS TA-52-005-TAAL, Joint Test Assembly DU Sites,
- CAS TA-52-006-TAPL, Depleted Uranium Site, and
- CAS TA-54-001-TANL, Containment Tank and Steel Structure.

The following sections describe the CASs in CAU 484 and the conceptual site models (CSMs) that apply to each CAS.

1.1.1 CAS RG-52-007-TAML, Davis Gun Penetrator Test

CAS RG-52-007-TAML, Davis Gun Penetrator Test, consists of potentially 9 locations at TTR and the Nevada Testing and Training Range (NTTR) and is identified within the Federal Facilities Agreement and Consent Order (FFACO) as Depleted Uranium (DU) Surface Debris. The potential locations where Davis Gun Penetrator tests were conducted include Antelope Tuff Target 1, Antelope Tuff Target 2, Myers Ridge, Sidewinder Tuff Target, Antelope Lake, Main Lake, Pedro Lake, Brownes Lake, and Mt. Helen (Mt. Helen was apparently erroneously reported as Mellan Hill in some documentation; no Davis Gun tests are known to have been conducted at Mellan Hill.)

The Davis Gun is a recoilless rifle used by Sandia National Laboratories to fire artillery projectiles into soil, rock, and concrete targets. According to information collected previously, the penetrators used at TTR were usually inert with the occasional use of DU as ballast. At least one test included a plutonium pit in a penetrator and was recovered intact and returned to the test customer. Historical evidence indicates that one penetrator was possibly lost in 1976 when a penetrator was reported as falling into a fracture that opened on Antelope Lake after a heavy rain. The penetrator could not be subsequently located and it is unknown if the lost penetrator contained DU or if the event actually occurred.

Release of DU is not a likely scenario at Davis Gun test locations, as there is evidence that all penetrators were recovered completely intact. The purpose of Davis Gun tests was to evaluate delivery system packages and a primary goal of the experiments was to recover the test components. Therefore, it is highly unlikely that test components were left at the sites where the

experiments were conducted. An unrecovered penetrator would be considered a test failure and no failures for Davis Gun tests have been reported. Areas where Davis Gun tests occurred will be investigated as necessary and the appropriate corrective actions will be taken.

1.1.2 CAS TA-52-001-TANL, NEDS Detonation Area

The NEDS (Nonviolent Explosive Destruct System) Detonation Area is a test site located on the northern half of NEDS Lake and is identified within the FFACO as DU Surface Debris. The tests were performed in 1974 and involved exploding mock nuclear warheads using high explosive to test containment. Depleted uranium and/or beryllium were used as components within the mock warheads. Although the area was cleaned and the majority of debris was recovered after the tests, the possibility remains that residual DU and/or beryllium may remain on the playa surface in the area of the detonations. The area where the NEDS test occurred will be investigated and the appropriate corrective actions will be taken.

1.1.3 CAS TA-52-004-TAAL, Metal Particle Dispersion Test

The Metal Particle Dispersion Test (MPDT) is located within the northwest corner of Antelope Lake and is identified within the FFACO as DU Surface Debris. The MPDT is the site of a 1987 experiment in which a W-82 mock nuclear artillery shell was detonated with high explosive to test dispersal patterns. Depleted uranium and/or beryllium were used to simulate the dispersal of radioactive materials. The location of the test is documented and a recovery operation took place after the test to map the dispersion of the particles. A soil berm was also constructed around the area of the test. Residual radiological materials may remain within the bermed area depending on the thoroughness of the cleanup completed in 1987.

1.1.4 CAS TA-52-005-TAAL, Joint Test Assembly DU Sites

The Joint Test Assembly (JTA) DU Sites are located within the northern portion of Antelope Lake and are identified within the FFACO as DU Surface Debris. The JTA experiments were conducted in 1987 and involved firing four W-33 mock nuclear artillery shells from a 155-millimeter howitzer. The projectiles were fired from Area 9 toward Antelope Lake. The artillery rounds reportedly contained DU rings for additional reaction mass. Interviews of project personnel indicate that at up to three of the rings were never recovered despite a 2-square mile search of the impact area on the northern portion of Antelope Lake. For this reason, DU associated with the JTA experiments may be present on the surface or shallow subsurface of the northern portion of Antelope Lake. This site is being investigated to determine if any materials from the JTA tests remain on Antelope Lake.

1.1.5 CAS TA-52-006-TAPL, Depleted Uranium Site

The Depleted Uranium Site is located on NEDS Lake and is identified within the FFACO as DU Surface Debris. This site is the result of the 1985 Colimbo test in which a fully configured W-81 cruise missile was detonated above the surface of NEDS Lake. Recovery and cleanup operation was conducted to remove components and debris related to the test. However, there may be residual DU and/or beryllium as well as an unconfirmed sealed cobalt radiological source remaining on the playa surface. The location of the detonation is well documented and the area will be investigated to determine if residual components of the Colimbo test remain at the site.

1.1.6 CAS TA-54-001-TANL, Containment Tank and Steel Structure

Several large pieces of debris associated with NEDS Lake operations are located at the north end of the lake. The structures are believed to have been used during the NEDS tests and have been previously evaluated and determined not to be contaminated. The tank and structure is considered non-impacted housekeeping waste/debris and will be cleaned up accordingly. A wood and steel structure associated with CAU 410 is also present at this location and may be removed.

The CAS has been incorrectly described as containing a burn area. CAS TA-54-001-TANL was originally described and thought to have been a location for burning rocket fuel. However, burning of rocket fuel was determined not to have occurred at this location and the CAS name was changed to "Containment Tank and Steel Structure." The "containment tank" is actually designed to be used as a shelter by personnel during some type of testing activity. The use of the steel structure is unknown. However, both the containment tank and steel structure were used at different locations on the TTR and have been subsequently moved to their present location. A burn site is located on NEDS lake but it is related to training exercises conducted by TTR security forces and is not part of CAU 484.

1.2 Develop/Refine the Conceptual Model

Available information from which the conceptual models are based was derived from site process knowledge, historical background information, site analysis, and personnel interviews relative to the activities related to the CAS. Three CSMs have been developed for CAU 484.

1.2.1 Surface-Shallow Subsurface Debris CSM

This CSM addresses areas where DU and/or system components may have been released to the ground surface or may have penetrated the shallow subsurface. A graphical depiction of the CSM is shown in Figure 1 of this appendix. Based on the types of testing activities conducted at the locations included in this CSM, if DU is detected it will be present in discrete pieces. Based on process knowledge and technology limitations, shallow subsurface is defined as being a depth of 3 m (10 feet [ft]) or less below ground surface. The surface and shallow subsurface will be evaluated using geophysical methods. The following sites are included within the Surface-Shallow Subsurface Debris CSM:

1.2.1.1 CAS RG-52-007-TAML, Davis Gun Penetrator Test

The locations of the Davis Gun Penetrator Test sites are primarily identified on lake beds by evidence of a circular berm (constructed to prevent storm water run-on during penetrator recovery operations) and, at locations not on lake beds, by evidence of an excavation and associated rock spoils. Small piles of rock fragment are commonly present adjacent to targets located in areas where tests were conducted in the tuff. Known or possible test locations include Antelope Tuff Target 1, Antelope Tuff Target 2, Myers Ridge, Sidewinder Tuff Target, Antelope Lake, Main Lake, Pedro Lake, Brownes Lake, and Mt. Helen. Based on the documentation, it is unlikely that any unrecovered penetrators or fragments remain below the surface. However, the CAS is listed as potential surface contamination because it is known that the DU that was occasionally used as ballast in the penetrator projectiles. These areas are not located within known radiological control areas and contaminants of potential concern (COPC) are not expected. Depleted uranium was used as ballast within some penetrators but all penetrators were

reported as being recovered intact. It is unknown if the penetrator reported lost in a crack on Antelope Lake contained DU or if it was actually lost.

1.2.1.2 CAS TA-52-005-TAAL, Joint Test Assembly DU Sites

The exact location of the Joint Test Assembly (JTA) tests is unknown. Based on available documentation, the apparent target area for the JTA tests is northern half of Antelope Lake. Three DU rings were reported lost on Antelope Lake. Although a large search was conducted for the missing material after the tests, the lost depleted rings were never located. If the DU rings are located on Antelope Lake, they are not located within known radiological control areas and COPC other than DU are not expected.

1.2.2 Surface Detonation Debris CSM

This CSM addresses CASs where some type of dispersion test was conducted which resulted in the release of DU, beryllium, and system components to the ground surface (Figure 2 of this appendix). Based on the types of testing activities that resulted in potential contamination at the sites within this CSM, DU, beryllium, and system components will consist of discrete pieces of metal and/or debris on the ground surface. Impacted soil associated with the waste at these sites is assumed to be minimal and only associated with the DU and/or beryllium fragments. Although no subsurface debris is suspected at these sites, the shallow subsurface will be evaluated using geophysical techniques to confirm the CSM. Documentation indicates that cleanup activities were conducted following each of the tests performed at these sites. However, previously completed cleanup of DU at the sites within this CSM has not been verified, and will be evaluated during the planned characterization activities. The following sites are included within the Surface Detonation Debris CSM:

1.2.2.1 CAS TA-52-001-TANL, NEDS Detonation Area

The NEDS tests took place on the northern half of NEDS Lake. However, the exact test location(s) are not known. Based on the documentation, DU and beryllium fragments were recovered at the completion of the NEDS tests. The potential for DU and/or beryllium fragments on the surface of NEDS Lake is possible and will be evaluated during the site investigation. Buried debris is unlikely due to the nature of the tests. The CAS is listed as potential surface contamination due to the DU and/or beryllium that may have been used in the test units. These areas are not located within known radiological control areas, and COPC other than beryllium and/or DU are not expected.

1.2.2.2 CAS TA-52-004-TAAL, Metal Particle Dispersion Test

The location of the MPDT is within a bermed area on the north end of Antelope Lake. Depleted uranium and/or beryllium were used to simulate the dispersal of fissionable radioactive materials. Based on the documentation available, it is unlikely that appreciable amounts of unrecovered DU and/or beryllium fragments remain within the bermed area. The site is described as potential surface contamination area and some amounts of DU and/or beryllium may remain on the surface. Due to the nature of the test and the recovery effort completed as part of the experiment, it is unlikely that any buried debris relating to the MPDT is present. While the bermed area is not formally posted as a radiological area, signs have been placed at the site indicating that the area is a soil contamination area. COPC other than beryllium and/or DU are not expected.

1.2.2.3 CAS TA-52-006-TAPL, Depleted Uranium Site

The location of the Colimbo Test is marked by a brass at-grade monument on the northern half of NEDS Lake. Documentation indicated that it is unlikely that any large unrecovered fragments remain on the surface. This CAS includes possible surface debris which may be DU and/or beryllium. The area of this CAS is not located within a known radiological control area and COPC other than beryllium and/or DU are not expected.

1.2.3 Non-Impacted Surface Debris CSM

This CSM addresses CAS TA-54-001-TANL (Containment Tank and Steel Structure) which consists of non-impacted structures on the ground surface. Figure 3 of this appendix shows this CSM. The structures will be screened to confirm they are not radiologically impacted and the materials will be removed for disposal or recycling.

1.3 Secondary Conceptual Site Models for CAU 484

The conditions under the secondary CSMs for CAU 484 are considered less likely than the conditions outlined in the primary CSMs. No information has been identified that suggests conditions outside the primary model are present. The secondary CSMs for CAU 484 are similar to the primary model with one or more of the following exceptions:

- Potentially buried debris may be deeper than anticipated. This poses a situation where site conditions may exceed the technical limitations of available geophysical methods.
- Surface debris that is expected to be non-impacted is determined to be impacted.
- A primary assumption is that DU, if present, will be in discrete pieces and that there will be minimal soil impact. If significant areas of DU-impacted soil are present the CSM will be re-evaluated and the investigation-closure strategy may be revised as necessary.
- Areas with suspected surface debris are determined to extend into the subsurface.
- A CAS can not be located due to unavailability of information, technology limitations, or other causes. Closure of the site will proceed following the precedent established by CAU 495 where the site was promoted to FFACO Appendix IV with the caveat that the site would be reopened for investigation if additional information was found in the future (NDEP, 1999).

1.4 Potential Hold Points

During closure activities, certain conditions affecting the project schedule and budget may require decisions prior to continuing work. Primary hold/decision points that may occur during the CAU 484 SAFER process have been identified and include the review of data for the selection of potential site locations for further investigation and the review of analytical data.

The results of geophysical and radiological surveys will be reviewed and presented to the NNSA/NSO and/or the NDEP. Three potential results are possible and will be evaluated for further action. The potential results include the following: a distinct target representing the site will be located, several potential targets will be located, or no potential targets will be identified. If a single target is identified, the data will be reviewed and a decision will be made concerning the type and nature of investigation required. If multiple potential targets are identified, a decision will be made concerning which targets are to be investigated and the nature of investigation required. If no targets or potential targets are identified for a specific site the alternative CSM will be evaluated for additional areas of site investigation or closure by no

further action using the CAU 495 scenario (caveat that the CAU may be closed but will be reopened if additional information is found in the future) (NDEP, 1999).

An additional hold/decision point occurs during the investigation when results of soil sampling and laboratory analysis for beryllium and DU screening results will be reviewed with the NNSA/NSO and/or the NDEP to confirm the cleanup and/or closure approach. Throughout the investigation/closure process, data will be collected, evaluated, and presented to NNSA/NSO for review and input.

In addition to the previously discussed hold/decision points, work may be temporarily suspended until the issue can be satisfactorily resolved if any of the following unexpected conditions occur:

- Conditions outside the scope of work are encountered such as large amounts of unexploded ordnance,
- Radiological screening yields results which require an upgrade in procedures to continue survey work in specific areas,
- Elevated beryllium levels are found in soil samples,
- Elevated levels of additional COPCs are found that were not originally identified as being present at the sites,
- Encountering unexpected conditions including waste and/or contamination,
- Out-of-scope work activities are required due to the detection of other contaminants of concern (COC) that would require re-evaluating a disposal pathway, such as with hazardous or low level waste,
- Unsafe conditions or work practices posing a threat to personnel, equipment, or the environment, not originally documented in the Site Specific Health and Safety Plan, are encountered,
- Other technical factors are encountered that require the preparation of a Record of Technical Change to the approved SAFER Plan.

2.0 IDENTIFY THE DECISION (Step 2)

Identify what questions the study will attempt to resolve, and what actions may result.

2.1 Develop Decision Statements

A SAFER Plan will be prepared based on the currently available process knowledge, historical information, geophysical data, and radiological survey data. The CASs within CAU 484 may be divided into sites where the general location and nature of debris/contamination is known, and sites where the location has not been confirmed and the nature of the debris/contamination is known.

Sites where the general location and nature of debris/contamination are known include the following CASs:

- CAS TA-52-001-TANL, NEDS Detonation Area
- CAS TA-52-004-TAAL, Metal Particle Dispersion Test
- CAS TA-52-006-TAPL, Depleted Uranium Site
- CAS RG-52-007-TAML, Davis Gun Penetrator Test (Antelope Tuff Target 1, Antelope Tuff Target 2, Myers Ridge, Sidewinder Tuff Target, Mt. Helen)

Sites where the location has not been confirmed and the nature of the debris/contamination is known include the following CASs:

- CAS TA-52-005-TAAL, Joint Test Assembly DU Sites
- CAS RG-52-007-TAML, Davis Gun Penetrator Test
- (Antelope Lake, Main Lake, Pedro Lake, Brownes Lake, Antelope Tuff, Myers Ridge, Sidewinder Tuff, and Mt. Helen)

For CASs where the location has not been confirmed, historical information, interviews, site conditions, and geophysical and radiological data will be evaluated and a potential target location will be identified for each CAS, if possible. Potential target information will be presented to NNSA/NSO for concurrence. Selected targets will be addressed during the Corrective Action Investigation (CAI). Findings of the CAI will be evaluated with the NNSA/NSO and the corrective action approach will be confirmed and documented. Sites with impacted materials will be either clean closed by removing the impacted material, or closed in place. Clean closure will be verified by conducting a radiological survey for DU, and verification soil samples will be collected if beryllium is identified as a COC.

2.2 Decision Statements

Decision I – Is waste present and/or is contamination present above action levels within a CAS? A COPC that is detected at a concentration exceeding action levels will be considered a COC. A COC is defined as a site-related constituent that exceeds the screening criteria or is detected during surface radiological surveys. Depleted uranium will be considered a COC if it is detected during surface surveys.

Decision II – If waste is present and/or contamination is present above action levels or screening levels, has the lateral and vertical extent been determined and is it technically feasible to remove the waste/contamination? (If technically feasible all CASs containing waste/contamination will be clean closed.) If potentially buried debris can not be located the site will be closed using the CAU 495 model (no further action unless additional information is identified in the future) (NDEP, 1999).

2.3 Alternative Actions to the Decision

If a COPC is not present, further assessment of that COPC in the CAS is not required. If a COC is present, resolve Decision II. The alternative for Decision II is: “If the extent and migration of a COC is defined in both the lateral and vertical directions, further assessment of the CAS is not required. If the extent of a COC is not defined, reevaluate site conditions and collect additional samples.”

Sites with insufficient information and/or data will be evaluated for additional data collection or a “no further action” alternative. If the “no further action” alternative is selected, the approach previously approved by NDEP for CAS 495 (Unconfirmed Joint Test Assembly (JTA) Sites) will be implemented (NDEP, 1999). This approach will allow closure of unconfirmed sites with no land/site use restrictions and no post-closure monitoring. However, should additional evidence become available in the future which indicates the location for the site, the site should be reopened to continue the investigation.

3.0 IDENTIFY THE INPUTS TO THE DECISION (Step 3)

Identify the information that needs to be obtained and the measurements that need to be taken to resolve the decision statement. This step identifies the information needed and sources of information, the basis for establishing action levels, and sampling and analysis methods that can meet the data requirements.

3.1 Identify the information inputs needed and resolve the decision.

In order to confirm the site CSM and to determine the nature and extent of contamination, data must be collected and analyzed following the following three criteria: 1. Survey data must be collected in areas containing impacted debris and/or contamination; 2. Samples will be collected from areas most likely to be contaminated by beryllium (samples may be analyzed for beryllium and depleted uranium); and 3. The data must be adequate to detect COC. Investigation and closure verification data for DU will be collected using field-screening methods, and beryllium cleanup will be verified through sample collection and analysis. Soil samples may be collected to verify closure activities at depleted uranium-impacted sites.

In order to determine if a COC (e.g., beryllium, depleted uranium) is present at a particular CAS, sample data must be collected and analyzed by two criteria: 1. Samples must be collected in areas most likely to be contaminated; and 2. The requested analyses must be sufficient to detect any contamination present within the samples. The only COCs identified for CASs within CAU 484 are DU and beryllium. Depleted uranium characterization will be completed using field survey and screening instruments, and sample collection for laboratory analysis. For sites with beryllium as a COC, the contamination will be associated with DU (due to the nature of the release).

In order to confirm the extent of contamination, data must be collected and analyzed using a data collection method adequate to detect the COC. Samples will be collected based on radiological and geophysical surveys, field observations, and field screening results. Samples will be collected from areas expected not to be impacted by the COC so that the impacted area can be bounded and defined.

Biasing factors to support the determination of the nature and extent criteria include:

- Radiological surveys,
- Geophysical surveys,
- Documented process knowledge on source and location of release,
- Field observations,
- Experience and data from investigations of similar sites,
- Professional judgment, and
- Field screening results.

Quantitative Data

Quantitative data measures the quantity or amount of a characteristic or component within the population of interest. These data require the highest level of quality assurance/quality control (QA/QC) in collection and measurement systems because the intended use of the data is to resolve primary decisions, and/or to verify that closure standards have been met. Laboratory analytical data are generally considered quantitative.

Semiquantitative Data

Semiquantitative data indirectly measure the quantity or amount of a characteristic or component. Inferences are drawn about the quantity or amount of a characteristic or component because a correlation has been shown to exist between the indirect measurement and the results from a quantitative measurement. The QA/QC requirements on semiquantitative collection and measurement systems are high but may not be as rigorous as a quantitative measurement system. Semiquantitative data contribute to decision making but are not used alone to resolve primary decisions. Field-screening data are generally considered semiquantitative. The data are often used to guide investigations toward quantitative data collection.

Qualitative Data

Qualitative data identify or describe the characteristics or components of the population of interest. The QA/QC requirements are the least rigorous on data collection methods and measurement systems. The intended use of the data is for information purposes, to refine conceptual models, and to guide investigations rather than resolve primary decisions. This measurement of quality is typically assigned to historical information and data where QA/QC may be highly variable or not known. Professional judgment is often used to generate qualitative data.

Hold Points

Hold points will be designed into the investigation and closure activities for CAU 484. Hold points are designed to allow decision makers to review the existing data and decide which of the available options are most suitable. Hold points include the review of geophysical and radiological data and field observations for selection of targets for investigation, selection of corrective actions. The major hold points for this project have been identified and are discussed in Section 1.4

3.2 List Types of Contaminants of Potential Concern and Affected Media

It is expected that DU and beryllium fragments may be found at several locations on the dry lake surfaces (Surface Detonation Debris CSM). The most likely locations where these materials may be found are within the following CASs:

- TA-52-001-TANL, NEDS Detonation Area
- TA-52-004-TAAL, Metal Particle Dispersion Test
- TA-52-006-TAPL, Depleted Uranium Site

Depleted uranium and/or inert debris may be found on the surface and/or shallow subsurface at several locations on the dry lake and other testing locations on the TTR (Surface-Shallow Subsurface Debris CSM). The most likely locations where these materials may be found are within the following CASs:

- RG-52-007-TAML, Davis Gun Penetrator Test
- TA-52-005-TAAL, Joint Test Assembly DU Sites

3.3 Identify Potential Sampling Approaches and Appropriate Analytical Methods

The sampling techniques and analytical methods identified below will be used to resolve the decision rules and confirm the nature and extent of contamination at each CAS.

Geophysical Surveys

Electromagnetic surveys will be used to determine the presence and lateral extent of areas containing surface or near-surface metallic objects/debris. Geophysical surveys followed standard procedures for the instrumentation used. The initial geophysical method used to survey CAS locations will be surveys with a metal detector, however additional geophysical methods may be used as needed to better refine the CAS boundaries and/or locations.

Radiological Survey

Radiological surveys will be used to determine the presence and lateral extent of radiological contamination. The initial survey will be completed using a truck mounted gamma ray spectrometer system reporting, as a minimum, gross counts for meta-stable Protactinium-234. Additional radiological survey methods may be used as needed to complete the corrective action investigation. Data will be collected and reduced daily in order to provide data in near real-time for QA and survey operational decisions. The initial survey will be conducted at an instrument height of 71 centimeters (28 inches) above the ground surface with an expected sensitivity of 10 milliCuries (approximately 30 grams or 1.5 cubic centimeters of DU). The instrument height may be lowered to approximately 35.5 centimeters (14 inches) above the ground surface for an expected sensitivity of 1 milliCurie (approximately 3 grams or 0.15 cubic centimeters of DU).

Radiological Field Screening

Based on site conditions and available data, field-screening activities may be conducted for alpha and beta/gamma radiation. A handheld radiological survey instrument or method may be used, based on the possibility that radiologically contaminated soil/debris may be present. If determined appropriate, on-site gamma spectrometry may also be used to screen samples.

Field screening techniques may be used during the Decision I and II sampling activities. These field-screening techniques will provide semiquantitative data that can be used to guide potential confirmatory sampling and waste management activities.

Soil Sampling

Hand sampling, auguring, direct push, excavation, drilling, or other appropriate sampling methods may be used to collect soil samples. Sample collection and handling activities will only be conducted in accordance with approved procedures. Soil samples will be collected (from CASs within the Surface Detonation Debris CSM) from biased and random locations after potential target areas have been determine from the geophysical and radiological survey data.

4.0 DEFINE THE STUDY BOUNDARIES (Step 4)

Specify the time periods and spatial area to which decisions will apply. Determine when and where data should be collected. The purpose of this step is to define the target population of interest, specify the spatial and temporal features of that population that are pertinent for decision making, determine practical constraints on data collection, and define the scale of decision making relevant to target populations for Decision I and Decision II.

4.1 Define the Geographic Areas of the Field Investigation.

4.1.1 Define the Geographic Area Within Which all Decisions Must Apply

CAU 484 has been defined based on the historical data collected during previous investigations. The area of the surveys will include Brownes Lake, Pedro Lake, the northern half of Antelope Lake, and the northern half of NEDS Lake. Former test locations at Myers Ridge, Sidewinder Tuff, and Mt. Helen are also included in CAU 484.

4.1.2 Specify the Characteristics that Define the Population of Interest

The population of interest is all of the survey areas. The debris may include material found on the surface or buried near-surface, as identified by geophysical and radiological methods and/or visual inspection of the survey area.

4.2 Define the Time Frame of the Decision

4.2.1 Determine the Time Frame to Which the Study Data Apply

The study data should be relevant with the length of time allowed for by the SAFER process under the FFACO agreement. The decisions will be based on the documentation and data collection activities planned for 2004 and combined with the planned surveys to determine the proper recommendations for each of the CASs.

4.2.2 Determine When to Collect Data

Data collection activities are scheduled to begin in fiscal year 2004 and closure activities will be completed after approval of the final SAFER Plan. Data will be collected at times that meet the security and safety constraints of the TTR site, and at times when weather conditions that allow adequate site access and safe working conditions. A tentative schedule of activities for the completion of CAU 484 is presented in the SAFER Plan.

Radiological screening will be used to detect radiation above free-release criteria before any debris is removed off-site. There will be no other data collection, unless staining or other evidence of the presence of COPC or potential environmental impact is visibly detected and is determined to be related to CAU 484.

4.2.3 Define Relevant Time Constraints

- The final SAFER Plan is due to the U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office by May 10, 2004.
- The FFACO deadline for the SAFER Plan is September 30, 2004.
- Fieldwork will be tentatively scheduled to begin during fiscal year 2005.

4.3 Identify Any Practical Constraints on Data Collection

1. Approval of the SAFER Plan and the DQO process by the NDEP.
2. Equipment access and mobility at the TTR.
3. Meteorological events that may impact fieldwork activities.
4. Health and safety of workers.
5. Operational/Security issues at the TTR.
6. Unforeseen conditions including unexploded ordnance and other unsafe working conditions.

5.0 DEVELOP A DECISION RULE (Step 5)

Define the parameter of interest, specify the action level, and integrate the previous DQO inputs into a single statement that describes the logical basis for choosing among alternative actions.

This step integrates outputs from the previous steps, with the inputs developed in this step into a decision rule ('If..., then...') statement. This decision rule describes the conditions under which possible alternative actions would be chosen.

5.1 Decision Rule

Decision I – If waste is present and/or contamination is present above action levels, then the horizontal and vertical extent will be determined.

Decision II – If waste or contamination is present above action levels, and it is technically feasible to clean close the site, then the site will be clean closed.

If contamination is inconsistent with the CSM or extends beyond the identified CAS boundaries, work will be suspended and the investigation strategy will be reevaluated. If contamination is consistent with the CSM and is within CAS boundaries, the decision will be to define its extent.

5.2 Specify the Action Level or Preliminary Action Level for the Decision

Sufficient process knowledge and site surveys exist to support the CSMs. Beryllium and DU are the only COPCs within CAU 484. The most recently approved preliminary remediation goal (PRG) for industrial soils will be used as the action level for beryllium (EPA, 2002). As any DU detected at the sites will likely be in the form of discrete pieces, a hot-spot cleanup approach will be used. Depleted uranium pieces detected during the surveys will be removed as localized hot-spots from which the DU and the soil immediately surrounding it will be removed for disposal. Closure will be verified using field survey methods. An approach similar to that used to characterize, remove, and verify cleanup of DU at CAU 425 will be utilized at CAU 484 (NNSA/NSO, 2003). Soil samples may be collected to confirm depleted uranium concentrations and to verify closure activities. Depleted uranium analytical results will be compared to the recently approved action level of 60 picoCuries per gram which is based on a 15 mrem per year dose limit described in Nation Council on Radiation Protection report number 129 (NCRP 1999).

6.0 SPECIFY TOLERABLE LIMITS ON DECISION ERRORS (Step 6)

Define the decision makers' tolerable decision error rates based on a consideration of the consequences of making an incorrect decision.

6.1 Decision Errors

False Negative (Rejection) Decision Error (Is waste/contamination determined not to be present when it actually is present?)

False Positive Decision Error (Is waste/contamination determined to be present when it is actually not present?)

6.2 COPC Models

Models have been developed to characterize the COPCs for CASs within CAU 484. The models contain assumptions and statistical methodologies as appropriate to achieve the investigation/closure objectives. Table 1 summarizes the COPCs expected at CAU 484.

TABLE 1 – CAU 484 WASTE AND COPC DESCRIPTION

CAS	CAS Description	Contaminants of Potential Concern		Impacted/Non-Impacted Debris	Contaminant/Waste Description
		Depleted Uranium	Beryllium		
RG-52-007-TAML	Davis Gun Penetrator Test	Unknown	N/A	Unknown	DU/inert debris on the ground surface or shallow subsurface
TA-52-001-TANL	NEDS Detonation Area	Yes	Yes	N/A	DU and beryllium dispersed on the ground surface
TA-52-004-TAAL	Metal Particle Dispersion Test	Yes	Yes	N/A	DU and beryllium dispersed on the ground surface
Ta-52-005-TAAL	Joint Test Assembly DU Sites	Yes	N/A	N/A	DU rings on the ground surface or shallow subsurface
TA-52-006-TAPL	Depleted Uranium Site (Colimbo)	Yes	Yes	Unknown*	DU and beryllium dispersed on the ground surface *An unconfirmed sealed cobalt radiological source may be present at the site
TA-54-001-TANL	Tank and Steel Structure	N/A	N/A	Yes	Debris on the ground surface

6.2.1 Beryllium Statistical Model

Statistical model applies to potential beryllium contamination within the Surface Detonation Debris CSM sites. The EPA document *Guidance for Choosing a Sampling Design for Environmental Data Collection* (EPA, 2000a) defines the methodology suggested to determine the sufficient number of samples to be collected to ensure a 95 percent confidence level in the COPC concentration. This methodology has been used to determine the number of sampling locations required at sites potentially impacted by beryllium in CAU 484. The number of samples required may be determined using the following equation:

$$n = t_{\alpha}^2(CV)^2/p^2$$

Where:

- n = number of samples
- t_{α} = statistical factor for a 95% confidence level
- CV = coefficient of variation
- p = margin of error

As the CV increases at a set margin of error, the number of samples required increases. When the variability is low relative to the mean of the data, the CV is also low. However, as the variability in the population begins to increase relative to the mean of the data, the CV will increase and the number of required samples will increase if characterization of the site at a 95% confidence level and a set margin of error is desired. The value of t_{α}^2 increases as the number of samples decreases. Therefore, t_{α}^2 is inversely proportional to the number of samples collected. The minimum number of samples required to ensure a 95-percent confidence level is also directly proportional to the coefficient of variation (CV) in the concentration of the COCs. The CV is a quantification of the amount of internal fluctuation in the concentration from sample to sample. It is an absolute measure of the amount of internal variation in the concentration data and does not, to a first approximation, depend on the number of samples collected. The margin of error may be obtained by dividing the precision wanted by the known or anticipated mean concentration of the specific COC. Upon completion of the soil sampling effort, the data obtained for the COCs is reviewed. It can then be determined if an adequate number of samples were collected with respect to the margin of error and confidence selected during the planning process. This determination is completed by calculating the CV using the data obtained during the study. The standard deviation of the concentration for a COC is divided by the mean concentration to calculate the CV. This CV may be higher or lower than the CV selected during the planning process. Using this CV value, the same equation is used to determine the required number of samples based on the actual CV for the study. If this second value for "n" is less than or equal to the number of samples collected during the study, then the site has been characterized for extent of COCs within the limits of confidence and error stated. If the second value for "n" is significantly greater, then additional sampling is necessary, or an adjustment to the margin of error or confidence level should be considered. If the collection of additional samples is deemed necessary, the data that has been generated may be used to plan for a more efficient and cost-effective re-sampling of the site. Areas of the site where higher than anticipated variabilities were obtained may be segregated from areas of lower variability (stratified design). A recalculation of the number of samples required to characterize each strata should then be completed and resampling may proceed.

Beryllium and isotopic uranium analytical data collected from CAU 529 (Area 25 Contaminated Materials) CAS 25-23-17 (Contaminated Wash) will be used to calculate an estimate of the number of samples needed for CAU 484. Soil samples for beryllium and DU analysis will be collected concurrently; therefore, the most conservative CV within the CAU 529 beryllium and DU data will be used to estimate the number of samples to be collected at the Surface Detonation Debris Sites in CAU 484. CAU 529 has been selected because contamination at this site was the result of a detonation of a test article containing similar material to that used during testing activities at the Surface Detonation Debris sites within CAU 484. Analytical data from samples collected at CAU 484 sites will be statistically analyzed and evaluated to confirm a sufficient number of samples have been collected and data meets project objectives.

Due to the nature of the event (detonation of a test article from a point source) beryllium concentrations are assumed to be normally distributed on the ground surface with the greatest concentration occurring at and near the point source and decreasing in all directions away from the point source. The sampling plan will include a combination of biased and random sample locations. Random sample locations will be selected using a grid and a random number generator. Surface and shallow subsurface soil samples will be collected to document the lateral and vertical extent of beryllium contamination. If beryllium is detected above the PRG in any sample, step-out sample locations will be established and additional samples will be collected for laboratory analysis.

6.2.2 Depleted Uranium Model

The DU model applies to sites within the Surface Detonation Debris and Surface-Shallow Subsurface Debris CSMs. Antelope, Brownes, Pedro and NEDS Lake beds will be surveyed using geophysical and radiological equipment with a coverage exceeding 90 percent of the study area.

6.2.2.1 Surface Detonation Debris

Due to the nature of the event (detonation of a test article from a point source) DU debris is assumed to be normally distributed as discrete pieces on the ground surface, with the greatest concentration occurring at and near the point source of detonation and decreasing in all directions away from the point source. Conditions similar to those encountered at CAU 529 CAS 25-23-17 (Contaminated Wash) are expected at sites within the surface detonation debris CSM. The source of contamination is similar in that events at all locations are related to the detonation of a test article containing uranium and beryllium. Uranium detected during the investigation of CAU 529 CAS 25-23-17 (Contaminated Wash) consisted of discrete pieces as is expected at the sites within CAU 484. Locations containing DU within this CSM will be identified and verified using field survey methods. While field screening will be the primary tool for confirming removal of depleted uranium, soil samples may be collected to verify depleted uranium concentrations and closure objectives. Soil sampling will be based on the methods described for the beryllium statistical model. Cleanup of DU will be based on the approach discussed in Section 5.2.

6.2.2.2 Surface-Shallow Subsurface Debris

Depleted uranium at sites within this CSM may contain debris and/or intact test articles on the ground surface or shallow subsurface. Depleted uranium present at these sites is assumed to consist of discrete pieces and may only have impacted the soil/media in contact with the DU. Locations containing DU within this CSM will be identified and verified using field survey methods. Cleanup will be based on the approach discussed in section 5.2.

6.3 Confirmation of Corrective Actions

Sites selected for clean closure will require the collection of data to support and verify that corrective actions are complete. Beryllium analytical data collected during the CAI will be used as input to the equation presented in Section 6.2.1 to determine the minimum number of samples required to verify the closure objectives. Beryllium verification sample results will be compared to the most current PRG at the time of the cleanup. As any DU detected is assumed to be discrete pieces, the pieces and associated soil will be removed and clean closure of sites

impacted with DU will be verified using field-survey methods (similar to DU cleanup completed at CAU 425 [NNSA/NSO, 2003]).

7.0 OPTIMIZE THE DESIGN (Step 7)

Evaluate information from the previous steps and generate alternative data collection designs. Choose the most resource-effective design that meets all DQOs. This section presents an overview of the resource-effective strategy planned to obtain the data required to meet the project DQOs developed in previous steps. As additional data or information is obtained, this step will be reevaluated and refined, if necessary, to reduce uncertainty and increase the confidence that the SAFER CAI has met its intended goals.

7.1 Develop General Sampling and Analysis Design Alternatives

Assumptions for the beryllium statistical model are presented in Section 6.2.1. Data collected during the investigation of a similar corrective action site will be used to make an estimation of the number of samples that need to be collected at sites within the surface detonation debris conceptual site model. This is necessary since no analytical data are available from the sites within CAU 484 on which to make a determination. After the CAU 484 CAI is complete, the beryllium and/or depleted uranium data will be analyzed to confirm that sufficient samples were collected to characterize the site at the 95-percent confidence level.

A combination of biased and random samples will be collected to verify the horizontal and vertical extent of potential beryllium contamination for sites within the Surface Detonation Debris CSM. One sample will be collected from the central area of the detonation and one sample will be collected from four locations some distance from the central area of the detonation. Additional random samples will be collected as indicated by the output from the equation presented in section 6.2.1. Additional samples may be collected as needed to fill data gaps and to provide data needed to complete the investigation/closure.

Areas on the dry lake beds containing DU will be initially surveyed with a coverage exceeding 90 percent using the Kiwi equipment. This phase of the CAI will be to confirm the locations of CASs within the CAU. Sites identified during this phase to be associated with CAU 484 will be further investigated using field screening methodologies.

7.2 CAU 484 Closure Decision Process

Hold/decision points have been included in the process to allow critical data to be reviewed by the parties prior to proceeding with the closure activities. A primary hold point for the CAU 484 closure activities will be the review of geophysical and radiological survey data and the selection of locations representing sites belonging to CAU 484. Due to the broadness of the initial surveys and the historical activities that have been conducted on the dry lake beds at TTR, there is a potential for identifying sites containing waste and/or contamination that are not associated with CAU 484. Only sites determined to be associated with CAU 484 will be addressed within the corrective actions described in these data quality objectives.

FIGURE 1
SURFACE - SUBSURFACE DEBRIS CONCEPTUAL SITE MODEL

FIGURE 2
SURFACE DETONATION DEBRIS CONCEPTUAL SITE MODEL

FIGURE 3
NON-IMPACTED SURFACE DEBRIS CONCEPTUAL SITE MODEL

REFERENCES

EPA, see U.S. Environmental Protection Agency.

NCRP, see National Council on Radiation Protection and Measurements.

NDEP, see Nevada Division of Environmental Protection.

NNSA/NSO, see U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office

National Council on Radiation Protection and Measurements. 1999. Recommended Screening Limits for contaminated Surface Soil and Review of Factors Relevant to Site-Specific Studies. NCRP Report No. 129. National Council on Radiation Protection and Measurement, Bethesda, MD.

Nevada Division of Environmental Protection. 1999. Letter to Runore Wycoff, U.S. Department of Energy Nevada Operations Office. Notice of Completion for Corrective Action Unit 495, Unconfirmed Joint Test Assembly (JTA) Sites, TTR. July 14. Carson City, NV.

U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office. 2003. Closure Report for Corrective Action Unit 425: Area 9 Main Lake Construction Debris Disposal Area, Tonopah Test Range, Nevada, DOE/NV--875. Las Vegas, NV.

U.S. Environmental Protection Agency. 2000a. Guidance for Choosing a Sampling Design for Environmental Data Collection (EPA QA/G-5), Office of Environmental Information, Washington, D.C.

U.S. Environmental Protection Agency. 2000b. Guidance for the Data Quality Objective Process, EPA QA/G-4, Washington, D.C.

U.S. Environmental Protection Agency. 2002. Region IX Preliminary Remediation Goals (PRGs), San Francisco, CA.

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APPENDIX B

SAMPLE ANALYTICAL RESULTS

Analytical laboratory summary reports are provided for the following sample analytical results:

Investigation (Geoprobe[®]) soil sample analytical results for:

- a. Pedro Lake, Background
- b. CAS TA-52-001-TANL, NEDS Detonation Area
- c. CAS TA-52-006-TAPL, Depleted Uranium Site
- d. CAS TA-52-004-TAAL, Metal Particle Dispersion Test

This appendix contains the analytical data summary reports, and not the complete data analytical packages. Page numbers reflect the location of the summary report within the complete package and not their location within this report (i.e., whatever page numbers are shown on the pages within Appendix B do not apply to their location within the appendix).

**INVESTIGATION (GEOPROBE®)
SOIL SAMPLE ANALYTICAL RESULTS**

PEDRO LAKE

Chemical Data

1
INORGANIC ANALYSES DATA SHEET

01A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

Comments:

PDRO-01A

1
INORGANIC ANALYSES DATA SHEET

01B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

PDRO-01B

1

INORGANIC ANALYSES DATA SHEET

02A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

PDRO-02A

1

INORGANIC ANALYSES DATA SHEET

02B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

PDRO-02B

1
INORGANIC ANALYSES DATA SHEET

03A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: PDRO SAS No.: SDG No.: V2734
Matrix (soil/water): SOIL Lab Sample ID: 0608L795-005
Level (low/med): LOW Date Received: 08/24/06
% Solids: 96.6

[illegible]

VALIDATION
QUALIFIER

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

PDRO-03A

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

03B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: PDRO SAS No.: SDG No.: V2734
Matrix (soil/water): SOIL Lab Sample ID: 0608L795-006
Level (low/med): LOW Date Received: 08/24/06
% Solids: 94.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

٢١

 R

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
PDRO-03B

1
INORGANIC ANALYSES DATA SHEET

04A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

丁

 $\mathcal{R}$

Comments:
PDRO-04A

1
INORGANIC ANALYSES DATA SHEET

04B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

Comments:

PDRO-04B

1
INORGANIC ANALYSES DATA SHEET

05A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

J
R

Comments:

PDRO-05A

1
INORGANIC ANALYSES DATA SHEET

05B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
EVALUATOR

丁
R

Comments:

PDRO-05B

1
INORGANIC ANALYSES DATA SHEET

06A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

J
R

Comments:

PDRO-06A

1
INORGANIC ANALYSES DATA SHEET

06B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

$$\begin{matrix} J \\ R \end{matrix}$$

PDRO-06B

1
INORGANIC ANALYSES DATA SHEET

07A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: PDRO SAS No.: SDG No.: V2734
Matrix (soil/water): SOIL Lab Sample ID: 0608L795-013
Level (low/med): LOW Date Received: 08/24/06
% Solids: 95.0

[illegible]

VALIDATION
QUALIFIER

R

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
PDRO-07A

1
INORGANIC ANALYSES DATA SHEET

08A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

R

Comments:

PDRO-08A

1
INORGANIC ANALYSES DATA SHEET

09A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

R

Comments:
PDRO-09A

1
INORGANIC ANALYSES DATA SHEET

09B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

12

Comments:
PDRO-09B

1
INORGANIC ANALYSES DATA SHEET

10A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VACIDATION
QUALIFIER

Comments:

PDRO-10A

INORGANIC ANALYSES DATA SHEET

10B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

R

Comments:

PDRO-10B

Custody Transfer Record/Lab Work Request

Page 1 of 2

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

06081795

A 1

Client NSITEC VA734
 Est. Final Proj. Sampling Date 7/7/2009
 Project # 160052-001-001-0001-00
 Project Contact/Phone # _____
 Lionville Laboratory Project Manager
OC Salsky del CID TR 114days

Date Rec'd 8-24-09 Date Due 9-7-09

MATRIX CODES:	Lab ID	Client ID/Description	Matrix OC Chosen (✓)		Matrix Collected	Date Collected	Time Collected	Lionville Laboratory Use Only									
			MS	MSD				1	2	3	4	5	6	7	8	9	10
S - Soil																	
SE - Sediment																	
SO - Solid																	
SL - Sludge																	
W - Water																	
O - Oil																	
A - Air																	
DS - Drum																	
DL - Solids																	
LL - Liquids																	
L - PF/OIL																	
WL - Waste																	
X - Other																	
F - Fish																	
	001	FDR0-01A	✓	✓	5	8/26/09	10:03										
	002	- 01B															
	003	- 02A															
	004	- 03B															
	005	- 03A															
	006	- 03B															
	007	- 04A															
	008	- 04B															
	009	- 05A															
	010	- 05B															

Special Instructions:

DATE/REVISIONS:
 8/25/09, Client Name revised, per US

1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____

Relinquished by	Received by	Date	Time
		8/24/09	0740

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAU 484	IRN Orig: B502	Send Report to: Mike Krutze	Phone: 255-7396	Fax: 295-6671	MS: NTS306	Sampling Site: CAU 484 Pedro	The samples submitted contain (check):				
Charge Number: 511A1225						() Hazardous - (list)	() Radioactive - (list)	() Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			
Project Manager: Jeffrey Smith			Turnaround: () Standard - 14 days HI, 28 days Non-rad Env, 45 days Rad Env () RUSH Preliminary by: () (H)								
Phone: 295-7775	Fax: 295-7767	MS: NTS306									
SAMPLE MANAGEMENT INFORMATION											
SDG: 22745 (III) <u>V2734</u> (Non-Rad Env) (Rad Env)											
Samples submitted are associated with a signed Project SOW: ☒ YES () NO											
Analyses entered here agree with the SOW: ☒ YES () NO () N/A											
If not, identify the variation: _____											
Subcontract Lab(s) used for this work: <u>LIQUILLUE</u>											
ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	QC MS	MSD	Pres - Analysis eg: HCl - VOCs	Pay Item, Analysis, Method	
PDR0-01A	8/15/06	10:05am	Soil	1	125 ml		X	X	Cool 4C	X	ICP Metals
PDR0-01B	8/15/06	10:05am	Soil	1	125 ml				Cool 4C	X	
PDR0-02A	8/15/06	10:27am	Soil	1	125 ml				Cool 4C	X	
PDR0-02B	8/15/06	10:27am	Soil	1	125 ml				Cool 4C	X	
PDR0-03A	8/15/06	10:48am	Soil	1	125 ml				Cool 4C	X	
PDR0-03B	8/15/06	10:48am	Soil	1	125 ml				Cool 4C	X	
PDR0-04A	8/15/06	11:02am	Soil	1	125 ml				Cool 4C	X	
PDR0-04B	8/15/06	11:02am	Soil	1	125 ml				Cool 4C	X	
PDR0-05A	8/15/06	11:24am	Soil	1	125 ml				Cool 4C	X	
PDR0-05B	8/15/06	11:24am	Soil	1	125 ml				Cool 4C	X	
CUSTODY TRANSFER											
Sampled/Retrieved (print)		Signature	DATE / TIME	Received by (print)		Signature		DATE / TIME			
Y			08/23/06 07:34	C. A. CASTAÑO				08/23/06 07:34			
Felix			8/24/06 10:40	D. Smith				791532052548		8/24/06 13:00	
										8/24/06 10:40	

1
INORGANIC ANALYSES DATA SHEET

11A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Comments:
PDRO-11A _____

1
INORGANIC ANALYSES DATA SHEET

11B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

Comments:
PDRO-11B

1

INORGANIC ANALYSES DATA SHEET

12A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

5

R

Comments:
PDRO-12A

1
INORGANIC ANALYSES DATA SHEET

12B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Color Before: _____ Clarity Before: _____ Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____
 Comments: _____
 PDRO-12B _____

1

INORGANIC ANALYSES DATA SHEET

13A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	
Lab Code: LVLI	Case No.: PDRO	SAS No.: SDG No.: 11A
Matrix (soil/water): SOIL		Lab Sample ID: 0608L796-005
Level (low/med): LOW		Date Received: 08/24/06
% Solids: 92.2		

[illegible]

VALIDATION
QUALIFIER

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

PDRO-13A

1
INORGANIC ANALYSES DATA SHEET

13B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

Comments:
PDRO-13B

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

14A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: PDRO SAS No.: SDG No.: 11A
Matrix (soil/water): SOIL Lab Sample ID: 0608L796-007
Level (low/med): LOW Date Received: 08/24/06
% Solids: 86.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

5

 R

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
PDRO-14A

1
INORGANIC ANALYSES DATA SHEET

14B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

Comments:

PDRO-14B

1
INORGANIC ANALYSES DATA SHEET

15A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

١٧

R

Comments:
PDRO-15A _____

1
INORGANIC ANALYSES DATA SHEET

15B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

Comments:
PDRO-15B

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

11/5/2014

Client	NSTEC Nevada	NAT34
Est. Final Proj. Sampling Date	07/18/11	
Project #	60652-001-001-001-00	
Project Contact/Phone #		
Lionville Laboratory Project Manager	Judith Allen	
OC SUGAR Del CLO TAT	14 days	
Date Rec'd	8-24-11	Date Due
	9-7-11	

Lab ID	Client ID/Description	Matrix OC Chosen (✓)	MS	MSO	Matrix Collected	Date Collected	Time Collected	ANALYSES REQUESTED				ORGANIC				INORG	
								#Type Container	Liquid Solid	Volume	Liquid Solid	Preservatives	VOA	BNA	Pest PCB	Herb	Metal
001	PDRG-11A		S	8:55	2:00	X	X										
002	-11B				1	X	X										
003	-13A				2:11	X	X										
004	-13B				1	X	X										
005	-13A				3:37	X	X										
006	-13B				1	X	X										
007	-14A				2:55	X	X										
008	-14B				1	X	X										
009	-15A				3:09	X	X										
010	-15B				1	X	X										

BE, LI
Na, TL, U

Metals
9.9

Special Instructions:

DATE/REVISIONS:

DATE/REVISIONS: 8/25/06
Client Name: Revised Per JS

[illegible]

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAL 484		HR Order: 0302		Send Report to: Mike Kuzar		Phone: 295-7306		Fax: 295-0671		MS: NTS306	
Change Number: SHIA-273				Turnaround: () Standard - 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env) () Rush Preliminary by: () (H)						Sampling Site: CAL 484 Pedro The samples submitted contain (check): () Hazardous - (list) () Radioactive - (list) () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.	
Project Manager: Jeffrey Smith											
Tel: 295-2775		Fax: 295-7761		MS: NTS306							
SAMPLE MANAGEMENT INFORMATION											
Site: <u>V2743</u> (H) <u>V 2734</u> (Non-Rad Env) (Rad Env) Samples submitted are associated with a signed Project SOW. (X) YES () NO Analyses entered here agree with the SOW. (X) YES () NO () N/A If not, identify the variation: <u>LIC NV 1111</u> Subcontract Lab(s) used for this work: <u>LIC NV 1111</u>											
ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC MD	MS	MSD	Pres - Analysis eg. HCl - VOCs	Pay Item, Analysis, Method	
PDR0-11A	8/15/06	2:00pm	Soil	1	125 ml				Cool 4C	X	
PDR0-11B	8/15/06	2:00pm	Soil	1	125 ml				Cool 4C	X	
PDR0-12A	8/15/06	2:11pm	Soil	1	125 ml				Cool 4C	X	
PDR0-12B	8/15/06	2:11pm	Soil	1	125 ml				Cool 4C	X	
PDR0-13A	8/15/06	2:37pm	Soil	1	125 ml				Cool 4C	X	
PDR0-13B	8/15/06	2:37pm	Soil	1	125 ml				Cool 4C	X	
PDR0-14A	8/15/06	2:56pm	Soil	1	125 ml				Cool 4C	X	
PDR0-14B	8/15/06	2:56pm	Soil	1	125 ml				Cool 4C	X	
PDR0-15A	8/15/06	3:04pm	Soil	1	125 ml				Cool 4C	X	
PDR0-15B	8/15/06	3:04pm	Soil	1	125 ml				Cool 4C	X	
CUSTODY TRANSFER											
Imprec/Refriminished (print)		Signature		DATE/TIME		Received by (print)		Signature		DATE/TIME	
J. A. Smith		8/23/06 07:41		J. A. Smith		8/23/06 07:41		J. A. Smith		8/23/06 07:41	
J. A. Smith		8/24/06 10:10		J. A. Smith		8/24/06 10:10		J. A. Smith		8/24/06 10:10	

1
INORGANIC ANALYSES DATA SHEET

16A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

16B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

PDRO-16B

1
INORGANIC ANALYSES DATA SHEET

17A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

PDRO-17A

1
INORGANIC ANALYSES DATA SHEET

17B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
PDRO-17B

1
INORGANIC ANALYSES DATA SHEET

18A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

R

PDRO-18A

1
INORGANIC ANALYSES DATA SHEET

18B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

19A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

19B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: PDRO SAS No.: SDG No.: V2734
Matrix (soil/water): SOIL Lab Sample ID: 0608L797-008
Level (low/med): LOW Date Received: 08/24/06
% Solids: 88.8

[illegible]

VALIDATION
QUALIFIER

 $\mathcal{R}$

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
PDRO-19B

1

INORGANIC ANALYSES DATA SHEET

20A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

R

Comments:

PDRO-20A

1
INORGANIC ANALYSES DATA SHEET

20B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

R

Comments:

PDRO-20B

1
INORGANIC ANALYSES DATA SHEET

21A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIED

R

Comments:
PDRO-21A

1
INORGANIC ANALYSES DATA SHEET

21B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

R

Comments:
PDRO-21B

1
INORGANIC ANALYSES DATA SHEET

R1

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

[illegible]

VALIDATION
QUALIFIER

R

Comments:
PDRO-R1

Custody Transfer Record/Lab Work Request

Page 1 of 2

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

06081797

Client <u>ASTEC</u>		Est. Final Proj. Sampling Date <u>12/31/14</u>	
Project # <u>16052-001-001-001-00</u>		Project Contact/Phone # <u></u>	
Lionville Laboratory Project Manager <u>TAT</u>		Date Rec'd <u>8-24-14</u> Date Due <u>9-7-14</u>	
OC <u>Subs</u> Del <u>CAD</u> TAT <u>14 days</u>		Refrigerator # <u></u>	
# Type Container	Liquid Solid	ANALYSES REQUESTED <u>→</u>	
Volume	Liquid Solid	Preservatives <u></u>	
ORGANIC		Metal 1-2	
VOA	BNA	Pest/PCB	Herb
Metal 1-2		Metal 3-9	
Metal 4-10		Metal 11-12	

MATRIX CODES:	Lab ID	Client ID/Description	Matrix OC Chosen (/)	Matrix	Date Collected	Time Collected	Lionville Laboratory Use Only
S - Soil							
SE - Sediment							
SO - Solid							
SL - Sludge							
W - Water							
O - Oil							
A - Air							
DS - Drums							
DL - Drums							
L - Liquids							
EP - EPTOL							
VI - Wipe							
X - Other							
F - Fish							
	001	PDRO-16A		S	8/24/14	3:18	X
	002	-16B				1	X
	003	-17A				3:28	X
	004	-17B				1	X
	005	-18A			8/24/14	8:55	X
	006	-18B				1	X
	007	-19A				9:07	X
	008	-19B				1	X
	009	-20A				9:15	X
	010	-20B				1	X

Special Instructions:

DATE/REVISIONS:

8/25/14. Client Name: Amtrak, per US

Relinquished by	Received by	Date	Time
<u>8/24/14</u>	<u>0940</u>		

PROJECT / CLIENT INFORMATION

Project: CAU 484
Charge Number: 501A1225
Project Manager: Jeffrey Smith
Phone: 295-7396
Fax: 295-7751
M/S: NTS306

REPORT & TURNAROUND INFORMATION

Send Report to: Mike Knize

Turnaround: () Standard - 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env)
() RUSH Preliminary by: (H)

1 2 7 14 28 (Radiological Env)

SAMPLE INFORMATION

Sampling Site: CAU 484 Pcdm

The samples submitted contain (check):

() Hazardous - (fast)

() Radioactive - (fast)

() Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

SAMPLE MANAGEMENT INFORMATION

SI: V2742 (H) V2734 (Non-Rad Env) (Rad Env)

Samples submitted are associated with a signed Project SOW. () YES () NO

Analyses entered here agree with the SOW. () YES () NO () N/A

If not, identify the variation:

Subcontract Lab(s) used for this work:

LICAVILLE

DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Exc. Vol	MS	MSD	eg. HCT - VOCs	Pres - Analysis	Pay Item, Analysis, Method
PDR0-16A	8/15/06	3:18pm	Soil	1	125 ml				Cool 4C	X
PDR0-16B	8/15/06	3:18pm	Soil	1	125 ml				Cool 4C	X
PDR0-17A	8/15/06	3:28pm	Soil	1	125 ml				Cool 4C	X
PDR0-17B	8/15/06	3:28pm	Soil	1	125 ml				Cool 4C	X
PDR0-18A	8/16/06	8:55am	Soil	1	125 ml				Cool 4C	X
PDR0-18B	8/16/06	8:55am	Soil	1	125 ml				Cool 4C	X
PDR0-19A	8/16/06	4:22am	Soil	1	125 ml				Cool 4C	X
PDR0-19B	8/16/06	4:22am	Soil	1	125 ml				Cool 4C	X
PDR0-20A	8/16/06	6:15am	Soil	1	125 ml				Cool 4C	X
PDR0-20B	8/16/06	6:15am	Soil	1	125 ml				Cool 4C	X

CUSTODY TRANSFER

Sampled/Reduced (gram)

Signature

DATE / TIME

Received by (gram)

Signature

DATE / TIME

Bea McGee

08/23/06 07:41

C.D. (ASTAR) A

79,533,205 3548

8/23/06 07:41

JACASTAR

8/23/06 07:41

D. Smith

8/23/06 07:41

8/23/06 07:41

PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION
Project CMT: 484	BIS Order: H502	Send Report to: Mike Krutic		Sampling Site: CMT 484 Pedro
Charge Number: SH1A1275	Phone: 295-7396	Fax: 295-6671	M/S: NT5306	(The samples submitted contain (check):)
Project Manager: Jeffrey Smith	Turnaround:			() Hazardous - (Yes) _____
	☐ Standard 14 days (H, 28 days Non-rad Env, 45 days Rad Env ☐ RUSH Preliminary by _____ (H) ☐ 1 2 7 14 X 14 (our-Rad Env) ☐ 1 7 14 28 (Full Biological Env)			() Radioactive - (Yes) _____
Phone: 295-7775	Fax: 295-7761	M/S: NT5306		() Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

SAMPLE MANAGEMENT INFORMATION

Site: V2743 (III) V2734 (Non-Rad Env) _____ (Rad Env)

Samples submitted are associated with a signed Project SOW. (X) YES () NO

Analyses entered here agree with the SOW. (X) YES () NO () N/A

If not, identify the variation: _____

Subcontract Lab(s) used for this work: LichenVilce

	Pay Item, Analysis, Method			
<i>p metals</i>	<i>9.9</i>	<i>4.10</i>		
<i>p metals</i>	<i>4.30</i>	<i>9.9</i>		

ID/DESCRIPTION	SAMPLING		MATRIX	CONTAINER #	Est. Vol	MID	QC		Pres - Analysis eg: HCl - VOC's	10	11								
	DATE	TIME					MIS	MISD											
PDRO-21A	8/15/06	3:28pm	Soil	1	125 ml		✓	✓	Cool 4C	X		X							
PDRO-21B	8/15/06	3:28pm	Soil	1	125 ml				Cool 4C	X		X							
PDRO-22A	8/15/06	3:28pm	Soil	1	125 ml				Cool 4C	X									
PDRO-22B	8/15/06	3:28pm	Soil	1	125 ml				Cool 4C	X									
PDRO-R1	8/16/06	4:50pm	Water	1	1 L				Cool 4C		X		X						

<u>CL STUDY TRANSFER</u>							
Sampled/Requisitioned (prim)	Signature	DATE / TIME	Received by (prim)	Signature	DATE / TIME		
BEN MCGEE	[Signature]	08/23/06 07:41	C.O. CASTRO	[Signature]	08/23/06 07:41		
7033ASTMACH	[Signature]	8/23/2006 5:02	Edith E. #79153205326	[Signature]	8/23/2006 5:02		
	[Signature]	8:24a / 0940	D Smith	[Signature]	8:24a / 0940		

Requisition Code: ENV-5 (11) RN-0739

**INVESTIGATION (GEOPROBE[®])
SOIL SAMPLE ANALYTICAL RESULTS**

PEDRO LAKE

Radiological Data

Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC
 Client Project Name: CAU 484
 Client Project Number: V2735

Laboratory Name: Paragon Analytics
 PAI Work Order: 0608181

Page: 1 of 15
 Reported on: Wednesday, September 20, 2006
 10:11:26 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-1	PDRO-01A	Sample	U-233/234	8.52E-01 +/- 1.53E-01	1.13E-02	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-1	PDRO-01A	Sample	U-235	2.92E-02 +/- 1.33E-02	8.34E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-1	PDRO-01A	Sample	U-238	8.20E-01 +/- 1.47E-01	1.02E-02	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-2	PDRO-01B	Sample	U-233/234	8.83E-01 +/- 1.56E-01	1.50E-02	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-2	PDRO-01B	Sample	U-235	5.28E-02 +/- 1.78E-02	7.43E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-2	PDRO-01B	Sample	U-238	9.10E-01 +/- 1.60E-01	1.25E-02	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-3	PDRO-02A	Sample	U-233/234	1.31E+00 +/- 2.23E-01	9.53E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-3	PDRO-02A	Sample	U-235	7.61E-02 +/- 2.18E-02	2.86E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-3	PDRO-02A	Sample	U-238	1.22E+00 +/- 2.08E-01	7.45E-03	pCi/g	SOIL	AS060901-1	9/9/2006	

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
 LT - Result is less than Requested MDC, greater than sample specific MDC
 Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
 Y2 - Chemical Yield outside default limits.
 M - The requested MDC was not met.
 M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
 MDC - Minimum Detectable Concentration (see PAI SOP 709)
 BDL - Below Detection Limit

Date Printed: Wednesday, September 20, 2006

Paragon Analytics
 LIMS Version: 5.422A

Page 1 of 15

000004

Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2735

Laboratory Name: Paragon Analytics

PAI Work Order: 0608181

Page: 2 of 15

Reported on: Wednesday, September 20, 2006
10:11:26 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-4	PDRO-02B	Sample	U-233/234	1.07E+00 +/- 1.84E-01	5.79E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-4	PDRO-02B	Sample	U-235	4.92E-02 +/- 1.63E-02	2.78E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-4	PDRO-02B	Sample	U-238	9.63E-01 +/- 1.66E-01	5.79E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-5	PDRO-03A	Sample	U-233/234	9.47E-01 +/- 1.62E-01	8.02E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-5	PDRO-03A	Sample	U-235	3.88E-02 +/- 1.40E-02	6.58E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-5	PDRO-03A	Sample	U-238	8.91E-01 +/- 1.54E-01	8.90E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-6	PDRO-03B	Sample	U-233/234	8.23E-01 +/- 1.43E-01	2.34E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-6	PDRO-03B	Sample	U-235	3.48E-02 +/- 1.33E-02	6.75E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-6	PDRO-03B	Sample	U-238	7.84E-01 +/- 1.37E-01	7.15E-03	pCi/g	SOIL	AS060901-1	9/9/2006	

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Wednesday, September 20, 2006

Paragon Analytics

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC
 Client Project Name: CAU 484
 Client Project Number: V2735

Laboratory Name: Paragon Analytics
 PAI Work Order: 0608181

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Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-7	PDRO-04A	Sample	U-233/234	1.28E+00 +/- 2.18E-01	1.49E-02	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-7	PDRO-04A	Sample	U-235	4.42E-02 +/- 1.58E-02	9.86E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-7	PDRO-04A	Sample	U-238	1.17E+00 +/- 2.00E-01	7.28E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-8	PDRO-04B	Sample	U-233/234	1.01E+00 +/- 1.73E-01	9.13E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-8	PDRO-04B	Sample	U-235	4.99E-02 +/- 1.65E-02	6.75E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-8	PDRO-04B	Sample	U-238	1.05E+00 +/- 1.80E-01	5.73E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-9	PDRO-05A	Sample	U-233/234	9.81E-01 +/- 1.68E-01	1.16E-02	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-9	PDRO-05A	Sample	U-235	5.92E-02 +/- 1.80E-02	2.67E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-9	PDRO-05A	Sample	U-238	9.55E-01 +/- 1.64E-01	8.89E-03	pCi/g	SOIL	AS060901-1	9/9/2006	

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
 LT - Result is less than Requested MDC, greater than sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
 Y2 - Chemical Yield outside default limits.
 M - The requested MDC was not met.
 M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
 MDC - Minimum Detectable Concentration (see PAI SOP 709)
 BDL - Below Detection Limit

Date Printed: Wednesday, September 20, 2006

Paragon Analytics
 LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

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Client Project Name: CAU 484

PAI Work Order: 0608181

Reported on: Wednesday, September 20, 2006

Client Project Number: V2735

10:11:26 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-10	PDRO-05B	Sample	U-233/234	1.69E+00 +/- 2.84E-01	1.28E-02	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-10	PDRO-05B	Sample	U-235	6.28E-02 +/- 1.94E-02	9.85E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-10	PDRO-05B	Sample	U-238	1.32E+00 +/- 2.24E-01	9.30E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-11	PDRO-06A	Sample	U-233/234	8.24E-01 +/- 1.42E-01	5.32E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-11	PDRO-06A	Sample	U-235	5.54E-02 +/- 1.69E-02	2.55E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-11	PDRO-06A	Sample	U-238	8.07E-01 +/- 1.39E-01	6.62E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-12	PDRO-06B	Sample	U-233/234	1.12E+00 +/- 1.91E-01	1.14E-02	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-12	PDRO-06B	Sample	U-235	7.58E-02 +/- 2.20E-02	1.17E-02	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-12	PDRO-06B	Sample	U-238	1.12E+00 +/- 1.91E-01	9.18E-03	pCi/g	SOIL	AS060901-1	9/9/2006	

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110% Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Wednesday, September 20, 2006

Paragon Analytics

LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2735

Laboratory Name: Paragon Analytics

PAI Work Order: 0608181

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Reported on: Wednesday, September 20, 2006

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Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-13	PDRO-07A	Sample	U-233/234	1.52E+00 +/- 2.59E-01	9.06E-03	pCi/g	SOIL	AS060901-1	9/11/2006	
0608181-13	PDRO-07A	Sample	U-235	6.51E-02 +/- 2.03E-02	7.43E-03	pCi/g	SOIL	AS060901-1	9/11/2006	
0608181-13	PDRO-07A	Sample	U-238	1.30E+00 +/- 2.23E-01	7.87E-03	pCi/g	SOIL	AS060901-1	9/11/2006	
0608181-14	PDRO-07B	Sample	U-233/234	8.83E-01 +/- 1.51E-01	9.01E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-14	PDRO-07B	Sample	U-235	5.16E-02 +/- 1.66E-02	9.75E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-14	PDRO-07B	Sample	U-238	8.84E-01 +/- 1.51E-01	7.46E-03	pCi/g	SOIL	AS060901-1	9/9/2006	
0608181-15	PDRO-08A	Sample	U-233/234	9.97E-01 +/- 1.79E-01	1.20E-02	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-15	PDRO-08A	Sample	U-235	6.69E-02 +/- 2.21E-02	8.85E-03	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-15	PDRO-08A	Sample	U-238	1.04E+00 +/- 1.86E-01	1.08E-02	pCi/g	SOIL	AS060901-1	9/10/2006	

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Printed: Wednesday, September 20, 2006

Paragon Analytics

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2735

Laboratory Name: Paragon Analytics

PAI Work Order: 0608181

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Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-16	PDRO-08B	Sample	U-233/234	9.90E-01 +/- 1.71E-01	1.97E-02	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-16	PDRO-08B	Sample	U-235	3.97E-02 +/- 1.50E-02	1.00E-02	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-16	PDRO-08B	Sample	U-238	7.94E-01 +/- 1.39E-01	1.41E-02	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-17	PDRO-09A	Sample	U-233/234	1.23E+00 +/- 2.07E-01	1.27E-02	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-17	PDRO-09A	Sample	U-235	6.66E-02 +/- 1.93E-02	6.30E-03	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-17	PDRO-09A	Sample	U-238	1.09E+00 +/- 1.85E-01	1.06E-02	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-18	PDRO-09B	Sample	U-233/234	9.56E-01 +/- 1.66E-01	9.64E-03	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-18	PDRO-09B	Sample	U-235	5.46E-02 +/- 1.77E-02	2.90E-03	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-18	PDRO-09B	Sample	U-238	1.01E+00 +/- 1.74E-01	7.54E-03	pCi/g	SOIL	AS060901-1	9/10/2006	

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Wednesday, September 20, 2006

Paragon Analytics

LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC
 Client Project Name: CAU 484
 Client Project Number: V2735

Laboratory Name: Paragon Analytics
 PAI Work Order: 0608181

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 Reported on: Wednesday, September 20, 2006
 10:11:27 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-19	PDRO-10A	Sample	U-233/234	1.08E+00 +/- 1.86E-01	6.07E-03	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-19	PDRO-10A	Sample	U-235	4.83E-02 +/- 1.64E-02	2.91E-03	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-19	PDRO-10A	Sample	U-238	9.52E-01 +/- 1.65E-01	6.07E-03	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-20	PDRO-10B	Sample	U-233/234	1.11E+00 +/- 1.90E-01	8.50E-03	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-20	PDRO-10B	Sample	U-235	4.85E-02 +/- 1.64E-02	6.97E-03	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-20	PDRO-10B	Sample	U-238	1.08E+00 +/- 1.85E-01	9.44E-03	pCi/g	SOIL	AS060901-1	9/10/2006	
0608181-21	PDRO-11A	Sample	U-233/234	1.18E+00 +/- 2.10E-01	1.87E-02	pCi/g	SOIL	AS060901-2	9/18/2006	
0608181-21	PDRO-11A	Sample	U-235	5.52E-02 +/- 1.95E-02	3.65E-03	pCi/g	SOIL	AS060901-2	9/18/2006	
0608181-21	PDRO-11A	Sample	U-238	1.05E+00 +/- 1.88E-01	7.61E-03	pCi/g	SOIL	AS060901-2	9/18/2006	

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
 LT - Result is less than Requested MDC, greater than sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
 Y2 - Chemical Yield outside default limits.
 M - The requested MDC was not met.
 M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
 MDC - Minimum Detectable Concentration (see PAI SOP 709)
 BDL - Below Detection Limit

Date Printed: Wednesday, September 20, 2006

Paragon Analytics
 LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC
 Client Project Name: CAU 484
 Client Project Number: V2735

Laboratory Name: Paragon Analytics
 PAI Work Order: 0608181

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 Reported on: Wednesday, September 20, 2006
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Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-22	PDRO-11B	Sample	U-233/234	1.14E+00 +/- 1.97E-01	9.87E-03	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-22	PDRO-11B	Sample	U-235	6.38E-02 +/- 1.98E-02	7.29E-03	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-22	PDRO-11B	Sample	U-238	1.05E+00 +/- 1.83E-01	6.20E-03	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-23	PDRO-12A	Sample	U-233/234	1.43E+00 +/- 2.42E-01	1.17E-02	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-23	PDRO-12A	Sample	U-235	6.73E-02 +/- 2.05E-02	1.30E-02	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-23	PDRO-12A	Sample	U-238	1.17E+00 +/- 1.99E-01	9.71E-03	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-24	PDRO-12B	Sample	U-233/234	1.05E+00 +/- 1.79E-01	1.04E-02	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-24	PDRO-12B	Sample	U-235	5.93E-02 +/- 1.85E-02	9.45E-03	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-24	PDRO-12B	Sample	U-238	1.03E+00 +/- 1.77E-01	8.93E-03	pCi/g	SOIL	AS060901-2	9/9/2006	

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
 LT - Result is less than Requested MDC, greater than sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
 Y2 - Chemical Yield outside default limits.
 M - The requested MDC was not met.
 M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
 MDC - Minimum Detectable Concentration (see PAI SOP 709)
 BDL - Below Detection Limit

Date Printed: Wednesday, September 20, 2006

Paragon Analytics
 LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC
 Client Project Name: CAU 484
 Client Project Number: V2735

Laboratory Name: Paragon Analytics
 PAI Work Order: 0608181

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 Reported on: Wednesday, September 20, 2006
 10:11:27 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-25	PDRO-13A	Sample	U-233/234	1.42E+00 +/- 2.42E-01	9.78E-03	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-25	PDRO-13A	Sample	U-235	6.58E-02 +/- 2.03E-02	9.00E-03	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-25	PDRO-13A	Sample	U-238	1.17E+00 +/- 2.03E-01	9.78E-03	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-26	PDRO-13B	Sample	U-233/234	1.28E+00 +/- 2.18E-01	8.52E-03	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-26	PDRO-13B	Sample	U-235	8.01E-02 +/- 2.26E-02	6.99E-03	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-26	PDRO-13B	Sample	U-238	1.15E+00 +/- 1.98E-01	7.40E-03	pCi/g	SOIL	AS060901-2	9/9/2006	
0608181-27	PDRO-14A	Sample	U-233/234	9.81E-01 +/- 1.69E-01	1.68E-02	pCi/g	SOIL	AS060901-2	9/10/2006	
0608181-27	PDRO-14A	Sample	U-235	4.81E-02 +/- 1.66E-02	1.15E-02	pCi/g	SOIL	AS060901-2	9/10/2006	
0608181-27	PDRO-14A	Sample	U-238	9.88E-01 +/- 1.70E-01	8.95E-03	pCi/g	SOIL	AS060901-2	9/10/2006	

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
 LT - Result is less than Requested MDC, greater than sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
 Y2 - Chemical Yield outside default limits.
 M - The requested MDC was not met.
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Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
 MDC - Minimum Detectable Concentration (see PAI SOP 709)
 BDL - Below Detection Limit

Date Printed: Wednesday, September 20, 2006

Paragon Analytics
 LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2735

Laboratory Name: Paragon Analytics

PAI Work Order: 0608181

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Reported on: Wednesday, September 20, 2006

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Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-31	PDRO-16A	Sample	U-233/234	1.11E+00 +/- 1.90E-01	1.06E-02	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-31	PDRO-16A	Sample	U-235	4.72E-02 +/- 1.62E-02	9.61E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-31	PDRO-16A	Sample	U-238	1.01E+00 +/- 1.73E-01	9.07E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-32	PDRO-16B	Sample	U-233/234	1.08E+00 +/- 1.88E-01	9.81E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-32	PDRO-16B	Sample	U-235	4.85E-02 +/- 1.69E-02	9.02E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-32	PDRO-16B	Sample	U-238	1.04E+00 +/- 1.81E-01	9.81E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-33	PDRO-17A	Sample	U-233/234	1.41E+00 +/- 2.40E-01	8.86E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-33	PDRO-17A	Sample	U-235	6.47E-02 +/- 2.00E-02	7.26E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-33	PDRO-17A	Sample	U-238	1.16E+00 +/- 1.99E-01	7.69E-03	pCi/g	SOIL	AS060901-3	9/12/2006	

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

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BDL - Below Detection Limit

Date Printed: Wednesday, September 20, 2006

Paragon Analytics

LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2735

Laboratory Name: Paragon Analytics

PAI Work Order: 0608181

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Reported on: Wednesday, September 20, 2006

10:11:27 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-34	PDRO-17B	Sample	U-233/234	1.20E+00 +/- 2.14E-01	1.24E-02	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-34	PDRO-17B	Sample	U-235	6.08E-02 +/- 2.11E-02	9.13E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-34	PDRO-17B	Sample	U-238	1.11E+00 +/- 1.99E-01	1.11E-02	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-35	PDRO-18A	Sample	U-233/234	1.40E+00 +/- 2.38E-01	1.94E-02	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-35	PDRO-18A	Sample	U-235	5.38E-02 +/- 1.77E-02	9.90E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-35	PDRO-18A	Sample	U-238	1.20E+00 +/- 2.05E-01	1.39E-02	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-36	PDRO-18B	Sample	U-233/234	1.15E+00 +/- 1.97E-01	1.36E-02	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-36	PDRO-18B	Sample	U-235	5.08E-02 +/- 1.67E-02	6.72E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-36	PDRO-18B	Sample	U-238	1.09E+00 +/- 1.87E-01	1.13E-02	pCi/g	SOIL	AS060901-3	9/12/2006	

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Wednesday, September 20, 2006

Paragon Analytics

LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC
 Client Project Name: CAU 484
 Client Project Number: V2735

Laboratory Name: Paragon Analytics
 PAI Work Order: 0608181

Page: 13 of 15
 Reported on: Wednesday, September 20, 2006
 10:11:27 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-37	PDRO-19A	Sample	U-233/234	1.41E+00 +/- 2.47E-01	1.20E-02	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-37	PDRO-19A	Sample	U-235	7.05E-02 +/- 2.26E-02	3.61E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-37	PDRO-19A	Sample	U-238	1.25E+00 +/- 2.21E-01	9.37E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-38	PDRO-19B	Sample	U-233/234	1.31E+00 +/- 2.23E-01	6.00E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-38	PDRO-19B	Sample	U-235	5.41E-02 +/- 1.75E-02	2.87E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-38	PDRO-19B	Sample	U-238	1.22E+00 +/- 2.08E-01	6.00E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-39	PDRO-20A	Sample	U-233/234	1.37E+00 +/- 2.33E-01	8.48E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-39	PDRO-20A	Sample	U-235	7.45E-02 +/- 2.15E-02	6.95E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-39	PDRO-20A	Sample	U-238	1.19E+00 +/- 2.03E-01	9.42E-03	pCi/g	SOIL	AS060901-3	9/12/2006	

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty (see PAI SOP 743)
- MDC - Minimum Detectable Concentration (see PAI SOP 709)
- BDL - Below Detection Limit

Date Printed: Wednesday, September 20, 2006

Paragon Analytics
 LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC
 Client Project Name: CAU 484
 Client Project Number: V2735

Laboratory Name: Paragon Analytics
 PAI Work Order: 0608181

Page: 14 of 15
 Reported on: Wednesday, September 20, 2006
 10:11:27 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-40	PDRO-20B	Sample	U-233/234	1.22E+00 +/- 2.08E-01	2.48E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-40	PDRO-20B	Sample	U-235	7.35E-02 +/- 2.16E-02	7.17E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-40	PDRO-20B	Sample	U-238	1.14E+00 +/- 1.96E-01	7.59E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-41	PDRO-21A	Sample	U-233/234	1.45E+00 +/- 2.48E-01	1.58E-02	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-41	PDRO-21A	Sample	U-235	7.33E-02 +/- 2.20E-02	1.05E-02	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-41	PDRO-21A	Sample	U-238	1.22E+00 +/- 2.10E-01	7.73E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-42	PDRO-21B	Sample	U-233/234	1.21E+00 +/- 2.07E-01	9.25E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-42	PDRO-21B	Sample	U-235	4.86E-02 +/- 1.63E-02	6.83E-03	pCi/g	SOIL	AS060901-3	9/12/2006	
0608181-42	PDRO-21B	Sample	U-238	1.15E+00 +/- 1.96E-01	5.81E-03	pCi/g	SOIL	AS060901-3	9/12/2006	

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
 LT - Result is less than Requested MDC, greater than sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
 Y2 - Chemical Yield outside default limits.
 M - The requested MDC was not met.
 M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
 MDC - Minimum Detectable Concentration (see PAI SOP 709)
 BDL - Below Detection Limit

Date Printed: Wednesday, September 20, 2006

Paragon Analytics
 LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

Page: 15 of 15

Client Project Name: CAU 484

PAI Work Order: 0608181

Reported on: Wednesday, September 20, 2006

Client Project Number: V2735

10:11:27 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0608181-43	PDRO-R1	Sample	U-233/234	2.95E-02 +/- 2.67E-02	3.86E-02	pCi/l	WATER	AS060828-4	8/30/2006	U
0608181-43	PDRO-R1	Sample	U-235	1.20E-03 +/- 1.83E-02	2.85E-02	pCi/l	WATER	AS060828-4	8/30/2006	U
0608181-43	PDRO-R1	Sample	U-238	1.03E-02 +/- 1.87E-02	3.47E-02	pCi/l	WATER	AS060828-4	8/30/2006	U

Comments:

Data Package ID: UR0608181-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Wednesday, September 20, 2006

Paragon Analytics

LIMS Version: 5.422A

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PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION	
Project: CAU 484	BN Order: B502	Send Report to: Mike Krue	Sampling Site: CAU 484 Pedro	The samples submitted contain (check): ☐ () Hazardous - (list) _____ ☐ () Radioactive - (list) _____ ☐ () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.	
Charge Number: 581A1225	Phone: 295-7396	Phone: 295-6671	Turnaround: () Standard - 14 days H/L, 28 days Non-rad Env., 45 days Rad Env.		
Project Manager: Jeffrey Smith	Phone: 295-7775	MS: NTS306	() RUSH Preliminary by: _____ (H)		
	Fax: 295-7761	MS: NTS306	1 - 2 - 7 - 14 - 28 (Non-Rad Env.) 1 - 7 - 14 - 28 (Radiochemical Env.)		

SAMPLE MANAGEMENT INFORMATION

SDC: V2734 (IH) V2735 (Non-Rad Env.) V2735 (Rad Env.)

Subcontract Lab(s) used for this work: PARAGON

Analyses entered here agree with the SOW. ☒ YES () NO () N/A

If not, identify the variation: _____

ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC	MSD	Pres - Analysis	Pay Item, Analysis, Method
PIDRO-01A	8/15/06	10:03am	Soil	1	125 ml	X	X	Cool 4C	1
PIDRO-01B	8/15/06	10:03am	Soil	1	125 ml			Cool 4C	2
PIDRO-02A	8/15/06	10:22am	Soil	1	125 ml			Cool 4C	3
PIDRO-02B	8/15/06	10:22am	Soil	1	125 ml			Cool 4C	4
PIDRO-03A	8/15/06	10:48am	Soil	1	125 ml			Cool 4C	5
PIDRO-03B	8/15/06	10:48am	Soil	1	125 ml			Cool 4C	6
PIDRO-04A	8/15/06	11:02am	Soil	1	125 ml			Cool 4C	7
PIDRO-04B	8/15/06	11:02am	Soil	1	125 ml			Cool 4C	8
PIDRO-05A	8/15/06	11:24am	Soil	1	125 ml			Cool 4C	9
PIDRO-05B	8/15/06	11:24am	Soil	1	125 ml			Cool 4C	10

CUSTODY TRANSFER

Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
Ben McCabe		8/24/06 07:50	Q.A. CASTANEDA		8/23/06 07:50
CASTANEDA		8/23/06 1300	Ben McCabe		8/23/06 1300
Feelix		8/24/06 0831			8/24/06 0831

0608161

PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION	
Project: CAU 484	UN Orig: B502	Send Report to: Mike Knave	Sampling Site: CAU 484 Pcdto	The samples submitted contain (check):	
Charge Number: B1A1275	Phone: 295-7396	Fax: 295-6671	M/S: NTS306		
Project Manager: Jeffrey Smith	Turnaround: () Standard 14 days (H), 28 days Non-rad Env, 45 days Rad Env () RUSH Preliminary by: (H)				
Phone: 295-7775	Fax: 295-7761	M/S: NTS306	☐ 1 ☐ 2 ☐ 7 ☐ 14 ☒ 28 (Radiological Env) ☐ 1 ☐ 7 ☐ 14 ☐ 28 (Radiological Env)		

SAMPLE MANAGEMENT INFORMATION		Pay Item, Analysis, Method	
SD: <u>V2743</u> (IH) <u>V2735</u> (Non-Rad Env) <u>V2735</u> (Rad Env)	Samples submitted are associated with a signed Project SOW. <u>YES</u> () NO		
Analyses entered here agree with the SOW. <u>NO</u> YES () NO () N/A	If not, identify the variation: <u>PARAGOL</u>		
Subcontract Lab(s) used for this work:			

ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Exc. Vol	MD	MS	MSD	eg. HCl - VOCs	Pres - Analysis	Pay Item, Analysis, Method
PDR0-06A	8/15/06	1:20pm	Soil	1	125 ml					Cool 4C	X
PDR0-06B	8/15/06	1:20pm	Soil	1	125 ml					Cool 4C	X
PDR0-07A	8/15/06	1:13pm	Soil	1	125 ml					Cool 4C	X
PDR0-07B	8/15/06	1:13pm	Soil	1	125 ml					Cool 4C	X
PDR0-08A	8/15/06	1:22pm	Soil	1	125 ml					Cool 4C	X
PDR0-08B	8/15/06	1:22pm	Soil	1	125 ml					Cool 4C	X
PDR0-09A	8/15/06	1:38pm	Soil	1	125 ml					Cool 4C	X
PDR0-09B	8/15/06	1:38pm	Soil	1	125 ml					Cool 4C	X
PDR0-10A	8/15/06	1:44pm	Soil	1	125 ml					Cool 4C	X
PDR0-10B	8/15/06	1:44pm	Soil	1	125 ml					Cool 4C	X

CUSTODY TRANSFER		Received by (print)		Signature		DATE / TIME	
Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME	Received by (print)	Signature
Ben McNeel		8/23/06 01:50			8/23/06 0732		
CANASTA AREA		8/23/06 1300	Ed #791091417810		8/23/06 1300		
Fede K		8/24/06 0800			8-24-06 0800		

PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION	
Project: CAI: 484	BN Order: B502	Send Report to: Mike Knize	Phone: 295-7396	Fax: 295-4671	M/S: NTS306
Charge Number: 3H1A1225		Turnaround: () Standard - 14 days III, 28 days Non-rad Env, 45 days Rad Env () RUSH Preliminary by: (II)	1 2 7 14 28 (non-Rad Env) 1 7 14 28 (Radiological Env)	Sampling Site: CAI 484 Pelton The samples submitted contain (check): () Hazardous - (list) () Radioactive - (list) () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.	
Project Manager: Jeffrey Smith					
Phone: 295-7775	Fax: 295-7761	M/S: NTS306			

SAMPLE MANAGEMENT INFORMATION		Pay Item, Analysis, Method	
SID: <u>V2743</u> (III) <u>V2735</u> ^{OC} (Non-Rad Env) <u>V2735</u> (Rad Env)	Samples submitted are associated with a signed Project SOW. (X) YES () NO Analyses entered here agree with the SOW. (X) YES () NO () N/A If not, identify the variation: <u>PARAG-01</u>		
Subcontract Lab(s) used for this work:			

ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	QC MS	MSD	Pres. Analysis e.g. HCL - VOC's	MS-A 202								
PDR0-11A	8/15/06	2:00pm	Soil	1	125 ml				Cool 4C	X	21							
PDR0-11B	8/15/06	2:00pm	Soil	1	125 ml				Cool 4C	X	22							
PDR0-12A	8/15/06	2:14pm	Soil	1	125 ml				Cool 4C	X	23							
PDR0-12B	8/15/06	2:14pm	Soil	1	125 ml				Cool 4C	X	24							
PDR0-13A	8/15/06	2:37pm	Soil	1	125 ml				Cool 4C	X	25							
PDR0-13B	8/15/06	2:37pm	Soil	1	125 ml				Cool 4C	X	26							
PDR0-14A	8/15/06	2:55pm	Soil	1	125 ml				Cool 4C	X	24							
PDR0-14B	8/15/06	2:55pm	Soil	1	125 ml				Cool 4C	X	26							
PDR0-15A	8/15/06	3:05pm	Soil	1	125 ml				Cool 4C	X	21							
PDR0-15B	8/15/06	3:05pm	Soil	1	125 ml				Cool 4C	X	30							

CUSTODY TRANSFER		DATE / TIME		Received by (print)		Signature		DATE / TIME	
Sampled/Relinquished (print)	Signature	08/23/06	07:55	CAI ASTARCEA				08/23/06	07:55
Ben McCall		08/23/06	07:55	CAI ASTARCEA				08/23/06	07:55
CAI ASTARCEA		08/23/06	07:55	CAI ASTARCEA				08/23/06	07:55
INDEX		08/24/06	07:56					08/24/06	07:56

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAL 484	BN Org#: B502	Send Report to: Mike Kaurie		Phone: 295-7396	Fax: 295-6677	M/S: NTS306	Sampling Site: CAL 484 Pedro				
Charge Number: 5B1A1225							The samples submitted contain (check):				
Project Manager: Jeffrey Smith							☐ Hazards - (list) _____ ☐ Radioactive - (list) _____ ☐ Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.				
Phone: 295-7775	Fax: 295-7761	M/S: NTS306									
SAMPLE MANAGEMENT INFORMATION											
SD: <u>V2745</u> (III) <u>02735</u> (Non-Rad Env) <u>V2735</u> (Rad Env) Samples submitted are associated with a signed Project SOW. (YES) () NO Analyses entered here agree with the SOW. (YES) () NO () N/A If not, identify the variation: _____ Subcontract Lab(s) used for this work: <u>PARACCEL</u>											
ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	MS	MSD	eg. HCl - VOCs	Pres - Analysis	Pay Item, Analysis, Method
PDR0-16A	8/15/06	3:18pm	Soil	1	125 ml					Cool 4C	X
PDR0-16B	8/15/06	3:18pm	Soil	1	125 ml					Cool 4C	X
PDR0-17A	8/15/06	3:28pm	Soil	1	125 ml					Cool 4C	X
PDR0-17B	8/15/06	3:28pm	Soil	1	125 ml					Cool 4C	X
PDR0-18A	8/16/06	8:52am	Soil	1	125 ml					Cool 4C	X
PDR0-18B	8/16/06	8:52am	Soil	1	125 ml					Cool 4C	X
PDR0-19A	8/16/06	9:02am	Soil	1	125 ml					Cool 4C	X
PDR0-19B	8/16/06	9:02am	Soil	1	125 ml					Cool 4C	X
PDR0-20A	8/16/06	9:15am	Soil	1	125 ml					Cool 4C	X
PDR0-20B	8/16/06	9:15am	Soil	1	125 ml					Cool 4C	X
CUSTODY TRANSFER											
Sampled/Relinquished (print)		Signature		DATE / TIME		Received by (print)		Signature		DATE / TIME	
Ben McGee		[Signature]		08/23/06 09:55		C. CASTANEDA		[Signature]		8/23/06 07:55	
C. CASTANEDA		[Signature]		8/23/06 01:30		[Signature]		[Signature]		8/23/06 01:30	
T. O'Leary		[Signature]		8-24-06 0950		[Signature]		[Signature]		8-24-06 0950	

PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION	
Project: CAU 484	BN Org#: B502	Send Report to: Mike Kozic	Phone: 295-7390	Fax: 295-6671	M/S: NTS306
Charge Number: 5B1A1225		Turnaround: () Standard () RT:SH Preliminary by: () RT:SH	☒ 1 day (Non-Rad Env) ☐ 2 days (Non-Rad Env) ☐ 7 days (Non-Rad Env) ☐ 14 days (Non-Rad Env) ☒ 28 days (Rad Env)		
Project Manager: Jeffrey Smith		Sampling Site: CAU 484 Pchlo			
Phone: 295-7775	Fax: 295-7761	The samples submitted contain (check): ☐ Hazardous - (list) ☐ Radioactive - (list) ☐ Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			

SAMPLE MANAGEMENT INFORMATION

Site: V2743 (IH) V2735 (Non-Rad Env) (Rad Env)

Subcontract Lab(s) used for this work: PARA GENI

If not, identify the variation:

ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC MID	MSD	Pres - Analysis eg: HCl - VOCs	Pay Item, Analysis, Method
PDR0-21A	8/15/06	3:23pm	Soil	1	125 ml			Cool 4C	41
PDR0-21B	8/15/06	3:23pm	Soil	1	125 ml			Cool 4C	42
PDR0-22A			Soil	1	125 ml			Cool 4C	43
PDR0-22B			Soil	1	125 ml			Cool 4C	44
PDR0-R1	8/16/06	4:30am	Water	1	1 L			Cool 4C	45

CUSTODY TRANSFER

Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
Ben McCabe		08/23/06 07:55	C.D. CASTANEDA		8/23/06 @ 07:55
(1) (ASTANEDA)		8/23/06 @ 13:20			8/23/06 @ 13:20
Felix		8-24-06 09:00			8-24-06 09:00

1
INORGANIC ANALYSES DATA SHEET

01A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-01A

**INVESTIGATION (GEOPROBE[®])
SOIL SAMPLE ANALYTICAL RESULTS**

**CAS TA-52-001-TANL
NEDS DETONATION AREA**

Chemical Data

1
INORGANIC ANALYSES DATA SHEET

01B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: 01A
Matrix (soil/water): SOIL Lab Sample ID: 0609L857-002
Level (low/med): LOW Date Received: 09/01/06
% Solids: 90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:

RECEIVED:
NEDS-01B

FORM I - IN

000000020

1
INORGANIC ANALYSES DATA SHEET

02A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
NEDS-02A

000000023

1
INORGANIC ANALYSES DATA SHEET

02B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: 01A
Matrix (soil/water): SOIL Lab Sample ID: 0609L857-004
Level (low/med): LOW Date Received: 09/01/06
% Solids: 88.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-02B

FORM I - IN

0000000024

1
INORGANIC ANALYSES DATA SHEET

03A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-03A

1
INORGANIC ANALYSES DATA SHEET

03B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
NEDS-03B

FORM I - IN

000000026

1

INORGANIC ANALYSES DATA SHEET

04A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Texture: _____
Artifacts: _____

FORM I - IN

000000027

1

INORGANIC ANALYSES DATA SHEET

04B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: 01A
Matrix (soil/water): SOIL Lab Sample ID: 0609L857-008
Level (low/med): LOW Date Received: 09/01/06
% Solids: 90.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-04B

FORM I - IN

000000028

1
INORGANIC ANALYSES DATA SHEET

05A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: 01A
Matrix (soil/water): SOIL Lab Sample ID: 0609L857-009
Level (low/med): LOW Date Received: 09/01/06
% Solids: 90.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
NEDS-05A

1

INORGANIC ANALYSES DATA SHEET

05B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

NEDS-05B

FORM I - IN

000000030

1

INORGANIC ANALYSES DATA SHEET

06A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

NEDS-06A

1
INORGANIC ANALYSES DATA SHEET

06B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-06B

1
INORGANIC ANALYSES DATA SHEET

07A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	07A
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: 01A
Level (low/med): LOW		Lab Sample ID: 0609L857-013
% Solids: 93.3		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
NEDS-07A

1
INORGANIC ANALYSES DATA SHEET

07B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-07B

FORM I - IN

0000000034

1
INORGANIC ANALYSES DATA SHEET

08A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-08A

FORM I - IN

000000035

1
INORGANIC ANALYSES DATA SHEET

08B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: 01A
Matrix (soil/water): SOIL Lab Sample ID: 0609L857-016
Level (low/med): LOW Date Received: 09/01/06
% Solids: 92.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-08B

FORM I - IN

000000036

1
INORGANIC ANALYSES DATA SHEET

09A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: 01A
Matrix (soil/water): SOIL Lab Sample ID: 0609L857-017
Level (low/med): LOW Date Received: 09/01/06
% Solids: 95.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-09A

FORM I - IN

000000037

1
INORGANIC ANALYSES DATA SHEET

09B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

NEDS-09B

1
INORGANIC ANALYSES DATA SHEET

010A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: 01A
Matrix (soil/water): SOIL Lab Sample ID: 0609L857-019
Level (low/med): LOW Date Received: 09/01/06
% Solids: 95.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
NEDS-010A

FORM I - IN

000000021

1
INORGANIC ANALYSES DATA SHEET

010B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	010B
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: 01A
Level (low/med): LOW		Lab Sample ID: 0609L857-020
% Solids: 93.7		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-010B

FORM I - IN

000000022

DATE 9/13/00

Custody Transfer Record/Lab Work Request

Page 1 of 2

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

See SRC

Client <u>WSTEC, VADHD</u>		Refrigerator #	
Est. Final Proj. Sampling Date <u>6/05/02 - 001-001-0001-017</u>		#/Type Container	Liquid Solid
Project # <u>60052-001-001-0001-017</u>		Volume	Liquid Solid
Project Contact/Phone #		Preservatives	
Lionville Laboratory Project Manager <u>Judy Stone</u>		ANALYSES REQUESTED	→
OC <u>50546</u> Del <u>CLP</u> TAR <u>14 day</u>		VOA	
Date Rec'd <u>9/1/00</u> Date Due <u>9/15/00</u>		BNA	
		Pest/PCB	
		Herb	
		Metal	
		INORG	
		CN	

MATRIX CODES:	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	Lionville Laboratory Use Only			
			MS	MSD				1		1	
S - Soil	1	NCDS-01A	✓	✓	S	9/22/00	1035				
SE - Sediment	2	01B					1037				
SO - Solid	3	02A					1053				
SL - Sludge	4	02B					1053				
W - Water	5	03A					1103				
A - Air	6	03B					1114				
OS - Drum	7	04A					1114				
D - Drum	8	04B					1126				
L - Liquids	9	05A					1126				
EP/TC/CP	10	05B					1126				
Leachate	11										
WI - Wipe	12										
X - Other											
F - Fish											

Special Instructions:

DATE/REVISIONS:

1.	
2.	
3.	
4.	
5.	
6.	

Relinquished by	Received by	Date	Time
<u>Field Ex</u>	<u>11/10/00</u>	<u>0950</u>	

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
<u>COMPOSITE WASTE</u>	<u>ORIGINAL REWRITTEN</u>		

20091257

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client <u>NSTEC</u>		Est. Final Proj. Sampling Date <u>12/14/09</u>		Refrigerator #		Liquid		Solid		Liquid		Solid		Liquid		Solid		Liquid		Solid			
Project # <u>12-109</u>		Project Contact/Phone # <u>724-724-1234</u>		Lionville Laboratory Project Manager <u>Judy Stank</u>		Volume		Preservatives		ANALYSES REQUESTED		VOA		BNA		Pest/PCB		Herb		Metal		CN	
Date Rec'd <u>12/14/09</u>		Date Due		OC <u>TAT 14 day</u>																			
MATRIX CODES:		Lab ID		Client ID/Description		Matrix QC Chosen (✓)		Matrix		Date Collected		Time Collected		Lionville Laboratory Use Only									
S - Soil		11		NEEDS - 0104		MS		S		3/24/09		11/11											
SE - Sediment		12		066		MSD																	
SO - Solid		13		07A																			
SL - Sludge		14		07B																			
W - Water		15		08A																			
O - Oil		16		08B																			
A - Air		17		09A																			
DS - Drum		18		09B																			
DL - Drum		19		010A																			
L - Liquids		20		010B																			
EPTCLP																							
Leachate																							
WI - Waste																							
X - Other																							
F - Fish																							

Special Instructions:

DATE/REVISIONS:

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
FEA EK		11/16/09	150								

PROJECT / CLIENT INFORMATION

Project CAU 484

BN Order: B502

Charge Number 581A1275

Send Report to Mike Krueze

Phone: 295-2396

Fax: 295-6671

MS: NTS306

Project Manager: Jeffrey Smith

Turnaround () Standard - 14 days (11, 28 days Non-rad Env., 45 days Rad Env.)
(X) RUSH Preliminary by: ()

Phone: 295-7775

Fax: 295-7761

MS: NTS306

1 2 7 14 28 (Radiological Env.)

(11)

Sampling Site: CAU 484 NEDS
The samples submitted contain (check):
() Hazardous - (list) _____
() Radioactive - (list) _____
() Unknown contamination. If known, identify _____
contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

SAMPLE MANAGEMENT INFORMATION

SDG: (11) V2742 (Non-Rad Env.)

(Rad Env.)

Samples submitted are associated with a signed Project SOW. (X) YES () NO

Analyses entered here agree with the SOW. (X) YES () NO () N/A

If not, identify the variation: N/A

Subcontract Lab(s) used for this work: Livermore

ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	MS	MSD	eg. HCl - VOCs	Pre - Analysis	ICP Metals	Mercury
NEDS-01A	8/22/06	10:38 A	Soil	1	125 ml		X	X		Cool 4C	X	X
NEDS-01B		10:38 A	Soil	1	125 ml					Cool 4C	X	X
NEDS-02A		10:53 A	Soil	1	125 ml					Cool 4C	X	X
NEDS-02B		10:53 A	Soil	1	125 ml					Cool 4C	X	X
NEDS-03A		11:03 A	Soil	1	125 ml					Cool 4C	X	X
NEDS-03B		11:03 A	Soil	1	125 ml					Cool 4C	X	X
NEDS-04A		11:14 A	Soil	1	125 ml					Cool 4C	X	X
NEDS-04B		11:14 A	Soil	1	125 ml					Cool 4C	X	X
NEDS-05A		11:26 A	Soil	1	125 ml					Cool 4C	X	X
NEDS-05B		11:26 A	Soil	1	125 ml					Cool 4C	X	X

CHSTODY TRANSFER

Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
BEN MCGEE		08/31/06 07:20	C. J. CASTRO		8/31/06 07:20
FEDER		8/31/06 1300	FEDER # SEE ATTACHED		8/31/06 1300
FEDER		9/10/06 0950	AMANDA COOPER		9/10/06 0950

SERVICES REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION				
Project: CAU 484	BN Order: B502	Send Report to: Mike Knorr		Phone: 295-7396	Fax: 295-6671	M/S: NTS306	Sampling Site: <u>CAU 484</u> <u>NEDS</u> The samples submitted contain (check): () Hazardous - (list) _____ () Radioactive - (list) _____ () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.					
Charge Number: 581A1225	Phone: 295-7775		Fax: 295-7761	M/S: NTS306								
Project Manager: Jeffrey Smith												
<p>SDG: _____ (III) <u>V8342</u> (Non-Rad Env) _____ (Rad Env)</p> <p>Samples submitted are associated with a signed Project SOW. ☒ YES () NO</p> <p>Analyses entered here agree with the SOW. ☒ YES () NO () N/A</p> <p>If not, identify the variation: _____</p> <p>Subcontract Lab(s) used for this work: <u>Kiewit</u></p>												
SAMPLE MANAGEMENT INFORMATION												
ID/DESCRIPTION	SAMPLE DATE	PLUG TIME	MATRIX	CONTAINER #	Est. Vol	MD	QC MS	MSD	Pres - Analysis	ICP Metals	Pay Item, Analysis, Method	
NEEDS-06A	8/22/06	11:41 A	Soil	1	125 ml				Cool 4C	X		
NEEDS-06B		11:41 A	Soil	1	125 ml				Cool 4C	X		
NEEDS-07A		01:42 P	Soil	1	125 ml				Cool 4C	X		
NEEDS-07B		01:42 P	Soil	1	125 ml				Cool 4C	X		
NEEDS-08A		01:59 P	Soil	1	125 ml				Cool 4C	X		
NEEDS-08B		01:59 P	Soil	1	125 ml				Cool 4C	X		
NEEDS-09A		02:12 P	Soil	1	125 ml				Cool 4C	X		
NEEDS-09B		02:12 P	Soil	1	125 ml				Cool 4C	X		
NEEDS-10A		02:49 P	Soil	1	125 ml				Cool 4C	X		
NEEDS-10B		02:49 P	Soil	1	125 ml				Cool 4C	X		
CUSTODY TRANSFER												
Sampled/Relinquished (print)		Signature		DATE / TIME		Received by (print)		Signature		DATE / TIME		
Ben McGeer				08/31/06 09:20		C.D. CASTRO				8/31/06 09:20		
K. Alexander				9/1/06 07:50		Amador Center				9/1/06 07:50		

1
INORGANIC ANALYSES DATA SHEET

11A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	11A
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L858-001
% Solids: 96.0		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-11A

FORM I - IN

0000000019

1
INORGANIC ANALYSES DATA SHEET

11B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL Lab Sample ID: 0609L858-002
Level (low/med): LOW Date Received: 09/01/06
% Solids: 92.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-11B

FORM I - IN

000000020

1
INORGANIC ANALYSES DATA SHEET

12A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
NEDS-12A

0000000021

1
INORGANIC ANALYSES DATA SHEET

12B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	12B
Lab Code: LVLI	Case No.: NEDS	SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL		Lab Sample ID: 0609L858-004
Level (low/med): LOW		Date Received: 09/01/06
% Solids: 92.5		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-12B

FORM I - IN

0000000022

1
INORGANIC ANALYSES DATA SHEET

13A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
NEDS-13A

000000023

1
INORGANIC ANALYSES DATA SHEET

13B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL Lab Sample ID: 0609L858-006
Level (low/med): LOW Date Received: 09/01/06
% Solids: 92.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
NEDS-13B

FORM I - IN

000000024

1
INORGANIC ANALYSES DATA SHEET

14A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL Lab Sample ID: 0609L858-007
Level (low/med): LOW Date Received: 09/01/06
% Solids: 98.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-14A

FORM I - IN

0000000025

1

INORGANIC ANALYSES DATA SHEET

14B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL Lab Sample ID: 0609L858-008
Level (low/med): LOW Date Received: 09/01/06
% Solids: 94.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-14B

FORM I - IN

000000026

1
INORGANIC ANALYSES DATA SHEET

15A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL Lab Sample ID: 0609L858-009
Level (low/med): LOW Date Received: 09/01/06
% Solids: 94.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-15A

FORM I - IN

000000027

1

INORGANIC ANALYSES DATA SHEET

15B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL Lab Sample ID: 0609L858-010
Level (low/med): LOW Date Received: 09/01/06
% Solids: 90.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-15B

FORM I - IN

000000028

1
INORGANIC ANALYSES DATA SHEET

16A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	16A
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L858-011
% Solids: 94.5		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-16A

FORM I - IN

0000000029

1
INORGANIC ANALYSES DATA SHEET

16B

Lab Name: LIONVILLE LABORATORY		Contract: 60052	16B
Lab Code: LVLI	Case No.: NEDS	SAS No.:	SDG No.: V2742
Matrix (soil/water): SOIL			Lab Sample ID: 0609L858-012
Level (low/med): LOW			Date Received: 09/01/06
% Solids: 93.6			

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
NEDS-16B

FORM I - IN

000000030

1
INORGANIC ANALYSES DATA SHEET

17A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-17A

FORM I - IN

000000031

1
INORGANIC ANALYSES DATA SHEET

17B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	17B
Lab Code: LVLI	Case No.: NEDS	SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL		Lab Sample ID: 0609L858-014
Level (low/med): LOW		Date Received: 09/01/06
% Solids: 91.2		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-17B

FORM I - IN

000000032

EPA SAMPLE NO.

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL Lab Sample ID: 0609L858-015
Level (low/med): LOW Date Received: 09/01/06
% Solids: 94.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

000000033

1

INORGANIC ANALYSES DATA SHEET

18B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-18B

000000034

1
INORGANIC ANALYSES DATA SHEET

19A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments :

NEDS-19A

1
INORGANIC ANALYSES DATA SHEET

19B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL Lab Sample ID: 0609L858-018
Level (low/med): LOW Date Received: 09/01/06
% Solids: 93.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-19B

FORM I - IN

000000036

1
INORGANIC ANALYSES DATA SHEET

20A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL Lab Sample ID: 0609L858-019
Level (low/med): LOW Date Received: 09/01/06
% Solids: 96.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-20A

FORM I - IN

000000037

1
INORGANIC ANALYSES DATA SHEET

20B

Lab Name: LIONVILLE LABORATORY		Contract: 60052		20B
Lab Code: LVLI	Case No.: NEDS	SAS No.:	SDG No.: V2742	
Matrix (soil/water): SOIL		Lab Sample ID: 0609L858-020		
Level (low/med):	LOW	Date Received: 09/01/06		
% Solids:	91.7			

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-20B

FORM I - IN

000000038

06091858

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

See SRC

Client <u>NSTEC</u>		VAT42	
Est. Final Proj. Sampling Date <u>6/25/2017</u>		001-0001-003	
Project # <u>60852-001</u>			
Project Contact/Phone # <u>912-441-1111</u>			
Lionville Laboratory Project Manager: <u>OC Steele Del</u>		TAT <u>14 days</u>	
Date Rec'd <u>9/1/16</u>		Date Due <u>9/15/16</u>	

MATRIX CODES:	Lab ID	Client ID/Description	Matrix OC Chosen (✓)		Matrix	Date Collected	Time Collected	ANALYSES REQUESTED				Lionville Laboratory Use Only						
			MS	MSD				VOA	BNA	Pest/PCB	Herb	Metal	CN	INORG				
S - Soil	001	NEDS-11A			5	8/22/03	14											
SE - Sediment	003	11B			1													
SO - Solid	003	13A			1	03/25												
SL - Sludge	004	13B			1													
W - Water	005	13A			1	03/35												
O - Oil	006	13B			1													
A - Air	007	14A			1	03/46												
DS - Drums	008	14B			1													
Solids	009	15A			1	03/58												
DL - Drums	010	15B			1													
Liquids																		
EP/TCLP																		
Leachable																		
W1 - Wipe																		
X - Other																		
F - Fish																		

Special Instructions:

DATE/REVISIONS:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Relinquished by	Received by	Date	Time
		11/26	0950

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
"COMPOSITE WASTE"	ORIGINAL REWRITTEN		

Page 2 of 2

See SRC

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

[illegible]

Special Instructions:

DATE/REVISIONS:

- 1
2
3
4
5
6

Relinquished by	Received by	Date	Time
COMPOSITE			
WASTE"			
ORIGINAL			
REWRITTEN			

SERVICES REQUEST AND CHAIN OF CUSTODY RECORD

Page 3 of 18

PROJECT / CLIENT INFORMATION

Project: CAU 484

PN Orig: B302

Charge Number: SH1A1225

Send Report to: Mike Krueze

Phone: 295-7396

Fax: 295-6671

M/S: NTS306

REPORT & TURNAROUND INFORMATION

SAMPLE INFORMATION

Sampling Site: CAU 484 **NEDS**

The samples submitted contain (check):

☐ Hazardous - (list)☐ Radioactive - (list)☐ Unknown contamination. If known, identify

contaminants. This information will ensure compliance with

applicable regulations and allow for the safe handling of the

sample materials.

Turnaround () Standard - 14 days (H), 28 days (Non-rad Env), 45 days (Rad Env) (H)

☒ Rush Preliminary by:

1 - 2 - 7 - 14 (non-Rad Env) 28 (Radiological Env)

1 - 7 - 14 - 28 (Radiological Env)

SAMPLE MANAGEMENT INFORMATION

SDG: (H) **V2742** (Non-Rad Env)

(Rad Env)

Samples submitted are associated with a signed Project SOW. ☒ YES () NOAnalyses entered here agree with the SOW. ☒ YES () NO () N/A

If not, identify the variation:

Subcontract Lab(s) used for this work: **Kierulff**

Pay Item, Analysis, Method

DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Exc Vol	MSD	MS	MSD	Pres - Analysis e.g. HCl - VOCs	ICP Metals									
NEDS-11A	8/22/06	03:44 P	Soil	1	125 ml				Cool 4C	X									
NEDS-11B		03:44 P	Soil	1	125 ml				Cool 4C	X									
NEDS-12A		03:25 P	Soil	1	125 ml				Cool 4C	X									
NEDS-12B		03:25 P	Soil	1	125 ml				Cool 4C	X									
NEDS-13A		03:35 P	Soil	1	125 ml				Cool 4C	X									
NEDS-13B		03:35 P	Soil	1	125 ml				Cool 4C	X									
NEDS-14A		03:46 P	Soil	1	125 ml				Cool 4C	X									
NEDS-14B		03:46 P	Soil	1	125 ml				Cool 4C	X									
NEDS-15A		03:58 P	Soil	1	125 ml				Cool 4C	X									
NEDS-15B		03:58 P	Soil	1	125 ml				Cool 4C	X									

CUSTODY TRANSFER

Sampled/Relinquished (print)

Signature

DATE / TIME

Received by (print)

Signature

DATE / TIME

New Meade

08/31/06 09:20

C.D. CASTRONEA

Signature

8/31/06 0920

New Meade

08/31/06 1300

Fed Ex # SEE RETURNED

Signature

8/31/06 1300

New Meade

09/10/06 0950

D. Smith

Signature

9/10/06 0950

SERVICES REQUEST AND CHAIN OF CUSTODY RECORD

Page 4 of 18

PROJECT / CLIENT INFORMATION

Project: CAU 484

BN Orig# B502

Change Number: 501A12Z5

Project Manager: Jeffrey Smith

Phone: 295-7725

Fax: 295-7761

M/S: NTS306

REPORT & TURNAROUND INFORMATION

Send Report for: Mike Krueze

Phone: 295-7396

Fax: 295-6671

M/S: NTS306

Turnaround:

☐ Standard - 14 days
☒ Rush - Preliminary by: 7/14 (non-Rad Env)
☐ (III)

☐ Standard - 14 days
☒ Rush - Preliminary by: 7/14 (non-Rad Env)
☐ (III)

SAMPLE INFORMATION

Sampling Site: CAU 484 NEDS

The samples submitted contain (check):

☐ Hazardous - (list)☐ Radioactive - (list)☐ Unknown contamination. If known, identify

contaminants. This information will ensure compliance with

applicable regulations and allow for the safe handling of the

sample materials.

SAMPLE MANAGEMENT INFORMATION

SDG: (III) V2742 (Non-Rad Env)

(Rad Env)

Samples submitted are associated with a signed Project SOW. ☒ YES ☐ NOAnalyses entered here agree with the SOW. ☒ YES ☐ NO ☐ N/A

If not, identify the variation:

Subcontract Lab(s) used for this work: Leonville

ID/DESCRIPTION	DATE	TIME	MATRIX	CONTAINER #	Est Vol	MD	QC MS	MSD	Pres - Analysis eg. HCl - VOCs	Pay Item, Analysis, Method	
										ICP Metals	
NEDS-16A	8/23/06	08:48A	Soil	1	125 ml						
NEDS-16B		08:48A	Soil	1	125 ml						
NEDS-17A		08:58A	Soil	1	125 ml						
NEDS-17B		08:58A	Soil	1	125 ml						
NEDS-18A		09:09A	Soil	1	125 ml						
NEDS-18B		09:09A	Soil	1	125 ml						
NEDS-19A		09:17A	Soil	1	125 ml						
NEDS-19B		09:17A	Soil	1	125 ml						
NEDS-20A		09:27A	Soil	1	125 ml						
NEDS-20B		09:27A	Soil	1	125 ml						

CUSTODY TRANSFER

Sample Relinquished (print)

Signature

DATE / TIME

Received by (print)

Signature

DATE / TIME

Ben McGee

Signature

DATE / TIME

Received by (print)

Signature

DATE / TIME

for CDE Test Results

Signature

DATE / TIME

Received by (print)

Signature

DATE / TIME

Retention Code: ENV 5.c(1)

BN-0732 (04/02)

1
INORGANIC ANALYSES DATA SHEET

21A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	21A
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L859-001
% Solids: 93.3		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
NEDS-21A

FORM I - IN

0000000019

EPA SAMPLE NO.

21B

[illegible]

FORM I - IN

0000000020

1
INORGANIC ANALYSES DATA SHEET

22A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	22A
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L859-003
% Solids: 93.9		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
NEDS-22A

1

INORGANIC ANALYSES DATA SHEET

22B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	22B
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L859-004
% Solids: 90.9		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
NEDS-22B

1
INORGANIC ANALYSES DATA SHEET

23A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	23A
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L859-005
% Solids: 92.9		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
NEDS-23A

FORM I - IN

000000023

1
INORGANIC ANALYSES DATA SHEET

23B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	23B
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L859-006
% Solids: 90.7		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-23B

FORM I - IN

000000024

1
INORGANIC ANALYSES DATA SHEET

24A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	24A
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L859-007
% Solids: 94.6		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-24A

FORM I - IN

000000025

1
INORGANIC ANALYSES DATA SHEET

24B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	24B
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L859-008
% Solids: 90.5		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-24B

FORM I - IN

000000026

EPA SAMPLE NO.

25A

[illegible]

000000027

1
INORGANIC ANALYSES DATA SHEET

25B

Lab Name: LIONVILLE LABORATORY		Contract: 60052	25B
Lab Code: LVLI	Case No.: NEDS	SAS No.:	SDG No.: V2742
Matrix (soil/water): SOIL			Lab Sample ID: 0609L859-010
Level (low/med): LOW			Date Received: 09/01/06
% Solids: 92.7			

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-25B

FORM I - IN

000000028

1
INORGANIC ANALYSES DATA SHEET

26A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	26A
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L859-011
% Solids: 94.3		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
NEDS-26A

1
INORGANIC ANALYSES DATA SHEET

26B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
NEDS-26B

000000030

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

27A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	27A
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L859-013
% Solids: 94.2		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
NEDS-27A

EPA SAMPLE NO.

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-27B

FORM I - IN

000000032

1
INORGANIC ANALYSES DATA SHEET

28A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-28A

FORM I - IN

000000033

1

INORGANIC ANALYSES DATA SHEET

28B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-28B

FORM I - IN

0000000034

1
INORGANIC ANALYSES DATA SHEET

29A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	29A
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L859-017
% Solids: 94.4		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-29A

FORM I - IN

000000035

1

INORGANIC ANALYSES DATA SHEET

29B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	29B
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L859-018
% Solids: 91.9		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-29B

FORM I - IN

000000036

1
INORGANIC ANALYSES DATA SHEET

30B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	30B
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L859-020
% Solids: 91.4		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
NEDS-30B

FORM I - IN

000000038

Page 1 of 2

See SRC

[illegible]

DATE/REVISIONS:

Relinquished by	Received by	Date	Time
PECC	AD	11.01.01	08:52

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
COMPOSITE WASTE"	ORIGINAL REWRITTEN		

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

[illegible]

SERVICES REQUEST AND CHAIN OF CUSTODY RECORD

Page 5 of 18

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAU 484		BN Org: B502		Send Report to: Mike Krawie				Sampling Site: CAU 484 Bldg 65 NEDS			
Charge Number: 581A12Z5		Phone: 295-7396		Fax: 295-6671		M/S: NTS306		The samples submitted contain (check): ☐ () Hazardous - (has) ☐ () Radioactive - (has) ☐ () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			
Project Manager: Jeffrey Smith		Turnaround: () Standard - 14 days (11, 28 days Non-rad Env; 45 days Rad Env) (11)		Preliminary by: <u>1 2 7 14</u>		(14 (non-Rad Env) (11) (Rad Radiological Env))					
Phone: 295-7775		Fax: 295-7761		M/S: NTS306							
SAMPLE MANAGEMENT INFORMATION										Pay Item, Analysis, Method	
SDC: (11) <u>V2342</u> (Non-Rad Env) (Rad Env) Samples submitted are associated with a signed Project SOW. ☒ YES () NO Analyses entered here agree with the SOW. ☒ YES () NO () N/A If not, identify the variation: _____ Subcontract Lab(s) used for this work: <u>Lemoille</u>											
ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	QC	MSD	eg: HCl - VOCs	Pres - Analysis	
NEDS-21A	8/23/06	08:45A	Soil	1	125 ml					Cool 4C	X
NEDS-21B		09:45A	Soil	1	125 ml					Cool 4C	X
NEDS-22A		09:57A	Soil	1	125 ml					Cool 4C	X
NEDS-22B		08:57A	Soil	1	125 ml					Cool 4C	X
NEDS-23A		10:06A	Soil	1	125 ml					Cool 4C	X
NEDS-23B		10:06A	Soil	1	125 ml					Cool 4C	X
NEDS-24A		10:35A	Soil	1	125 ml					Cool 4C	X
NEDS-24B		10:35A	Soil	1	125 ml					Cool 4C	X
NEDS-25A		10:35A	Soil	1	125 ml					Cool 4C	X
NEDS-25B		10:35A	Soil	1	125 ml					Cool 4C	X
CUSTODY TRANSFER											
Sampled/Relinquished (print)		Signature		DATE / TIME		Received by (print)		Signature		DATE / TIME	
Ben McCreas				8/31/06 09:20		C.A. Castaneda				8/31/06 09:20	
Fed Ex				8/31/06 1300		Fed Ex # 532		ATTACHED		8/31/06 1300	
				9:06 AM		DS Smith				9:06 AM	

Retention Code: ENV 5.c(1)

EN-0732 (04/02)

PROJECT / CLIENT INFORMATION		REPORT & TURN-AROUND INFORMATION		SAMPLE INFORMATION	
Project CAU 484	BN Org# B502	Send Report to: Mike Krutz	Phone: 295-7396	Fax: 295-6071	MS: NTS306
Charge Number: 501A12Z5		Turnaround: () Standard - 14 days (11, 28 days Non-rad Env; 45 days Rad Env) (11)	(X) RUSH Preliminary by: <u>7</u> <u>14</u> (Non-Rad Env) <u>28</u> (Radiological Env)		
Project Manager: Jeffrey Smith		Sampling Site: <u>CAU 484</u> <u>NEDS</u> The samples submitted contain (check): () Hazardous - (list) _____ () Radioactive - (list) _____ () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			
Phone: 295-7775	Fax: 295-7761	MS: NTS306			

SAMPLE MANAGEMENT INFORMATION					
SDG: _____	(111) <u>V8742</u>	(Non-Rad Env)	(Rad Env)		
Samples submitted are associated with a signed Project SOW. (X) YES () NO					
Analyses entered here agree with the SOW. (X) YES () NO () N/A					
If not, identify the variation: _____					
Subcontract Lab(s) used for this work: <u>Kennville</u>					

ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC MS	MSD	Pres - Analysis	ICP Metals	Pay Item, Analysis, Method
NEDS-26A	8/23/06	10:45 A	Soil	1	125 ml			Cool 4C	X	
NEDS-26B		10:45 A	Soil	1	125 ml			Cool 4C	X	
NEDS-27A		12:03 P	Soil	1	125 ml			Cool 4C	X	
NEDS-27B		12:03 P	Soil	1	125 ml			Cool 4C	X	
NEDS-28A		12:14 P	Soil	1	125 ml			Cool 4C	X	
NEDS-28B		12:14 P	Soil	1	125 ml			Cool 4C	X	
NEDS-29A		12:23 P	Soil	1	125 ml			Cool 4C	X	
NEDS-29B		12:23 P	Soil	1	125 ml			Cool 4C	X	
NEDS-30A		12:32 P	Soil	1	125 ml			Cool 4C	X	
NEDS-30B		12:32 P	Soil	1	125 ml			Cool 4C	X	

CHAIN OF CUSTODY TRANSFER	
Sampled/Relinquished (print)	Signature
<u>Ben McCre</u>	<u>[Signature]</u>
DATE / TIME	Received by (print)
<u>8/31/06 09:20</u>	<u>C.D. CHAMBERA</u>
<u>8/31/06 1300</u>	<u>Fed Ex # 322 ATTACHED</u>
<u>9-10-06 0950</u>	<u>D. Smith</u>
	<u>[Signature]</u>
	<u>[Signature]</u>
DATE / TIME	
<u>8/31/06 0950</u>	
<u>9-10-06 0950</u>	

1
INORGANIC ANALYSES DATA SHEET

31A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-31A

FORM I - IN

000000020

1
INORGANIC ANALYSES DATA SHEET

31B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-31B

FORM I - IN

000000021

1
INORGANIC ANALYSES DATA SHEET

32A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-32A

FORM I - IN

000000022

1
INORGANIC ANALYSES DATA SHEET

32B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	32B
Lab Code: LVLI	Case No.: NEDS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L860-004
% Solids: 94.1		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-32B

FORM I - IN

000000023

1

INORGANIC ANALYSES DATA SHEET

33A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-33A

FORM I - IN

000000024

1
INORGANIC ANALYSES DATA SHEET

33B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-33B

1
INORGANIC ANALYSES DATA SHEET

34A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-34A

1
INORGANIC ANALYSES DATA SHEET

34B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

NEDS-34B

1
INORGANIC ANALYSES DATA SHEET

35A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
NEDS-35A

FORM I - IN

0000000028

1
INORGANIC ANALYSES DATA SHEET

35B

Lab Name: LIONVILLE_LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL Lab Sample ID: 0609L860-010
Level (low/med): LOW Date Received: 09/01/06
% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-35B

FORM I - IN

000000029

1
INORGANIC ANALYSES DATA SHEET

36A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

NEDS-36A

FORM I - IN

000000030

1
INORGANIC ANALYSES DATA SHEET

36B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: NEDS SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL Lab Sample ID: 0609L860-012
Level (low/med): LOW Date Received: 09/01/06
% Solids: 92.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
NEDS-36B

FORM I - IN

000000031

1

INORGANIC ANALYSES DATA SHEET

37A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

NEDS-37A

FORM I - IN

000000032

1
INORGANIC ANALYSES DATA SHEET

37B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

NEDS-37B

1
INORGANIC ANALYSES DATA SHEET

38A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

NEDS-38A

1
INORGANIC ANALYSES DATA SHEET

38B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
NEDS-38B

000000035

1
INORGANIC ANALYSES DATA SHEET

R1

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

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NEDS-R1

Page 1 of 2

See SRC

[illegible]

DATE/REVISIONS:

1.	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____

Relinquished by	Received by	Date	Time
<i>[Signature]</i>		9.10.2005	0850

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
COMPOSITE MACTII	ORIGINAL REWRITTEN		

Custody Transfer Record/Lab Work Request

Page 2 of 2

06092800

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client <u>NOTEC VATA</u>		Refrigerator #		
Est. Final Proj. Sampling Date		# Type Container	Liquid	
Project #		Volume	Liquid	
Project Contact/Phone # <u>412-791-1111</u>		Preservatives	Solid	
Lionville Laboratory Project Manager		ANALYSES REQUESTED	<div style="display: flex; justify-content: space-between;"> <div> VOA BNA Pest/PCB Herb </div> <div> ORGANIC METAL INORG </div> </div>	
QC	Del	TAT	Date Rec'd <u>6-1-06</u> Date Due	

MATRIX CODES:	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	Lionville Laboratory Use Only									
			MS	MSD				1	1	1	1	1	1	1	1	1	1
S - Soil	011	NEDS-36A	✓	✓	S	8/30/04	1										
SE - Sediment	012	36B															
SO - Solid	013	37A					1030										
SL - Sludge	014	37B					1										
W - Water	015	38A					0500										
G - Oil	016	38B															
A - Air	017	-R1															
DS - Drum																	
DL - Drum																	
L - Liquids																	
EP/CLP																	
WI - Leachate																	
X - Wipe																	
F - Other																	
F - Fish																	

Special Instructions:

DATE/REVISIONS:

1.	
2.	
3.	
4.	
5.	
6.	

Relinquished by	Received by	Date	Time
<u>[Signature]</u>	<u>[Signature]</u>	<u>6/1/06</u>	<u>09:50</u>

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAU 484	BN Org#: B502	Send Report to: Mike Krueze	Phone: 295-7396	Fax: 295-6671	M/S: NTS306	Sampling Site: CAU 484, Labore NEDS	(The samples submitted contain (check):)				
Charge Number: 581A12/5		Turnaround () Standard - 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env) (H)				() Hazardous - (list)					
Project Manager: Jeffrey Smith		Turnaround (H) RUSH Preliminary by: 1 2 7 14 28 (Rad/ological Env)				() Radioactive - (list)					
Phone: 295-7775	Fax: 295-7761	M/S: NTS306				() Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.					
SAMPLE MANAGEMENT INFORMATION						Pay Item, Analysis, Method					
SDG: (H) V2742 (Non-Rad Env) YES () NO (Rad Env)	Samples submitted are associated with a signed Project SOW. YES () NO										
Analyses entered here agree with the SOW. YES () NO () N/A											
If not, identify the variation: <u>Lieville</u>											
Subcontract Lab(s) used for this work: <u>Lieville</u>											
ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	QC MS	MSD	Pres - Analysis eg. HCL - VOC'S	ICP Metals	
NEDS-31A	8/23/06	12:41 P	Soil	1	125 ml				Cool 4C	X	
NEDS-31B		12:41 P	Soil	1	125 ml				Cool 4C	X	
NEDS-32A		12:51 P	Soil	1	125 ml				Cool 4C	X	
NEDS-32B		12:51 P	Soil	1	125 ml				Cool 4C	X	
NEDS-33A		01:11 P	Soil	1	125 ml				Cool 4C	X	
NEDS-33B		01:11 P	Soil	1	125 ml				Cool 4C	X	
NEDS-34A		01:21 P	Soil	1	125 ml				Cool 4C	X	
NEDS-34B		01:21 P	Soil	1	125 ml				Cool 4C	X	
NEDS-35A		1:32 P	Soil	1	125 ml				Cool 4C	X	
NEDS-35B		1:32 P	Soil	1	125 ml				Cool 4C	X	
CUSTODY TRANSFER											
Sample/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME						
Ben McGehee		08/21/06 09:20	CA (ASTROG)A		8/21/06 09:20						
for CXC Ted Reddy		8/31/06 1300	Ted Ex # SEE ATTACHED		8/31/06 1300						
FED EX		9.1.06 08:50	DS Smith		9.1.06 08:50						

Retention Code: ENV 5.c(1)

BN-0732 (04/02)

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAI 484	BN Order: B502	Send Report to: Mike Krueze	Phone: 295-7396	Fax: 295-6671	M/S: NTS306	Sampling Site: CAI 484 <u>Bechtel NEDS</u>	The samples submitted contain (check):				
Change Number: 5B1A12/5			Turnaround: () Standard - 14 days (II), 28 days Non-rad Env, 45 days Rad Env (III)			() Hazardous - (list)					
Project Manager: Jeffrey Smith			☒ RUSH Preliminary by: <u>7</u> <u>14</u> <u>28</u> (non-Rad Env) (III)			() Radioactive - (list)					
Phone: 295-7775	Fax: 295-7761	M/S: NTS306				() Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.					
SAMPLE MANAGEMENT INFORMATION SDG: <u>(III) V2742</u> (Non-Rad Env) (Rad Env) Samples submitted are associated with a signed Project SOW. ☒ YES () NO Analyses entered here agree with the SOW. ☒ YES () NO () N/A If not, identify the variation: _____ Subcontract Lab(s) used for this work: <u>Kennville</u>											
ID/DESCRIPTION	DATE / TIME	MATRIX	CONTAINER #	Est. Vol	QC MS	MSD	Pres - Analysis e.g. HCl - VOCs	Pay Item, Analysis, Method			
NEDS-36A	8/23/06 01:41P	Soil	1	125 ml	X	X	Cool 4C	X			
NEDS-36B	01:41P	Soil	1	125 ml			Cool 4C	X			
NEDS-37A	10:20A	Soil	1	125 ml			Cool 4C	X			
NEDS-37B	10:20A	Soil	1	125 ml			Cool 4C	X			
NEDS-38A	05:00P	Soil	1	125 ml			Cool 4C	X			
NEDS-38B	05:00P	Soil	1	125 ml			Cool 4C	X			
NEDS-39A		Soil	1	125 ml			Cool 4C	X			
NEDS-39B		Soil	1	125 ml			Cool 4C	X			
NEDS-40A		Soil	1	125 ml			Cool 4C	X			
NEDS-40B		Soil	1	125 ml			Cool 4C	X			
CUSTODY TRANSFER											
Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME						
Ben McCaig		08/31/06 09:20	Ben McCaig		8/31/06 1300						
FED EX		9:10a CRSC	D Smith		9:10a CRSC						

Retention Code: ENV 5 (1)

BN-0732 (04/02)

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION																											
Project: CAU 484	HSN Org# B502	Send Report to: Mike Krucic		Phone: 295-7396	Fax: 295-6671	M/S: NT5306		Sampling Site: CAU 484 <u>DATA</u> <u>NEDS</u> The samples submitted contain (check): ☐ Hazardous - (list) _____ ☐ Radioactive - (list) _____ ☐ Unknown contamination. If known, identify _____ contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.																											
Charge Number: 581A1225	Phone: 295-7775		Fax: 295-7761	M/S: NT5306		Turnaround: () Standard - 14 days (H, 28 days Non-rad Env, 45 days Rad Env) ☒ KRUSII Preliminary by: <u>7</u> <u>14</u> <u>28</u> (Radiological Env)																													
Project Manager: Jeffrey Smith																																			
SAMPLE MANAGEMENT INFORMATION SDG: _____ (III) <u>V2742</u> (Non-Rad Env) <u>YES</u> () NO (Rad Env) Samples submitted are associated with a signed Project SOW. <u>YES</u> () NO Analyses entered here agree with the SOW. <u>YES</u> () NO () N/A If not, identify the variation: _____ Subcontract Lab(s) used for this work: <u>Monville</u>																																			
ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MSD	QC	MSD	Pres - Analysis e.g. HCl - VOCs	Pay Item, Analysis, Method																									
NEDS-R1	8/23/06	05:00P	Water	1	1 L				HNO3	X	ICP Metals <u>Be, H</u>																								
<div style="position: relative;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%); background-size: 4px 4px;"></div> </div>																																			
CUSTODY TRANSFER <table border="1"> <thead> <tr> <th>Sampled/Relinquished (print)</th> <th>Signature</th> <th>DATE / TIME</th> <th>Received by (print)</th> <th>Signature</th> <th>DATE / TIME</th> </tr> </thead> <tbody> <tr> <td>Ben McCre</td> <td> </td> <td>8/31/06 09:20</td> <td>D. J. CRISTOFER</td> <td> </td> <td>8/31/06 09:30</td> </tr> <tr> <td>Forced Test Redding</td> <td></td> <td>8/31/06 1300</td> <td>Forced # SEE ATTACHMENT</td> <td></td> <td>8/31/06 1300</td> </tr> <tr> <td>FED EX</td> <td></td> <td>9:00 AM '06</td> <td>D. Smith</td> <td> </td> <td>9:00 AM '06</td> </tr> </tbody> </table>												Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME	Ben McCre		8/31/06 09:20	D. J. CRISTOFER		8/31/06 09:30	Forced Test Redding		8/31/06 1300	Forced # SEE ATTACHMENT		8/31/06 1300	FED EX		9:00 AM '06	D. Smith		9:00 AM '06
Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME																														
Ben McCre		8/31/06 09:20	D. J. CRISTOFER		8/31/06 09:30																														
Forced Test Redding		8/31/06 1300	Forced # SEE ATTACHMENT		8/31/06 1300																														
FED EX		9:00 AM '06	D. Smith		9:00 AM '06																														

**INVESTIGATION (GEOPROBE®)
SOIL SAMPLE ANALYTICAL RESULTS**

**CAS TA-52-001-TANL
NEDS DETONATION AREA**

Radiological Data

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 -- (843) 556-8171 -- www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:	NEDS-01A	Project:	NEVA00106
Sample ID:	171020001	Client ID:	NEVA002
Matrix:	Soil		
Collect Date:	22-AUG-06		
Receive Date:	06-SEP-06		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.78	+/-0.988	0.669	+/-1.02	2.00	pCi/g						
Uranium-235/236	U	-0.0616	+/-0.318	1.04	+/-0.318	2.00	pCi/g		RDD	09/18/06	0857	566390	1
Uranium-238		1.02	+/-0.782	0.852	+/-0.794	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	80	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-01A
Sample ID: 171020001

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------------	-----

- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-01B
Sample ID: 171020002
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.19	+/-0.759	0.774	+/-0.773	2.00	pCi/g						
Uranium-235/236	U	0.221	+/-0.307	0.332	+/-0.308	2.00	pCi/g						
Uranium-238		1.38	+/-0.784	0.611	+/-0.803	2.00	pCi/g						

RDD 09/18/06 0857 566390

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	98	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-01B
Sample ID: 171020002

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	----

Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-02A
Sample ID: 171020003
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
Alphaspec U, Solid 2pCi/g													
Uranium-233/234		1.80	+/-0.980	0.967	+/-1.01	2.00	pCi/g						
Uranium-235/236	U	0.154	+/-0.347	0.733	+/-0.347	2.00	pCi/g		RDD	09/18/06	0857	566390	1
Uranium-238		1.24	+/-0.826	0.927	+/-0.842	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	99	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-02A
Sample ID: 171020003

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt.
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losce Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:	NEDS-02B	Project:	NFVA00106
Sample ID:	171020004	Client ID:	NEVA002
Matrix:	Soil		
Collect Date:	22-AUG-06		
Receive Date:	06-SEP-06		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.03	+/-0.673	0.598	+/-0.687	2.00	pCi/g						
Uranium-235/236	U	0.0563	+/-0.224	0.600	+/-0.224	2.00	pCi/g						
Uranium-238		0.786	+/-0.605	0.659	+/-0.614	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565873

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	94	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-02B
Sample ID: 171020004

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mt.
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Y QC Samples were not spiked with this compound
^ RPI of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-03A
Sample ID: 171020005
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.32	+/-0.781	0.634	+/-0.799	2.00	pCi/g						
Uranium-235/236	U	-0.0827	+/-0.244	0.701	+/-0.244	2.00	pCi/g		RDD	09/18/06	0857	566390	
Uranium-238		0.719	+/-0.601	0.699	+/-0.608	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	102	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-03A

Project:

NEVA00106

Sample ID:

171020005

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Address : 2621 Losee Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-03B
Sample ID: 171020006
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.773	+/-0.635	0.818	+/-0.643	2.00	pCi/g						
Uranium-235/236	U	0.0296	+/-0.225	0.647	+/-0.225	2.00	pCi/g						
Uranium-238		0.633	+/-0.507	0.317	+/-0.514	2.00	pCi/g						

RDD 09/18/06 0857 566390 1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	93	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-03B
Sample ID: 171020006

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-04A

Sample ID:

171020007

Matrix:

Soil

Collect Date:

22-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.66	+/-1.06	1.08	+/-1.08	2.00	pCi/g						
Uranium-235/236	U	0.0432	+/-0.328	0.943	+/-0.328	2.00	pCi/g						
Uranium-238		1.27	+/-0.913	0.940	+/-0.932	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	74	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-04A
Sample ID: 171020007

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	----

Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-04B

Sample ID:

171020008

Matrix:

Soil

Collect Date:

22-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.770	+/-0.632	0.815	+/-0.640	2.00	pCi/g		RDD	09/18/06	0857	566390	1
Uranium-235/236	U	0.194	+/-0.439	0.884	+/-0.440	2.00	pCi/g						
Uranium-238	U	0.665	+/-0.597	0.815	+/-0.604	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	88	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

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North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-04B
Sample ID: 171020008

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt.
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-05A
Sample ID: 171020009
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.06	+/-0.716	0.699	+/-0.729	2.00	pCi/g						
Uranium-235/236	U	-0.0781	+/-0.267	0.890	+/-0.267	2.00	pCi/g						
Uranium-238		1.15	+/-0.752	0.754	+/-0.767	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	97	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-05A
Sample ID: 171020009

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	----

Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-05B
Sample ID: 171020010
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.633	+/-0.703	1.10	+/-0.708	2.00	pCi/g	RDL		09/18/06	0857	566390	1
Uranium-235/236	U	0.299	+/-0.458	0.802	+/-0.460	2.00	pCi/g						
Uranium-238	U	0.628	+/-0.643	0.918	+/-0.649	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	87	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-05B

Sample ID: 171020010

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:	NEDS-06A	Project:	NEVA00106
Sample ID:	171020011	Client ID:	NEVA002
Matrix:	Soil		
Collect Date:	22-AUG-06		
Receive Date:	06-SEP-06		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.418	+/-0.574	0.976	+/-0.576	2.00	pCi/g		RDD	09/18/06	0857	566390	1
Uranium-235/236	U	0.096	+/-0.255	0.606	+/-0.255	2.00	pCi/g						
Uranium-238		0.917	+/-0.706	0.769	+/-0.716	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	91	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-06A

Sample ID:

171020011

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using $\pm$ RL. Concentrations are $<5X$ the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Address : 2621 Losce Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-06B
Sample ID: 171020012
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.54	+/-0.821	0.778	+/-0.846	2.00	pCi/g						
Uranium-235/236	U	0.0564	+/-0.302	0.745	+/-0.303	2.00	pCi/g						
Uranium-238	U	0.659	+/-0.569	0.743	+/-0.576	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL- RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	90	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losce Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-06B

Sample ID:

171020012

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using $\pm$ RL. Concentrations are $<5X$ the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-07A
Sample ID: 171020013
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.733	+/-0.751	1.14	+/-0.758	2.00	pCi/g						
Uranium-235/236	U	0.299	+/-0.458	0.802	+/-0.460	2.00	pCi/g						
Uranium-238	U	0.267	+/-0.461	0.862	+/-0.462	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	79	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-07A
Sample ID: 171020013

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using $\pm RL$. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-07B
Sample ID: 171020014
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.847	+/-0.779	1.11	+/-0.787	2.00	pCi/g						
Uranium-235/236	U	-0.211	+/-0.323	1.15	+/-0.324	2.00	pCi/g						
Uranium-238	U	0.714	+/-0.682	0.949	+/-0.688	2.00	pCi/g						

RDD 09/18/06 0857 566390 1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	92	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
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- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

Sample ID: NEDS-07B

171020014

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-08A
Sample ID: 171020015
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.61	+/-0.925	0.973	+/-0.948	2.00	pCi/g						
Uranium-235/236	U	0.149	+/-0.336	0.711	+/-0.337	2.00	pCi/g						
Uranium-238	U	0.673	+/-0.614	0.814	+/-0.620	2.00	pCi/g						

RDD 09/18/06 0857 566390

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	92	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Report Date: September 20, 2006

Project: Environmental Rad Analysis

Client Sample ID:

NEDS-08A

Sample ID:

171020015

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-08B
Sample ID: 171020016
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.39	+/-0.771	0.639	+/-0.791	2.00	pCi/g						
Uranium-235/236	U	0.0545	+/-0.217	0.581	+/-0.217	2.00	pCi/g						
Uranium-238	U	0.527	+/-0.511	0.689	+/-0.516	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	96	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
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- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-08B

Sample ID:

171020016

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-09A
Sample ID: 171020017
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.379	+/-0.534	0.926	+/-0.536	2.00	pCi/g		RDD	09/18/06	0857	566390	
Uranium-235/236	U	0.126	+/-0.283	0.599	+/-0.284	2.00	pCi/g						
Uranium-238		0.931	+/-0.610	0.542	+/-0.622	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	87	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
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- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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 North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-09A
Sample ID: 171020017

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RFD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-09B
Sample ID: 171020018
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/2, 4	U	0.700	+/-0.656	0.930	+/-0.663	2.00	pCi/g						
Uranium-235/236	U	-0.139	+/-0.121	0.810	+/-0.123	2.00	pCi/g						
Uranium-238	U	0.419	+/-0.630	1.12	+/-0.633	2.00	pCi/g						

RDD 09/18/06 0857 566390

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	87	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-09B
Sample ID: 171020018

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	----

Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-10A
Sample ID: 171020019
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	MI
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.544	+/-0.589	0.882	+/-0.593	2.00	pCi/g						
Uranium-235/236	U	-0.0526	+/-0.272	0.885	+/-0.272	2.00	pCi/g						
Uranium-238		0.987	+/-0.708	0.728	+/-0.720	2.00	pCi/g						

RDD 09/18/06 0857 566390

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	95	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
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- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-10A

Sample ID:

171020019

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtu
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

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Address : 2621 Losee Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-10B
Sample ID: 171020020
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.97	+/-1.09	1.00	+/-1.13	2.00	pCi/g						
Uranium-235/236	U	0.218	+/-0.408	0.793	+/-0.409	2.00	pCi/g						
Uranium-238		1.07	+/-0.797	0.791	+/-0.810	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1221	565878

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	91	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-10B

Project: NEVA00106

Sample ID:

171020020

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION							
Project CAU 484	BN Orig: 18502	Send Report to: Mike Krizek	Phone: 295-7396	Fax: 295-6671	M/S: NTS306	Sampling Site: CAU 484 Bechtel NEDS	The samples submitted contain (check): ☐ Hazardous - (H) ☐ Radioactive - (R) ☐ Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.								
Charge Number: 581A12Z5	Turnaround: () Standard - 14 days (H) 28 days Non-rad Env, 45 days Rad Env (H) RUSH Preliminary by: 1 2 7 14 28 (Radiochemical Env)														
Project Manager: Jeffrey Smith	Phone: 295-7775	Fax: 295-7761	M/S: NTS306												
SAMPLE MANAGEMENT INFORMATION															
SDG: (H) (Non-Rad Env) V2743 (Rad Env)															
Samples submitted are associated with a signed Project SOW. ☒ YES () NO															
Analyses entered here agree with the SOW. ☒ YES () NO () N/A															
If not, identify the variation: _____															
Subcontract Lab(s) used for this work: CEL															
ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	QC MS	MSD	Pres - Analysis eg. HCT - VOCs	NAS-A-002	Pay Item, Analysis, Method				
NEDS-06A	011	8/22/06	11:41 A	Soil	1	125 ml			Cool 4C	X					
NEDS-06B	012		11:41 A	Soil	1	125 ml			Cool 4C	X					
NEDS-07A	013		01:42 P	Soil	1	125 ml			Cool 4C	X					
NEDS-07B	014		01:42 P	Soil	1	125 ml			Cool 4C	X					
NEDS-08A	015		01:59 P	Soil	1	125 ml			Cool 4C	X					
NEDS-08B	016		01:59 P	Soil	1	125 ml			Cool 4C	X					
NEDS-09A	017		02:12 P	Soil	1	125 ml			Cool 4C	X					
NEDS-09B	018		02:12 P	Soil	1	125 ml			Cool 4C	X					
NEDS-10A	019		02:49 P	Soil	1	125 ml			Cool 4C	X					
NEDS-10B	020		02:49 P	Soil	1	125 ml			Cool 4C	X					
CUSTODY TRANSFER															
Sampled/Relinquished (print)		Signature		DATE / TIME		Received by (print)		Signature		DATE / TIME					
Rev McNease				08/22/06 09:20		C.A. CASTROBIA				8/31/06					
Prodc Ted Redding				9/3/06 1300		Ted Ex # de Armas				9/5/06					
				9/5/06		K Longt				9/5/06					
										9/6/06 0945					

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-11A
Sample ID: 171024001
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.55	+/-0.688	0.466	+/-0.729	2.00	pCi/g		BXL1	09/16/06	0952	566392	1
Uranium-235/236		0.383	+/-0.336	0.230	+/-0.341	2.00	pCi/g						
Uranium-238		1.13	+/-0.581	0.366	+/-0.606	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1708	565882

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	74	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030---4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-11A

Project:

NEVA00106

Sample ID:

171024001

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-11B
Sample ID: 171024002
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.24	+/-0.628	0.509	+/-0.657	2.00	pCi/g		BXL1	09/16/06	0952	566392	I
Uranium-235/236	U	0.0031	+/-0.168	0.510	+/-0.168	2.00	pCi/g						
Uranium-238		2.32	+/-0.846	0.509	+/-0.919	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1708	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030---4134

Contact: Mr. Ted Redding

Report Date: September 20, 2006

Project: Environmental Rad Analysis

Client Sample ID:

NEDS-11B

Project:

NEVA00106

Sample ID:

171024002

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-12A
Sample ID: 171024003
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.51	+/-0.719	0.640	+/-0.757	2.00	pCi/g	BXL1	09/16/06	0952	566392	1	
Uranium-235/236		0.102	+/-0.230	0.486	+/-0.230	2.00	pCi/g						
Uranium-238		1.15	+/-0.628	0.586	+/-0.653	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1708	565882

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	81	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
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North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-12A
Sample ID: 171024003

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-12B
Sample ID: 171024004
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.42	+/-0.630	0.568	+/-0.667	2.00	pCi/g		BXL1	09/17/06	0914	566392	1
Uranium-235/236	U	0.130	+/-0.224	0.419	+/-0.225	2.00	pCi/g						
Uranium-238		1.46	+/-0.612	0.418	+/-0.653	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	87	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-12B

Project: NEVA00106

Sample ID:

171024004

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-13A
Sample ID: 171024005
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.83	+/-0.760	0.541	+/-0.817	2.00	pCi/g		BXL1	09/17/06	0914	566392	
Uranium-235/236	U	0.217	+/-0.314	0.542	+/-0.316	2.00	pCi/g						
Uranium-238		1.91	+/-0.775	0.541	+/-0.835	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	84	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-13A

Project: NEVA00106

Sample ID:

171024005

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt.
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-13B
Sample ID: 171024006
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.68	+/-0.680	0.422	+/-0.731	2.00	pCi/g		BXL1	09/17/06	0914	566392	1
Uranium-235/236	U	0.00277	+/-0.151	0.457	+/-0.151	2.00	pCi/g						
Uranium-238		1.21	+/-0.596	0.511	+/-0.627	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	77	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-13B
Sample ID: 171024006

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-14A
Sample ID: 171024007
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.91	+/-0.758	0.519	+/-0.819	2.00	pCi/g						
Uranium-235/236	U	-0.0713	+/-0.0699	0.489	+/-0.0708	2.00	pCi/g						
Uranium-238		4.84	+/-1.19	0.574	+/-1.43	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	80	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-14A
Sample ID: 171024007

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-14B
Sample ID: 171024008
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.96	+/-0.757	0.565	+/-0.819	2.00	pCi/g						
Uranium-235/236	U	0.267	+/-0.316	0.492	+/-0.319	2.00	pCi/g						
Uranium-238		8.24	+/-1.50	0.491	+/-1.99	2.00	pCi/g						

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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	96	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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M/S NTS273

North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-14B
Sample ID: 171024008

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-15A
Sample ID: 171024009
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.69	+/-0.634	0.412	+/-0.687	2.00	pCi/g						
Uranium-235/236	U	0.134	+/-0.206	0.360	+/-0.207	2.00	pCi/g						
Uranium-238		1.79	+/-0.643	0.326	+/-0.701	2.00	pCi/g						

BXL1 09/17/06 0914 566392 1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	95	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Address : 2621 Losee Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-15A
Sample ID: 171024009

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt.
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Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-15B
Sample ID: 171024010
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.89	+/-0.696	0.540	+/-0.748	2.00	pCi/g						
Uranium-235/236	U	0.0775	+/-0.175	0.370	+/-0.175	2.00	pCi/g		BXL1	09/17/06	0914	566392	1
Uranium-238		1.66	+/-0.641	0.446	+/-0.684	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	97	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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M/S NTS273

North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-15B
Sample ID: 171024010

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:	NEDS-16A	Project:	NEVA00106
Sample ID:	171024011	Client ID:	NEVA002
Matrix:	Soil		
Collect Date:	23-AUG-06		
Receive Date:	06-SEP-06		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.77	+/-0.703	0.481	+/-0.751	2.00	pCi/g						
Uranium-235/236	U	0.0413	+/-0.255	0.597	+/-0.255	2.00	pCi/g		BXL1	09/17/06	0914	566392	
Uranium-238		1.84	+/-0.700	0.329	+/-0.752	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	90	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-16A

Sample ID:

171024011

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-16B
Sample ID: 171024012
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtu
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.84	+/-0.667	0.372	+/-0.718	2.00	pCi/g						
Uranium-235/236	U	0.215	+/-0.243	0.338	+/-0.245	2.00	pCi/g						
Uranium-238		1.87	+/-0.665	0.292	+/-0.718	2.00	pCi/g						

BXLI 09/17/06 0914 566392 1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	97	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-16B
Sample ID: 171024012

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

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North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-17A
Sample ID: 171024013
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	MT
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.72	+/-0.663	0.360	+/-0.710	2.00	pCi/g						
Uranium-235/236	U	0.133	+/-0.229	0.429	+/-0.230	2.00	pCi/g		BXL1	09/17/06	0914	566392	
Uranium-238		0.992	+/-0.512	0.397	+/-0.532	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	94	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-17A
Sample ID: 171024013

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

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M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-17B
Sample ID: 171024014
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.29	+/-0.690	0.552	+/-0.721	2.00	pCi/g						
Uranium-235/236	U	-0.0181	+/-0.202	0.636	+/-0.202	2.00	pCi/g						
Uranium-238		1.72	+/-0.797	0.596	+/-0.844	2.00	pCi/g						

BXL1 09/17/06 0914 566392 1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	69	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-17B

Sample ID: 171024014

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-18A
Sample ID: 171024015
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.53	+/-0.656	0.458	+/-0.701	2.00	pCi/g		BXL1	09/17/06	0914	566392	I
Uranium-235/236	U	-0.0334	+/-0.0463	0.386	+/-0.0467	2.00	pCi/g						
Uranium-238		1.41	+/-0.626	0.424	+/-0.666	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-18A
Sample ID: 171024015

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-18B

Sample ID:

171024016

Matrix:

Soil

Collect Date:

23-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.46	+/-0.625	0.436	+/-0.667	2.00	pCi/g						
Uranium-235/236	U	0.154	+/-0.273	0.514	+/-0.274	2.00	pCi/g						
Uranium-238		2.02	+/-0.737	0.489	+/-0.805	2.00	pCi/g						

BXLI 09/17/06 0914 566392

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
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- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losce Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-18B
Sample ID: 171024016

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-19A

Sample ID: 171024017

Matrix: Soil

Collect Date: 23-AUG-06

Receive Date: 06-SEP-06

Collector: Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.30	+/-0.600	0.568	+/-0.634	2.00	pCi/g		BXL1	09/17/06	0914	566392	
Uranium-235/236	U	0.0247	+/-0.267	0.615	+/-0.267	2.00	pCi/g						
Uranium-238		0.786	+/-0.547	0.749	+/-0.561	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	88	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-19A
Sample ID: 171024017

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-19B
Sample ID: 171024018
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.99	+/-0.843	0.612	+/-0.909	2.00	pCi/g						
Uranium-235/236	U	0.112	+/-0.253	0.535	+/-0.254	2.00	pCi/g						
Uranium-238		1.96	+/-0.822	0.483	+/-0.889	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	69	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

NEDS-19B

Project: NEVA00106

Sample ID:

171024018

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-20A
Sample ID: 171024019
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.65	+/-0.623	0.427	+/-0.674	2.00	pCi/g		BXL1	09/17/06	0914	566392	1
Uranium-235/236	U	0.250	+/-0.287	0.448	+/-0.290	2.00	pCi/g						
Uranium-238		1.33	+/-0.557	0.380	+/-0.594	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	92	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-20A

Sample ID: 171024019

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact : Mr. Ted Redding
Project : Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-20B
Sample ID: 171024020
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.69	+/-0.690	0.571	+/-0.725	2.00	pCi/g		BXL1	09/17/06	0914	566392	I
Uranium-235/236	U	0.185	+/-0.268	0.463	+/-0.269	2.00	pCi/g						
Uranium-238		1.26	+/-0.598	0.532	+/-0.621	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1709	565882

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	80	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: NEDS-20B

Sample ID: 171024020

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtc
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION	
Project: CAI 484	BN Org# 13502	Send Report to: Mike Krause	Phone: 295-7396	Fax: 295-6671	M/S: NTS306
Charge Number: 5B1A12Z5		Turnaround: () Standard - 14 days III, 28 days Non-rad Env., 45 days Rad Env. (X) RUSH Preliminary by: (III)	1 2 7 14 28 (non-Rad Env.) 1 7 14 28 (Radiological Env.)		
Project Manager: Jeffrey Smith					
Phone: 295-7773	Fax: 295-7761	M/S: NTS306			
Sampling Site: CAI 484 <u>Pepper</u> <u>NEDS</u> The samples submitted contain (check). () Hazardous - (list) _____ () Radioactive - (list) _____ () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.					

SAMPLE MANAGEMENT INFORMATION

SDC: 1710241/ (III) (Non-Rad Env) V2743 (Rad Env)

 Samples submitted are associated with a signed Project SOW. (X) YES () NO
 Analyses entered here agree with the SOW. (X) YES () NO () N/A

If not, identify the variation:

Subcontract Lab(s) used for this work:

BCL

DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	QC MS	MSD	Pres - Analysis eg. HCl - VOCs	NAS-A-002	Pay Item, Analysis, Method
NEDS-11A	8/21/06	03:14P	Soil	1	125 ml				Cool 4C	X	Iso Uranium
NEDS-11B		03:14P	Soil	1	125 ml				Cool 4C	X	
NEDS-12A		03:25P	Soil	1	125 ml				Cool 4C	X	
NEDS-12B		03:25P	Soil	1	125 ml				Cool 4C	X	
NEDS-13A		03:35P	Soil	1	125 ml				Cool 4C	X	
NEDS-13B		03:35P	Soil	1	125 ml				Cool 4C	X	
NEDS-14A		03:46P	Soil	1	125 ml				Cool 4C	X	
NEDS-14B		03:46P	Soil	1	125 ml				Cool 4C	X	
NEDS-15A		03:58P	Soil	1	125 ml				Cool 4C	X	
NEDS-15B		03:58P	Soil	1	125 ml				Cool 4C	X	

CUSTODY TRANSFER

Sampled/Retained (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
Ben McNeel		08/21/06 09:20	(J.A. CASTRO)		8/31/06 09:20
James Ted Reading		08/31/06 1300	Fed Ex		9/13/06
		9/5/06	K. W. Knight		9/10/06 09:45

PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION	
Project: CAU 484	BN Orig: 18502	Send Report to: Mike Kruze	Phone: 295-7396	Fax: 295-6671	M/S: NTS306
Charge Number: 381A1275		Turnaround: () Standard - 14 days (II), 28 days Non-Rad Env; 45 days Rad Env (III) (X) RUSH Preliminary by: <u>1</u> <u>2</u> <u>7</u> <u>14</u> <u>28</u> (Radiological Env)			
Project Manager: Jeffrey Smith					
Phone: 295-7775	Fax: 295-7761	M/S: NTS306			
Sampling Site: <u>CAU 484 Pad 4 NEDS</u> The samples submitted contain (check): () Hazardous - (list) _____ () Radioactive - (list) _____ () Unknown contamination. If known, identify _____ applicable regulations and allow for the safe handling of the sample materials.					

SAMPLE MANAGEMENT INFORMATION		Pay Item, Analysis, Method	
SDG: <u>1716241</u> (III)	(Non-Rad Env) <u>V22743</u> (Rad Env)	NAS-A-002	
Samples submitted are associated with a signed Project SOW. ☒ YES () NO			
Analyses entered here agree with the SOW. ☒ YES () NO () N/A			
If not, identify the variation: _____			
Subcontract Lab(s) used for this work: <u>DEL</u>			

ID/DESCRIPTION	SAMPLE TIME	MATRIX	CONTAINER #	Est. Vol	MD	MS	MSD	eg: HCL - VOCs	Pres - Analysis	Iso Uranium
11 NEDS-16A	8/23/06 08:48A	Soil	1	125 ml					Cool 4C	X
12 NEDS-16B	8/23/06 08:48A	Soil	1	125 ml					Cool 4C	X
13 NEDS-17A	8/23/06 08:58A	Soil	1	125 ml					Cool 4C	X
14 NEDS-17B	8/23/06 08:58A	Soil	1	125 ml					Cool 4C	X
15 NEDS-18A	8/23/06 09:09A	Soil	1	125 ml					Cool 4C	X
16 NEDS-18B	8/23/06 09:09A	Soil	1	125 ml					Cool 4C	X
17 NEDS-19A	8/23/06 09:17A	Soil	1	125 ml					Cool 4C	X
18 NEDS-19B	8/23/06 09:17A	Soil	1	125 ml					Cool 4C	X
19 NEDS-20A	8/23/06 09:27A	Soil	1	125 ml					Cool 4C	X
20 NEDS-20B	8/23/06 09:27A	Soil	1	125 ml					Cool 4C	X

CUSTODY TRANSFER		DATE / TIME		Signature	
Sampled/Relinquished (print)	Signature	Received by (print)	Signature	DATE / TIME	
BEN MCCABE		8/23/06 09:20	(J) CASTANEDA	8/31/06 09:20	
for the Ted Redding		8/31/06 1300	Ted Ek	8/31/06 1300	
		8/5/06		9/10/06 09:05	

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID:	NEDS-21A	Project:	NEVA00106
Sample ID:	171025001	Client ID:	NEVA002
Matrix:	Soil		
Collect Date:	23-AUG-06		
Receive Date:	06-SEP-06		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.21	+/-0.593	0.706	+/-0.609	2.00	pCi/g						
Uranium-235/236	U	0.195	+/-0.286	0.499	+/-0.286	2.00	pCi/g	TC1	09/22/06	1611	566393	1	
Uranium-238	U	0.264	+/-0.372	0.649	+/-0.374	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	89	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- *: A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-21A
Sample ID: 171025001

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd
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UI Gamma Spectroscopy—Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030---4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-21B
Sample ID: 171025002
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		3.19	+/-1.31	1.35	+/-1.36	2.00	pCi/g						
Uranium-235/236	U	0.815	+/-0.753	1.04	+/-0.759	2.00	pCi/g						
Uranium-238	U	0.660	+/-0.806	1.35	+/-0.810	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	79	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-21B
Sample ID: 171025002

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-22A
Sample ID: 171025003
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.14	+/-0.752	0.496	+/-0.781	2.00	pCi/g						
Uranium-235/236	U	0.241	+/-0.521	0.987	+/-0.522	2.00	pCi/g						
Uranium-238		1.36	+/-0.661	0.717	+/-0.674	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	88	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-22A
Sample ID: 171025003

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-22B
Sample ID: 171025004
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.00	+/-1.08	1.34	+/-1.09	2.00	pCi/g						
Uranium-235/236		0.991	+/-0.687	0.372	+/-0.694	2.00	pCi/g						
Uranium-238	U	0.902	+/-0.708	0.960	+/-0.714	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	85	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-22B
Sample ID: 171025004

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-23A
Sample ID: 171025005
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.15	+/-1.08	1.53	+/-1.09	2.00	pCi/g	TC1		09/20/06	1820	566393	1
Uranium-235/236	U	0.356	+/-0.668	1.30	+/-0.670	2.00	pCi/g						
Uranium-238	U	0.440	+/-0.780	1.47	+/-0.783	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	77	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-23A

Sample ID: 171025005

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-23B
Sample ID: 171025006
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RI	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.76	+/-1.06	0.984	+/-1.10	2.00	pCi/g						
Uranium-235/236	U	0.330	+/-0.482	0.842	+/-0.483	2.00	pCi/g		TC1	09/22/06	1612	566393	1
Uranium-238		1.96	+/-0.955	1.09	+/-0.975	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	70	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
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- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-23B
Sample ID: 171025006

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-24A
Sample ID: 171025007
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.18	+/-1.35	1.15	+/-1.40	2.00	pCi/g						
Uranium-235/236	U	0.328	+/-0.740	1.57	+/-0.742	2.00	pCi/g		TC1	09/20/06	1820	566393	1
Uranium-238	U	0.887	+/-0.924	1.27	+/-0.934	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	61	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-24A
Sample ID: 171025007

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID:	NEDS-24B	Project:	NEVA00106
Sample ID:	171025008	Client ID:	NEVA002
Matrix:	Soil		
Collect Date:	23-AUG-06		
Receive Date:	06-SEP-06		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.28	+/-1.25	1.36	+/-1.27	2.00	pCi/g						
Uranium-235/236	U	0.704	+/-0.846	1.35	+/-0.849	2.00	pCi/g	TCI	09/22/06	1612	566393	1	
Uranium-238	U	0.997	+/-0.926	1.36	+/-0.932	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	69	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-24B
Sample ID: 171025008

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-25A
Sample ID: 171025009
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.63	+/-0.797	0.914	+/-0.814	2.00	pCi/g						
Uranium-235/236	U	0.459	+/-0.540	0.879	+/-0.542	2.00	pCi/g						
Uranium-238		1.11	+/-0.600	0.568	+/-0.610	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	89	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-25A
Sample ID: 171025009

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-25B
Sample ID: 171025010
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.00	+/-1.15	1.80	+/-1.16	2.00	pCi/g		TC1	09/20/06	1820	566393	1
Uranium-235/236	U	0.368	+/-0.830	1.75	+/-0.831	2.00	pCi/g						
Uranium-238	U	1.29	+/-1.23	1.72	+/-1.25	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	96	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID:

NEDS-25B

Sample ID:

171025010

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID:	NEDS-26A	Project:	NEVA00106
Sample ID:	171025011	Client ID:	NEVA002
Matrix:	Soil		
Collect Date:	23-AUG-06		
Receive Date:	06-SEP-06		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.03	+/-1.07	1.47	+/-1.08	2.00	pCi/g	TC1		09/20/06	1820	566393	1
Uranium-235/236	U	0.678	+/-1.04	1.82	+/-1.04	2.00	pCi/g						
Uranium-238		1.69	+/-1.35	1.58	+/-1.37	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	93	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID:

NEDS-26A

Sample ID:

171025011

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-26B
Sample ID: 171025012
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.08	+/-1.20	1.87	+/-1.21	2.00	pCi/g		TC1	09/20/06	1820	566393	1
Uranium-235/236	U	0.419	+/-0.785	1.53	+/-0.787	2.00	pCi/g						
Uranium-238	U	0.624	+/-0.904	1.56	+/-0.908	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-26B
Sample ID: 171025012

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-27A
Sample ID: 171025013
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.24	+/-0.853	1.08	+/-0.862	2.00	pCi/g						
Uranium-235/236	U	0.417	+/-0.609	1.06	+/-0.610	2.00	pCi/g						
Uranium-238	U	1.01	+/-0.908	1.38	+/-0.914	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	91	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Certificate of Analysis

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M/S NTS273

North Las Vegas, Nevada 89030---4134

Contact: Mr. Ted Redding

Report Date: September 26, 2006

Project: Environmental Rad Analysis

Client Sample ID: NEDS-27A
Sample ID: 171025013

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL .
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

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Address : 2621 Losce Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-27B
Sample ID: 171025014
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.54	+/-0.524	0.336	+/-0.551	2.00	pCi/g						
Uranium-235/236	U	0.380	+/-0.320	0.416	+/-0.322	2.00	pCi/g						
Uranium-238		0.835	+/-0.413	0.421	+/-0.423	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	91	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-27B
Sample ID: 171025014

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-28A
Sample ID: 171025015
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.86	+/-0.920	0.561	+/-0.973	2.00	pCi/g						
Uranium-235/236	U	0.363	+/-0.435	0.694	+/-0.437	2.00	pCi/g	TC1	09/23/06	1409	566393	I	
Uranium-238		1.54	+/-0.659	0.220	+/-0.680	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	88	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-28A
Sample ID: 171025015

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-28B
Sample ID: 171025016
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.73	+/-1.02	0.843	+/-1.06	2.00	pCi/g						
Uranium-235/236	U	0.544	+/-0.564	0.832	+/-0.567	2.00	pCi/g						
Uranium-238		1.23	+/-0.732	0.843	+/-0.744	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	87	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

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- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID:

NEDS-28B

Project:

NEVA00106

Sample ID:

171025016

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-29A
Sample ID: 171025017
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.24	+/-0.927	0.827	+/-0.960	2.00	pCi/g						
Uranium-235/236	U	0.427	+/-0.591	1.02	+/-0.593	2.00	pCi/g	TC1	09/22/06	1611	566393	1	
Uranium-238	U	0.777	+/-0.655	0.954	+/-0.661	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	76	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID:

NEDS-29A

Sample ID:

171025017

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
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North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-29B
Sample ID: 171025018
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.94	+/-1.39	1.43	+/-1.42	2.00	pCi/g						
Uranium-235/236	U	0.221	+/-0.585	1.39	+/-0.586	2.00	pCi/g	TC1		09/20/06	1820	566393	1
Uranium-238	U	1.18	+/-1.15	1.55	+/-1.16	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1306	565885

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	91	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

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- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-29B
Sample ID: 171025018

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

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Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-30A
Sample ID: 171025019
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.04	+/-0.750	0.611	+/-0.783	2.00	pCi/g						
Uranium-235/236	U	0.473	+/-0.535	0.872	+/-0.538	2.00	pCi/g						
Uranium-238		1.21	+/-0.573	0.488	+/-0.588	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1307	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	90	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-30A
Sample ID: 171025019

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-30B
Sample ID: 171025020
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.81	+/-0.696	0.209	+/-0.724	2.00	pCi/g						
Uranium-235/236	U	0.172	+/-0.337	0.658	+/-0.338	2.00	pCi/g						
Uranium-238		0.835	+/-0.473	0.209	+/-0.482	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1307	565885

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	84	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

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- < Result is less than value reported
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- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Company : Bechtel Nevada Corp.

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID:

NEDS-30B

Sample ID:

171025020

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAU 484	BN Orig: B502	Send Report to: Mike Kruze		Phone: 295-7396	Fax: 295-6671	M/S: NTS306	Sampling Site: CAU 484 Path NEDS				
Charge Number: 5H1A1223				Turnaround: () Standard 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env)				The samples submitted contain (check): () Hazardous - (list) () Radioactive - (list) () Unknown contamination . If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			
Project Manager: Jeffrey Smith											
Phone: 295-7775	Fax: 295-7761	M/S: NTS306									

SAMPLE MANAGEMENT INFORMATION									
Subcontract Lab(s) used for this work:	CELL								
Subcontract Lab(s) used for this work:	CELL								
Subcontract Lab(s) used for this work:	CELL								

ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	#	Exc. Vol	QC			Pres - Analysis eg. HCL - VOCs	Iso Uranium	Pay Item, Analysis, Method				
						MSD	MS	MSD			NAS-A-002				
NEDS-21A	8/23/06	09:45A	Soil	1	125 ml					Cool 4C	X				
NEDS-21B		09:45A	Soil	1	125 ml					Cool 4C	X				
NEDS-22A		09:57A	Soil	1	125 ml					Cool 4C	X				
NEDS-22B		09:57A	Soil	1	125 ml					Cool 4C	X				
NEDS-23A		10:06A	Soil	1	125 ml					Cool 4C	X				
NEDS-23B		10:06A	Soil	1	125 ml					Cool 4C	X				
NEDS-24A		10:25A	Soil	1	125 ml					Cool 4C	X				
NEDS-24B		10:25A	Soil	1	125 ml					Cool 4C	X				
NEDS-25A		10:35A	Soil	1	125 ml					Cool 4C	X				
NEDS-25B		10:35A	Soil	1	125 ml					Cool 4C	X				

CHAIN OF CUSTODY TRANSFER					
Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
Ben McGee		08/21/06 09:20	C.D. CASTRONEVA		8/21/06 09:30
for CDC Ted Redding		8/23/06 1300	Ted Redding		8/23/06 1300
		9/5/06	Wong		9/5/06

Retention Code: ENV 5.c(1)

BN-0732 (04/02)

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAU 484		BN Org#: B502		Send Report to: Mike Krutze		Phone: 295-7396		Fax: 295-6671		M/S: NTS306	
Charge Number: 5B1A1225		Project Manager: Jeffrey Smith		Turnaround: () Standard - 14 days III, 28 days Non-rad Env, 45 days Rad Env (III)		(X) RUSH Preliminary by: _____		1 - 2 - 7 - 14 - 28 (Radiological Env)		Sampling Site: CAU 484 Pad 4 NE DS	
Phone: 295-7775		Fax: 295-7761		M/S: NTS306						The samples submitted contain (check): () Hazardous - (list) _____ () Radioactive - (list) _____ () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.	
<p>SLUG: <u>171025/</u> (III) (Non-Rad Env) <u>V2743</u> (Rad Env)</p> <p>Samples submitted are associated with a signed Project SOW. (X) YES () NO</p> <p>Analyses entered here agree with the SOW. (X) YES () NO () N/A</p> <p>If not, identify the variation: _____</p> <p>Subcontract Lab(s) used for this work: <u>66C</u></p>											
SAMPLE MANAGEMENT INFORMATION											
ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC MS	MSD	Pres - Analysis eg. HCl - VOCs	Pay Item, Analysis, Method		
11 NEDS-26A	8/23/06	10:45 A	Soil	1	125 ml			Cool 4C	X		
12 NEDS-26B		10:45 A	Soil	1	125 ml			Cool 4C	X		
13 NEDS-27A		12:03 P	Soil	1	125 ml			Cool 4C	X		
14 NEDS-27B		12:03 P	Soil	1	125 ml			Cool 4C	X		
15 NEDS-28A		12:14 P	Soil	1	125 ml			Cool 4C	X		
16 NEDS-28B		12:14 P	Soil	1	125 ml			Cool 4C	X		
17 NEDS-29A		12:23 P	Soil	1	125 ml			Cool 4C	X		
18 NEDS-29B		12:23 P	Soil	1	125 ml			Cool 4C	X		
19 NEDS-30A		12:32 P	Soil	1	125 ml			Cool 4C	X		
20 NEDS-30B		12:32 P	Soil	1	125 ml			Cool 4C	X		
<p>CHAIN OF CUSTODY</p> <p>Sample/Relinquished (print) _____ Signature _____ DATE/TIME _____</p> <p>Received by (print) _____ Signature _____ DATE/TIME _____</p>											

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Certificate of Analysis

Company : Bechtel Nevada Corp.
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M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID:	NEDS-31A	Project:	NEVA00106
Sample ID:	171009001	Client ID:	NEVA002
Matrix:	Soil		
Collect Date:	23-AUG-06		
Receive Date:	06-SEP-06		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		3.95	+/-1.19	0.822	+/-1.27	2.00	pCi/g						
Uranium-235/236		0.955	+/-0.624	0.318	+/-0.633	2.00	pCi/g	TC1		09/21/06	1343	566386	1
Uranium-238		1.46	+/-0.841	1.06	+/-0.857	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	84	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
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- A The TIC is a suspected aldol-condensation product
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- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-31A
Sample ID: 171009001

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtc
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UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-31B
Sample ID: 171009002
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.03	+/-0.953	1.20	+/-0.963	2.00	pCi/g						
Uranium-235/236	U	0.426	+/-0.680	1.16	+/-0.682	2.00	pCi/g						
Uranium-238		2.16	+/-1.34	1.29	+/-1.37	2.00	pCi/g						
								TCI	09/20/06	0932	566386	1	

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	89	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
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- UI Gamma Spectroscopy—Uncertain identification
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Address : 2621 Losee Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-31B
Sample ID: 171009002

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-32A
Sample ID: 171009003
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		4.45	+/-1.54	0.417	+/-1.63	2.00	pCi/g						
Uranium-235/236		0.860	+/-0.754	0.516	+/-0.760	2.00	pCi/g						
Uranium-238		5.71	+/-1.79	1.06	+/-1.91	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified
3	DOE EML HASL-300, U-02-RC Modified
4	DOE EML HASL-300, U-02-RC Modified
5	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	53	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losce Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-32A
Sample ID: 171009003

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy---Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-32B
Sample ID: 171009004
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		14.6	+/-6.09	1.99	+/-6.53	2.00	pCi/g						
Uranium-235/236		4.10	+/-3.59	2.46	+/-3.65	2.00	pCi/g						
Uranium-238		7.29	+/-4.31	1.99	+/-4.47	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified
3	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	49	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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North Las Vegas, Nevada 89030---4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-32B
Sample ID: 171009004

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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UI Gamma Spectroscopy—Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-33A
Sample ID: 171009005
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.26	+/-1.20	1.67	+/-1.21	2.00	pCi/g						
Uranium-235/236	U	0.502	+/-0.992	1.96	+/-0.994	2.00	pCi/g	TC1	09/20/06	0932	566386	1	
Uranium-238	U	0.740	+/-0.904	1.38	+/-0.910	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	81	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-33A
Sample ID: 171009005

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-33B
Sample ID: 171009006
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	MT
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		3.49	+/-1.06	0.608	+/-1.12	2.00	pCi/g						
Uranium-235/236		1.08	+/-0.638	0.295	+/-0.649	2.00	pCi/g						
Uranium-238		1.59	+/-0.730	0.608	+/-0.751	2.00	pCi/g						
								TC1	09/21/06	1343	566386		

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	92	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-33B
Sample ID: 171009006

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-34A
Sample ID: 171009007
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		3.32	+/-1.63	1.11	+/-1.70	2.00	pCi/g						
Uranium-235/236	U	0.438	+/-0.699	1.19	+/-0.702	2.00	pCi/g		TC1	09/20/06	0932	566386	1
Uranium-238	U	0.306	+/-0.574	1.11	+/-0.575	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	89	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

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- < Result is less than value reported
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- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-34A
Sample ID: 171009007

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-34B
Sample ID: 171009008
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.41	+/-1.56	2.30	+/-1.58	2.00	pCi/g						
Uranium-235/236	U	-0.207	+/-0.287	2.39	+/-0.289	2.00	pCi/g						
Uranium-238	U	0.964	+/-1.20	1.67	+/-1.20	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	77	(25%-125%)

Notes:

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- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-34B
Sample ID: 171009008

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-35A
Sample ID: 171009009
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.88	+/-1.51	1.60	+/-1.54	2.00	pCi/g						
Uranium-235/236	U	0.271	+/-0.719	1.71	+/-0.721	2.00	pCi/g		TC1	09/20/06	0932	566386	1
Uranium-238	U	0.878	+/-1.16	1.90	+/-1.17	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	76	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

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- < Result is less than value reported
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- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-35A
Sample ID: 171009009

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-35B
Sample ID: 171009010
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.38	+/-1.71	1.47	+/-1.74	2.00	pCi/g						
Uranium-235/236	U	0.759	+/-1.05	1.14	+/-1.06	2.00	pCi/g						
Uranium-238	U	1.46	+/-1.35	1.47	+/-1.37	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMBI	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	96	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
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- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-35B
Sample ID: 171009010

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Address : 2621 Losee Road
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North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID:	NEDS-36A	Project:	NEVA00106
Sample ID:	171009011	Client ID:	NEVA002
Matrix:	Soil		
Collect Date:	23-AUG-06		
Receive Date:	06-SEP-06		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		0.804	+/-0.590	0.770	+/-0.597	2.00	pCi/g						
Uranium-235/236	U	0.298	+/-0.585	1.10	+/-0.585	2.00	pCi/g		TCI	09/21/06	1343	566386	1
Uranium-238		1.45	+/-0.705	0.615	+/-0.724	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	71	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030---4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID:

NEDS-36A

Sample ID:

171009011

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
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UI Gamma Spectroscopy--Uncertain identification

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-36B
Sample ID: 171009012
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.03	+/-1.14	1.67	+/-1.15	2.00	pCi/g						
Uranium-235/236	U	1.10	+/-1.25	1.74	+/-1.26	2.00	pCi/g						
Uranium-238	U	0.457	+/-0.902	1.78	+/-0.904	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	82	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-36B
Sample ID: 171009012

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-37A
Sample ID: 171009013
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.29	+/-0.850	0.246	+/-0.887	2.00	pCi/g						
Uranium-235/236	U	0.709	+/-0.596	0.775	+/-0.601	2.00	pCi/g	TCI	09/21/06	1343	566386	1	
Uranium-238		1.15	+/-0.601	0.246	+/-0.614	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	87	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-37A
Sample ID: 171009013

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

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M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-37B
Sample ID: 171009014
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		3.06	+/-1.02	0.845	+/-1.08	2.00	pCi/g						
Uranium-235/236		1.51	+/-0.741	0.283	+/-0.761	2.00	pCi/g						
Uranium-238		2.37	+/-0.834	0.229	+/-0.878	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	59	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-37B
Sample ID: 171009014

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-38A
Sample ID: 171009015
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.53	+/-0.989	0.717	+/-1.03	2.00	pCi/g						
Uranium-235/236	U	0.579	+/-0.681	1.11	+/-0.684	2.00	pCi/g						
Uranium-238		1.78	+/-0.881	0.898	+/-0.903	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	69	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Certificate of Analysis

Company : Bechtel Nevada Corp.
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-38A
Sample ID: 171009015

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-38B
Sample ID: 171009016
Matrix: Soil
Collect Date: 23-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.69	+/-0.713	0.648	+/-0.738	2.00	pCi/g						
Uranium-235/236		0.919	+/-0.543	0.251	+/-0.553	2.00	pCi/g						
Uranium-238		1.55	+/-0.635	0.203	+/-0.659	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0901	565866

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	77	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Certificate of Analysis

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 29, 2006

Client Sample ID: NEDS-38B
Sample ID: 171009016

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losec Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID:	NEDS-R1	Project:	NEVA00106
Sample ID:	171015001	Client ID:	NEVA002
Matrix:	Water		
Collect Date:	23-AUG-06		
Receive Date:	06-SEP-06		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Liquid 2pCi/L</i>													
Uranium-233/234		2.01	+/-1.61	1.01	+/-1.63	2.00	pCi/L						
Uranium-235/236	U	0.619	+/-1.22	2.43	+/-1.22	2.00	pCi/L	DDR1	09/25/06	1026	571164	2	
Uranium-238	U	-0.00335	+/-0.807	2.36	+/-0.807	2.00	pCi/L						

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified
3	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Liquid 2pCi/L	35	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 26, 2006

Client Sample ID: NEDS-R1
Sample ID: 171015001

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on an "as received" basis.

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAU 484	BS Orig: B302	Send Report to: Mike Krutic	Phone: 295-7396	Fax: 295-6671	A/S: NTS306	Sampling Site: CAU 484 <u>NEDS</u>	The samples submitted contain (check): ☐ Hazardous - (list) _____ ☐ Radioactive - (list) _____ ☐ Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.				
Charge Number: SH1A12Z5	Phone: 295-7775	Fax: 295-7761	M/S: NTS306	Turnaround: () Standard - 14 days III, 28 days Non-rad Env, 45 days Rad Env ☒ RUSH Preliminary by: <u>1 2 7 14</u> (II) 1 7 14 28 (Radiological Env)							
Project Manager: Jeffrey Smith											
SAMPLE MANAGEMENT INFORMATION											
SOW: _____ (IH) _____ (Non-Rad Env) <u>V2743</u> (Rad Env)											
Samples submitted are associated with a signed Project SOW. ☒ YES () NO () N/A											
Analyses entered here agree with the SOW. ☒ YES () NO () N/A											
If not, identify the variation: _____											
Subcontract Lab(s) used for this work: <u>CEL</u>											
DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est Vol	QC	MSD	Pres - Analysis	Pay Item, Analysis, Method		
NEDS-31A	8/23/06	12:41 P	Soil	1	125 ml			Cool 4C	NAS-A-002		
NEDS-31B		12:41 P	Soil	1	125 ml			Cool 4C	X		
NEDS-32A		12:51 P	Soil	1	125 ml			Cool 4C	X		
NEDS-32B		12:51 P	Soil	1	125 ml			Cool 4C	X		
NEDS-33A		01:11 P	Soil	1	125 ml			Cool 4C	X		
NEDS-33B		01:11 P	Soil	1	125 ml			Cool 4C	X		
NEDS-34A		01:21 P	Soil	1	125 ml			Cool 4C	X		
NEDS-34B		01:21 P	Soil	1	125 ml			Cool 4C	X		
NEDS-35A		01:32 P	Soil	1	125 ml			Cool 4C	X		
NEDS-35B		01:32 P	Soil	1	125 ml			Cool 4C	X		
CUSTODY TRANSFER											
Sampled/Relinquished (print)	Signature:	DATE / TIME	Received by (print)	Signature	DATE / TIME						
Ben McGehee		8/23/06 09:20	C.D. CASTANEDA		8/5/06 09:20						
Provide Ted Redding		8/27/06 1300	Ted Ex		8/5/06 09:20						
		9/5/06	X. V. D. N. J. A. T.		9/10/06 09:20						

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAU 484		BN Org#: B502		Send Report to: Mike Krutze		Sampling Site: <u>CAU 484 Bedrock NEDS</u>		The samples submitted contain (check):			
Change Number: 581A1225		Phone: 295-7396		Fax: 295-6671		M/S: NTS306		☐ Hazardous - (list) _____ ☐ Radioactive - (list) _____ ☐ Unknown contamination. If known, identify _____ contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			
Project Manager: Jeffrey Smith		Turnaround: () Standard - 14 days (I) 28 days (Non-Rad Env), 45 days (Rad Env) (II) Preliminary by: <u>X</u> RUSH		M/S: NTS306							
Phone: 295-7775		Fax: 295-7761		M/S: NTS306							
SAMPLE MANAGEMENT INFORMATION SD: _____ (II) _____ (Non-Rad Env) <u>V2243</u> (Rad Env) Samples submitted are associated with a signed Project SOW. <u>X</u> YES () NO Analyses entered here agree with the SOW. <u>X</u> YES () NO () N/A If not, identify the variation: _____ Subcontract Lab(s) used for this work: <u>BEL</u>											
ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC MID	MSD	Pres - Analysis eg. HCT - VOCs	Pay Item, Analysis, Method		
NEDS-36A	8/23/06	01:41 P	Soil	1	125 ml		X	Cool 4C	X		
NEDS-36B		01:41 P	Soil	1	125 ml			Cool 4C	X		
NEDS-37A		10:20 A	Soil	1	125 ml			Cool 4C	X		
NEDS-37B		10:20 A	Soil	1	125 ml			Cool 4C	X		
NEDS-38A		05:00 P	Soil	1	125 ml			Cool 4C	X		
NEDS-38B		05:00 P	Soil	1	125 ml			Cool 4C	X		
NEDS-39A			Soil	1	125 ml			Cool 4C	X		
NEDS-39B			Soil	1	125 ml			Cool 4C	X		
NEDS-40A			Soil	1	125 ml			Cool 4C	X		
NEDS-40B			Soil	1	125 ml			Cool 4C	X		
CT/STUDY TRANSFER Sampled/Relinquished (print) _____ Signature _____ DATE / TIME _____ Received by (print) _____ Signature _____ DATE / TIME _____											
Ben McGee for edc Test Relinquish 8/31/06 09:20 8/31/06 1300 9/5/06 C.D. CASTANEDA for edc & see Attachment 9/5/06 8/31/06 09:20 8/31/06 1300 9/16/06 0945

ANALYTICAL LABORATORY
SERVICES REQUEST AND CHAIN OF CUSTODY RECORD

1710151/ Page 9 of 18

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAU 484		UN Orig#: B502		Send Report to: Mike Krutz				Sampling Site: CAU 484 2600 NEDS		The samples submitted contain (check):	
Charge Number: 5B1A1275		Phone: 295-7396		Fax: 295-4671		M/S: NTS306		() Hazardous - (list)			
Project Manager: Jeffrey Smith		Turnaround		() Standard - 14 days TLT, 28 days Non-rad Env, 45 days Rad Env				() Radioactive - (list)			
Phone: 295-7775		Fax: 295-7761		M/S: NTS306				() Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			
SAMPLE MANAGEMENT INFORMATION											
SID: (III) (Non-Rad Env) <u>V2743</u> (Rad Env)											
Samples submitted are associated with a signed Project SOW. ☒ YES () NO											
Analyses entered here agree with the SOW. ☒ YES () NO () N/A											
If not, identify the variation: <u>66C</u>											
Subcontract Lab(s) used for this work: <u>66C</u>											
ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MLD	MS	MSD	eg: HCL - VOCs	Pres - Analysis	NAS-A-013
NEDS-RI	8/23/06	05:00 P	Water	1	1 L					HNO3	X Iso Uranium
<div>Signature: <u>Ben McGehee</u> Date: <u>8/31/06</u> Time: <u>09:20</u></div> <div>Signature: <u>K. Winkler</u> Date: <u>9/5/06</u> Time: <u>09:30</u></div>											

**INVESTIGATION (GEOPROBE[®])
SOIL SAMPLE ANALYTICAL RESULTS**

**CAS TA-52-006-TAPL
DEPLETED URANIUM SITE**

Chemical Data

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

01B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: 01A
Matrix (soil/water): SOIL Lab Sample ID: 0609L861-002
Level (low/med): LOW Date Received: 09/01/06
% Solids: 95.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
DUS-01B

FORM I - IN

000000023

1
INORGANIC ANALYSES DATA SHEET

02A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: 01A
Matrix (soil/water): SOIL Lab Sample ID: 0609L861-003
Level (low/med): LOW Date Received: 09/01/06
% Solids: 92.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

DUS-02A

FORM I - IN

0000000024

1
INORGANIC ANALYSES DATA SHEET

02B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	02B
Lab Code: LVLI	Case No.: DUS	
Matrix (soil/water): SOIL	SAS No.:	SDG No.: 01A
Level (low/med): LOW	Lab Sample ID: 0609L861-004	
% Solids: 90.2	Date Received: 09/01/06	

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
DUS-02B

FORM I - IN

000000025

1
INORGANIC ANALYSES DATA SHEET

03A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	03A
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: 01A
Level (low/med): LOW		Lab Sample ID: 0609L861-005
% Solids: 94.4		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-03A

FORM I - IN

000000026

1

INORGANIC ANALYSES DATA SHEET

03B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

000000027

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: LIONVILLE LABORATORY

Contract: 60052

04A

Lab Code: LVLI

Case No.: DUS

SAS No. :

SDG No.: 01A

Matrix (soil/water): SOIL

Lab Sample ID: 0609L861-007

Level (low/med): LOW

Date Received: 09/01/06

% Solids: 95.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-04A

1
INORGANIC ANALYSES DATA SHEET

04B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	04B
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: 01A
Level (low/med): LOW		Lab Sample ID: 0609L861-008
% Solids: 91.3		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

UJ
J
R

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-04B

FORM I - IN

000000029

1

EPA SAMPLE NO.

Lab Name: LIONVILLE LABORATORY	Contract: 60052	05A
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: 01A
Level (low/med): LOW		Lab Sample ID: 0609L861-009
% Solids: 93.4		Date Received: 09/01/06

[illegible]

Comments:
DUS-05A

0000000030

1
INORGANIC ANALYSES DATA SHEET

05B

SDG No.: 01A
e ID: 0609L861-010
ived: 09/01/06

[illegible]

VALIDATION
QUALIFIER

UJ
R

Texture: _____
Artifacts: _____

Comments:
DUS-05B

1
INORGANIC ANALYSES DATA SHEET

06A

% Solids: 93.8

[illegible]

VALIDATION
QUALIFIER

$$\frac{VJ}{J}$$

Texture: _____
Artifacts: _____

Comments:
DUS-06A

1
INORGANIC ANALYSES DATA SHEET

06B

Lab Name: LIONVILLE LABORATORY _____ Contract: 60052 _____
Lab Code: LVLI _____ Case No.: DUS _____ SAS No.: _____
Matrix (soil/water): SOIL _____ Lab Sample ID: 0609L861-012
Level (low/med): LOW _____ Date Received: 09/01/06
% Solids: 94.3 _____

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-06B

1
INORGANIC ANALYSES DATA SHEET

07A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: 01A
Matrix (soil/water): SOIL Lab Sample ID: 0609L861-013
Level (low/med): LOW Date Received: 09/01/06
% Solids: 95.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
DUS-07A

FORM I - IN

000000034

1
INORGANIC ANALYSES DATA SHEET

07B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	07B
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: 01A
Level (low/med): LOW		Lab Sample ID: 0609L861-014
% Solids: 91.6		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

$$\begin{array}{c} VJ \\ J \\ R \end{array}$$

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-07B

FORM I - IN

000000035

1
INORGANIC ANALYSES DATA SHEET

08A

SDG No.: 01A
e ID: 0609L861-015
ived: 09/01/06

[illegible]

VALIDATION
QUALIFIER

$$\begin{array}{c} U \\ J \\ R \end{array}$$

Texture: _____
Artifacts: _____

Comments:
DUS-08A

FORM I - IN

000000036

1
INORGANIC ANALYSES DATA SHEET

08B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	08B
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: 01A
Level (low/med): LOW		Lab Sample ID: 0609L861-016
% Solids: 91.1		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

UJ
JR

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-08B

1
INORGANIC ANALYSES DATA SHEET

09A

Lab Sample ID: 0609L861-017
Date Received: 09/01/06

[illegible]

VALIDATION
QUALIFIER

55
J
J

Texture: _____
Artifacts: _____

Comments:
DUS-09A

1
INORGANIC ANALYSES DATA SHEET

09B

SDG No.: 01A
e ID: 0609L861-018
ived: 09/01/06

[illegible]

VALIDATION
QUALIFIER

VJ
R

Comments:
DUS-09B

FORM I - IN

000000039

1
INORGANIC ANALYSES DATA SHEET

10A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: 01A
Matrix (soil/water): SOIL Lab Sample ID: 0609L861-019
Level (low/med): LOW Date Received: 09/01/06
% Solids: 94.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

UT
J
R

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-10A

1
INORGANIC ANALYSES DATA SHEET

10B

SDG No.: 01A
e ID: 0609L861-020
ived: 09/01/06

[illegible]

VALIDATION
QUALIFIER

$$\frac{UJ}{J} R$$

Comments:
DUS-10B _____

000000041

Custody Transfer Record/Lab Work Request

Page 3 of 7

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

[illegible][illegible]

Special Instructions:

DATE/REVISIONS:

$$D^{MET} = Br, Li, Nb, Ti, U, Hg$$

Relinquished by	Received by	Date	Time
D. E. Cox		7.10.	1955.

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

PROJECT / CLIENT INFORMATION

REPORT & TURNAROUND INFORMATION

SAMPLE INFORMATION

Project: CAU 484	BSN Page: B602	Send Report to: Mike Krueze	Phone: 295-7306	Fax: 295-6671	M/S: NTS306
Charge Number: SRI/1275					
Project Manager: Jeffrey Smith					
Phone: 295-7775	Fax: 295-7761	M/S: NTS306			

SAMPLE MANAGEMENT INFORMATION

SDG: (H) V2742 (Non-Rad Env) (Rad Env)
 Samples submitted are associated with a signed Project SOW. ☒ YES () NO
 Analyses entered here agree with the SOW. ☒ YES () NO () N/A
 If not, identify the variation: Laureville
 Subcontract Lab(s) used for this work: Laureville

DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Eq. Vol	QC	MSD	Pres - Analysis	ICP Metals	Mercury
DUS-01A	8/16/06	1:20 p	Soil	1	125 ml	X	X	Cool 4C	X	X
DUS-01B		1:20 p	Soil	1	125 ml			Cool 4C	X	X
DUS-02A		1:41 p	Soil	1	125 ml			Cool 4C	X	X
DUS-02B		1:41 p	Soil	1	125 ml			Cool 4C	X	X
DUS-03A		2:00 p	Soil	1	125 ml			Cool 4C	X	X
DUS-03B		2:00 p	Soil	1	125 ml			Cool 4C	X	X
DUS-04A		2:14 p	Soil	1	125 ml			Cool 4C	X	X
DUS-04B		2:14 p	Soil	1	125 ml			Cool 4C	X	X
DUS-05A		2:28 p	Soil	1	125 ml			Cool 4C	X	X
DUS-05B		2:28 p	Soil	1	125 ml			Cool 4C	X	X

CUSTODY TRANSFER

Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
Ben McEE		08/31/06 09:20	C. N. CASTRO		8/31/06 09:20
for CDC TEL		8/31/06 1300	Fed Ex # SEE ATTACHED		8/31/06 1300
FED EX		9-10-06 09:56	D. Smith		9-10-06 09:56

PROJECT / CLIENT INFORMATION

Project CAT 484

Site: B902

Send Report to: Mike Kinzie

REPORT & TURNAROUND INFORMATION

Charge Number 508/11275

Phone: 205-7796

Turnaround () Standard - 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env)

Phone: 205-7796

Fax: 205-6671

M/S: NTS306

Project Manager Jeffrey Smith

Phone: 295-7775

Fax: 295-7764

M/S: NTS306

Preliminary by: () PL/SFI (H)

1 7 7 14 28 (Radiological Env)

SAMPLE INFORMATION

Sampling Site: CAT 484 Project DUS

The samples submitted contain (check):
 () Hazardous - (list)
 () Radioactive - (list)
 () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

SAMPLE MANAGEMENT INFORMATION

SIG: (H) V2742 (Non-Rad Env)

() YES () NO

(Rad Env)

Samples submitted are associated with a signed Project SOW. () YES () NO
 Analyses entered here agree with the SOW. () YES () NO () N/A

If not, identify the variation:
 Subcontract Lab(s) used for this work: L. Davis

Pay Item, Analysis, Method

ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Eq. Vol	SID	QC MS	MSD	eg. HCl - VOCs	Pres - Analysis	ICP Metals	9.9	9.12						
DUS-06A	8/16/06	2:46p	Soil	1	125 ml					Cool 4C	X		X						
DUS-06B		2:46p	Soil	1	125 ml					Cool 4C	X								
DUS-07A		3:00p	Soil	1	125 ml					Cool 4C	X								
DUS-07B		3:00p	Soil	1	125 ml					Cool 4C	X								
DUS-08A		3:13p	Soil	1	125 ml					Cool 4C	X								
DUS-08B		3:13p	Soil	1	125 ml					Cool 4C	X								
DUS-09A	8/17/06	8:58a	Soil	1	125 ml					Cool 4C	X								
DUS-09B		8:58a	Soil	1	125 ml					Cool 4C	X								
DUS-10A		9:16a	Soil	1	125 ml					Cool 4C	X								
DUS-10B		9:16a	Soil	1	125 ml					Cool 4C	X								

CUSTODY / TRANSFER

Sampled/Relinquished (print)

Signature

DATE / TIME

Received by (print)

Signature

DATE / TIME

Ben McGee

08/31/06 09:20

J.D. Castagna

8/31/06 09:20

FED EX

8/31/06 1300

Fed Ex # SEE AT THE HUB

9:10a 09:50

1
INORGANIC ANALYSES DATA SHEET

11A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-11A

FORM I - IN

000000022

1

INORGANIC ANALYSES DATA SHEET

11B

Lab Name: LIONVILLE LABORATORY		Contract: 60052		11B
Lab Code: LVLI	Case No.: DUS	SAS No.:	SDG No.: 11A	
Matrix (soil/water): SOIL			Lab Sample ID: 0609L862-002	
Level (low/med): LOW			Date Received: 09/01/06	
% Solids: 90.4				

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

$$\frac{UJ}{J}$$

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-11B

FORM I - IN

000000023

1
INORGANIC ANALYSES DATA SHEET

12A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

UJ
J
R

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-12A

1
INORGANIC ANALYSES DATA SHEET

12B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	12B
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: 11A
Level (low/med): LOW		Lab Sample ID: 0609L862-004
% Solids: 90.6		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-12B

1
INORGANIC ANALYSES DATA SHEET

13A

Lab Name: LIONVILLE LABORATORY		Contract: 60052	13A
Lab Code: LVLI	Case No.: DUS	SAS No.:	SDG No.: 11A
Matrix (soil/water): SOIL		Lab Sample ID: 0609L862-005	
Level (low/med):	LOW	Date Received: 09/01/06	
% Solids:	93.9		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

UJ
J
R

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-13A

FORM I - IN

000000026

1
INORGANIC ANALYSES DATA SHEET

13B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	13B
Lab Code: LVLI	Case No.: DUS	SAS No.: SDG No.: 11A
Matrix (soil/water): SOIL		Lab Sample ID: 0609L862-006
Level (low/med): LOW		Date Received: 09/01/06
% Solids: 88.5		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

UJ
J
R

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-13B

1
INORGANIC ANALYSES DATA SHEET

14A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	14A
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: 11A
Level (low/med): LOW		Lab Sample ID: 0609L862-007
% Solids: 94.4		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-14A

1
INORGANIC ANALYSES DATA SHEET

14B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

VJ

 R

Comments:
DUS-14B _____

0000000029

1
INORGANIC ANALYSES DATA SHEET

15A

SDG No.: 11A

Lab Sample ID: 0609L862-009

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

$$\begin{array}{c} UJ \\ J \\ R \end{array}$$

Texture: _____
Artifacts: _____

Comments:
DUS-15A

1

EPA SAMPLE NO.

15B

SDG No. : 11A

Lab Sample ID: 0609L862-010

Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

V ADDATOR

QUARTER

$$\begin{matrix} U \\ J \\ R \end{matrix}$$

Texture: _____
Artifacts: _____

FORM I - IN

000000031

1
INORGANIC ANALYSES DATA SHEET

16A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	16A
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: 11A
Level (low/med): LOW		Lab Sample ID: 0609L862-011
% Solids: 92.4		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

UJ
J
R

Texture: _____
Artifacts: _____

DUS-16A

1
INORGANIC ANALYSES DATA SHEET

16B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

UJ
J
R

Texture: _____
Artifacts: _____

Comments:
DUS-16B

1
INORGANIC ANALYSES DATA SHEET

17A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

$$\frac{UJ}{J}$$

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-17A

FORM I - IN

000000034

1
INORGANIC ANALYSES DATA SHEET

17B

Lab Name: LIONVILLE LABORATORY		Contract: 60052	17B
Lab Code: LVLI	Case No.: DUS	SAS No.:	SDG No.: 11A
Matrix (soil/water): SOIL			Lab Sample ID: 0609L862-014
Level (low/med): LOW			Date Received: 09/01/06
% Solids: 90.7			

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

UJ
J
R

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-17B

1
INORGANIC ANALYSES DATA SHEET

18A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

VJ
J

 $\mathbb{R}$

Texture: _____
Artifacts: _____

Comments:
DUS-18A

1
INORGANIC ANALYSES DATA SHEET

18B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	18B
Lab Code: LVLI	Case No.: DUS	SAS No.: SDG No.: 11A
Matrix (soil/water): SOIL		Lab Sample ID: 0609L862-016
Level (low/med): LOW		Date Received: 09/01/06
% Solids: 91.9		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

$$\frac{U}{T}$$

R

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-18B

1
INORGANIC ANALYSES DATA SHEET

19A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

$$\frac{VJ}{J}$$

R

Comments:
DUS-19A

000000038

1
INORGANIC ANALYSES DATA SHEET

19B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

VJ
J

R

Comments:
DUS-19B

000000039

1
INORGANIC ANALYSES DATA SHEET

20A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
DUS-20A

1
INORGANIC ANALYSES DATA SHEET

20B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	20B
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: 11A
Level (low/med): LOW		Lab Sample ID: 0609L862-020
% Solids: 92.2		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

$$\frac{UJ}{J}$$

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-20B

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

See SRC

06096862

Client NSA, V2742

Est. Final Proj. Sampling Date 60052 - 001-001-001-000

Project # 60052 - 001-001-001-000

Project Contact/Phone # 908710 Del CAP TAT 14 Day

Lionville Laboratory Project Manager 908710 Del CAP TAT 14 Day

OC 908710 Del CAP TAT 14 Day

Date Rec'd 9/1/06 Date Due 9/15/06

MATRIX CODES:										1										Lionville Laboratory Use Only										1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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001	DUS-11A			Soil	8-17-06	9:48 AM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											</

Special Instructions:

DATE/REVISIONS:

METD = B, L, NB, TL, Hg

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- 6

Relinquished by	Received by	Date	Time
9/1/06	9/1/06	09:00	

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
"COMPOSITE WASTE"	ORIGINAL		
	REWRITTEN		

06091812

Custody Transfer Record/Lab Work Request

Page 2 of 2

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client <u>NSPEC 12792</u>		Project # <u>1</u>		Project Contact/Phone # <u>412-991-1111</u>		Lionville Laboratory Project Manager <u>Patricia</u>		OC <u>TAT</u>		Date Rec'd <u>12/11/11</u>		Date Due <u>12/11/11</u>	
Est. Final Proj. Sampling Date <u>12/11/11</u>		Refrigerator # <u>1</u>		#/Type Container <u>1</u>		Volume <u>1</u>		Preservatives <u>1</u>		ANALYSES REQUESTED <u>1</u>		VOA <u>1</u> BNA <u>1</u> Pest/PCB <u>1</u> Herb <u>1</u>	
Matrix CODES:		Matrix OC Chosen (S)		Matrix		Date Collected		Time Collected		Lionville Laboratory Use Only		Metal <u>1</u> INOHC <u>1</u>	
S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drums DL - Drums L - Liquids EP/CLP WI - Wipe X - Other F - Fish		Lab ID		Client ID/Description		MS		MSD		METO <u>1</u>		12/11/11 <u>1</u>	
011		DUS-16A		16B		1		1054 AM		X		X	
012		17A		17B		1		1105		X		X	
013		17B		18A		1		1116		X		X	
014		18A		18B		1		1335		X		X	
015		18B		19A		1		1359		X		X	
016		19A		19B		1		1359		X		X	
017		19B		20A		1		20B		X		X	
018		20A		20B		1		20B		X		X	
019		20B				1				X		X	
020						1				X		X	

Special Instructions:

DATE/REVISIONS:

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Relinquished by _____ Received by _____ Date _____ Time _____

Relinquished by _____ Received by _____ Date _____ Time _____

Relinquished by _____ Received by _____ Date _____ Time _____

SERVICES REQUEST AND CHAIN OF CUSTODY RECORD

06040000

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAV 484		BN Orig#: B502		Send Report to: Mike Kravitz		Phone: 295-7396		Fax: 295-6671		M/S: NTS306	
Charge Number: 581A12/5				Turnaround: () Standard - 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env) (X) Rush Preliminary by: (H)		1 2 7 14 (non-Rad Env) 1 7 14 28 (Radiological Env)		Sampling Site: CAV 484, <u>Radon</u> <u>DUS</u>		The samples submitted contain (check): () Hazardous - (list) _____ () Radioactive - (list) _____ () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.	
Project Manager: Jeffrey Smith											
Phone: 295-7775		Fax: 295-7761		M/S: NTS306							
SAMPLE MANAGEMENT INFORMATION											
SDG: _____ (H) <u>V2742</u> (Non-Rad Env) _____ (Rad Env)											
Samples submitted are associated with a signed Project SOW. (X) YES () NO											
Analyses entered here agree with the SOW. (X) YES () NO () N/A											
If not, identify the variation: _____											
Subcontract Lab(s) used for this work: <u>Acemille</u>											
ID/DESCRIPTION	SAMPLE #	DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MLD	QC MS	MSD	Pres - Analysis eg. HCL - VOCs	Pay Item, Analysis, Method
DUS-11A	8/17/06	9:48A	Soil	1	125 ml					Cool 4C	X
DUS-11B	8/17/06	9:48A	Soil	1	125 ml					Cool 4C	X
DUS-12A	8/17/06	10:02A	Soil	1	125 ml					Cool 4C	X
DUS-12B	8/17/06	10:02A	Soil	1	125 ml					Cool 4C	X
DUS-13A	8/17/06	10:16A	Soil	1	125 ml					Cool 4C	X
DUS-13B	8/17/06	10:16A	Soil	1	125 ml					Cool 4C	X
DUS-14A	8/17/06	10:27A	Soil	1	125 ml					Cool 4C	X
DUS-14B	8/17/06	10:27A	Soil	1	125 ml					Cool 4C	X
DUS-15A	8/17/06	10:38A	Soil	1	125 ml					Cool 4C	X
DUS-15B	8/17/06	10:38A	Soil	1	125 ml					Cool 4C	X
CUSTODY TRANSFER											
Sampled/Relinquished (print)		Signature		DATE / TIME		Received by (print)		Signature		DATE / TIME	
Ben Moore				08/31/06 09:20		C.A. CASTAÑEDA				8/31/06 09:20	
Fred Ted				8/30/06 1300		Fred & SEC				8/30/06 1300	
Fred Ex				9/1/06 0950		Kade Hernandez				9/01/06 0950	

SERVICES REQUEST AND CHAIN OF CUSTODY RECORD

Page 13 of 18

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAT 484	HN Org: B502	Send Report to: Mike Knutic	Phone: 295-7396	Fax: 295-6671	M/S: NTS306	Sampling Site: CAT 484 Radwaste DUS	The samples submitted contain (check): ☐ Hazardous - (list) _____ ☐ Radioactive - (list) _____ ☐ Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.				
Charge Number: 581A1225											
Project Manager: Jeffrey Smith			Turnaround ☒ Standard - 14 days HL, 28 days Non-rad Env, 45 days Rad Env ☐ RUSH Preliminary by: _____ (H) - 1 - 2 - 7 - 14 (non-Rad Env) - 1 - 7 - 14 (Radiological Env)								
Phone: 295-7775	Fax: 295-7761	M/S: NTS306									
SAMPLE MANAGEMENT INFORMATION											
SDG: _____ (H) <u>V2742</u> (Non-Rad Env) _____ (Rad Env) Samples submitted are associated with a signed Project SOW. ☒ YES () NO Analyses entered here agree with the SOW. ☒ YES () NO () N/A If not, identify the variation: _____ Subcontract Lab(s) used for this work: <u>Lienville</u>											
ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Exc. Vol	MD	MS	MSD	eg. HCL - VOCs	Pres - Analysis	Pay Item, Analysis, Method
DUS-16A	8/17/06	10:54A	Soil	1	125 ml					Cool 4C	X
DUS-16B		10:54A	Soil	1	125 ml					Cool 4C	X
DUS-17A		11:05A	Soil	1	125 ml					Cool 4C	X
DUS-17B		11:05A	Soil	1	125 ml					Cool 4C	X
DUS-18A		11:16A	Soil	1	125 ml					Cool 4C	X
DUS-18B		11:16A	Soil	1	125 ml					Cool 4C	X
DUS-19A	8/21/06	13:35	Soil	1	125 ml					Cool 4C	X
DUS-19B		13:35	Soil	1	125 ml					Cool 4C	X
DUS-20A		13:59	Soil	1	125 ml					Cool 4C	X
DUS-20B		13:59	Soil	1	125 ml					Cool 4C	X
CUSTODY TRANSFER											
Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME						
Ben McGee		08/31/06 09:20	C.D. CASTAGNOLA		8/31/06 1300						
for DOE Test		8/31/06 1300	for DOE # SEE ATTACHED		8/31/06 1300						
for DOE		8-1-06 0950	for DOE HEAVENLY		8-1-06 0950						

Retention Code: ENV 5.c(1)

BN-0732 (04/02)

1

INORGANIC ANALYSES DATA SHEET

21A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	21A
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L863-001
% Solids: 96.5		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-21A

FORM I - IN

000000022

1
INORGANIC ANALYSES DATA SHEET

21B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL Lab Sample ID: 0609L863-002
Level (low/med): LOW Date Received: 09/01/06
% Solids: 88.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

UJ
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QJR

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-21B

1
INORGANIC ANALYSES DATA SHEET

22A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	22A
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L863-003
% Solids: 95.0		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

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Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-22A

1
INORGANIC ANALYSES DATA SHEET

22B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

UJ
J
R

Texture: _____
Artifacts: _____

Comments:
DUS-22B

1
INORGANIC ANALYSES DATA SHEET

23A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

UJ

R

Texture: _____
Artifacts: _____

Comments:
DUS-23A

1
INORGANIC ANALYSES DATA SHEET

23B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

UJ
J
R

Texture: _____
Artifacts: _____

Comments:
DUS-23B

1
INORGANIC ANALYSES DATA SHEET

24A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	24A
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L863-007
% Solids: 96.3		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

UJ
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Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
~~DUS-24A~~

FORM I - IN

000000028

1
INORGANIC ANALYSES DATA SHEET

24B

Contract: 60052

Case No.: DUS

SAS No. :

SDG No. : V2742

Matrix (soil/water): SOIL

Level (low/med): LOW

Lab Sample ID: 0609L863-008

% Solids:	LOW
	93.7

Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

UJ
J
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Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:

DUS-24B

FORM I - IN

000000029

1
INORGANIC ANALYSES DATA SHEET

25A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	25A
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L863-009
% Solids: 94.8		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-25A

1

INORGANIC ANALYSES DATA SHEET

25B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	25B
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L863-010
% Solids: 92.6		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER
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Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
DUS-25B

FORM I - IN

000000031

1
INORGANIC ANALYSES DATA SHEET

26A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	26A
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L863-011
% Solids: 94.5		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

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Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-26A

FORM I - IN

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1
INORGANIC ANALYSES DATA SHEET

26B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
DUS-26B

1
INORGANIC ANALYSES DATA SHEET

27A

Lab Name: LIONVILLE LABORATORY		Contract: 60052		27A
Lab Code: LVLI	Case No.: DUS	SAS No.:	SDG No.: V2742	
Matrix (soil/water): SOIL			Lab Sample ID: 0609L863-013	
Level (low/med): LOW			Date Received: 09/01/06	
% Solids: 95.2				

Concentration Units (ug/L or mg/kg dry weight): MG/KG

VALIDATOR
QUALIFIER

UJ
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Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-27A

1
INORGANIC ANALYSES DATA SHEET

27B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: V2742
Matrix (soil/water): SOIL Lab Sample ID: 0609L863-014
Level (low/med): LOW Date Received: 09/01/06
% Solids: 92.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

VALIDATOR
QUALIFIER

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Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-27B

1
INORGANIC ANALYSES DATA SHEET

28A

Lab Name: LIONVILLE LABORATORY	Contract: 60052	28A
Lab Code: LVLI	Case No.: DUS	SDG No.: V2742
Matrix (soil/water): SOIL	SAS No.:	Lab Sample ID: 0609L863-015
Level (low/med): LOW		Date Received: 09/01/06
% Solids: 96.2		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

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Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-28A

FORM I - IN

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1
INORGANIC ANALYSES DATA SHEET

28B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	28B
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L863-016
% Solids: 91.7		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-28B

1
INORGANIC ANALYSES DATA SHEET

29A

Lab Name: LIONVILLE LABORATORY		Contract: 60052	29A
Lab Code: LVLI	Case No.: DUS	SAS No.:	SDG No.: V2742
Matrix (soil/water): SOIL			Lab Sample ID: 0609L863-017
Level (low/med): LOW			Date Received: 09/01/06
% Solids: 95.1			

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

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Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-29A

FORM I - IN

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1
INORGANIC ANALYSES DATA SHEET

29B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

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Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-29B

FORM I - IN

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1
INORGANIC ANALYSES DATA SHEET

30A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

$$\begin{array}{c} UJ \\ J \\ R \end{array}$$

Comments:
DUS-30A _____

1
INORGANIC ANALYSES DATA SHEET

30B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	30B
Lab Code: LVLI	Case No.: DUS	SAS No.:
Matrix (soil/water): SOIL		SDG No.: V2742
Level (low/med): LOW		Lab Sample ID: 0609L863-020
% Solids: 95.2		Date Received: 09/01/06

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATOR
QUALIFIER

UJ
J
R

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-30B

FORM I - IN

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Page 1 of 2

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

See SRC

[illegible]

DATE/REVISIONS:

$$METD = B, L, Nb, Ti, W, Hg$$

Relinquished by	Received by	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	12/16/05	

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
COMPOSITE WASTE	ORIGINAL REWRITTEN		

0609L8163

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

A

Client <u>NSTEC VART</u>		Est. Final Proj. Sampling Date <u>1</u>		Project # <u>100</u>		Project Contact/Phone # <u>122 609</u>		Lionville Laboratory Project Manager <u>TAT 14445</u>		QC <u>Del</u> TAT <u>14445</u>		Date Rec'd <u>9.10.06</u> Date Due <u></u>	
Matrix CODES:		Lab ID		Client ID/Description		Matrix QC Chosen (✓)		MS		MSD		Refrigerator #	
S - Soil		011		DUS - 26A		5		8.21.06		1548		Liquid	
SE - Sediment		013		26B		1		1		1		Solid	
SO - Solid		014		27A		1		1		1		Liquid	
SL - Sludge		015		273		1		1		1		Solid	
W - Water		016		28A		1		1		1		Liquid	
O - Oil		017		28B		1		1		1		Solid	
A - Air		018		29A		1		1		1		Liquid	
DS - Drum		019		29B		1		1		1		Solid	
OL - Drum		020		30A		1		1		1		Liquid	
L - Liquids		021		30B		1		1		1		Solid	
EPTCLP		022											
WI - Waste		023											
X - Other		024											
F - Fish		025											

Special Instructions:

MSD = B, L, N, B, N, U, H, Y

DATE/REVISIONS:

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- 5

Relinquished by	Received by	Date	Time
<u>0609L8163</u>	<u>0609L8163</u>	<u>0609L8163</u>	<u>0609L8163</u>

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

PROJECT / CLIENT INFORMATION

Project: CAU 484

DB: Org: US02

Charge Number: SH1A12/5

Project Manager: Jeffrey Smith

Phone: 295-7775

Fax: 295-7761

M/S: NTS306

REPORT & TURNAROUND INFORMATION

Send Report to: Mike Kruse

Phone: 295-7761

Fax: 295-6671

M/S: NTS306

Turnaround: () Standard - 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env)

(X) FAST Preliminary by: 1 2 7 14 28 (Rad/ Biological Env)

SAMPLE INFORMATION

Sampling Site: CAU 484 ~~SH1A12/5~~ DUS

The samples submitted contain (check):

() Hazardous - (list)

() Radioactive - (list)

() Unknown contamination. If known, identify

contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

SAMPLE MANAGEMENT INFORMATION

SIG: (III) V 2742

(Non-Rad Env)

(Rad Env)

Samples submitted are associated with a signed Project SOW. (X) YES () NO

Analyses entered here agree with the SOW. (X) YES () NO () N/A

If not, identify the variation:

Subcontract Lab(s) used for this work: Linnville

DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Exc Vol	ML	MS	MSD	Pres - Analysis	ICP Metals	Mercury
DUS-21A	8/21/06	14:16	Soil	1	125 ml				Cool 4C	X	X
DUS-21B		14:16	Soil	1	125 ml				Cool 4C	X	X
DUS-22A		14:31	Soil	1	125 ml				Cool 4C	X	X
DUS-22B		14:31	Soil	1	125 ml				Cool 4C	X	X
DUS-23A		14:47	Soil	1	125 ml				Cool 4C	X	X
DUS-23B		14:47	Soil	1	125 ml				Cool 4C	X	X
DUS-24A		14:59	Soil	1	125 ml				Cool 4C	X	X
DUS-24B		14:59	Soil	1	125 ml				Cool 4C	X	X
DUS-25A		15:14	Soil	1	125 ml				Cool 4C	X	X
DUS-25B		15:24	Soil	1	125 ml				Cool 4C	X	X

CUSTODY TRANSFER

Sampled/Relinquished (print)

Signature

DATE/TIME

Received by (print)

Signature

DATE/TIME

Gen MCEE

Signature

DATE/TIME

Received by (print)

Signature

DATE/TIME

for CDE Test

Signature

DATE/TIME

Received by (print)

Signature

DATE/TIME

for EX

Signature

DATE/TIME

Received by (print)

Signature

DATE/TIME

PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION	
Project: CAU 484	BSN Corp B302	Send Report to: Mike Kravitz	Sampling Site: CAU 484 B302 DUS	The samples submitted contain (check):	
Charge Number: SBI1225	Phone: 295-7306	Turnaround () Standard - 14 days (H) 28 days (Non-Rad Env, 45 days Rad Env) (H)	Fax: 295-6671	☐ Hazardous - (list) ☐ Radioactive - (list) ☐ Unknown contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.	
Project Manager: Jeffrey Smith	Phone: 295-7775	MS: NTS306	MS: NTS306		
Phone: 295-7775	Fax: 295-7761	MS: NTS306	MS: NTS306		

SAMPLE MANAGEMENT INFORMATION									
SDG: (H)	108742	(Non-Rad Env)	(Rad Env)						
Samples submitted are associated with a signed Project SOW. YES () NO ()									
Analyses entered here agree with the SOW. YES () NO () N/A									
If not, identify the variation: <u>Leakage</u>									
Subcontract Lab(s) used for this work: <u>Leakage</u>									

ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MSD	MS	MSD	Pres - Analysis eg. HCl - VOCs	ICP Metals Be, Ni, Cu, Pb, Tl, U	Mercury
DUS-26A	8/21/06	15:48	Soil	1	125 ml				Cool 4C	X	X
DUS-26B		15:48	Soil	1	125 ml				Cool 4C	X	X
DUS-27A		16:03	Soil	1	125 ml				Cool 4C	X	X
DUS-27B		16:03	Soil	1	125 ml				Cool 4C	X	X
DUS-28A		16:14	Soil	1	125 ml				Cool 4C	X	X
DUS-28B		16:14	Soil	1	125 ml				Cool 4C	X	X
DUS-29A	8/22/06	08:44A	Soil	1	125 ml				Cool 4C	X	X
DUS-29B		08:44A	Soil	1	125 ml				Cool 4C	X	X
DUS-30A		09:06A	Soil	1	125 ml				Cool 4C	X	X
DUS-30B		09:06A	Soil	1	125 ml				Cool 4C	X	X

CUSTODY TRANSFER		DATE / TIME		Received by (print)		Signature		DATE / TIME	
Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME	Signature	DATE / TIME	Signature	DATE / TIME
Ben McLaughlin		8/31/06 09:20	CD CASTANEDA		8/31/06 09:20				
Ben McLaughlin		8/31/06 1300	Fed Ex # SEE ATTACHED		8/31/06 1300				
FED EX		9:06 0950	DSM		9:06 0950				

1
INORGANIC ANALYSES DATA SHEET

31A

% Solids:	91.9
-----------	------

[illegible]

VJ
J
R

Texture: _____
Artifacts: _____

Comments:
DUS-31A

1
INORGANIC ANALYSES DATA SHEET

31B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

$$\frac{UJ}{J}$$

$$R$$

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

DUS-31B

1
INORGANIC ANALYSES DATA SHEET

32A

Lab Name: LIONVILLE LABORATORY _____ Contract: 60052 _____
Lab Code: LVLI _____ Case No.: DUS _____ SAS No.: _____ SDG No.: R1 _____
Matrix (soil/water): SOIL _____ Lab Sample ID: 0609L864-003
Level (low/med): LOW _____ Date Received: 09/01/06
% Solids: 94.3 _____

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

DUS-32A

1
INORGANIC ANALYSES DATA SHEET

32B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: R1
Matrix (soil/water): SOIL Lab Sample ID: 0609L864-004
Level (low/med): LOW Date Received: 09/01/06
% Solids: 88.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
DUS-32B

1
INORGANIC ANALYSES DATA SHEET

33A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: R1
Matrix (soil/water): SOIL Lab Sample ID: 0609L864-005
Level (low/med): LOW Date Received: 09/01/06
% Solids: 94.2

[illegible]

VALIDATION
QUALIFIER

U.S.

R

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-33A

1
INORGANIC ANALYSES DATA SHEET

33B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

UJ

R

Comments:
DUS-33B

1

INORGANIC ANALYSES DATA SHEET

34A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

R
H
H

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

DUS-34A

1
INORGANIC ANALYSES DATA SHEET

34B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: R1
Matrix (soil/water): SOIL Lab Sample ID: 0609L864-008
Level (low/med): LOW Date Received: 09/01/06
% Solids: 91.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

$$\frac{UJ}{J}$$

R

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

DUS-34B

1
INORGANIC ANALYSES DATA SHEET

35A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: R1
Matrix (soil/water): SOIL Lab Sample ID: 0609L864-009
Level (low/med): LOW Date Received: 09/01/06
% Solids: 92.8

VALIDATION
QUALIFIER

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

DUS-35A

1

INORGANIC ANALYSES DATA SHEET

35B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: R1
Matrix (soil/water): SOIL Lab Sample ID: 0609L864-010
Level (low/med): LOW Date Received: 09/01/06
% Solids: 91.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

UJ

R

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
DUS-35B

1
INORGANIC ANALYSES DATA SHEET

36A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: R1
Matrix (soil/water): SOIL Lab Sample ID: 0609L864-011
Level (low/med): LOW Date Received: 09/01/06
% Solids: 93.9

[illegible]

VALIDATION
QUALIFIER

J
J
R

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
DUS-36A

FORM I - IN

0000000034

1
INORGANIC ANALYSES DATA SHEET

36B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: R1
Matrix (soil/water): SOIL Lab Sample ID: 0609L864-012
Level (low/med): LOW Date Received: 09/01/06
% Solids: 91.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
① VALIFIER

1/2

K

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

DUS-36B

1
INORGANIC ANALYSES DATA SHEET

37A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: R1
Matrix (soil/water): SOIL Lab Sample ID: 0609L864-013
Level (low/med): LOW Date Received: 09/01/06
% Solids: 94.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
Q VALIFIER

R
J
J

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

DUS-37A

1
INORGANIC ANALYSES DATA SHEET

37B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

427

 $\mathcal{R}$

DUS-37B

1

INORGANIC ANALYSES DATA SHEET

38A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: R1
Matrix (soil/water): SOIL Lab Sample ID: 0609L864-015
Level (low/med): LOW Date Received: 09/01/06
% Solids: 94.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

2/2

R

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
DUS-38A

1

INORGANIC ANALYSES DATA SHEET

38B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

VALIDATION
QUALIFIER

J
J
R

Texture: _____
Artifacts: _____

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

R1

Lab Name: LIONVILLE_LABORATORY Contract: 60052
Lab Code: LVLI Case No.: DUS SAS No.: SDG No.: R1
Matrix (soil/water): WATER Lab Sample ID: 0609L864-017
Level (low/med): LOW Date Received: 09/01/06
% Solids: 0.0

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

[illegible]

Color Before: _____
Color After: _____

Clarity Before: _____
Clarity After: _____

Texture: _____
Artifacts: _____

Comments:
DUS-R1

PROJECT / CLIENT INFORMATION

Project: CAL 484

BN Org# B302

Change Number: SBLA1225

Project Manager: Jeffrey Smith

Phone: 295-7775

Fax: 295-7761

M/S: NTS306

REPORT & TURNAROUND INFORMATION

Send Report to: Mike Krueh

Phone: 295-7396

Fax: 295-6671

M/S: NTS306

Turnaround: () Standard - 14 days HL, 28 days Non-rad Env, 45 days Rad Env
(X) RUSH Preliminary by: () (H)() 1 2 7 14 28 (non-Rad Env)
() 1 7 14 28 (Radiological Env)

SAMPLE INFORMATION

Sampling Site: CAL 484 Bldg 400 DUS

The samples submitted contain (check):

() Hazardous - (list)

() Radioactive - (list)

() Unknown contaminants. If known, identify

contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

SAMPLE MANAGEMENT INFORMATION

SDG: (III) V2742 (Non-Rad Env) (Rad Env)

Samples submitted are associated with a signed Project SOW. (X) YES () NO

Analyses entered here agree with the SOW: (X) YES () NO () N/A

If not, identify the variation:

Subcontract Lab(s) used for this work: Knoxville

Pay Item, Analysis, Method

DESCRIPTION	SAH PLUG DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	QC MIS	MISD	eg: HCL - VOCs	Pres - Analysis	ICP Metals	Mercury
DUS-31A	8/22/06	08:17A	Soil	1	125 ml					Cool 4C	X	X
DUS-31B		08:17A	Soil	1	125 ml					Cool 4C	X	X
DUS-32A		08:21A	Soil	1	125 ml					Cool 4C	X	X
DUS-32B		08:21A	Soil	1	125 ml					Cool 4C	X	X
DUS-33A		08:37A	Soil	1	125 ml					Cool 4C	X	X
DUS-33B		08:37A	Soil	1	125 ml					Cool 4C	X	X
DUS-34A		08:49A	Soil	1	125 ml					Cool 4C	X	X
DUS-34B		08:49A	Soil	1	125 ml					Cool 4C	X	X
DUS-35A		08:02A	Soil	1	125 ml					Cool 4C	X	X
DUS-35B		10:02A	Soil	1	125 ml					Cool 4C	X	X

CUSTODY TRANSFER

Sampled/Relinquished (print)

Signature

DATE / TIME

Received by (print)

Signature

DATE / TIME

Ben McGehee

Signature

DATE / TIME

Received by (print)

Signature

DATE / TIME

for Ted Kidding

Signature

DATE / TIME

Received by (print)

Signature

DATE / TIME

for Ted Kidding

Signature

DATE / TIME

Received by (print)

Signature

DATE / TIME

PROJECT / CLIENT INFORMATION				REPORT & TURN-AROUND INFORMATION				SAMPLE INFORMATION			
Project: CAU 484		BN Cug# BS02		Send Report to: Mike Krutze		Phone: 295-7396		Fax: 295-6671		M/S: NTS306	
Charge Number: 501A1275											
Project Manager: Jeffrey Smith											
Phone: 295-7775		Fax: 295-7761		M/S: NTS306							
<p>SAMPLE MANAGEMENT INFORMATION</p> <p>SDG: (III) <u>V2742</u> (Non-Rad Env) (Rad Env)</p> <p>Samples submitted are associated with a signed Project SOW. YES () NO ()</p> <p>Analyses entered here agree with the SOW. YES () NO () N/A ()</p> <p>If not, identify the variation: _____</p> <p>Subcontract Lab(s) used for this work: <u>Lionville</u></p>											
ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Exc. Vol	QC MS	MSD	Pres - Analysis eg. HCl - VOCs	ICP Metals	Mercury	Pay Item, Analysis, Method
DUS-36A	8/22/06	10:14A	Soil	1	125 ml	X	X	Cool 4C	X		
DUS-36B	8/22/06	10:14A	Soil	1	125 ml			Cool 4C	X		
DUS-37A	8/17/06	9:16A	Soil	1	125 ml			Cool 4C	X		
DUS-37B	8/17/06	9:16A	Soil	1	125 ml			Cool 4C	X		
DUS-38A	8/22/06	11:59A	Soil	1	125 ml			Cool 4C	X		
DUS-38B	8/22/06	11:59A	Soil	1	125 ml			Cool 4C	X		
DUS-39A			Soil	1	125 ml			Cool 4C	X		
DUS-39B			Soil	1	125 ml			Cool 4C	X		
DUS-40A			Soil	1	125 ml			Cool 4C	X		
DUS-40B			Soil	1	125 ml			Cool 4C	X		
CUSTODY TRANSFER											
Sampled/Retrieved (print)		Signature		DATE / TIME		Received by (print)		Signature		DATE / TIME	
Ben McGee				08/31/06 09:20		C.D. ASSTAVENA				8/31/06 09:20	
Fed Ex				8/31/06 1300		Fed Ex * SEE ATTACHED				8/31/06 1300	
Fed Ex				9/1/06 0950		Victor Hernandez				9-1-06 0950	

**INVESTIGATION (GEOPROBE[®])
SOIL SAMPLE ANALYTICAL RESULTS**

**CAS TA-52-006-TAPL
DEPLETED URANIUM SITE**

Radiological Data

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-01A
Sample ID: 171013001
Matrix: Soil
Collect Date: 16-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.363	+/-0.680	1.32	+/-0.682	2.00	pCi/g	TC1	09/20/06	1412	566388	1	
Uranium-235/236	U	0.0826	+/-0.626	1.80	+/-0.626	2.00	pCi/g						
Uranium-238	U	0.725	+/-0.962	1.57	+/-0.968	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	67	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-01A

Sample ID:

171013001

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-01B
Sample ID: 171013002
Matrix: Soil
Collect Date: 16-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		3.43	+/-1.80	0.736	+/-1.86	2.00	pCi/g		TCI	09/26/06	1556	566388	1
Uranium-235/236		0.910	+/-1.03	0.910	+/-1.04	2.00	pCi/g						
Uranium-238	U	0.922	+/-0.969	1.18	+/-0.977	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	90	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-01B

Project:

NEVA00106

Sample ID:

171013002

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mid
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.geel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-02A
Sample ID: 171013003
Matrix: Soil
Collect Date: 16-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.54	+/-1.23	0.771	+/-1.25	2.00	pCi/g		TC1	09/26/06	1557	566388	1
Uranium-235/236	U	-0.0762	+/-0.640	1.52	+/-0.641	2.00	pCi/g						
Uranium-238		1.93	+/-1.43	1.42	+/-1.46	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	93	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-02A

Sample ID:

171013003

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-02B
Sample ID: 171013004
Matrix: Soil
Collect Date: 16-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.55	+/-0.968	0.864	+/-0.986	2.00	pCi/g		TC1	09/23/06	1411	566388	1
Uranium-235/236	U	-0.184	+/-0.438	1.28	+/-0.438	2.00	pCi/g						
Uranium-238	U	0.146	+/-0.457	1.04	+/-0.458	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	87	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-02B

Sample ID:

171013004

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-03A
Sample ID: 171013005
Matrix: Soil
Collect Date: 16-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.31	+/-1.41	2.19	+/-1.42	2.00	pCi/g		TC1	09/20/06	1412	566388	I
Uranium-235/236	U	0.544	+/-1.07	2.12	+/-1.08	2.00	pCi/g						
Uranium-238	U	-0.108	+/-0.556	1.81	+/-0.556	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	84	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-03A

Sample ID:

171013005

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-03B
Sample ID: 171013006
Matrix: Soil
Collect Date: 16-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.25	+/-1.20	1.06	+/-1.23	2.00	pCi/g		TC1	09/23/06	1411	566388	1
Uranium-235/236		0.744	+/-0.729	0.558	+/-0.734	2.00	pCi/g						
Uranium-238		2.11	+/-1.10	0.451	+/-1.13	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	85	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-03B

Project: NEVA00106

Sample ID:

171013006

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-04A

Sample ID:

171013007

Matrix:

Soil

Collect Date:

16-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.18	+/-1.11	1.57	+/-1.12	2.00	pCi/g		TCI	09/20/06	1412	566388	1
Uranium-235/236	U	0.364	+/-0.683	1.33	+/-0.685	2.00	pCi/g						
Uranium-238		1.56	+/-1.15	1.28	+/-1.18	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	78	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-04A

Project: NEVA00106

Sample ID:

171013007

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtc
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-04B
Sample ID: 171013008
Matrix: Soil
Collect Date: 16-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		3.83	+/-1.63	1.40	+/-1.69	2.00	pCi/g		TC1	09/25/06	1025	566388	1
Uranium-235/236	U	0.690	+/-0.798	1.16	+/-0.803	2.00	pCi/g						
Uranium-238		2.63	+/-1.30	0.937	+/-1.34	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	83	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-04B

Project: NEVA00106

Sample ID:

171013008

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

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Address : 2621 Losee Road

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-05A

Sample ID:

171013009

Matrix:

Soil

Collect Date:

16-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.40	+/-1.33	1.46	+/-1.36	2.00	pCi/g						
Uranium-235/236	U	1.05	+/-0.939	1.12	+/-0.947	2.00	pCi/g						
Uranium-238		1.39	+/-1.05	1.35	+/-1.07	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	82	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Certificate of Analysis

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Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-05A

Project:

NEVA00106

Sample ID:

171013009

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-05B

Sample ID:

171013010

Matrix:

Soil

Collect Date:

16-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
Alphaspec U, Solid 2pCi/g													
Uranium-232/234	U	0.475	+/-0.945	1.84	+/-0.948	2.00	pCi/g		TC1	09/20/06	1547	566386	1
Uranium-235/236	U	-0.0677	+/-0.133	1.35	+/-0.133	2.00	pCi/g						
Uranium-238	U	0.247	+/-0.833	1.84	+/-0.833	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	78	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-05B

Sample ID:

171013010

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-06A
Sample ID: 171013011
Matrix: Soil
Collect Date: 16-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.07	+/-1.09	1.71	+/-1.11	2.00	pCi/g	TC1	09/20/06	1547	566388	1	
Uranium-235/236	U	1.11	+/-1.14	1.72	+/-1.15	2.00	pCi/g						
Uranium-238	U	0.193	+/-0.843	1.77	+/-0.844	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	84	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-06A

Project:

NEVA00106

Sample ID:

171013011

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-06B

Sample ID:

171013012

Matrix:

Soil

Collect Date:

16-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.89	+/-0.974	0.914	+/-1.00	2.00	pCi/g		TCI	09/25/06	1025	566388	1
Uranium-235/236		0.426	+/-0.482	0.426	+/-0.484	2.00	pCi/g						
Uranium-238		1.03	+/-0.675	0.344	+/-0.686	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	87	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-06B

Sample ID:

171013012

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-07A
Sample ID: 171013013
Matrix: Soil
Collect Date: 16-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.621	+/-1.18	2.21	+/-1.18	2.00	pCi/g		TC1	09/20/06	1547	566388	1
Uranium-235/236	U	0.158	+/-0.974	2.28	+/-0.974	2.00	pCi/g						
Uranium-238	U	1.19	+/-1.22	1.84	+/-1.23	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/01/06	1321	565874

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	89	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-07A

Project:

NEVA00106

Sample ID:

171013013

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-07B
Sample ID: 171013014
Matrix: Soil
Collect Date: 16-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		3.24	+/-1.16	0.324	+/-1.22	2.00	pCi/g		TC1	09/25/06	1026	566388	1
Uranium-235/236		1.20	+/-0.784	0.400	+/-0.797	2.00	pCi/g						
Uranium-238		2.10	+/-0.952	0.633	+/-0.984	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	87	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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North Las Vegas, Nevada 89030---4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-07B

Sample ID:

171013014

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-08A
Sample ID: 171013015
Matrix: Soil
Collect Date: 16-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.852	+/-1.01	1.57	+/-1.02	2.00	pCi/g		TC1	09/20/06	1547	566388	1
Uranium-235/236	U	-0.0665	+/-0.130	1.33	+/-0.131	2.00	pCi/g						
Uranium-238	U	0.906	+/-1.01	1.48	+/-1.01	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	91	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy---Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-08A

Sample ID:

171013015

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-08B
Sample ID: 171013016
Matrix: Soil
Collect Date: 16-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.51	+/-1.47	1.98	+/-1.48	2.00	pCi/g		TCI	09/20/06	1547	566388	1
Uranium-235/236	U	0.653	+/-1.04	1.78	+/-1.05	2.00	pCi/g						
Uranium-238	U	1.21	+/-1.35	1.98	+/-1.36	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	96	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Remediation Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-08B

Sample ID:

171013016

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-09A

Sample ID:

171013017

Matrix:

Soil

Collect Date:

17-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.80	+/-1.21	0.985	+/-1.24	2.00	pCi/g		TCI	09/20/06	1547	566388	1
Uranium-235/236	U	-0.244	+/-0.239	1.67	+/-0.242	2.00	pCi/g						
Uranium-238	U	1.04	+/-1.01	1.35	+/-1.02	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	78	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-09A

Project:

NEVA00106

Sample ID:

171013017

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-09B
Sample ID: 171013018
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.865	+/-0.961	1.50	+/-0.969	2.00	pCi/g		TCI	09/20/06	1547	566388	I
Uranium-235/236	U	0.451	+/-0.779	1.46	+/-0.781	2.00	pCi/g						
Uranium-238	U	-0.0787	+/-0.407	1.32	+/-0.407	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	82	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-09B

Project: NEVA00106

Sample ID:

171013018

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using $\pm$ RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID: DUS-10A
Sample ID: 171013019
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.19	+/-1.08	0.779	+/-1.11	2.00	pCi/g		TC1	09/25/06	1026	566388	1
Uranium-235/236	U	0.245	+/-0.483	0.963	+/-0.484	2.00	pCi/g						
Uranium-238		2.12	+/-1.04	0.398	+/-1.07	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1321	565874

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-10A

Sample ID:

i710i3019

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-10B

Sample ID:

171013020

Matrix:

Soil

Collect Date:

17-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.33	+/-1.58	1.93	+/-1.61	2.00	pCi/g		TC1	09/20/06	1547	566388	1
Uranium-235/236	U	-0.187	+/-0.211	1.58	+/-0.213	2.00	pCi/g						
Uranium-238	U	0.596	+/-0.966	1.76	+/-0.970	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	09/07/06	1322	565874

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	84	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

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- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
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- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Address : 2621 Losee Road

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 27, 2006

Client Sample ID:

DUS-10B

Project:

NEVA00106

Sample ID:

171013020

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

ANALYTICAL LABORATORY
SERVICES REQUEST AND CHAIN OF CUSTODY RECORD

171031 Page 10 of 18

PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION	
Project: CAU 484	BN Org# 0502	Send Report to: Mike Krutze	Phone: 295-7396	Fax: 295-6671	M/S: NTS306
Charge Number: 5B1A1275		Turnaround () Standard - 14 days (II), 28 days (Non-Rad Env), 45 days (Rad Env) (III)			
Project Manager: Jeffrey Smith		Preparatory by: ☒ RUSHI			
Phone: 295-7775	Fax: 295-7761	M/S: NTS306			

SAMPLE MANAGEMENT INFORMATION

Site: _____ (III) (Non-Rad Env) 12743 (Rad Env)

Samples submitted are associated with a signed Project SOW. ☒ YES () NO

Analyses entered here agree with the SOW. ☒ YES () NO () N/A

If not, identify the variation: _____

Subcontract Lab(s) used for this work: CEL

ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER		QC			Pres - Analysis HCl - VOCs	Σ																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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CUSTODY TRANSFER		Received by (print)		Signature		DATE / TIME	
Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME		
Joe M. Lee		9/31/06 07:20	C.A. Casanova		8/31/06 09:20		
Joe M. Lee		9/31/06 1:30	Jeffrey Smith		9/31/06 09:30		
		9/5/06	K. W. Knight		9/10/06 07:45		

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION				
Project: CAU 484	BN Order: B502	Send Report to: Mike Krutze		Turnaround: () Standard - 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env) (H)		Sampling Site: CAU 484 Revised D & S		The samples submitted contain (check): () Hazardous - (list) _____ () Radioactive - (list) _____ () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.				
Charge Number: 501A1225	Phone: 295-7396	Fax: 295-6671	M/S: NTS306									
Project Manager: Jeffrey Smith	Phone: 295-7775	Fax: 295-7761	M/S: NTS306									
<p>SAMPLE MANAGEMENT INFORMATION</p> <p>SI: (H) (Non-Rad Env) <u>R-24</u> <u>12743</u> (Rad Env)</p> <p>Samples submitted are associated with a signed Project SOW: <u>YES</u> () NO <u>YES</u> () NO () N/A</p> <p>Analyses entered here agree with the SOW: <u>YES</u> () NO () N/A</p> <p>If not, identify the variation: <u>6 EC</u></p> <p>Subcontract Lab(s) used for this work: _____</p>												
ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC	MSD	Pres - Analysis	Pay Item, Analysis, Method			
DUS-06A	8/16/06	2:46 p	Soil	1	125 ml			Cool 4C	X			
DUS-06B		2:46 p	Soil	1	125 ml			Cool 4C	X			
DUS-07A		3:00 p	Soil	1	125 ml			Cool 4C	X			
DUS-07B		3:00 p	Soil	1	125 ml			Cool 4C	X			
DUS-08A		3:13 p	Soil	1	125 ml			Cool 4C	X			
DUS-08B		3:13 p	Soil	1	125 ml			Cool 4C	X			
DUS-09A	8/17/06	8:58 a	Soil	1	125 ml			Cool 4C	X			
DUS-09B		8:58 a	Soil	1	125 ml			Cool 4C	X			
DUS-10A		9:16 a	Soil	1	125 ml			Cool 4C	X			
DUS-10B		9:16 a	Soil	1	125 ml			Cool 4C	X			
<p>CUSTODY TRANSFER</p> <p>Sampled/Relinquished (print) _____ Signature _____ DATE / TIME _____</p> <p>Received by (print) _____ Signature _____ DATE / TIME _____</p>												
<p>Retention Code: ENV 5 (r1)</p> <p>BN-0732 (04/02)</p>												

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-11A
Sample ID: 171011001
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.861	+/-1.28	2.26	+/-1.29	2.00	pCi/g		TC1	09/20/06	1345	566387	1
Uranium-235/236	U	0.525	+/-0.985	1.91	+/-0.988	2.00	pCi/g						
Uranium-238	U	0.649	+/-1.15	2.17	+/-1.15	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	79	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-11A
Sample ID: 171011001

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

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Address : 2621 Losee Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-11B
Sample ID: 171011002
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.97	+/-0.944	0.942	+/-0.969	2.00	pCi/g		TC1	09/21/06	1342	566387	1
Uranium-235/236	U	0.122	+/-0.238	0.365	+/-0.239	2.00	pCi/g						
Uranium-238	U	0.786	+/-0.982	1.67	+/-0.986	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	87	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
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- A The TIC is a suspected aldol-condensation product
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- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
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Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-11B
Sample ID: 171011002

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Address : 2621 Losee Road
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North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-12A
Sample ID: 171011003
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.127	+/-0.822	1.54	+/-0.823	2.00	pCi/g		TC1	09/21/06	1342	566387	1
Uranium-235/236	U	0.0782	+/-0.343	0.749	+/-0.343	2.00	pCi/g						
Uranium-238		1.58	+/-0.690	0.700	+/-0.712	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

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- > Result is greater than value reported
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- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-12A
Sample ID: 171011003

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

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M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-12B
Sample ID: 171011004
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.85	+/-1.31	1.54	+/-1.34	2.00	pCi/g		TC1	09/20/06	1345	566387	1
Uranium-235/236	U	-0.0589	+/-0.494	1.18	+/-0.495	2.00	pCi/g						
Uranium-238	U	0.397	+/-0.550	0.595	+/-0.553	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- Ui Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-12B

Project:

NEVA00106

Sample ID:

171011004

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030---4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-13A
Sample ID: 171011005
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.92	+/-0.862	1.10	+/-0.888	2.00	pCi/g		TC1	09/21/06	1343	566387	1
Uranium-235/236	U	0.518	+/-0.435	0.566	+/-0.439	2.00	pCi/g						
Uranium-238	U	-0.18	+/-0.733	1.46	+/-0.733	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-321	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	89	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Address : 2621 Losee Road

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North Las Vegas, Nevada 89030---4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-13A

Project:

NEVA00106

Sample ID:

171011005

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Address : 2621 Losce Road

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-13B

Sample ID:

171011006

Matrix:

Soil

Collect Date:

17-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.48	+/-1.06	1.57	+/-1.07	2.00	pCi/g		TCI	09/21/06	1342	566387	1
Uranium-235/236		0.344	+/-0.389	0.344	+/-0.391	2.00	pCi/g						
Uranium-238		1.58	+/-0.944	1.24	+/-0.960	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	89	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-13B

Sample ID:

171011006

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-14A
Sample ID: 171011007
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.33	+/-1.48	1.38	+/-1.52	2.00	pCi/g		TC1	09/20/06	1345	566387	1
Uranium-235/236	U	0.638	+/-0.977	1.71	+/-0.981	2.00	pCi/g						
Uranium-238	U	1.14	+/-1.11	1.49	+/-1.12	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	77	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-14A

Sample ID:

171011007

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030---4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-14B

Sample ID:

171011008

Matrix:

Soil

Collect Date:

17-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.67	+/-0.837	0.715	+/-0.892	2.00	pCi/g						
Uranium-235/236	U	0.0719	+/-0.141	0.216	+/-0.141	2.00	pCi/g						
Uranium-238		1.57	+/-0.634	0.557	+/-0.659	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	63	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Address : 2621 Losee Road
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North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-14B
Sample ID: 171011008

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-15A

Sample ID:

171011009

Matrix:

Soil

Collect Date:

17-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.63	+/-1.64	2.38	+/-1.65	2.00	pCi/g		TC1	09/20/06	1345	566387	1
Uranium-235/236	U	0.758	+/-1.05	1.14	+/-1.06	2.00	pCi/g						
Uranium-238	U	-0.221	+/-0.250	1.87	+/-0.252	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	85	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-15A

Sample ID:

171011009

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
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North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project : Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-15B
Sample ID: 171011010
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.99	+/-1.18	1.17	+/-1.21	2.00	pCi/g		TC1	09/20/06	1345	566387	1
Uranium-235/236	U	0.157	+/-0.580	1.37	+/-0.581	2.00	pCi/g						
Uranium-232	U	0.405	+/-0.647	1.17	+/-0.649	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Address : 2621 Losee Road

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Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-15B

Sample ID:

171011010

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------------	-----

Y QC Samples were not spiked with this compound

^ RFD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Address : 2621 Losee Road
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North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-16A
Sample ID: 171011011
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.68	+/-1.54	2.21	+/-1.56	2.00	pCi/g	TC1	09/20/06	1345	566387	1	
Uranium-235/236	U	0.792	+/-1.09	1.74	+/-1.09	2.00	pCi/g						
Uranium-238	U	0.519	+/-0.896	1.68	+/-0.899	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	81	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-16A

Project:

NEVA00106

Sample ID:

171011011

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-16B

Sample ID:

171011012

Matrix:

Soil

Collect Date:

17-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.19	+/-1.40	2.25	+/-1.41	2.00	pCi/g		TC1	09/20/06	1345	566387	1
Uranium-235/236	U	-0.538	+/-0.398	2.48	+/-0.405	2.00	pCi/g						
Uranium-238	U	0.404	+/- 0.928	1.91	+/-0.930	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-16B

Sample ID:

171011012

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-17A

Sample ID:

171011013

Matrix:

Soil

Collect Date:

17-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.968	+/-1.26	2.11	+/-1.27	2.00	pCi/g		TCI	09/20/06	1345	566387	1
Uranium-235/236	U	0.00	+/-0.611	0.935	+/-0.611	2.00	pCi/g						
Uranium-238	U	0.958	+/-1.14	1.77	+/-1.14	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	90	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-17A

Sample ID:

171011013

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-17B
Sample ID: 171011014
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.60	+/-1.15	1.18	+/-1.17	2.00	pCi/g						
Uranium-235/236	U	0.420	+/-0.670	1.14	+/-0.673	2.00	pCi/g						
Uranium-238		1.55	+/-1.15	1.27	+/-1.17	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	70	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-17B

Project:

NEVA00106

Sample ID:

171011014

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Address : 2621 Losce Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-18A
Sample ID: 171011015
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.20	+/-1.02	1.44	+/-1.03	2.00	pCi/g	TC1		09/20/06	1345	566387	1
Uranium-235/236	U	0.143	+/-0.379	0.902	+/-0.380	2.00	pCi/g						
Uranium-238	U	0.536	+/-0.605	0.843	+/-0.609	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	82	(25%--125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-18A
Sample ID: 171011015

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030---4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-18B
Sample ID: 171011016
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.26	+/-1.31	1.32	+/-1.34	2.00	pCi/g						
Uranium-235/236	U	-0.202	+/-0.457	1.38	+/-0.457	2.00	pCi/g						
Uranium-238	U	0.789	+/-0.989	1.65	+/-0.994	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	92	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy---Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-18B
Sample ID: 171011016

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project : Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-19A
Sample ID: 171011017
Matrix: Soil
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.905	+/-0.979	1.47	+/-0.987	2.00	pCi/g	TC1	09/20/06	1345	566387	1	
Uranium-235/236	U	-0.049	+/-0.545	1.72	+/-0.546	2.00	pCi/g						
Uranium- 238	U	0.849	+/-0.884	1.21	+/-0.891	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	100	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-19A
Sample ID: 171011017

Project: NEVA00105
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound
^ KPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-19B
Sample ID: 171011018
Matrix: Soil
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.30	+/-1.58	2.41	+/-1.60	2.00	pCi/g	TC1	09/20/06	1345	566387	1	
Uranium-235/236	U	-0.117	+/-0.984	2.34	+/-0.986	2.00	pCi/g						
Uranium-238	U	1.79	+/-1.75	2.19	+/-1.77	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep, GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	56	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-19B

Project: NEVA00106

Sample ID:

171011018

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losce Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-20A
Sample ID: 171011019
Matrix: Soil
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mid
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.86	+/-1.16	0.981	+/-1.19	2.00	pCi/g						
Uranium-235/236	U	-0.0525	+/-0.441	1.05	+/-0.442	2.00	pCi/g						
Uranium-238		1.51	+/-1.05	0.981	+/-1.07	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	84	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-20A

Project:

NEVA00106

Sample ID:

171011019

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID: DUS-20B
Sample ID: 171011020
Matrix: Soil
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.40	+/-2.0i	2.34	+/-2.04	2.00	pCi/g		TC1	09/20/06	1412	566387	1
Uranium-235/236	U	0.473	+/-0.926	1.42	+/-0.929	2.00	pCi/g						
Uranium-238	U	1.35	+/-1.52	2.12	+/-1.53	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0913	565870

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 25, 2006

Client Sample ID:

DUS-20B

Project: NEVA00106

Sample ID:

171011020

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAU 484	BN Orig: B502	Send Report to: Mike Krucic	Phone: 295-7396	Fax: 295-6671	M/S: NTS306	Sampling Site: CAU 484 <u>Reactor DUS</u>	The samples submitted contain (check): ☐ () Hazardous - (list) _____ ☐ () Radioactive - (list) _____ ☐ () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.				
Charge Number: 581A1275		Turnaround: ☐ () Standard - 14 days III, 28 days Non-rad Env, 45 days Rad Env ☒ (X) RUSH Preliminary by: <u>7</u> <u>14</u> <u>28</u> (Radiological Env)									
Project Manager: Jeffrey Smith											
Phone: 295-7775	Fax: 295-7761	M/S: NTS306									
SAMPLE MANAGEMENT INFORMATION											
SIC: _____ (II) _____ (Non-Rad Env) <u>V2743</u> (Rad Env) Samples submitted are associated with a signed Project SOW. ☒ YES () NO Analyses entered here agree with the SOW. ☒ YES () NO () N/A If not, identify the variation: _____ Subcontract Lab(s) used for this work: <u>6EL</u>											
ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	QC MS	MSD	Pres - Analysis eg. HCT - VOCs	NAS-A-007	Pay Item, Analysis, Method
DUS-11A	8/17/06	9:48 A	Soil	1	125 ml				Cool 4C	X	
DUS-11B		9:48 A	Soil	1	125 ml				Cool 4C	X	
DUS-12A		10:02 A	Soil	1	125 ml				Cool 4C	X	
DUS-12B		10:02 A	Soil	1	125 ml				Cool 4C	X	
DUS-13A		10:16 A	Soil	1	125 ml				Cool 4C	X	
DUS-13B		10:16 A	Soil	1	125 ml				Cool 4C	X	
DUS-14A		10:27 A	Soil	1	125 ml				Cool 4C	X	
DUS-14B		10:27 A	Soil	1	125 ml				Cool 4C	X	
DUS-15A		10:38 A	Soil	1	125 ml				Cool 4C	X	
DUS-15B		10:38 A	Soil	1	125 ml				Cool 4C	X	
CUSTODY TRANSFER											
Sampled/Retained (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME						
Ben M. Lee		8/31/06 09:20	CO (45THUSAG)		8/31/06 09:20						
for CDC TEL		8/31/06 1300	for Ex # see attached		8/31/06 1300						
		9/5/06			9/5/06 0945

ANALYTICAL LABORATORY
SERVICES REQUEST AND CHAIN OF CUSTODY RECORD

171011 Page 13 of 18

PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION	
Project: CAU 484	UN Orig# 11502	Send Report to: Mike Krutze	Phone: 295-7396	Fax: 295-6671	M/S: NTS306
Charge Number: 5B1A1225		Phone: 295-7396	Fax: 295-6671	M/S: NTS306	
Project Manager: Jeffrey Smith		Turnaround: () Standard - 14 days (IL, 28 days (Non-Rad Env), 45 days (Rad Env)) (X) Rush Preliminary by: <u>8/14/06</u> (11)			
Phone: 295-7775	Fax: 295-7761	M/S: NTS306	1 2 7 14 (non-Rad Env) 1 7 14 28 (Radiological Env)		
Sampling Site: CAU 484 <u>Detox DUS</u> The samples submitted contain (check): () Hazardous - (list) _____ () Radioactive - (list) _____ () Unknown contamination. If known, identify _____ contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.					

SAMPLE MANAGEMENT INFORMATION

Site: _____ (III) _____ (Non-Rad Env) V2743 (Rad Env)
Samples submitted are associated with a signed Project SOW. NO YES () NO () N/A
Analyses entered here agree with the SOW. NO YES () NO () N/A
If not, identify the variation: _____
Subcontract Lab(s) used for this work: CEL

DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	YTD	QC MIS	MSD	Pres. Analysis eg. HCT - VOCs	NAS-A-002	Pay Item, Analysis, Method
DUS-16A	8/17/06	10:54A	Soil	1	125 ml				Cool 4C	X	Iso Uranium
DUS-16B		10:54A	Soil	1	125 ml				Cool 4C	X	
DUS-17A		11:05A	Soil	1	125 ml				Cool 4C	X	
DUS-17B		11:05A	Soil	1	125 ml				Cool 4C	X	
DUS-18A		11:16A	Soil	1	125 ml				Cool 4C	X	
DUS-18B		11:16A	Soil	1	125 ml				Cool 4C	X	
DUS-19A	8/21/06	13:35	Soil	1	125 ml				Cool 4C	X	
DUS-19B		13:35	Soil	1	125 ml				Cool 4C	X	
DUS-20A		13:59	Soil	1	125 ml				Cool 4C	X	
DUS-20B		13:59	Soil	1	125 ml				Cool 4C	X	

CUSTODY TRANSFER

Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
Ben NTCCE		08/16/06 09:20	P.D. CASARENA		8/31/06 09:20
for CDC Lead		8/31/06 1300	for Ex # 2		8/31/06 1300
		9/15/06	K. King		9/15/06 09:15

Retention Code: ENV 5.c(1) BN-0732 (04/02)

Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC
Client Project Name: CAU 484
Client Project Number: V2760

Laboratory Name: Paragon Analytics
PAI Work Order: 0610009

Page: 1 of 1
Reported on: Tuesday, October 17, 2006
12:36:05 PM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0610009-1	DUS-21A	Sample	U-233/234	1.60E+00 +/- 4.79E-01	2.94E-01	pCi/g	SOIL	AS061010-5	10/13/2006	LT
0610009-1	DUS-21A	Sample	U-235	1.40E-01 +/- 1.38E-01	1.96E-01	pCi/g	SOIL	AS061010-5	10/13/2006	U
0610009-1	DUS-21A	Sample	U-238	2.42E+00 +/- 6.22E-01	2.02E-01	pCi/g	SOIL	AS061010-5	10/13/2006	

Comments:

Data Package ID: U0610009-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
LT - Result is less than Requested MDC, greater than sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
M - The requested MDC was not met.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION
Project: CAU 484	UN Drg#: B502	Send Report to: Mike Kuzic		Sampling Site: CAU 484 DU Site The samples submitted contain (check): ☐ Hazardous - (list) _____ ☐ Radioactive - (list) _____ ☒ Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials. ☒ No - (list) _____
Charge Number: SBIA12Z5	Phone: 295-7396	Fax: 295-6671	M/S: NTS306	
Project Manager: Jeffrey Smith	Turnaround: ☐ Standard 14 days (H, 28 days Non-rad Env., 45 days Rad Env.) ☒ RUSH Preliminary by: _____ (H) _____ 1 _____ 2 _____ 7 _____ 14 (non-Rad Env.) _____ 1 _____ 7 _____ X _____ 14 _____ 28 (Radiological Env.)			
Phone: 295-7775	Fax: 295-7761	M/S: NTS306		

SAMPLE MANAGEMENT INFORMATION

SDG: _____ (III) _____ (Non-Rad Env) 1276D (Rad Env)

Samples submitted are associated with a signed Project SOW. ☐ YES ☐ NO

Analyses entered here agree with the SOW. ☐ YES ☐ NO ☐ N/A

If not, identify the variation: _____

Subcontract Lab(s) used for this work: AFRACAL

Pay Item, Analysis, Method	
NAS-A-002	
Uranium	

ID/DESCRIPTION		TIME	MATRIX	CONTAINER #	CONTAINER Est. Vol	MID	QC		Pres - Analysis HCl - VOCs	Iso U
							MS	MSD		
DUS-21A	9/25/06	4:05	Soil	1	125 ml				Cool 4C	X
<div style="text-align: center;"> </div>										

<u>CUSTODY TRANSFER</u>			
Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)
Michael Krueze		9/28/06 7:30	
Robygaras	ALB	9/28/06 5:15	Michael Krueze
Michael Krueze		9/28/06 8:56	JEPAY DUCAS
Michael Krueze		9/28/06 13:00	Michael Krueze
Felix		10/3/06	10/3/06

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-21B

Sample ID:

171014001

Matrix:

Soil

Collect Date:

21-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.421	+/-0.610	1.05	+/-0.613	2.00	pCi/g	RDD	09/18/06	1350	566389		
Uranium-235/236	U	0.308	+/-0.531	0.993	+/-0.533	2.00	pCi/g						
Uranium-238	U	0.457	+/-0.606	0.990	+/-0.610	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	80	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-21B

Sample ID:

171014001

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt.
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-22A

Sample ID:

171014002

Matrix:

Soil

Collect Date:

21-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.17	+/-0.764	0.766	+/-0.782	2.00	pCi/g		RDD	09/18/06	1350	566389	
Uranium-235/236	U	0.471	+/-0.523	0.769	+/-0.527	2.00	pCi/g						
Uranium-238	U	0.586	+/-0.569	0.766	+/-0.575	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	89	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-22A

Sample ID:

171014002

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gei.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: DUS-22B
Sample ID: 171014003
Matrix: Soil
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.790	+/- 0.829	1.01	+/-0.840	2.00	pCi/g		RDD	09/18/06	1350	566389	
Uranium-235/236	U	-0.354	+/-0.262	1.63	+/-0.269	2.00	pCi/g						
Uranium-238	U	0.218	+/-0.615	1.38	+/-0.616	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	50	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-22B

Sample ID:

171014003

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: DUS-23A
Sample ID: 171014004
Matrix: Soil
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.28	+/-0.770	0.837	+/-0.791	2.00	pCi/g		RDD	09/18/06	1350	566389	I
Uranium-235/236	U	-0.192	+/-0.133	0.808	+/-0.136	2.00	pCi/g						
Uranium-238	U	0.255	+/-0.408	0.738	+/-0.409	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	90	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
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- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030---4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-23A

Project: NEVA00106

Sample ID:

i71014004

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------------	----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: DUS-23B
Sample ID: 171014005
Matrix: Soil
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.885	+/-0.708	0.948	+/-0.718	2.00	pCi/g		RDD	09/18/06	1350	566389	
Uranium-235/236	U	0.378	+/-0.481	0.785	+/-0.484	2.00	pCi/g						
Uranium-238	U	0.673	+/-0.644	0.948	+/-0.651	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	96	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 -- (843) 556 8171 -- www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030--4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-23B

Project: NEVA00106

Sample ID:

171014005

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: DUS-24A
Sample ID: 171014006
Matrix: Soil
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt.
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.90	+/-1.03	1.09	+/-1.06	2.00	pCi/g		RDD	09/18/06	1350	566389	1
Uranium-235/236	U	0.0379	+/-0.360	0.918	+/-0.360	2.00	pCi/g						
Uranium-238	U	0.690	+/-0.676	0.991	+/-0.683	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	90	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy---Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-24A

Sample ID:

171014006

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: DUS-24B
Sample ID: 171014007
Matrix: Soil
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		0.974	+/-0.712	0.866	+/-0.724	2.00	pCi/g		RDD	09/18/06	1350	566389	I
Uranium-235/236	U	0.138	+/-0.311	0.657	+/-0.311	2.00	pCi/g						
Uranium-238	U	0.678	+/-0.609	0.831	+/-0.616	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	92	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-24B

Sample ID:

171014007

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Address : 2621 Losce Road

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-25A

Sample ID:

171014008

Matrix:

Soil

Collect Date:

21-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00006

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.94	+/-0.951	0.649	+/-0.985	2.00	pCi/g		RDD	09/18/06	1350	566389	1
Uranium-235/236	U	0.179	+/-0.335	0.651	+/-0.336	2.00	pCi/g						
Uranium-238		1.32	+/-0.802	0.716	+/-0.821	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	94	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-25A

Project: NEVA00106

Sample ID:

171014008

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-25B

Sample ID:

171014009

Matrix:

Soil

Collect Date:

21-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.09	+/-1.09	0.795	+/-1.13	2.00	pCi/g		RDD	09/18/06	1350	566389	1
Uranium-235/236	U	-0.104	+/-0.117	0.880	+/-0.118	2.00	pCi/g						
Uranium-238	U	0.615	+/-0.640	0.877	+/-0.646	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	83	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

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Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030---4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-25B

Project:

NEVA00106

Sample ID:

171014009

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: DUS-26A
Sample ID: 171014010
Matrix: Soil
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.34	+/-0.850	0.918	+/-0.868	2.00	pCi/g		RDD	09/18/06	1350	566389	1
Uranium-235/236	U	0.0333	+/-0.252	0.726	+/-0.252	2.00	pCi/g						
Uranium-238		1.07	+/-0.597	0.355	+/-0.711	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	102	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-26A

Project:

NEVA00106

Sample ID:

171014010

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: DUS-26B
Sample ID: 171014011
Matrix: Soil
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtu
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.07	+/-0.816	0.958	+/-0.829	2.00	pCi/g						
Uranium-235/236	U	0.175	+/-0.396	0.837	+/-0.397	2.00	pCi/g	RDD		09/18/06	1350	566389	I
Uranium-238	U	0.448	+/-0.547	0.834	+/-0.550	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	90	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-26B

Project: NEVA00106

Sample ID:

171014011

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-27A

Sample ID:

171014012

Matrix:

Soil

Collect Date:

21-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.59	+/-0.880	0.859	+/-0.903	2.00	pCi/g		RDD	09/18/06	1350	566389	1
Uranium-235/236	U	-0.0178	+/-0.346	0.932	+/-0.346	2.00	pCi/g						
Uranium-238	U	0.590	+/-0.591	0.859	+/-0.596	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	97	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-27A

Sample ID:

171014012

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: DUS-27B
Sample ID: 171014013
Matrix: Soil
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	M
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.18	+/-0.846	0.871	+/-0.861	2.00	pCi/g		RDD	09/18/06	1350	566389	
Uranium-235/236	U	0.0457	+/-0.434	1.11	+/-0.434	2.00	pCi/g						
Uranium-238	U	0.861	+/-0.751	0.939	+/-0.760	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	81	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-27B

Sample ID:

171014013

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL.

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407- (343) 556-8171 - www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-28A

Sample ID:

171014014

Matrix:

Soil

Collect Date:

21-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.05	+/-0.792	0.998	+/-0.804	2.00	pCi/g		RDD	09/18/06	1350	566389	1
Uranium-235/236	U	0.392	+/-0.478	0.729	+/-0.481	2.00	pCi/g						
Uranium-238	U	0.809	+/-0.672	0.835	+/-0.680	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	92	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-28A

Project: NEVA00106

Sample ID:

171014014

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: DUS-28B
Sample ID: 171014015
Matrix: Soil
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		3.75	+/-1.41	0.992	+/-1.49	2.00	pCi/g		RDD	09/18/06	1350	566389	1
Uranium-235/236	U	0.354	+/-0.440	0.616	+/-0.443	2.00	pCi/g						
Uranium-238		3.11	+/-1.26	0.782	+/-1.33	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1302	565877

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	91	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-28B

Sample ID:

171014015

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtu
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: DUS-29A
Sample ID: 171014016
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.516	+/-0.592	0.925	+/-0.596	2.00	pCi/g		RDD	09/18/06	1350	566389	1
Uranium-235/236	U	0.0671	+/-0.359	0.886	+/-0.360	2.00	pCi/g						
Uranium-238	U	0.664	+/-0.634	0.883	+/-0.640	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	90	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-29A

Project: NEVA00106

Sample ID:

171014016

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: DUS-29B
Sample ID: 171014017
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtr
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	0.738	+/-0.866	1.39	+/-0.872	2.00	pCi/g						
Uranium-235/236	U	-0.116	+/-0.131	0.983	+/-0.132	2.00	pCi/g						
Uranium-238	U	0.969	+/-0.846	1.06	+/-0.856	2.00	pCi/g						

RDD 09/18/06 1350 566389 1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	79	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-29B

Sample ID:

171014017

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID: DUS-30A
Sample ID: 171014018
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtc
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.22	+/-0.883	1.10	+/-0.897	2.00	pCi/g		RDD	09/18/06	1350	566389	1
Uranium-235/236	U	-0.209	+/-0.319	1.14	+/-0.320	2.00	pCi/g						
Uranium-238	U	0.706	+/-0.675	0.940	+/-0.681	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	93	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losce Road

M/S NTS273

North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-30A

Sample ID:

171014018

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtr
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------------	-----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using $\pm$ RL. Concentrations are $<5X$ the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-30B

Sample ID:

171014019

Matrix:

Soil

Collect Date:

22-AUG-06

Receive Date:

06-SEP-06

Collector:

Client

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.44	+/-0.908	1.02	+/-0.927	2.00	pCi/g						
Uranium-235/236	U	0.156	+/-0.352	0.745	+/-0.353	2.00	pCi/g						
Uranium-238	U	0.826	+/-0.686	0.852	+/-0.694	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LXM2	09/07/06	1002	565877

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	91	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 20, 2006

Client Sample ID:

DUS-30B

Sample ID:

171014019

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mt
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	----

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

PROJECT / CLIENT INFORMATION				REPORT & TURN-AROUND INFORMATION				SAMPLE INFORMATION				
Project: CAU 484		BN Orig# B502		Send Report to: Mike Krutz		Phone: 295-7396		Fax: 295-6671		MIS: NTS306		
Charge Number: 5B1A12/5		Project Manager: Jeffrey Smith		Turnaround: () Standard - 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env) (H)		(X) RUSH Preliminary by: 1 2 7 14 28 (Radiological Env)		MIS: NTS306		Sampling Site: CAU 484 Bldg 5 DUS		
Phone: 295-7775		Fax: 295-7761		MIS: NTS306						The samples submitted contain (check): () Hazardous - (list) () Radioactive - (list) () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.		
SAMPLE MANAGEMENT INFORMATION												
SPOG: (H) (Non-Rad Env) V2743 (Rad Env)												
Samples submitted are associated with a signed Project SOW. (X) YES () NO												
Analyses entered here agree with the SOW. (X) YES () NO () N/A												
If not, identify the variation: CEL												
Subcontract Lab(s) used for this work: CEL												
ID/DESCRIPTION	SAMPLE #	DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	QC MS	MSD	Pres - Analysis eg. HCl - VOCs	NAS-A-002	Pay Item, Analysis, Method
DUS-21A <i>Rock</i>	8/21/06	14:16		Soil	1	125 ml				Cool 4C	X	
DUS-21B		14:16		Soil	1	125 ml				Cool 4C	X	
DUS-22A		14:31		Soil	1	125 ml				Cool 4C	X	
DUS-22B		14:31		Soil	1	125 ml				Cool 4C	X	
DUS-23A		14:47		Soil	1	125 ml				Cool 4C	X	
DUS-23B		14:47		Soil	1	125 ml				Cool 4C	X	
DUS-24A		14:59		Soil	1	125 ml				Cool 4C	X	
DUS-24B		14:59		Soil	1	125 ml				Cool 4C	X	
DUS-25A		15:24		Soil	1	125 ml				Cool 4C	X	
DUS-25B		15:24		Soil	1	125 ml				Cool 4C	X	
CUSTODY TRANSFER												
Sampled/Retinquished (print)		Signature		DATE / TIME		Received by (print)		Signature		DATE / TIME		
Dev McGee				08/31/06 09:20		C.D. CASTRONEVA				8/31/06 09:20		
for CDC Test				8/31/06 1300		Fed Ex #		for Analysis		8/31/06 1300		
				9/5/06		K. Wong				9/5/06 09:05		

PROJECT / CLIENT INFORMATION

REPORT & TURNAROUND INFORMATION

SAMPLE INFORMATION

Project: CAU 484	BN Org#: B502	Send Report to: Mike Krutz	Phone: 295-7396	Fax: 295-6671	M/S: NTS306
Charge Number: 581A12/5		Turnaround: () Standard - 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env) (H)			
Project Manager: Jeffrey Smith		(X) RUSH Preliminary by: _____			
Phone: 295-7775	Fax: 295-7761	M/S: NTS306			
			1 - 2 - 7 - 14 - 28 (Radiological Env)		
Sampling Site: CAU 484 Bechtel DLS			The samples submitted contain (check):		
			() Hazardous - (list) _____		
			() Radioactive - (list) _____		
			() Unknown contamination. If known, identify _____		
			contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.		

SAMPLE MANAGEMENT INFORMATION

Pay Item, Analysis, Method

SIDG: _____ (H) _____ (Non-Rad Env) V2743 (Rad Env)

Samples submitted are associated with a signed Project SOW. (X) YES () NO

Analyses entered here agree with the SOW. (X) YES () NO () N/A

If not, identify the variation: _____

Subcontract Lab(s) used for this work: CEL

DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	MS	MSD	cg	Pres - Analysis HCL - VOCs	NAS-A-002								
DUS-26A	8/21/06	15:48	Soil	1	125 ml					Cool 4C	X								
DUS-26B		15:48	Soil	1	125 ml					Cool 4C	X								
DUS-27A		16:03	Soil	1	125 ml					Cool 4C	X								
DUS-27B		16:03	Soil	1	125 ml					Cool 4C	X								
DUS-28A		16:14	Soil	1	125 ml					Cool 4C	X								
DUS-28B		16:14	Soil	1	125 ml					Cool 4C	X								
DUS-29A	8/22/06	08:44A	Soil	1	125 ml					Cool 4C	X								
DUS-29B		08:44A	Soil	1	125 ml					Cool 4C	X								
DUS-30A		09:06A	Soil	1	125 ml					Cool 4C	X								
DUS-30B		09:06A	Soil	1	125 ml					Cool 4C	X								

CUSTODY TRANSFER

Sampled/Relinquished (Print)	Signature	DATE / TIME	Received by (Print)	Signature	DATE / TIME
Ben McGehee		08/21/06 09:20	C.D. ASTANEDA		8/21/06 09:20
for CDE Tech		8/31/06 1300	Red Ex # Joe Hatcher		8/31/06 1300
		9/5/06	K. D. Nugent		9/6/06 0945

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID:	DUS-31A	Project:	NEVA00106
Sample ID:	171003001	Client ID:	NEVA002
Matrix:	Soil		
Collect Date:	22-AUG-06		
Receive Date:	06-SEP-06		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		3.84	+/-1.27	1.13	+/-1.34	2.00	pCi/g						
Uranium-235/236		0.566	+/-0.496	0.339	+/-0.500	2.00	pCi/g		TCI	09/21/06	1342	566385	I
Uranium-238		2.11	+/-0.860	0.275	+/-0.892	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	80	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID:

DUS-31A

Sample ID:

171003001

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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UI Gamma Spectroscopy—Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-31B
Sample ID: 171003002
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RI	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		5.51	+/-1.52	0.978	+/-1.64	2.00	pCi/g						
Uranium-235/236		1.01	+/-0.782	0.966	+/-0.790	2.00	pCi/g						
Uranium-238		1.84	+/-0.939	0.978	+/-0.961	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	82	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID:

DUS-31B

Sample ID:

171003002

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-32A
Sample ID: 171003003
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.93	+/-1.46	1.80	+/-1.49	2.00	pCi/g						
Uranium-235/236	U	0.435	+/-0.816	1.59	+/-0.819	2.00	pCi/g						
Uranium-238		2.27	+/-1.53	1.63	+/-1.56	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID:

DUS-32A

Sample ID:

171003003

Project: NEVA00106

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-32B
Sample ID: 171003004
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.05	+/-0.900	0.970	+/-0.929	2.00	pCi/g						
Uranium-235/236	U	0.487	+/-0.573	0.933	+/-0.575	2.00	pCi/g						
Uranium-238	U	0.709	+/-0.673	1.06	+/-0.678	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	82	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
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- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID:

DUS-32B

Sample ID:

171003004

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-33A
Sample ID: 171003005
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		4.06	+/-1.19	0.662	+/-1.27	2.00	pCi/g						
Uranium-235/236	U	0.535	+/-0.554	0.818	+/-0.558	2.00	pCi/g						
Uranium-238		1.82	+/-0.777	0.259	+/-0.803	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	78	(25%-125%)

Notes:

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- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID:

DUS-33A

Sample ID:

171003005

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030-4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-33B
Sample ID: 171003006
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.12	+/-1.10	1.39	+/-1.13	2.00	pCi/g						
Uranium-235/236	U	0.358	+/-0.701	1.32	+/-0.702	2.00	pCi/g	TC1		09/21/06	1810	566385	1
Uranium-238		1.45	+/-0.824	0.924	+/-0.839	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	86	(25%-125%)

Notes:

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- < Result is less than value reported
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- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID:

DUS-33B

Sample ID:

171003006

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-34A
Sample ID: 171003007
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.84	+/-1.72	1.69	+/-1.76	2.00	pCi/g		TC1	09/20/06	0932	566385	1
Uranium-235/236		0.892	+/-1.01	0.892	+/-1.02	2.00	pCi/g						
Uranium-238		1.81	+/-1.34	1.33	+/-1.36	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	92	(25%-125%)

Notes:

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- * A quality control analyte recovery is outside of specified acceptance criteria
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- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-34A
Sample ID: 171003007

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd
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Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-34B
Sample ID: 171003008
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		3.23	+/-1.34	1.50	+/-1.39	2.00	pCi/g						
Uranium-235/236		1.16	+/-0.757	0.386	+/-0.768	2.00	pCi/g	TC1		09/21/06	1342	566385	1
Uranium-238		2.50	+/-1.08	0.998	+/-1.12	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	72	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-34B
Sample ID: 171003008

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd
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- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-35A
Sample ID: 171003009
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		4.10	+/-2.23	1.68	+/-2.30	2.00	pCi/g						
Uranium-235/236	U	0.374	+/-0.734	1.12	+/-0.736	2.00	pCi/g						
Uranium-238	U	0.994	+/-1.21	1.85	+/-1.22	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	95	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Address : 2621 Losee Road

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North Las Vegas, Nevada 89030-4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID:

DUS-35A

Sample ID:

171003009

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-35B
Sample ID: 171003010
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		1.59	+/-1.27	1.35	+/-1.29	2.00	pCi/g						
Uranium-235/236	U	-0.217	+/-0.245	1.84	+/-0.247	2.00	pCi/g						
Uranium-238	U	1.29	+/-1.19	1.49	+/-1.20	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	96	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-35B
Sample ID: 171003010

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID:	DUS-36A	Project:	NEVA00106
Sample ID:	171003011	Client ID:	NEVA002
Matrix:	Soil		
Collect Date:	22-AUG-06		
Receive Date:	06-SEP-06		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		3.55	+/-1.05	0.708	+/-1.13	2.00	pCi/g	TC1		09/21/06	1342	566385	1
Uranium-235/236		1.55	+/-0.781	0.700	+/-0.802	2.00	pCi/g						
Uranium-238		1.85	+/-0.781	0.708	+/-0.810	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	50	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-36A
Sample ID: 171003011

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-36B
Sample ID: 171003012
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
Alphaspec U, Solid 2pCi/g													
Uranium-233/234		2.44	+/-0.962	0.967	+/-1.00	2.00	pCi/g						
Uranium-235/236	U	0.583	+/-0.539	0.744	+/-0.543	2.00	pCi/g	TC1	09/21/06	1342	566385	1	
Uranium-238		1.18	+/-0.635	0.602	+/-0.649	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	77	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-36B
Sample ID: 171003012

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Certificate of Analysis

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Address : 2621 Losee Road
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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-37A
Sample ID: 171003013
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.28	+/-0.854	0.705	+/-0.891	2.00	pCi/g						
Uranium-235/236	U	0.273	+/-0.472	0.872	+/-0.473	2.00	pCi/g	TC1	09/21/06	1343	566385	1	
Uranium-238		1.55	+/-0.750	0.814	+/-0.769	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	82	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-37A
Sample ID: 171003013

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-37B
Sample ID: 171003014
Matrix: Soil
Collect Date: 17-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234		2.66	+/-0.830	0.781	+/-0.881	2.00	pCi/g						
Uranium-235/236	U	0.0671	+/-0.294	0.642	+/-0.294	2.00	pCi/g						
Uranium-238		1.36	+/-0.573	0.520	+/-0.592	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, U-02-RC Modified
2	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	89	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID:

DUS-37B

Sample ID:

171003014

Project:

NEVA00106

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-38A
Sample ID: 171003015
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.10	+/-0.976	1.35	+/-0.988	2.00	pCi/g						
Uranium-235/236	U	-0.0957	+/-0.413	1.10	+/-0.413	2.00	pCi/g						
Uranium-238	U	0.613	+/-0.727	1.13	+/-0.732	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	76	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy---Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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North Las Vegas, Nevada 89030—4134

Contact: Mr. Ted Redding

Report Date: September 24, 2006

Project: Environmental Rad Analysis

Client Sample ID:

DUS-38A

Project:

NEVA00106

Sample ID:

171003015

Client ID:

NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-38B
Sample ID: 171003016
Matrix: Soil
Collect Date: 22-AUG-06
Receive Date: 06-SEP-06
Collector: Client
Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Solid 2pCi/g</i>													
Uranium-233/234	U	1.36	+/-1.36	1.98	+/-1.38	2.00	pCi/g	TCI		09/20/06	0932	566385	1
Uranium-235/236	U	0.316	+/-0.619	0.948	+/-0.621	2.00	pCi/g						
Uranium-238	U	0.583	+/-0.893	1.56	+/-0.896	2.00	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	JMB1	09/07/06	0856	565864

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Solid 2pCi/g	80	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030—4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: September 24, 2006

Client Sample ID: DUS-38B
Sample ID: 171003016

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h Preparation or preservation holding time was exceeded
The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.
Address : 2621 Losee Road
M/S NTS273
North Las Vegas, Nevada 89030--4134
Contact: Mr. Ted Redding
Project: Environmental Rad Analysis

Report Date: November 28, 2006

Client Sample ID: DUS-R1
Sample ID: 171015002
Matrix: Water
Collect Date: 21-AUG-06
Receive Date: 06-SEP-06
Collector: Client

Project: NEVA00106
Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec U, Liquid 2pCi/L</i>													
Uranium-233/234	U	1.90	+/-3.04	5.18	+/-3.06	2.00	pCi/L	TC1	09/20/06	1012	566391	1	
Uranium-235/236	U	-0.32	+/-2.69	6.40	+/-2.70	2.00	pCi/L						
Uranium-238	U	1.08	+/-2.12	3.24	+/-2.13	2.00	pCi/L						

The following Analytical Methods were performed

Method	Description
	DOE EML HASL-300, U-02-RC Modified
	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Uranium-232	Alphaspec U, Liquid 2pCi/L	23 *	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
- h Preparation or preservation holding time was exceeded

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Bechtel Nevada Corp.

Address : 2621 Losee Road

M/S NTS273

North Las Vegas, Nevada 89030---4134

Contact: Mr. Ted Redding

Project: Environmental Rad Analysis

Report Date: November 28, 2006

Client Sample ID:

DUS-R1

Project: NEVA00106

Sample ID:

171015002

Client ID: NEVA002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd
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The above sample is reported on an "as received" basis.

PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION	
Project: CAU 484	BN Org#: 18502	Send Report to: Mike Kruse	Phone: 295-7396	Fax: 295-6671	M/S: NTS306
Charge Number: 5B1A12/5		Turnaround: ☒ Standard - 14 days (11), 28 days (Non-rad Env), 45 days (Rad Env) (11)	☒ RUSH Preliminary by: <u>1 2 7 14 28</u> (11)		
Project Manager: Jeffrey Smith		Sampling Site: <u>CAU 484 Data 25 DUS</u>			
Phone: 295-7775	Fax: 295-7761	The samples submitted contain (check): ☐ Hazardous - (list) _____ ☐ Radioactive - (list) _____ ☐ Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			

SID: _____ (11) _____ (Non-Rad Env) V2743 (Rad Env)

Samples submitted are associated with a signed Project SOW. ☒ YES () NO

Analyses entered here agree with the SOW. ☒ YES () NO () N/A

If not, identify the variation: _____

Subcontract Lab(s) used for this work: GLC

ID/DESCRIPTION	DATE	PLINING TIME	MATRIX	CONTAINER #	Est. Vol	QC MID	MSD	Pres - Analysis eg. HCT - VOCs	Pay Item, Analysis, Method	
									NAS-A-002	
DUS-31A	8/22/06	09:17A	Soil	1	125 ml			Cool 4C	X	
DUS-31B		09:17A	Soil	1	125 ml			Cool 4C	X	
DUS-32A		09:17A	Soil	1	125 ml			Cool 4C	X	
DUS-32B		09:17A	Soil	1	125 ml			Cool 4C	X	
DUS-33A		09:37A	Soil	1	125 ml			Cool 4C	X	
DUS-33B		08:37A	Soil	1	125 ml			Cool 4C	X	
DUS-34A		08:49A	Soil	1	125 ml			Cool 4C	X	
DUS-34B		08:49A	Soil	1	125 ml			Cool 4C	X	
DUS-35A		10:22A	Soil	1	125 ml			Cool 4C	X	
DUS-35B		10:22A	Soil	1	125 ml			Cool 4C	X	

CUSTODY TRANSFER		Received by (print)		Signature		DATE / TIME	
Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME		
<u>Ben McNamee</u>		08/31/06 09:20	<u>C.A. CASTANEDA</u>		8/31/06 09:20		
<u>Ben CDC TGA</u>		9/5/06 01:30	<u>Fed Ex # 46044444</u>		9/5/06 01:30		
			<u>K. Longest</u>		9/6/06 09:45

ANALYTICAL LABORATORY
SERVICES REQUEST AND CHAIN OF CUSTODY RECORD

171003 Page 17 of 18

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION				
Project: CAU 484	ISN Orig# B502	Send Report to: Mike Kravitz		Phone: 295-7396	Fax: 295-6671	M/S: NTS306	Sampling Site: CAU 484 <u>Bechtel DUS</u>					
Charge Number: SBIAT25	Turnaround: () Standard - 14 days (H), 28 days (Non-rad Env), 55 days (Rad Env) (H)			Preliminary by: <u>X</u> RUSH			The samples submitted contain (check): () Hazardous - (H) () Radioactive - (R) () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.					
Project Manager: Jeffrey Smith	Phone: 295-7775			Fax: 295-7761	M/S: NTS306							
SAMPLE MANAGEMENT INFORMATION								Pay Item, Analysis, Method				
SDE: (H) (Non-Rad Env) <u>V2743</u> (Rad Env)								NAS-A-002				
Samples submitted are associated with a signed Project SOW. <u>X</u> YES () NO												
Analyses entered here agree with the SOW. <u>X</u> YES () NO () N/A												
If not, identify the variation: <u>CEL</u>												
Subcontract Lab(s) used for this work: <u>CEL</u>												
DESCRIPTION	DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC MD	MSD	Pres - Analysis eg. HCL - VOCs	Iso Uranium			
DUS-36A	8/22/06	10:14 A	Soil	1	125 ml		X	Cool 4C	X			
DUS-36B	8/22/06	10:14 A	Soil	1	125 ml			Cool 4C	X			
DUS-37A	8/17/06	9:16 A	Soil	1	125 ml			Cool 4C	X			
DUS-37B	8/17/06	9:16 A	Soil	1	125 ml			Cool 4C	X			
DUS-38A	8/22/06	11:59 A	Soil	1	125 ml			Cool 4C	X			
DUS-38B	8/22/06	11:59 A	Soil	1	125 ml			Cool 4C	X			
DUS-39A			Soil	1	125 ml			Cool 4C	X			
DUS-39B			Soil	1	125 ml			Cool 4C	X			
DUS-40A			Soil	1	125 ml			Cool 4C	X			
DUS-40B			Soil	1	125 ml			Cool 4C	X			
CUSTODY TRANSFER												
Sampled/Relinquished (print)		Signature		DATE / TIME		Received by (print)		Signature		DATE / TIME		
Ben McGee				8/31/06 09:10		C.D. CASTAGNOLA				8/31/06 09:22		
Ben McGee				9/5/06 09:30		Ted Ex # 200				9/5/06 09:30		
						L. Wright				9/10/06 09:45		

PROJECT / CLIENT INFORMATION

Project: CAU 484

BN Order: B502

Charge Number: 5B1A1225

Project Manager: Jeffrey Smith

Phone: 295-7775

Fax: 295-7761

M/S: NTS306

REPORT & TURNAROUND INFORMATION

Send Report to: Mike Krutze

Phone: 295-7396

Fax: 295-6671

M/S: NTS306

Turnaround: () Standard - 14 days IH, 28 days Non-rad Env, 45 days Rad Env
() RUSH Preliminary by: 1 2 7 14 28 (Radiological Env)

SAMPLE MANAGEMENT INFORMATION

SDG: _____

(IH)

(Non-Rad Env)

12743

(Rad Env)

Samples submitted are associated with a signed Project SOW. ☒ YES () NO

Analyses entered here agree with the SOW. ☒ YES () NO () N/A

If not, identify the variation: _____

Subcontract Lab(s) used for this work: CEL

Pay Item, Analysis, Method

NAS-A-013

Iso Uranium

ID/DESCRIPTION

SAMPLE DATE

TIME

MATRIX

CONTAINER #

Est Vol

MD

MS

MSD

cg

HCl - VOCs

HNO3

8/21/06

10:00

Water

1

1 L

CUSTODY TRANSFER

Sampled/Relinquished (print)

Signature

DATE / TIME

Received by (print)

Signature

DATE / TIME

Ben Hume

08/31/06 07:20

C.D. CASTRONEA

8/31/06 @ 09:20

W.C. Ted Redding

9/5/06 @ 1:30

Fed Ex # Joe Atkinson

9/6/06 0545

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION						
Project: CAU 484		UN Org#: B302		Send Report to: Mike Krueger		Sampling Site: CAU 484 Padrock DCS		The samples submitted contain (check): ☐ Hazardous - (list) _____ ☐ Radioactive - (list) _____ ☐ Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.						
Charge Number: 5B1A1225		Phone: 295-7396		Fax: 295-6071		M/S: NTS306								
Project Manager: Jeffrey Smith		Turnaround: () Standard - 14 days (H), 28 days (Non-rad Env), 45 days (Rad Env) (H)		☒ RUSH Preliminary by: <u>1</u> <u>2</u> <u>7</u> <u>14</u> <u>28</u> (Radiological Env)										
Phone: 295-7775		Fax: 295-7761		M/S: NTS306										
SAMPLE MANAGEMENT INFORMATION								Pay Item, Analysis, Method						
S/D: _____ (H) _____ (Non-Rad Env) <u>V2743</u> (Rad Env) Samples submitted are associated with a signed Project SOW. ☒ YES () NO Analyses entered here agree with the SOW. ☒ YES () NO () N/A If not, identify the variation: _____ Subcontract Lab(s) used for this work: <u>CEL</u>														
ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC M/D	MSD	Pres - Analysis eg: HCL - VOCs	NAS-A-013					
DUS-R1	8/21/06	10:00	Water	1	1 L.			HNO3	X	Iso Uranium				
<div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); background-size: 40px 40px;"></div>														
CUSTODY TRANSFER														
Sampled/Relinquished (print)		Signature		DATE / TIME		Received by (print)		Signature		DATE / TIME				
Ben Hume				08/31/06 07:20		C.D. CASTANEDA				8/31/06 09:20				
Joe Ted				9/5/06 01:30		Fed Ex # Joe Ted				9/5/06 01:30				
										9/6/06 09:45				

**INVESTIGATION (GEOPROBE[®])
SOIL SAMPLE ANALYTICAL RESULTS**

**CAS TA-52-004-TAAL
METAL PARTICLE DISPERSION TEST**

Chemical Data

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

MPDT-01A

01B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	SDG No.: V2745
Lab Code: LVL1	Case No.: MPDT	SAS No.:
Matrix (soil/water): SOIL	Lab Sample ID: 0609L894-002	
Level (low/med): LOW	Date Received: 09/07/06	
% Solids: 89.0		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
MPDT-01B

1
INORGANIC ANALYSES DATA SHEET

02A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

02B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
MPDT-02B

1

INORGANIC ANALYSES DATA SHEET

03A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

MPDT-03A

1
INORGANIC ANALYSES DATA SHEET

03B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

MPDT-03B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
MPDT-04A

1
INORGANIC ANALYSES DATA SHEET

04B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
MPDT-04B

1
INORGANIC ANALYSES DATA SHEET

05B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

06A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1

INORGANIC ANALYSES DATA SHEET

06B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

07A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

MPDT-07A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: MPDT SAS No.: SDG No.: V2745
Matrix (soil/water): SOIL Lab Sample ID: 0609L894-014
Level (low/med): LOW Date Received: 09/07/06
% Solids: 89.4

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

MPDT-07B

1
INORGANIC ANALYSES DATA SHEET

08A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____
 Comments:
 MPDT-08A

1

INORGANIC ANALYSES DATA SHEET

08B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

09A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

09B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

Custody Transfer Record/Lab Work Request

Page 1 of 2

C160091894

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

A See SRC

Client NTSEC 13745

Est. Final Proj. Sampling Date

Project # 60052 201-001-0001-00

Project Contact/Phone #

Lionville Laboratory Project Manager

OC 54846 Del CAF TAT 7 days

Date Recd 9-7-06 Date Due 9/14/06

MATRIX CODES: S - Soil SF - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Dust DL - Drift L - Liquid EP/CLP VI - Volatile X - Other F - Fish	Lab ID	Client ID/Description	Matrix OC Chosen (✓)	Matrix MIS MSD	Matrix Collected	Date Collected	Time Collected	ANALYSES REQUESTED				Lionville Laboratory Use Only					
								VCA	BNA	PCB	Herb	Metal	INOCG	CN			
	CC1	MPDT-01A	✓	✓	5	8-28-06	12:38										
	CC3	- 01B															
	CC3	- 02A					12:37										
	CC1	- 03B															
	CC3	- 03A					12:48										
	CC4	- 03B															
	CC7	- 04A					12:56										
	CC3	- 04B															
	CC3	- 05A					1:06										
	CC3	- 05B															

Special instructions:

DATE/REVISIONS:

Refined crushed by	Received by	Date	Time	Refiniquished by	Received by	Date	Time	Refiniquished by	Received by	Date	Time

COMPOSITE ORIGINAL
WASTE REWRITTEN

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

06091804

Client NOTEC V2745

Est. Final Proj. Sampling Date

Project # 100101

Project Contact/Phone # 702/7091

Lionville Laboratory Project Manager TAT T. Dwyer

OC Del TAT T. Dwyer

Date Rec'd 9/7/06 Date Due

MATRIX CODES:

- S - Soil
- SE - Sediment
- SO - Solid
- SL - Sludge
- W - Water
- O - Oil
- A - Air
- DS - Dust
- DL - Drum
- L - Liquid
- EP - Effluent
- WC - Waste
- WL - Wipe
- X - Other
- F - Filler

Lab ID	Client ID/Description	Matrix OC Chosen (1/)	Matrix	Date Collected	Time Collected	ANALYSES REQUESTED	Refrigerator #	# Type Container	Liquid	Solid	Volume	Preservatives	VOA	BNA	Pest/PCB	Herb	Metal	CN
C11	MEDT-06A		S	8:00	1:17													
C12																		
C13																		
C14																		
C15																		
C16																		
C17																		
C18																		
C19																		
C20																		

Special Instructions:

DATE/REVISIONS:

-
-
-
-
-
-

Relinquished by	Received by	Date	Time
<u>[Signature]</u>	<u>[Signature]</u>	<u>9/7/06</u>	<u>08:00</u>

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

SERVICES REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION	
Project CNU 484	Dr. Org# R702	Send Report to: Mike Frazee	Phone 295.7396	Fax 295.6671	M/S: NTS306
Charge Number 511A1225		Turnaround () Standard - 14 days (U), 28 days (Non-rad Env), 45 days (Rad Env) (RUSH) Preliminary by (R1) (R2) (R3) (R4) (R5) (R6) (R7) (R8) (R9) (R10) (R11) (R12) (R13) (R14) (R15) (R16) (R17) (R18) (R19) (R20) (R21) (R22) (R23) (R24) (R25) (R26) (R27) (R28) (R29) (R30) (R31) (R32) (R33) (R34) (R35) (R36) (R37) (R38) (R39) (R40) (R41) (R42) (R43) (R44) (R45) (R46) (R47) (R48) (R49) (R50) (R51) (R52) (R53) (R54) (R55) (R56) (R57) (R58) (R59) (R60) (R61) (R62) (R63) (R64) (R65) (R66) (R67) (R68) (R69) (R70) (R71) (R72) (R73) (R74) (R75) (R76) (R77) (R78) (R79) (R80) (R81) (R82) (R83) (R84) (R85) (R86) (R87) (R88) (R89) (R90) (R91) (R92) (R93) (R94) (R95) (R96) (R97) (R98) (R99) (R100)			
Project Manager: Jeffery Smith					
Phone 295-7775	Fax 295-7761	M/S: NTS306			

SAMPLE MANAGEMENT INFORMATION

JG: (U) V2745 (Non-Rad Env) (Rad Env)

Samples submitted are associated with a signed Project SOW. (X) YES () NO

Analyses entered here agree with the SOW. (X) YES () NO () N/A

If not, identify the variation: _____

Subcontract Lab(s) used for this work: LIBRAVILL

ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Inc. Vol	MD	MS	MSD	Pres - Analysis eg. HCl - VOCs	ICP Metals	Pay Item, Analysis, Method
MPDT-01A	8/28/06	12:28P	Soil	1	125 ml		X	X	Cool 4C	X	
MPDT-01B		12:28P	Soil	1	125 ml				Cool 4C	X	
MPDT-02A		12:37P	Soil	1	125 ml				Cool 4C	X	
MPDT-02B		12:37P	Soil	1	125 ml				Cool 4C	X	
MPDT-03A		12:48P	Soil	1	125 ml				Cool 4C	X	
MPDT-03B		12:48P	Soil	1	125 ml				Cool 4C	X	
MPDT-04A		12:58P	Soil	1	125 ml				Cool 4C	X	
MPDT-04B		12:58P	Soil	1	125 ml				Cool 4C	X	
MPDT-05A		1:06P	Soil	1	125 ml				Cool 4C	X	
MPDT-05B		1:06P	Soil	1	125 ml				Cool 4C	X	

STORY TRANSMITTER

Signature: _____

DATE / TIME: 8/28/06, 09:05

Received by: (print) CD-CRISTINA

Signature: _____

DATE / TIME: 9/5/06, 09:05

Retention Code: ENV 1.0(1)

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAU 484		BRI: 0002 H502		Send Report to: Mike Krizek		Phone: 205-2306		Fax: 205-6671		ALS: NIS306	
Change Number: 581A1225				Turnaround: () Standard - 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env)							
Project Manager: Jeffrey Smith				X () Preliminary by: (H)							
Phone: 205-2775		Fax: 205-2761		NIS: NIS306							
<p align="center">SAMPLE MANAGEMENT INFORMATION</p> <p>SID: (H) <u>V2745</u> (Non-Rad Env) (Rad Env)</p> <p>Samples submitted are associated with a signed Project SOW. (X) YES () NO</p> <p>Analyses entered here agree with the SOW. (X) YES () NO () N/A</p> <p>If not, identify the variation: <u>N/A</u></p> <p>Subcontract Lab(s) used for this work: <u>LIONVILLE</u></p>											
ID/DESCRIPTION	SAMPLE NO	MATRIX	CONTAINER #	Exc Vol	QC	Pres - Analysis	Pay Item, Analysis, Method				
							ICP Metals				
MPDT-06A	3123/06	Soil	1	125 ml		Cool 4C	X				
MPDT-06B	1:17 P	Soil	1	125 ml		Cool 4C	X				
MPDT-07A	1:32 P	Soil	1	125 ml		Cool 4C	X				
MPDT-07B	1:32 P	Soil	1	125 ml		Cool 4C	X				
MPDT-08A	1:44 P	Soil	1	125 ml		Cool 4C	X				
MPDT-08B	1:44 P	Soil	1	125 ml		Cool 4C	X				
MPDT-09A	1:52 P	Soil	1	125 ml		Cool 4C	X				
MPDT-09B	1:52 P	Soil	1	125 ml		Cool 4C	X				
MPDT-10A	2:02 P	Soil	1	125 ml		Cool 4C	X				
MPDT-10B	2:02 P	Soil	1	125 ml		Cool 4C	X				
<p>CHAIN OF CUSTODY</p> <p>Sampled/Relinquished (print): <u>Ben McGee</u> Signature: <u>[Signature]</u> DATE/TIME: <u>09/06/05, 09:15</u></p> <p>Received by (print): <u>John D. Castiglione</u> Signature: <u>[Signature]</u> DATE/TIME: <u>09/06/05, 09:05</u></p> <p>Retention Code: EAV 5.0(1)</p>											

1
INORGANIC ANALYSES DATA SHEET

11A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1

INORGANIC ANALYSES DATA SHEET

11B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

MPDT-11B

1
INORGANIC ANALYSES DATA SHEET

12A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
MPDT-12A _____

1
INORGANIC ANALYSES DATA SHEET

12B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: MPDT SAS No.: SDG No.: 11A
Matrix (soil/water): SOIL Lab Sample ID: 0609L895-004
Level (low/med): LOW Date Received: 09/07/06
% Solids: 89.4

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

MPDT-12B

1
INORGANIC ANALYSES DATA SHEET

13A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

13B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

14A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
MPDT-14A

1
INORGANIC ANALYSES DATA SHEET

14B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

MPDT-14B

1
INORGANIC ANALYSES DATA SHEET

15A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

MPDT-15A

1

INORGANIC ANALYSES DATA SHEET

15B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

16A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
MPDT-16A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

17B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: MPDT SAS No.: SDG No.: 11A
Matrix (soil/water): SOIL Lab Sample ID: 0609L895-014
Level (low/med): LOW Date Received: 09/07/06
% Solids: 89.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____
MPDT-17B

1
INORGANIC ANALYSES DATA SHEET

18A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

19A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
MPDT-19A

1
INORGANIC ANALYSES DATA SHEET

19B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
MPDT-19B

C66091895

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client NOTEC V0745

Est. Final Proj. Sampling Date 1

Project # Jeffrey

Project Contact/Phone # Jeffrey

Lionville Laboratory Project Manager Jeffrey

OC Del TAT 17 days

Date Rec'd 9-7-06 Date Due 9-24-06

MATRIX CODES:	Lab ID	Client ID/Description	Matrix OC Chosen (✓)	Matrix Collected	Date Collected	Time Collected	ANALYSES REQUESTED				Lionville Laboratory Use Only			
							VOA	BNA	Pest/PCB	Herb	Metal	INORG	CN	
S - Soil														
SE - Sediment														
SO - Soil														
SL - Sludge														
W - Water														
O - Oil														
A - Air														
OS - Dust														
DL - Drums														
L - Liquids														
LT - Leachate														
W - Wipes														
X - Other														
F - Fish														
	011	MPDI-16A		3	8:25a	349								
	012	-16B		1										
	013	-17A		1	8:21a	910								
	014	-17B		1										
	015	-18A		1		925								
	016	-18B		1										
	017	-19A		1		937								
	018	-19B		1										
	019	-20A		1		947								
	020	-20B		1										

Special Instructions:

DATE/REVISIONS:

-
-
-
-
-
-

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
		9-7-06	09:50								

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION					
Project: CAU 483	IN Org: B700	Send Report to: Mtl - Kiroko		Turnaround: () Standard - 14 days; (H) 28 days Non-Rad Env; 45 days Rad Env (H)	Sample Size: CAU 483 BOTTLE 4037			Sampling Site: CAU 483 BOTTLE 4037 () Hazardous - (bio) () Radioactive - (bio) () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.					
Charge Number: 581A1275	Phone: 295-7396	Fax: 295-7396	MS: NTS306										
Project Manager: Jeffrey Smith	Phone: 295-7775	Fax: 295-7701	MS: NTS306										
SAMPLE MANAGEMENT INFORMATION Samples submitted are associated with a signed Project SOW. (X) YES () NO Analyses entered here agree with the SOW. (X) YES () NO () N/A If not, identify the variation: N/A Subcontract Lab(s) used for this work: LENOILLE								(H) V2745 (Non-Rad Env) (Rad Env)					
DESCRIPTION	DATE & TIME	MASTIN	CONTAINER	Eq. Vol	MD	QC	MSD	Pres - Analysis	Pay Item, Analysis, Method				
MPDT-11A	8/28/06 2:21P	Soil	1	125 ml				Cool 4C	X	ICP Metals	Be, U		
MPDT-11B	2:21P	Soil	1	125 ml				Cool 4C	X				
MPDT-12A	3:00P	Soil	1	125 ml				Cool 4C	X				
MPDT-12B	3:00P	Soil	1	125 ml				Cool 4C	X				
MPDT-13A	3:09P	Soil	1	125 ml				Cool 4C	X				
MPDT-13B	3:09P	Soil	1	125 ml				Cool 4C	X				
MPDT-14A	3:21P	Soil	1	125 ml				Cool 4C	X				
MPDT-14B	3:21P	Soil	1	125 ml				Cool 4C	X				
MPDT-15A	3:31P	Soil	1	125 ml				Cool 4C	X				
MPDT-15B	3:31P	Soil	1	125 ml				Cool 4C	X				
CHAIN OF CUSTODY Sampled/Kept/Used (print) Signature DATE: TIME Received by (print) Signature DATE: TIME													
BEN MCGRATH		09/05/06, 09:05		C.D. CASTANEDA		09/06/06, 13:00							
FEDER		09/06/06, 10:30		C. Smith		09/06/06, 09:00							

1
INORGANIC ANALYSES DATA SHEET

21A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

MPDT-21A

1

INORGANIC ANALYSES DATA SHEET

21B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
MPDT-21B

1
INORGANIC ANALYSES DATA SHEET

22A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Color Before: _____ Clarity Before: _____ Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____
 Comments: _____
 MPDT-22A

1
INORGANIC ANALYSES DATA SHEET

22B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

MPDT-22B

1
INORGANIC ANALYSES DATA SHEET

23A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

MPDT-23A

1

INORGANIC ANALYSES DATA SHEET

23B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

MPDT-23B

Lab Name: LIONVILLE LABORATORY	Contract: 60052	24A
Lab Code: LVLI	Case No.: MPDT	SDG No.: 21A
Matrix (soil/water): SOIL	SAS No.:	
Level (low/med): LOW	Lab Sample ID: 0609L896-007	
% Solids: 90.0	Date Received: 09/07/06	

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
MPDT-24A

1
INORGANIC ANALYSES DATA SHEET

24B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

MPDT-24B

1
INORGANIC ANALYSES DATA SHEET

25A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

MPDT-25A

1
INORGANIC ANALYSES DATA SHEET

26A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

27A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
MPDT-27A

1
INORGANIC ANALYSES DATA SHEET

27B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

MPDT-27B

1
INORGANIC ANALYSES DATA SHEET

28A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

MPDT-28A

1
INORGANIC ANALYSES DATA SHEET

28B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

MPDT-28B

1
INORGANIC ANALYSES DATA SHEET

29A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
MPDT-29A

1

INORGANIC ANALYSES DATA SHEET

29B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

30B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

Custody Transfer Record/Lab Work Request

Page 1 of 2

06091896

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

A See SRC

Client	NATEC	V3745
Est. Final Proj. Sampling Date	100522 - 201-001-0001-00	
Project #	100522 - 201-001-0001-00	
Project Contact/Phone #		
Lionville Laboratory Project Manager		
QC Specialist Del	del	TAT 7 Days
Date Rec'd	9/7/06	Date Due

MATRIX CODES:	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix Date Collected	Time Collected	ANALYSES REQUESTED				Lionville Laboratory Use Only			
			MS	MSD			VOA	BNA	Pest/PCB	Herb	Metal	INORG		
S - Soil														
SE - Sediment														
SO - Solid														
SL - Sludge														
W - Water														
O - Oil														
A - Air														
DS - Debris														
SS - Sediment														
DL - Drift														
L - Liquid														
EP - Effluent														
LC - Leachate														
W - Waste														
X - Other														
F - Field														
	001	MPDT-21A			5	8-21-06								
	003	-21B				1								
	003	-22A				10-30								
	004	-22B				1								
	005	-23A				10-33								
	006	-23B				1								
	007	-24A				10-40								
	008	-24B				1								
	009	-25A				11-03								
	010	-25B				1								

Special Instructions:

DATE/REVISIONS:

1
2
3
4
5
6

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time

"COMPOSITE ORIGINAL
WASTE" REWRITTEN

Page 3 of 3

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

[illegible]

Special instructions:

DATE: REVISIONS:

Relinquished by	Received by	Date	Time
Robert X		9-7-06	MS

Relinquished by	Received by	Date	Time

SAMPLE INFORMATION

Project: CAU-184		MS Forge D-902		Send Report to Mike Krueze		Sampling Site: CAU-184, Pelletier's MORT	
Charge Number: SBA11225		Phone: 295-7396		Fax: 295-6671		MS: NTS306	
Project Manager: Jeffrey South		Turnaround: 4) Standard - 14 days, 31, 28 days, Normal Env., 45 days, Rad Env. X) PHSI Preliminary by: () () ()		1) 2) X 7) 14 (non-Rad Env) 1) 7) 14) 28 (Radiological Env)		☐ Radioactive - (Yes) ☐ Hazardous - (Yes) ☐ Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.	
Phone: 295-7725		Fax: 295-7764		MS: NTS306			

SAMPLE MANAGEMENT INFORMATION

SAC: _____ (III) V2745 (Non-Rad Env) _____ (Rad Env)

Samples submitted are associated with a signed Project SOW. (X) YES () NO

Analyses entered here agree with the SOW. (X) YES () NO () N/A

If no, identify the variation: N/A

Subcontract Lab(s) used for this work: MONVILLE

9.9 Cal

Metals u

ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	EXC. VOL	QC			Pre-Analytical eg. HCl - VOCs	ID							
						MD	MS	MSD									
MPDT-21A	8/29/06	10:07A	Soil	1	125 ml				Cool 4C	X							
MPDT-21B		10:07A	Soil	1	125 ml				Cool 4C	X							
MPDT-22A		10:08A	Soil	1	125 ml				Cool 4C	X							
MPDT-22B		10:30A	Soil	1	125 ml				Cool 4C	X							
MPDT-23A		10:32A	Soil	1	125 ml				Cool 4C	X							
MPDT-23B		10:32A	Soil	1	125 ml				Cool 4C	X							
MPDT-24A		10:46A	Soil	1	125 ml				Cool 4C	X							
MPDT-24B		10:46A	Soil	1	125 ml				Cool 4C	X							
MPDT-25A		11:02A	Soil	1	125 ml				Cool 4C	X							
MPDT-25B		11:02A	Soil	1	125 ml				Cool 4C	X							

CHILD STAFF TRANSITION

Sampled/Reinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
BEN MCLELL	[Signature]	09/25/08 06:05	AL CASTANEDA	[Signature]	9/25/08 09:05
AL CASTANEDA	[Signature]	9/25/08 13:00	AL CASTANEDA	[Signature]	9/25/08 13:00
FED EX	[Signature]	9-25-08	ESM	[Signature]	9-25-08

PROJECT / CLIENT INFORMATION

Project: CAU-484

Order: 11504

Change Number: 301A12/5

Project Manager: Jeffrey Smith

Phone: 295-7775

Fax: 295-7761

MS: NTS306

REPORT & TURNAROUND INFORMATION

Send Report to: Addressee

Phone: 295-7396

Fax: 295-6671

MS: NTS306

Turnaround: () Standard - 10 days HL, 28 days Non-rad Env, 45 days Rad Env

(X) RUSH Preliminary by

() (H)

1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 - 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 - 59 - 60 - 61 - 62 - 63 - 64 - 65 - 66 - 67 - 68 - 69 - 70 - 71 - 72 - 73 - 74 - 75 - 76 - 77 - 78 - 79 - 80 - 81 - 82 - 83 - 84 - 85 - 86 - 87 - 88 - 89 - 90 - 91 - 92 - 93 - 94 - 95 - 96 - 97 - 98 - 99 - 100

SAMPLE INFORMATION

Sampling Site: CAU-484 Station 1 MPDT

The samples submitted contain (check):

() Hazardous - (list)

() Radioactive - (list)

() Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

SAMPLE MANAGEMENT INFORMATION

(I) _____

(II) V2745

(Non-Rad Env)

Samples submitted are associated with a signed Project SOW. (X) YES () NO

Analyses entered here agree with the SOW. (X) YES () NO () N/A

If not, identify the variation: N/A

Subcontract Lab(s) used for this work: LINCOLN

(Rad Env)

Pay Item, Analysis, Method

DESCRIPTION	SAMPLE ID	DATE	MATRIX	CONTAINER #	Est. Vol	MD	MS	MSD	Pres - Analysis eg. HCl - VOCs	ICP Metals
MPDT-26A	3129/06	11:14A	Soil	1	125 ml				Cool 4C	X
MPDT-26B		11:14A	Soil	1	125 ml				Cool 4C	X
MPDT-27A		11:23P	Soil	1	125 ml				Cool 4C	X
MPDT-27B		11:23P	Soil	1	125 ml				Cool 4C	X
MPDT-28A	8/30/06	08:35A	Soil	1	125 ml				Cool 4C	X
MPDT-28B		08:35A	Soil	1	125 ml				Cool 4C	X
MPDT-29A		08:44A	Soil	1	125 ml				Cool 4C	X
MPDT-29B		08:44A	Soil	1	125 ml				Cool 4C	X
MPDT-30A		08:57A	Soil	1	125 ml				Cool 4C	X
MPDT-30B		08:57A	Soil	1	125 ml				Cool 4C	X

CHAIN OF CUSTODY

Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
JEAN MCGEE	<i>[Signature]</i>	09/05/06 09:05	C. D. CASTANEDA	<i>[Signature]</i>	9/5/06 09:05
JEAN MCGEE	<i>[Signature]</i>	9/6/06 13:00	JEAN MCGEE	<i>[Signature]</i>	9/6/06 13:00
FED EX		9/6/06 10:50	DSM		9/6/06 10:50

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Texture: _____
Artifacts: _____

Comments:
MPDT-31A

1
INORGANIC ANALYSES DATA SHEET

31B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

MPDT-31B

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

32A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: MPDT SAS No.: SDG No.: R1
Matrix (soil/water): SOIL Lab Sample ID: 0609L897-003
Level (low/med): LOW Date Received: 09/07/06
% Solids: 90.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
MPDT-32A

1
INORGANIC ANALYSES DATA SHEET

32B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

MPDT-32B

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: MPDT SAS No.: SDG No.: R1
Matrix (soil/water): SOIL Lab Sample ID: 0609L897-005
Level (low/med): LOW Date Received: 09/07/06
% Solids: 91.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

MPDT-33A

1
INORGANIC ANALYSES DATA SHEET

33B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

MPDT-33B

1
INORGANIC ANALYSES DATA SHEET

34B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

MPDT-34B

1
INORGANIC ANALYSES DATA SHEET

35A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
MPDT-35A

1
INORGANIC ANALYSES DATA SHEET

35B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
MPDT-35B

1
INORGANIC ANALYSES DATA SHEET

36A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

MPDT-36A

1
INORGANIC ANALYSES DATA SHEET

36B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

37A

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

37B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

38A

Lab Name: LIONVILLE LABORATORY Contract: 60052
Lab Code: LVLI Case No.: MPDT SAS No.: SDG No.: R1
Matrix (soil/water): SOIL Lab Sample ID: 0609L897-015
Level (low/med): LOW Date Received: 09/07/06
% Solids: 92.8

[illegible]

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
MPDT-38A

1
INORGANIC ANALYSES DATA SHEET

38B

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:
MPDT-38B

1
INORGANIC ANALYSES DATA SHEET

R1

Concentration Units (ug/L or mg/kg dry weight): UG/L_

[illegible]

Comments:
MPDT-R1 _____

See SRC

REWRITTEN

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

VI

[illegible][illegible]

DATE/REVISIONS:

	Relinquished by	Received by	Date	Time
1				
2				
3				
4				
5				
6				

	Relinquished by	Received by	Date	Time
1				
2				
3				
4				
5				
6				

PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION	
Project: CAH 484	Inv. Order: 0302	Send Report to: Mike Brown	Phone: 295-7396	Fax: 295-6671	M/S: NTS306
Charge Number: 581A1225					
Project Manager: Jeffrey Smith		Turnaround: () Standard - 14 days (H, 28 days Non-rad Env, 45 days Rad Env) (X) RUSH Pre-estimate by: <u>7</u> <u>14</u> (non-Rad Env) <u>28</u> (Rad Env)			
Phone: 295-7775	Fax: 295-7761	M/S: NTS306			
			Sampling Site: <u>CAH 484 District MDDT</u> () Hazardous - (fast) () Radioactive - (fast) () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.		

SAMPLE MANAGEMENT INFORMATION						Pay Item, Analysis, Method	
(III) <u>V2745</u> (Non-Rad Env) <u>YES</u> () NO () YES () NO () N/A Samples submitted are associated with a signed Project SOW. Analyses entered here agree with the SOW. If not, identify the variation: <u>N/A</u> Subcontract Lab(s) used for this work: <u>L1000VULCCE</u>							

ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Rad. Vol	MD	MS	MSD	eg. HCL - VOCs	Pres - Analysis	ICP Metals	Be, Al
MDDT-31A	08/31/06	07:08A	Soil	1	125 ml					Cool 4C	X	
MDDT-31B		07:08A	Soil	1	125 ml					Cool 4C	X	
MDDT-32A		08:24A	Soil	1	125 ml					Cool 4C	X	
MDDT-32B		08:24A	Soil	1	125 ml					Cool 4C	X	
MDDT-33A		08:47A	Soil	1	125 ml					Cool 4C	X	
MDDT-33B		08:47A	Soil	1	125 ml					Cool 4C	X	
MDDT-34A		08:59A	Soil	1	125 ml					Cool 4C	X	
MDDT-34B		08:59A	Soil	1	125 ml					Cool 4C	X	
MDDT-35A		10:08A	Soil	1	125 ml					Cool 4C	X	
MDDT-35B		10:08A	Soil	1	125 ml					Cool 4C	X	

CHAIN OF CUSTODY TRANSFER		Signature		DATE / TIME	
Sampled/Relinquished (print)					
<u>Ben Myhre</u>				09/05/06; 09:05	9/5/06 @ 0905
<u>CAH 484</u>				9/6/06 @ 1300	9/6/06 @ 1300
<u>FED EX</u>				9/7/06 @ 0900	9/7/06 @ 0900

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION																							
Project: CAU-484		10112 8th Street		Send Report to: <u>NAI</u>		Phone: 295-2396		Fax: 295-6671		M/S: NTS306																					
Charge Number: S01A1275				Turnaround: <u>() Standard - 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env)</u> <u>(X) Rush Preliminary by 14 (non-Rad Env) (H)</u>																											
Project Manager: Jeffrey Smith																															
Phone: 295-7775		Fax: 295-7761		M/S: NTS306																											
<p align="center">SAMPLE MANAGEMENT INFORMATION</p> <p> ☐ (H) <u>V2745</u> (Non-Rad Env) ☒ YES ☐ NO (Rad Env) Samples submitted are associated with a signed Project SOW. ☒ YES ☐ NO ☐ N/A Analyses entered here agree with the SOW. ☒ YES ☐ NO ☐ N/A If not, identify the variation: <u>N/A</u> Subcontract Lab(s) used for this work: <u>LICOR/LC</u> </p>																															
ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC	MS	MSD	Pres - Analysis	Pay Item, Analysis, Method																					
MPDT-36A	8/30/06	10:17A	Soil	1	125 ml		X	X	Cool 4C	X																					
MPDT-36B	8/30/06	10:17A	Soil	1	125 ml				Cool 4C	X																					
MPDT-37A	8/28/06	5:01P	Soil	1	125 ml				Cool 4C	X																					
MPDT-37B	8/28/06	5:01P	Soil	1	125 ml				Cool 4C	X																					
MPDT-38A	8/29/06	4:45P	Soil	1	125 ml				Cool 4C	X																					
MPDT-38B	8/29/06	4:45P	Soil	1	125 ml				Cool 4C	X																					
MPDT-39A			Soil	1	125 ml				Cool 4C	X																					
MPDT-39B			Soil	1	125 ml				Cool 4C	X																					
MPDT-40A			Soil	1	125 ml				Cool 4C	X																					
MPDT-40B			Soil	1	125 ml				Cool 4C	X																					
<p>CUSTODY TRANSFER</p> <table border="1"> <thead> <tr> <th>Signature</th> <th>DATE / TIME</th> <th>Received by (print)</th> <th>Signature</th> <th>DATE / TIME</th> </tr> </thead> <tbody> <tr> <td>Ben Nye</td> <td>09/05/06, 06:05</td> <td>CD - CASTRUPA</td> <td></td> <td>9/5/06 08:00</td> </tr> <tr> <td>FEDEX</td> <td>9/6/06 01:30</td> <td>9/6/06 01:30</td> <td></td> <td>9/6/06 01:30</td> </tr> <tr> <td></td> <td>9/7/06 08:00</td> <td>DSmith</td> <td></td> <td>9/7/06 08:00</td> </tr> </tbody> </table>												Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME	Ben Nye	09/05/06, 06:05	CD - CASTRUPA		9/5/06 08:00	FEDEX	9/6/06 01:30	9/6/06 01:30		9/6/06 01:30		9/7/06 08:00	DSmith		9/7/06 08:00
Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME																											
Ben Nye	09/05/06, 06:05	CD - CASTRUPA		9/5/06 08:00																											
FEDEX	9/6/06 01:30	9/6/06 01:30		9/6/06 01:30																											
	9/7/06 08:00	DSmith		9/7/06 08:00																											

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAN 44	BN Orig# B502	Send Report to: Mike Brown	Phone: 295-7396	Fax: 295-6671	M/S: MTS306	Sampling Site: CAN 44 Pedro The samples submitted contain (check): ☐ Hazardous - (list) _____ ☐ Radioactive - (list) _____ ☐ Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.					
Charge Number: 581A1275											
Project Manager: Jeffrey Smith											
Phone: 295-7775	Fax: 295-7761	ASN: VTS306									
SAMPLE MANAGEMENT INFORMATION S. I. (11) <u>V0745</u> (Non-Rad Env) (Rad Env) Samples submitted are associated with a signed Project SOW: ☒ YES ☐ NO Analyses entered here agree with the SOW: ☒ YES ☐ NO ☐ N/A If not, identify the variation: <u>N/A</u> Subcontract Lab(s) used for this work: <u>Laboratory</u>											
DESCRIPTION	TIME	MATRIX	CONTAINER #	Est. Vol	MD	QC	MSD	Pres - Analysis	Pay Item, Analysis, Method		
MPDT-R1	8/29/06	Water	1	1 L				HNO3	X	ICP Metals	4.10
LAST ITEM											
CHAIN OF CUSTODY Sampled/Relinquished (print) _____ Signature _____ DATE/TIME _____ Received by (print) _____ Signature _____ DATE/TIME _____ Ben Hodge 9/6/06 09:05 J.A. HASTINGS 9/6/06 09:05 FED EX 9/6/06 09:05 J. Smith 9/6/06 09:05											

**INVESTIGATION (GEOPROBE[®])
SOIL SAMPLE ANALYTICAL RESULTS**

**CAS TA-52-004-TAAL
METAL PARTICLE DISPERSION TEST**

Radiological Data

Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2746

Laboratory Name: Paragon Analytics

PAI Work Order: 0609032

Page: 1 of 7

Reported on: Tuesday, September 12, 2006

9:26:19 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609032-1	MPDT-01A	Sample	U-233/234	1.44E+00 +/- 6.42E-01	3.34E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-1	MPDT-01A	Sample	U-235	2.08E-01 +/- 2.51E-01	2.93E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-1	MPDT-01A	Sample	U-238	1.26E+00 +/- 5.96E-01	3.11E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-2	MPDT-01B	Sample	U-233/234	1.75E+00 +/- 6.22E-01	3.04E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-2	MPDT-01B	Sample	U-235	4.57E-02 +/- 1.75E-01	2.06E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-2	MPDT-01B	Sample	U-238	1.55E+00 +/- 5.77E-01	2.73E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-3	MPDT-02A	Sample	U-233/234	1.35E+00 +/- 5.30E-01	2.35E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-3	MPDT-02A	Sample	U-235	2.01E-01 +/- 2.04E-01	1.36E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-3	MPDT-02A	Sample	U-238	1.62E+00 +/- 5.88E-01	2.00E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT

Comments:

Data Package ID: UR0609032-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

MS - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics

LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2746

Laboratory Name: Paragon Analytics

PAI Work Order: 0609032

Page: 2 of 7

Reported on: Tuesday, September 12, 2006

9:26:20 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609032-4	MPDT-02B	Sample	U-233/234	1.46E+00 +/- 5.70E-01	1.88E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-4	MPDT-02B	Sample	U-235	5.39E-02 +/- 1.88E-01	1.46E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-4	MPDT-02B	Sample	U-238	1.60E+00 +/- 6.02E-01	1.88E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-5	MPDT-03A	Sample	U-233/234	1.29E+00 +/- 5.14E-01	2.16E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-5	MPDT-03A	Sample	U-235	1.94E-01 +/- 2.01E-01	2.03E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-5	MPDT-03A	Sample	U-238	1.50E+00 +/- 5.61E-01	2.32E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-6	MPDT-03B	Sample	U-233/234	1.49E+00 +/- 5.45E-01	1.09E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-6	MPDT-03B	Sample	U-235	9.04E-02 +/- 1.65E-01	1.94E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-6	MPDT-03B	Sample	U-238	9.59E-01 +/- 4.24E-01	1.89E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT

Comments:

Data Package ID: UR0609032-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

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Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics
LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

Page: 3 of 7

Client Project Name: CAU 484

PAI Work Order: 0609032

Reported on: Tuesday, September 12, 2006

Client Project Number: V2746

9:26:20 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609032-7	MPDT-04A	Sample	U-233/234	1.61E+00 +/- 5.77E-01	3.04E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-7	MPDT-04A	Sample	U-235	-1.28E-02 +/- 1.65E-01	2.43E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-7	MPDT-04A	Sample	U-238	1.32E+00 +/- 5.09E-01	1.89E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-8	MPDT-04B	Sample	U-233/234	1.79E+00 +/- 6.23E-01	2.31E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-8	MPDT-04B	Sample	U-235	3.91E-01 +/- 2.87E-01	2.03E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-8	MPDT-04B	Sample	U-238	1.22E+00 +/- 4.94E-01	1.73E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-9	MPDT-05A	Sample	U-233/234	1.59E+00 +/- 5.77E-01	2.76E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-9	MPDT-05A	Sample	U-235	9.75E-02 +/- 1.70E-01	1.32E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-9	MPDT-05A	Sample	U-238	8.97E-01 +/- 4.15E-01	2.28E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT

Comments:

Data Package ID: UR0609032-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

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Abbreviations:

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BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics
LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

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Client Project Name: CAU 484

PAI Work Order: 0609032

Reported on: Tuesday, September 12, 2006

Client Project Number: V2746

9:26:20 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609032-10	MPDT-05B	Sample	U-233/234	1.36E+00 +/- 5.13E-01	2.75E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-10	MPDT-05B	Sample	U-235	1.70E-01 +/- 1.84E-01	2.33E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-10	MPDT-05B	Sample	U-238	1.34E+00 +/- 5.05E-01	2.25E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-11	MPDT-06A	Sample	U-233/234	1.15E+00 +/- 4.73E-01	1.69E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-11	MPDT-06A	Sample	U-235	1.94E-01 +/- 1.96E-01	1.31E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-11	MPDT-06A	Sample	U-238	8.77E-01 +/- 4.07E-01	1.93E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-12	MPDT-06B	Sample	U-233/234	1.62E+00 +/- 5.84E-01	2.74E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-12	MPDT-06B	Sample	U-235	1.77E-01 +/- 1.97E-01	2.67E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-12	MPDT-06B	Sample	U-238	1.76E+00 +/- 6.11E-01	2.27E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT

Comments:

Data Package ID: UR0609032-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M1 - The requested MDC was not met:

M2 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics

LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2746

Laboratory Name: Paragon Analytics

PAI Work Order: 0609032

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Reported on: Tuesday, September 12, 2006

9:26:20 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609032-13	MPDT-07A	Sample	U-233/234	1.22E+00 +/- 4.75E-01	1.96E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-13	MPDT-07A	Sample	U-235	3.70E-02 +/- 1.57E-01	2.11E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-13	MPDT-07A	Sample	U-238	9.17E-01 +/- 4.03E-01	1.57E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-14	MPDT-07B	Sample	U-233/234	1.59E+00 +/- 5.77E-01	2.54E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-14	MPDT-07B	Sample	U-235	8.42E-02 +/- 1.70E-01	2.50E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-14	MPDT-07B	Sample	U-238	1.07E+00 +/- 4.56E-01	2.12E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-15	MPDT-08A	Sample	U-233/234	2.17E+00 +/- 7.80E-01	3.01E-01	pCi/g	SOIL	AS060908-1	9/11/2006	
0609032-15	MPDT-08A	Sample	U-235	1.23E-01 +/- 2.25E-01	2.64E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-15	MPDT-08A	Sample	U-238	1.13E+00 +/- 5.36E-01	3.01E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT

Comments:

Data Package ID: UR0609032-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

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Date Printed: Tuesday, September 12, 2006

Paragon Analytics

LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2746

Laboratory Name: Paragon Analytics

PAI Work Order: 0609032

Page: 6 of 7

Reported on: Tuesday, September 12, 2006
9:26:20 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609032-16	MPDT-08B	Sample	U-233/234	1.42E+00 +/- 5.48E-01	3.89E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-16	MPDT-08B	Sample	U-235	3.23E-01 +/- 2.60E-01	2.46E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-16	MPDT-08B	Sample	U-238	1.55E+00 +/- 5.68E-01	2.99E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-17	MPDT-09A	Sample	U-233/234	1.22E+00 +/- 5.16E-01	3.30E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-17	MPDT-09A	Sample	U-235	1.01E-01 +/- 1.85E-01	2.17E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-17	MPDT-09A	Sample	U-238	1.23E+00 +/- 5.17E-01	2.88E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-18	MPDT-09B	Sample	U-233/234	1.56E+00 +/- 5.94E-01	2.78E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-18	MPDT-09B	Sample	U-235	5.34E-02 +/- 1.86E-01	1.45E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-18	MPDT-09B	Sample	U-238	1.67E+00 +/- 6.15E-01	2.33E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT

Comments:

Data Package ID: UR0609032-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

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Date Printed: Tuesday, September 12, 2006

Paragon Analytics
LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

Page: 7 of 7

Client Project Name: CAU 484

PAI Work Order: 0609032

Reported on: Tuesday, September 12, 2006

Client Project Number: V2746

9:26:20 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609032-19	MPDT-10A	Sample	U-233/234	1.23E+00 +/- 5.01E-01	1.75E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-19	MPDT-10A	Sample	U-235	0E+00 +/- 1.75E-01	1.36E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-19	MPDT-10A	Sample	U-238	1.53E+00 +/- 5.69E-01	2.00E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-20	MPDT-10B	Sample	U-233/234	9.40E-01 +/- 4.33E-01	2.22E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT
0609032-20	MPDT-10B	Sample	U-235	4.63E-02 +/- 1.77E-01	2.09E-01	pCi/g	SOIL	AS060908-1	9/11/2006	U
0609032-20	MPDT-10B	Sample	U-238	1.20E+00 +/- 4.97E-01	2.38E-01	pCi/g	SOIL	AS060908-1	9/11/2006	LT

Comments:

Data Package ID: *UR0609032-1*

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics

LIMS Version: 5.422A

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PROJECT / CLIENT INFORMATION

Project: CAL 484 BDN Org#: B502

Charge Number: SB1A1275

Project Manager: Jeffrey Smith

Phone: 295-7775

Fax: 295-7761

M/S: NTS306

REPORT & TURNAROUND INFORMATION

Send Report to: Mike Kravitz

Phone: 295-7396

Fax: 295-6671

M/S: NTS306

Turnaround () Standard 14 days (H) 28 days (Non-rad Env) 45 days (Rad Env)
(X) Rush Preliminary by: (H)

1 2 7 14 (non-rad Env)
1 2 7 14 (Rad Env)

SAMPLE INFORMATION

Sampling Site: CAL 484 BDN 025 MPD T

The samples submitted contain (check):

- () Hazardous - (list)
- () Radioactive - (list)
- () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

SAMPLE MANAGEMENT INFORMATION

SIDG: (H) (Non-Rad Env) 2746 (Rad Env)

Samples submitted are associated with a signed Project SOW. (X) YES () NO

Analyses entered here agree with the SOW. (X) YES () NO () N/A

If not, identify the variation: N/A

Subcontract Lab(s) used for this work: PREGEON

Pay Item, Analysis, Method

ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC	Pres - Analysis	ISO Uranium	Pay Item, Analysis, Method
1 MPDT-01A	8/28/06	12:28P	Soil	1	125 ml	X	Cool 4C	X	
2 MPDT-01B		12:28P	Soil	1	125 ml		Cool 4C	X	
3 MPDT-02A		12:37P	Soil	1	125 ml		Cool 4C	X	
4 MPDT-02B		12:37P	Soil	1	125 ml		Cool 4C	X	
5 MPDT-03A		12:48P	Soil	1	125 ml		Cool 4C	X	
6 MPDT-03B		12:48P	Soil	1	125 ml		Cool 4C	X	
7 MPDT-04A		12:58P	Soil	1	125 ml		Cool 4C	X	
8 MPDT-04B		12:58P	Soil	1	125 ml		Cool 4C	X	
9 MPDT-05A		1:06P	Soil	1	125 ml		Cool 4C	X	
10 MPDT-05B		1:06P	Soil	1	125 ml		Cool 4C	X	

CUSTODY TRANSFER

Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
Ben McCre		09/05/06, 09:05	C.D. Castaneda		9/5/06 0905
C.D. Castaneda		9/6/06 1300	Edgar de la Higuera		9/6/06 1300
Edgar		9-7-06 1010	David Natan		9-7-06 1010

SERVICES REQUEST AND CHAIN OF CUSTODY RECORD

0607032

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PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CA11 484		IN Charge: BS02		Send Report to: Mike Krize		Phone: 295-7306		Fax: 295-6671		M/S: NTS306	
Change Number: 581A12/5				Turnaround: () Standard - 14 days III, 28 days Non-rad Env, 45 days Rad Env (X) Rush Preliminary by () (III)		1 2 7 14 28 (non-Rad Env) 1 7 14 28 (Radiological Env)		Sampling Site: CA11 484 <u>MPDT</u>		The samples submitted contain (check): () Hazardous - (list) () Radioactive - (list) () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.	
Project Manager: Jeffrey Smith											
Phone: 295-7775		Fax: 295-7761		M/S: NTS306							
SAMPLE MANAGEMENT INFORMATION											
SDG: (III) (Non-Rad Env) <u>V2746</u> (Rad Env)											
Samples submitted are associated with a signed Project SOW. (X) YES () NO											
Analyses entered here agree with the SOW. (X) YES () NO () N/A											
If not, identify the variation: <u>N/A</u>											
Subcontract Lab(s) used for this work: <u>PARACAL</u>											
ID/DESCRIPTION	DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	QC MS	MSD	Pres - Analysis eg. HCl - VOCs	NAS-A-002	Pay Item, Analysis, Method
11 MPDT-06A	8/28/06	1:17P	Soil	1	125 ml				Cool 4C	X	
12 MPDT-06B		1:17P	Soil	1	125 ml				Cool 4C	X	
13 MPDT-07A		1:32P	Soil	1	125 ml				Cool 4C	X	
14 MPDT-07B		1:32P	Soil	1	125 ml				Cool 4C	X	
15 MPDT-08A		1:44P	Soil	1	125 ml				Cool 4C	X	
16 MPDT-08B		1:44P	Soil	1	125 ml				Cool 4C	X	
17 MPDT-09A		1:52P	Soil	1	125 ml				Cool 4C	X	
18 MPDT-09B		1:52P	Soil	1	125 ml				Cool 4C	X	
19 MPDT-10A		2:02P	Soil	1	125 ml				Cool 4C	X	
20 MPDT-10B		2:02P	Soil	1	125 ml				Cool 4C	X	
CUSTODY TRANSFER											
Sampled/Relinquished (print)		Signature		DATE / TIME		Received by (print)		Signature		DATE / TIME	
Ben McGee				09/05/06 09:05		C.A. Castaneda				9/5/06 @ 09:05	
C.A. Castaneda				9/10/06 @ 1300		Rad 848				9/10/06 @ 1300	
Felix				9-7-06 @ 1010						9-7-06 @ 1010	

Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2746

Laboratory Name: Paragon Analytics

PAI Work Order: 0609033

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Reported on: Tuesday, September 12, 2006
10:57:21 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609033-1	MPDT-11A	Sample	U-233/234	1.93E+00 +/- 6.80E-01	2.56E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT
0609033-1	MPDT-11A	Sample	U-235	1.04E-01 +/- 1.91E-01	2.24E-01	pCi/g	SOIL	AS060908-2	9/11/2006	U
0609033-1	MPDT-11A	Sample	U-238	1.53E+00 +/- 5.89E-01	1.91E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT
0609033-2	MPDT-11B	Sample	U-233/234	1.27E+00 +/- 4.88E-01	2.43E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT
0609033-2	MPDT-11B	Sample	U-235	4.47E-02 +/- 1.56E-01	1.21E-01	pCi/g	SOIL	AS060908-2	9/11/2006	U
0609033-2	MPDT-11B	Sample	U-238	1.09E+00 +/- 4.45E-01	1.95E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT
0609033-3	MPDT-12A	Sample	U-233/234	1.76E+00 +/- 6.22E-01	2.94E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT
0609033-3	MPDT-12A	Sample	U-235	1.87E-01 +/- 2.04E-01	2.57E-01	pCi/g	SOIL	AS060908-2	9/11/2006	U
0609033-3	MPDT-12A	Sample	U-238	9.66E-01 +/- 4.39E-01	2.35E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT

Comments:

Data Package ID: UR0609033-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics
LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

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Client Project Name: CAU 484

PAI Work Order: 0609033

Reported on: Tuesday, September 12, 2006

Client Project Number: V2746

10:57:21 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609033-4	MPDT-12B	Sample	U-233/234	1.54E+00 +/- 5.63E-01	1.71E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT
0609033-4	MPDT-12B	Sample	U-235	0E+00 +/- 1.70E-01	1.33E-01	pCi/g	SOIL	AS060908-2	9/11/2006	U
0609033-4	MPDT-12B	Sample	U-238	1.37E+00 +/- 5.26E-01	1.95E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT
0609033-5	MPDT-13A	Sample	U-233/234	1.52E+00 +/- 5.64E-01	2.67E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT
0609033-5	MPDT-13A	Sample	U-235	7.62E-02 +/- 1.71E-01	2.66E-01	pCi/g	SOIL	AS060908-2	9/11/2006	U
0609033-5	MPDT-13A	Sample	U-238	9.46E-01 +/- 4.29E-01	2.30E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT
0609033-6	MPDT-13B	Sample	U-233/234	1.90E+00 +/- 6.43E-01	2.13E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT
0609033-6	MPDT-13B	Sample	U-235	8.92E-02 +/- 1.71E-01	2.29E-01	pCi/g	SOIL	AS060908-2	9/11/2006	U
0609033-6	MPDT-13B	Sample	U-238	1.66E+00 +/- 5.91E-01	1.71E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT

Comments:

Data Package ID: UR0609033-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics
LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

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Client Project Name: CAU 484

PAI Work Order: 0609033

Reported on: Tuesday, September 12, 2006

Client Project Number: V2746

10:57:21 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609033-7	MPDT-14A	Sample	U-233/234	1.25E+00 +/- 4.89E-01	2.30E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT
0609033-7	MPDT-14A	Sample	U-235	7.61E-02 +/- 1.62E-01	2.55E-01	pCi/g	SOIL	AS060908-2	9/11/2006	U
0609033-7	MPDT-14A	Sample	U-238	1.06E+00 +/- 4.44E-01	2.02E-01	pCi/g	SOIL	AS060908-2	9/11/2006	LT
0609033-8	MPDT-14B	Sample	U-233/234	1.61E+00 +/- 5.81E-01	3.52E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-8	MPDT-14B	Sample	U-235	7.30E-02 +/- 1.64E-01	2.74E-01	pCi/g	SOIL	AS060908-2	9/12/2006	U
0609033-8	MPDT-14B	Sample	U-238	1.15E+00 +/- 4.69E-01	2.20E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-9	MPDT-15A	Sample	U-233/234	1.13E+00 +/- 4.68E-01	2.56E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-9	MPDT-15A	Sample	U-235	0E+00 +/- 1.64E-01	1.27E-01	pCi/g	SOIL	AS060908-2	9/12/2006	U
0609033-9	MPDT-15A	Sample	U-238	1.27E+00 +/- 4.97E-01	2.05E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT

Comments:

Data Package ID: UR0609033-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics

LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

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Client Project Name: CAU 484

PAI Work Order: 0609033

Reported on: Tuesday, September 12, 2006

Client Project Number: V2746

10:57:21 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609033-10	MPDT-15B	Sample	U-233/234	1.31E+00 +/- 5.12E-01	2.27E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-10	MPDT-15B	Sample	U-235	1.90E-01 +/- 1.97E-01	1.99E-01	pCi/g	SOIL	AS060908-2	9/12/2006	U
0609033-10	MPDT-15B	Sample	U-238	1.48E+00 +/- 5.50E-01	1.69E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-11	MPDT-16A	Sample	U-233/234	1.19E+00 +/- 4.93E-01	2.80E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-11	MPDT-16A	Sample	U-235	1.17E-01 +/- 1.74E-01	3.17E-01	pCi/g	SOIL	AS060908-2	9/12/2006	U
0609033-11	MPDT-16A	Sample	U-238	1.20E+00 +/- 4.94E-01	2.46E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-12	MPDT-16B	Sample	U-233/234	1.74E+00 +/- 5.96E-01	2.40E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-12	MPDT-16B	Sample	U-235	1.72E-01 +/- 1.87E-01	2.36E-01	pCi/g	SOIL	AS060908-2	9/12/2006	U
0609033-12	MPDT-16B	Sample	U-238	1.67E+00 +/- 5.80E-01	2.16E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT

Comments:

Data Package ID: UR0609033-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

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Client Project Name: CAU 484

PAI Work Order: 0609033

Reported on: Tuesday, September 12, 2006

Client Project Number: V2746

10:57:21 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609033-13	MPDT-17A	Sample	U-233/234	1.36E+00 +/- 5.34E-01	2.20E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-13	MPDT-17A	Sample	U-235	9.66E-02 +/- 1.77E-01	2.08E-01	pCi/g	SOIL	AS060908-2	9/12/2006	U
0609033-13	MPDT-17A	Sample	U-238	1.67E+00 +/- 6.01E-01	2.01E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-14	MPDT-17B	Sample	U-233/234	1.60E+00 +/- 6.47E-01	2.96E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-14	MPDT-17B	Sample	U-235	1.84E-01 +/- 2.23E-01	2.60E-01	pCi/g	SOIL	AS060908-2	9/12/2006	U
0609033-14	MPDT-17B	Sample	U-238	9.55E-01 +/- 4.84E-01	2.76E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-15	MPDT-18A	Sample	U-233/234	1.66E+00 +/- 6.11E-01	4.08E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-15	MPDT-18A	Sample	U-235	2.88E-01 +/- 2.51E-01	2.58E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-15	MPDT-18A	Sample	U-238	9.42E-01 +/- 4.39E-01	3.14E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT

Comments:

Data Package ID: UR0609033-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

MDC - The requested MDC was not met.

MDC - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics
LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

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Client Project Name: CAU 484

PAI Work Order: 0609033

Reported on: Tuesday, September 12, 2006

Client Project Number: V2746

10:57:21 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609033-16	MPDT-18B	Sample	U-233/234	1.78E+00 +/- 6.39E-01	3.26E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-16	MPDT-18B	Sample	U-235	2.04E-01 +/- 2.12E-01	2.15E-01	pCi/g	SOIL	AS060908-2	9/12/2006	U
0609033-16	MPDT-18B	Sample	U-238	1.35E+00 +/- 5.42E-01	2.85E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-17	MPDT-19A	Sample	U-233/234	1.05E+00 +/- 4.45E-01	2.18E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-17	MPDT-19A	Sample	U-235	9.31E-02 +/- 1.63E-01	1.26E-01	pCi/g	SOIL	AS060908-2	9/12/2006	U
0609033-17	MPDT-19A	Sample	U-238	1.70E+00 +/- 5.86E-01	1.85E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-18	MPDT-19B	Sample	U-233/234	1.67E+00 +/- 5.93E-01	1.71E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-18	MPDT-19B	Sample	U-235	9.82E-02 +/- 1.72E-01	1.33E-01	pCi/g	SOIL	AS060908-2	9/12/2006	U
0609033-18	MPDT-19B	Sample	U-238	8.73E-01 +/- 4.08E-01	1.71E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT

Comments:

Data Package ID: UR0609033-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

U The requested MDC was not met.

LT The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics
LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2746

Laboratory Name: Paragon Analytics

PAI Work Order: 0609033

Page: 7 of 7

Reported on: Tuesday, September 12, 2006

10:57:21 AM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609033-19	MPDT-20A	Sample	U-233/234	1.41E+00 +/- 5.60E-01	2.35E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-19	MPDT-20A	Sample	U-235	4.91E-02 +/- 1.88E-01	2.21E-01	pCi/g	SOIL	AS060908-2	9/12/2006	U
0609033-19	MPDT-20A	Sample	U-238	1.18E+00 +/- 5.06E-01	2.52E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-20	MPDT-20B	Sample	U-233/234	2.18E+00 +/- 7.36E-01	1.29E-01	pCi/g	SOIL	AS060908-2	9/12/2006	
0609033-20	MPDT-20B	Sample	U-235	3.86E-01 +/- 3.02E-01	2.29E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT
0609033-20	MPDT-20B	Sample	U-238	1.08E+00 +/- 4.89E-01	2.22E-01	pCi/g	SOIL	AS060908-2	9/12/2006	LT

Comments:

Data Package ID: UR0609033-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

MDC - The requested MDC was not met.

MDC - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics

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PROJECT / CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION	
Project: CAI 484	HN Org# B502	Send Report to: Mike Krueger	Phone: 295-7396	Fax: 295-6671	M/S: NTS306
Change Number: 581A1225		Turnaround: () Standard - 14 days HL, 28 days Non-rad Env, 45 days Rad Env () RUSH Preliminary by: <u>NRUSH</u>			
Project Manager: Jeffrey Smith		☐ 1 ☐ 2 ☒ 7 ☐ 14 ☐ 28 (Radiological Env) ☐ 1 ☐ 7 ☒ 14 ☐ 28 (Radiological Env)			
Phone: 295-7775	Fax: 295-7761	M/S: NTS306			

SAMPLE MANAGEMENT INFORMATION										Pay Item, Analysis, Method	
SDG: _____ (11) Samples submitted are associated with a signed Project SOW. <u>YES</u> () NO Analyses entered here agree with the SOW. <u>YES</u> () NO () N/A If not, identify the variation: <u>N/A</u> Subcontract Lab(s) used for this work: <u>PARAGON</u>										NAS-A-002 Iso Uranium	

ID/DESCRIPTION	DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC	MSD	Pres - Analysis												
MPDT-11A	8/28/06	2:21P	Soil	1	125 ml			Cool 4C	X											
MPDT-11B		2:21P	Soil	1	125 ml			Cool 4C	X											
MPDT-12A		3:06P	Soil	1	125 ml			Cool 4C	X											
MPDT-12B		3:00P	Soil	1	125 ml			Cool 4C	X											
MPDT-13A		3:09P	Soil	1	125 ml			Cool 4C	X											
MPDT-13B		3:09P	Soil	1	125 ml			Cool 4C	X											
MPDT-14A		3:21P	Soil	1	125 ml			Cool 4C	X											
MPDT-14B		3:21P	Soil	1	125 ml			Cool 4C	X											
MPDT-15A		3:31P	Soil	1	125 ml			Cool 4C	X											
MPDT-15B		3:31P	Soil	1	125 ml			Cool 4C	X											

CUSTODY TRANSFER		Received by (print)		Signature		DATE / TIME	
Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME	Received by (print)	Signature
<u>Ben McGee</u>	<u>[Signature]</u>	<u>09/05/06 05:05</u>	<u>C. J. CASTANEDA</u>	<u>[Signature]</u>	<u>9/5/06 09:05</u>	<u>[Signature]</u>	<u>9/5/06 09:05</u>
<u>C. J. CASTANEDA</u>	<u>[Signature]</u>	<u>9/16/06 15:00</u>	<u>Stud for # des Attached</u>	<u>[Signature]</u>	<u>9/16/06 01:30</u>	<u>[Signature]</u>	<u>9/16/06 01:30</u>
<u>Toby</u>	<u>[Signature]</u>	<u>9-7-06 10:10</u>	<u>Harriet Notar</u>	<u>[Signature]</u>	<u>9-7-06 10:10</u>	<u>[Signature]</u>	<u>9-7-06 10:10</u>

PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CA11 484	BN Org#: B502	Send Report to: Mike Kaurie	Phone: 295-7396	Fax: 295-6671	MIS: NTS306	Sampling Site: CA11 484 Lab MPDT	The samples submitted contain (check):				
Charge Number: 501A1225						() Hazardous - (list)					
Project Manager: Jeffrey Smith		Turnaround: () Standard - 14 days HL, 28 days Non-rad Env, 45 days Rad Env				() Radioactive - (list)					
Phone: 295-7775	Fax: 295-7701	MIS: NTS306				() Unknown contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.					
<p>SDG: (III) (Non-Rad Env) <u>V2746</u> (Rad Env)</p> <p>Samples submitted are associated with a signed Project SOW. (X) YES () NO</p> <p>Analyses entered here agree with the SOW. (X) YES () NO () N/A</p> <p>If not, identify the variation: <u>N/A</u></p> <p>Subcontract Lab(s) used for this work: <u>PARAGON</u></p>											
SAMPLE MANAGEMENT INFORMATION											
ID/DESCRIPTION	5 AMP LIDS DATE TIME	MATRIX	CONTAINER # Est. Vol	MD	QC MIS MSD	Pres - Analysis e.g. HCl - VOCs	NAS-A-002	Pay Item, Analysis, Method			
11 MPDT-16A	8/28/06 3:43P	Soil	1 125 ml			Cool 4C	X				
12 MPDT-16B	2 3:43P	Soil	1 125 ml			Cool 4C	X				
13 MPDT-17A	8/29/06 9:10A	Soil	1 125 ml			Cool 4C	X				
14 MPDT-17B		Soil	1 125 ml			Cool 4C	X				
15 MPDT-18A		Soil	1 125 ml			Cool 4C	X				
16 MPDT-18B		Soil	1 125 ml			Cool 4C	X				
17 MPDT-19A		Soil	1 125 ml			Cool 4C	X				
18 MPDT-19B		Soil	1 125 ml			Cool 4C	X				
19 MPDT-20A		Soil	1 125 ml			Cool 4C	X				
20 MPDT-20B		Soil	1 125 ml			Cool 4C	X				
CUSTODY TRANSFER											
Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME						
Ben McEl		09/06/06 09:05	C.D. Castaneda		09/06/06 09:05						
C.D. CASTANEDA		09/06/06 13:00	Fred Lee		09/06/06 13:00						

Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

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Client Project Name: CAU 484

PAI Work Order: 0609034

Reported on: Tuesday, September 12, 2006

Client Project Number: V2746

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Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609034-1	MPDT-21A	Sample	U-233/234	9.28E-01 +/- 4.10E-01	2.54E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-1	MPDT-21A	Sample	U-235	2.70E-01 +/- 2.24E-01	1.22E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-1	MPDT-21A	Sample	U-238	1.63E+00 +/- 5.65E-01	2.10E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-2	MPDT-21B	Sample	U-233/234	1.84E+00 +/- 6.15E-01	2.68E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-2	MPDT-21B	Sample	U-235	1.25E-01 +/- 1.61E-01	2.35E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-2	MPDT-21B	Sample	U-238	1.23E+00 +/- 4.83E-01	2.14E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-3	MPDT-22A	Sample	U-233/234	1.30E+00 +/- 5.00E-01	1.85E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-3	MPDT-22A	Sample	U-235	1.40E-01 +/- 1.64E-01	1.26E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-3	MPDT-22A	Sample	U-238	1.03E+00 +/- 4.36E-01	1.63E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT

Comments:

Data Package ID: UR0609034-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M1 - The requested MDC was not met.

M2 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics

LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC
 Client Project Name: CAU 484
 Client Project Number: V2746

Laboratory Name: Paragon Analytics
 PAI Work Order: 0609034

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 Reported on: Tuesday, September 12, 2006
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Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609034-4	MPDT-22B	Sample	U-233/234	1.42E+00 +/- 5.32E-01	1.67E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-4	MPDT-22B	Sample	U-235	9.55E-02 +/- 1.67E-01	1.29E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-4	MPDT-22B	Sample	U-238	1.01E+00 +/- 4.38E-01	1.90E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-5	MPDT-23A	Sample	U-233/234	1.92E+00 +/- 6.46E-01	2.65E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-5	MPDT-23A	Sample	U-235	2.68E-02 +/- 1.69E-01	2.84E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-5	MPDT-23A	Sample	U-238	1.19E+00 +/- 4.85E-01	2.28E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-6	MPDT-23B	Sample	U-233/234	1.28E+00 +/- 4.95E-01	2.01E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-6	MPDT-23B	Sample	U-235	1.76E-01 +/- 1.87E-01	2.16E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-6	MPDT-23B	Sample	U-238	1.37E+00 +/- 5.14E-01	1.61E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT

Comments:

Data Package ID: UR0609034-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics
 LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

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Client Project Name: CAU 484

PAI Work Order: 0609034

Reported on: Tuesday, September 12, 2006

Client Project Number: V2746

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Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609034-7	MPDT-24A	Sample	U-233/234	1.40E+00 +/- 5.29E-01	2.36E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-7	MPDT-24A	Sample	U-235	3.04E-02 +/- 1.65E-01	2.62E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-7	MPDT-24A	Sample	U-238	1.32E+00 +/- 5.11E-01	2.07E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-8	MPDT-24B	Sample	U-233/234	1.32E+00 +/- 5.23E-01	3.59E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-8	MPDT-24B	Sample	U-235	1.23E-01 +/- 1.69E-01	2.80E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-8	MPDT-24B	Sample	U-238	7.62E-01 +/- 3.77E-01	2.25E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-9	MPDT-25A	Sample	U-233/234	1.53E+00 +/- 5.84E-01	2.85E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-9	MPDT-25A	Sample	U-235	0E+00 +/- 1.82E-01	1.42E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-9	MPDT-25A	Sample	U-238	1.55E+00 +/- 5.85E-01	2.29E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT

Comments:

Data Package ID: UR0609034-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

MS - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

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Client Project Name: CAU 484

PAI Work Order: 0609034

Reported on: Tuesday, September 12, 2006

Client Project Number: V2746

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Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609034-10	MPDT-25B	Sample	U-233/234	1.09E+00 +/- 4.62E-01	2.26E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-10	MPDT-25B	Sample	U-235	4.40E-02 +/- 1.68E-01	1.98E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-10	MPDT-25B	Sample	U-238	1.06E+00 +/- 4.53E-01	1.69E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-11	MPDT-26A	Sample	U-233/234	1.08E+00 +/- 4.47E-01	2.55E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-11	MPDT-26A	Sample	U-235	1.66E-02 +/- 1.57E-01	2.88E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-11	MPDT-26A	Sample	U-238	1.09E+00 +/- 4.48E-01	2.23E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-12	MPDT-26B	Sample	U-233/234	1.71E+00 +/- 5.95E-01	2.21E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-12	MPDT-26B	Sample	U-235	8.60E-02 +/- 1.65E-01	2.21E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-12	MPDT-26B	Sample	U-238	1.11E+00 +/- 4.61E-01	2.21E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT

Comments:

Data Package ID: UR0609034-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

01 The requested MDC was not met.

02 The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC
 Client Project Name: CAU 484
 Client Project Number: V2746

Laboratory Name: Paragon Analytics
 PAI Work Order: 0609034

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 Reported on: Tuesday, September 12, 2006
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Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609034-13	MPDT-27A	Sample	U-233/234	1.66E+00 +/- 6.07E-01	2.26E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-13	MPDT-27A	Sample	U-235	4.72E-02 +/- 1.81E-01	2.13E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-13	MPDT-27A	Sample	U-238	1.45E+00 +/- 5.59E-01	2.07E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-14	MPDT-27B	Sample	U-233/234	1.10E+00 +/- 5.11E-01	2.80E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-14	MPDT-27B	Sample	U-235	2.34E-01 +/- 2.43E-01	2.46E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-14	MPDT-27B	Sample	U-238	1.05E+00 +/- 4.98E-01	2.80E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-15	MPDT-28A	Sample	U-233/234	1.58E+00 +/- 5.74E-01	3.79E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-15	MPDT-28A	Sample	U-235	1.74E-01 +/- 1.89E-01	2.39E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-15	MPDT-28A	Sample	U-238	1.43E+00 +/- 5.35E-01	2.91E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT

Comments:

Data Package ID: UR0609034-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
 LT - Result is less than Requested MDC, greater than sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
 Y2 - Chemical Yield outside default limits.
 M - The requested MDC was not met.
 M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
 MDC - Minimum Detectable Concentration (see PAI SOP 709)
 BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics
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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

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Client Project Name: CAU 484

PAI Work Order: 0609034

Reported on: Tuesday, September 12, 2006

Client Project Number: V2746

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Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609034-16	MPDT-28B	Sample	U-233/234	1.50E+00 +/- 5.53E-01	2.87E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-16	MPDT-28B	Sample	U-235	1.38E-01 +/- 1.67E-01	1.95E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-16	MPDT-28B	Sample	U-238	1.02E+00 +/- 4.44E-01	2.58E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-17	MPDT-29A	Sample	U-233/234	1.30E+00 +/- 5.11E-01	2.26E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-17	MPDT-29A	Sample	U-235	1.45E-01 +/- 1.70E-01	1.31E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-17	MPDT-29A	Sample	U-238	1.47E+00 +/- 5.48E-01	1.93E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-18	MPDT-29B	Sample	U-233/234	1.67E+00 +/- 5.89E-01	1.68E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-18	MPDT-29B	Sample	U-235	1.44E-01 +/- 1.69E-01	1.30E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-18	MPDT-29B	Sample	U-238	1.55E+00 +/- 5.63E-01	1.68E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT

Comments:

Data Package ID: UR0609034-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

U1 - The requested MDC was not met.

U2 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics

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LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

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Client Project Name: CAU 484

PAI Work Order: 0609034

Reported on: Tuesday, September 12, 2006

Client Project Number: V2746

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Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609034-19	MPDT-30A	Sample	U-233/234	1.36E+00 +/- 5.14E-01	2.01E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-19	MPDT-30A	Sample	U-235	8.83E-02 +/- 1.61E-01	1.90E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-19	MPDT-30A	Sample	U-238	1.60E+00 +/- 5.65E-01	2.16E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-20	MPDT-30B	Sample	U-233/234	1.16E+00 +/- 4.76E-01	1.12E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT
0609034-20	MPDT-30B	Sample	U-235	1.42E-01 +/- 1.71E-01	2.00E-01	pCi/g	SOIL	AS060908-3	9/12/2006	U
0609034-20	MPDT-30B	Sample	U-238	1.15E+00 +/- 4.76E-01	1.94E-01	pCi/g	SOIL	AS060908-3	9/12/2006	LT

Comments:

Data Package ID: UR0609034-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Tuesday, September 12, 2006

Paragon Analytics

LIMS Version: 5.422A

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060910

PROJECT / CLIENT INFORMATION

Project CAU 484

BN Orig: B502

Charge Number: 581A1225

Phone: 295-7396

Fax: 295-6071

M/S: NTS306

Project Manager: Jeffrey Smith

Turnaround:

Standard - 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env)
(H) ☒ RUSH Preliminary by 7 14 (non-Rad Env)
1 7 14 28 (Radiological Env)

Phone: 295-7775

Fax: 295-7761

M/S: NTS306

REPORT & TURNAROUND INFORMATION

Send Report to: Mike Krize

SAMPLE INFORMATION

Sampling Site: CAU 484 ~~PARAGON~~ MPDT

The samples submitted contain (check):

- () Hazardous - (list) _____
- () Radioactive - (list) _____
- () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

SAMPLE MANAGEMENT INFORMATION

SDG: _____ (H)

(Non-Rad Env)

V0746

(Rad Env)

Samples submitted are associated with a signed Project SOW.

☒ YES () NO

Analyses entered here agree with the SOW.

☒ YES () NO () N/A

If not, identify the variation:

N/A

Subcontract Lab(s) used for this work:

PARAGON

Pay Item, Analysis, Method

ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est Vol	MD	MS	MSD	Pres - Analysis e.g. HCL - VOCs	NAS-A-002	Iso Uranium								
1 MPDT-21A	8/29/06	10:07A	Soil	1	125 ml				Cool 4C	X									
2 MPDT-21B		10:07A	Soil	1	125 ml				Cool 4C	X									
3 MPDT-22A		10:20A	Soil	1	125 ml				Cool 4C	X									
4 MPDT-22B		10:20A	Soil	1	125 ml				Cool 4C	X									
5 MPDT-23A		10:32A	Soil	1	125 ml				Cool 4C	X									
6 MPDT-23B		10:32A	Soil	1	125 ml				Cool 4C	X									
7 MPDT-24A		10:46A	Soil	1	125 ml				Cool 4C	X									
8 MPDT-24B		10:46A	Soil	1	125 ml				Cool 4C	X									
9 MPDT-25A		11:02A	Soil	1	125 ml				Cool 4C	X									
10 MPDT-25B		11:02A	Soil	1	125 ml				Cool 4C	X									

CUSTODY TRANSFER

Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
Ben McGee		09/06/06 09:05	C.D. CASTANEDA		9/5/06 09:05
(i.e. CASTANEDA)		9/6/06 09:00	Paul West		9/6/06 09:00
RedEx		9-7-06 1010	David Marr		9-7-06 1010

PROJECT / CLIENT INFORMATION

Project: CAU 484 IBN Org#: B502
 Charge Number: 581A1225
 Project Manager: Jeffrey Smith
 Phone: 295-7775 Fax: 295-7761 M/S: NTS306

REPORT & TURNAROUND INFORMATION

Send Report to: Mike Krutz
 Phone: 295-7396 Fax: 295-6671 M/S: NTS306
 Turnaround: () Standard - 14 days (H), 28 days (Non-rad Env), 45 days (Rad Env) (H)
 (X) Rush Preliminary By: 1 2 7 14 28 (Radiological Env)

SAMPLE INFORMATION

Sampling Site: CAU 484 ~~26~~ MPDT
 The samples submitted contain (check):
 () Hazardous - (list) _____
 () Radioactive - (list) _____
 () Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

SAMPLE MANAGEMENT INFORMATION

SDG: (HH) (Non-Rad Env) V2746 (Rad Env)
 Samples submitted are associated with a signed Project SOW. (X) YES () NO
 Analyses entered here agree with the SOW. (X) YES () NO () N/A
 If not, identify the variation: N/A
 Subcontract Lab(s) used for this work: PARAGON

Pay Item, Analysis, Method

ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	MS	MSD	eg. HCl - VOCs	Pres - Analysis	NAS-A-002	Iso Uranium
1 MPDT-26A	8/29/06	11:14A	Soil	1	125 ml					Cool 4C	X	
2 MPDT-26B		11:14A	Soil	1	125 ml					Cool 4C	X	
3 MPDT-27A		11:23P	Soil	1	125 ml					Cool 4C	X	
4 MPDT-27B		11:23P	Soil	1	125 ml					Cool 4C	X	
5 MPDT-28A	8/30/06	08:35A	Soil	1	125 ml					Cool 4C	X	
6 MPDT-28B		08:35A	Soil	1	125 ml					Cool 4C	X	
7 MPDT-29A		08:44A	Soil	1	125 ml					Cool 4C	X	
8 MPDT-29B		08:44A	Soil	1	125 ml					Cool 4C	X	
9 MPDT-30A		08:57A	Soil	1	125 ml					Cool 4C	X	
10 MPDT-30B		08:57A	Soil	1	125 ml					Cool 4C	X	

CUSTODY TRANSFER

Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
Ben McGehee		09/05/06 09:05	C.J. CATHUEDA		9/5/06 0905
C.J. CATHUEDA		9/6/06 0130	Frank Kistler		9/6/06 0130
FOLEX		9-7-06 1010			9-7-06 1010

Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Laboratory Name: Paragon Analytics

Page: 1 of 6

Client Project Name: CAU 484

PAI Work Order: 0609036

Reported on: Friday, September 15, 2006

Client Project Number: V2746

2:33:43 PM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609036-1	MPDT-31A	Sample	U-233/234	1.59E+00 +/- 5.63E-01	2.67E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-1	MPDT-31A	Sample	U-235	7.87E-02 +/- 1.59E-01	2.33E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-1	MPDT-31A	Sample	U-238	1.15E+00 +/- 4.62E-01	2.13E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-2	MPDT-31B	Sample	U-233/234	1.77E+00 +/- 5.86E-01	1.52E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-2	MPDT-31B	Sample	U-235	1.31E-01 +/- 1.53E-01	1.18E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-2	MPDT-31B	Sample	U-238	1.33E+00 +/- 4.92E-01	1.73E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-3	MPDT-32A	Sample	U-233/234	1.21E+00 +/- 4.76E-01	2.46E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-3	MPDT-32A	Sample	U-235	7.01E-02 +/- 1.58E-01	2.64E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-3	MPDT-32A	Sample	U-238	1.22E+00 +/- 4.77E-01	2.12E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT

Comments:

Data Package ID: UR0609036-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Friday, September 15, 2006

Paragon Analytics

LIMS Version: 5.422A

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Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2746

Laboratory Name: Paragon Analytics

PAI Work Order: 0609036

Page: 2 of 6

Reported on: Friday, September 15, 2006
2:33:44 PM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609036-4	MPDT-32B	Sample	U-233/234	1.45E+00 +/- 5.28E-01	1.80E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-4	MPDT-32B	Sample	U-235	3.71E-02 +/- 1.57E-01	2.12E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-4	MPDT-32B	Sample	U-238	1.50E+00 +/- 5.37E-01	1.04E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-5	MPDT-33A	Sample	U-233/234	1.52E+00 +/- 5.40E-01	2.19E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-5	MPDT-33A	Sample	U-235	7.25E-02 +/- 1.54E-01	2.43E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-5	MPDT-33A	Sample	U-238	1.12E+00 +/- 4.49E-01	1.93E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-6	MPDT-33B	Sample	U-233/234	1.28E+00 +/- 5.42E-01	2.65E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-6	MPDT-33B	Sample	U-235	1.65E-01 +/- 1.99E-01	2.32E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-6	MPDT-33B	Sample	U-238	1.48E+00 +/- 5.88E-01	2.47E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT

Comments:

Data Package ID: UR0609036-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Friday, September 15, 2006

Paragon Analytics
LIMS Version: 5.422A

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000005

Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2746

Laboratory Name: Paragon Analytics

PAI Work Order: 0609036

Page: 3 of 6

Reported on: Friday, September 15, 2006

2:33:44 PM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609036-7	MPDT-34A	Sample	U-233/234	1.33E+00 +/- 5.43E-01	4.13E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-7	MPDT-34A	Sample	U-235	1.39E-01 +/- 1.78E-01	2.61E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-7	MPDT-34A	Sample	U-238	1.34E+00 +/- 5.36E-01	3.17E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-8	MPDT-34B	Sample	U-233/234	1.81E+00 +/- 6.25E-01	3.02E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-8	MPDT-34B	Sample	U-235	9.24E-02 +/- 1.69E-01	1.99E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-8	MPDT-34B	Sample	U-238	1.37E+00 +/- 5.29E-01	2.63E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-9	MPDT-35A	Sample	U-233/234	1.62E+00 +/- 6.03E-01	1.85E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-9	MPDT-35A	Sample	U-235	0E+00 +/- 1.85E-01	1.44E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-9	MPDT-35A	Sample	U-238	1.49E+00 +/- 5.73E-01	1.86E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT

Comments:

Data Package ID: UR0609036-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Friday, September 15, 2006

Paragon Analytics
LIMS Version: 5.422A

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000006

Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2746

Laboratory Name: Paragon Analytics

PAI Work Order: 0609036

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Reported on: Friday, September 15, 2006

2:33:44 PM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609036-10	MPDT-35B	Sample	U-233/234	1.39E+00 +/- 5.32E-01	2.12E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-10	MPDT-35B	Sample	U-235	-4.38E-03 +/- 1.69E-01	2.00E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-10	MPDT-35B	Sample	U-238	1.06E+00 +/- 4.55E-01	2.27E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-11	MPDT-36A	Sample	U-233/234	1.58E+00 +/- 5.72E-01	1.13E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-11	MPDT-36A	Sample	U-235	-4.40E-03 +/- 1.70E-01	2.01E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-11	MPDT-36A	Sample	U-238	9.49E-01 +/- 4.27E-01	1.95E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-12	MPDT-36B	Sample	U-233/234	1.96E+00 +/- 6.55E-01	3.09E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-12	MPDT-36B	Sample	U-235	1.32E-01 +/- 1.69E-01	2.47E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-12	MPDT-36B	Sample	U-238	1.34E+00 +/- 5.18E-01	1.92E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT

Comments:

Data Package ID: UR0609036-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Friday, September 15, 2006

Paragon Analytics

LIMS Version: 5.422A

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20060915

Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2746

Laboratory Name: Paragon Analytics

PAI Work Order: 0609036

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Reported on: Friday, September 15, 2006
2:33:44 PM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609036-13	MPDT-37A	Sample	U-233/234	1.35E+00 +/- 5.24E-01	2.28E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-13	MPDT-37A	Sample	U-235	9.31E-02 +/- 1.70E-01	2.00E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-13	MPDT-37A	Sample	U-238	1.49E+00 +/- 5.53E-01	1.70E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-14	MPDT-37B	Sample	U-233/234	1.43E+00 +/- 5.31E-01	2.62E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-14	MPDT-37B	Sample	U-235	9.25E-02 +/- 1.62E-01	1.25E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-14	MPDT-37B	Sample	U-238	1.32E+00 +/- 5.06E-01	2.16E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-15	MPDT-38A	Sample	U-233/234	1.47E+00 +/- 5.29E-01	2.58E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-15	MPDT-38A	Sample	U-235	3.22E-02 +/- 1.53E-01	2.26E-01	pCi/g	SOIL	AS060908-4	9/12/2006	U
0609036-15	MPDT-38A	Sample	U-238	9.96E-01 +/- 4.21E-01	2.19E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT

Comments:

Data Package ID: UR0609036-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Friday, September 15, 2006

Paragon Analytics

LIMS Version: 5.422A

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0609036

Isotopic Uranium By Alpha Spectroscopy Sample Results Summary

Client Name: National Security Technologies, LLC

Client Project Name: CAU 484

Client Project Number: V2746

Laboratory Name: Paragon Analytics

PAI Work Order: 0609036

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Reported on: Friday, September 15, 2006

2:33:44 PM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0609036-16	MPDT-38B	Sample	U-233/234	1.67E+00 +/- 5.95E-01	1.96E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-16	MPDT-38B	Sample	U-235	1.48E-01 +/- 1.73E-01	1.34E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-16	MPDT-38B	Sample	U-238	1.46E+00 +/- 5.50E-01	1.72E-01	pCi/g	SOIL	AS060908-4	9/12/2006	LT
0609036-17	MPDT-R1	Sample	U-233/234	9.77E-02 +/- 1.09E-01	1.73E-01	pCi/l	WATER	AS060908-7	9/12/2006	Y2,U,M
0609036-17	MPDT-R1	Sample	U-235	1.77E-02 +/- 6.14E-02	1.16E-01	pCi/l	WATER	AS060908-7	9/12/2006	Y2,U,M
0609036-17	MPDT-R1	Sample	U-238	7.51E-02 +/- 6.54E-02	9.03E-02	pCi/l	WATER	AS060908-7	9/12/2006	Y2,U,M

Comments:

Data Package ID: UR0609036-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Date Printed: Friday, September 15, 2006

Paragon Analytics

LIMS Version: 5.422A

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PROJECT / CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAU 484	IBN Orig#: B502	Send Report to: Mike Krutze		Phone: 295-7396	Fax: 295-6671	M/S: NTS306	Sampling Site: CAU 484 Point 28 MPDT				
Charge Number: 581A1225				Turnaround: () Standard - 14 days (H), 28 days (Non-Rad Env), 45 days (Rad Env) (H)			The samples submitted contain (check):				
Project Manager: Jeffrey Smith				(X) Rush Preliminary by: 1 2 7 7 14 28 (Radiological Env)			() Hazardous - (list)				
Phone: 295-7775	Fax: 295-7761	M/S: NTS306					() Radioactive - (list)				
				Pay Item, Analysis, Method							
SDG: (H) (Non-Rad Env) 12746 (Rad Env)											
Samples submitted are associated with a signed Project SOW. (X) YES () NO											
Analyses entered here agree with the SOW. (X) YES () NO () N/A											
If not, identify the variation: N/A											
Subcontract Lab(s) used for this work: PHAETROL											
ID/DESCRIPTION	SAMPLE DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC MD MS MSD eg. HCl - VOCs	Pres - Analysis				
1 MPDT-31A	8/30/06	09:08A	Soil	1	125 ml		Cool 4C				
2 MPDT-31B		09:08A	Soil	1	125 ml		Cool 4C				
3 MPDT-32A		09:24A	Soil	1	125 ml		Cool 4C				
4 MPDT-32B		09:24A	Soil	1	125 ml		Cool 4C				
5 MPDT-33A		09:47A	Soil	1	125 ml		Cool 4C				
6 MPDT-33B		09:47A	Soil	1	125 ml		Cool 4C				
7 MPDT-34A		09:59A	Soil	1	125 ml		Cool 4C				
8 MPDT-34B		09:59A	Soil	1	125 ml		Cool 4C				
9 MPDT-35A		10:08A	Soil	1	125 ml		Cool 4C				
10 MPDT-35B		10:08A	Soil	1	125 ml		Cool 4C				
CUSTODY TRANSFER											
Sampled/Retained (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME						
BEN MYERS		09/04/06, 09:05	CAU 484		9/4/06 09:05						
CAU 484		9/16/06 09:30	CAU 484		9/16/06 09:30						
FAIR		4-7-06 1010			4-7-06 1010						

SAMPLE INFORMATION

Pay Item, Analysis, Method

Analyses entered here agree with the SOW.

Subcontract Lab(s) used for this work:

CUSTODY TRANSFER

Sampled/Relinquished (print)

Signature _____

DATE: TIME:

Received by (print)

Signature

DATE/TIME

09-89 BEN McKEE

09/05/06 : 09:25

Christiana

1

9/5/2015

C.A. CASTANEDA

9/11/106213412

7000 # 14.00 11/17/00

7/16/76 0613ED

FedEx

9-7-06 1010

9-7-06	10/16
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SAMPLE INFORMATION

Pay Item, Analysis, Method

Subcontract Lab(s) used for this work: PHILIZON

LAST	17th
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Sampled/Relinquished (print)

Isen McGee