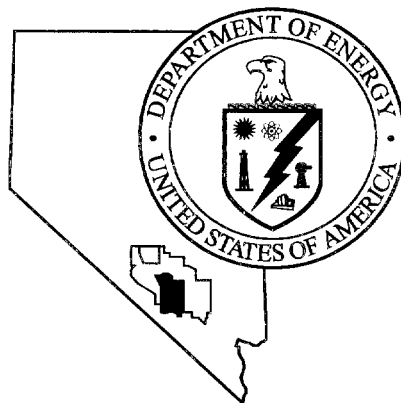


Nevada
Environmental
Restoration
Project

DOE/NV--702



Closure Report for
Corrective Action Unit 240:
Area 25 Vehicle Washdown
Nevada Test Site, Nevada

Controlled Copy No.:

UNCONTROLLED

Revision: 0

March 2001

Environmental Restoration
Division

U.S. Department of Energy
Nevada Operations Office

Available for sale to the public, in paper, from:

U.S. Department of Commerce
National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161-0002
Telephone: (800) 553-6847
Fax: (703) 605-6900
E-mail: orders@ntis.fedworld.gov
Online ordering: <http://www.ntis.gov/ordering.htm>

Available electronically at <http://www.doc.gov/bridge>

Available for a processing fee to the U.S. Department of Energy and its contractors, in paper, from:

U.S. Department of Energy
Office of Scientific and Technical Information
P.O. Box 62
Oak Ridge, TN 37831-0062
Telephone: (865) 576-8401
Fax: (865) 576-5728
E-mail: reports@adonis.osti.gov

Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the U.S. Government or any agency thereof or its contractors or subcontractors.

**CLOSURE REPORT
FOR CORRECTIVE ACTION UNIT 240:
AREA 25 VEHICLE WASHDOWN,
NEVADA TEST SITE, NEVADA**

Controlled Copy No.: _____

UNCONTROLLED

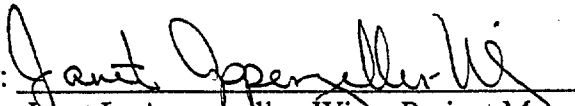
Revision 0

March 2001

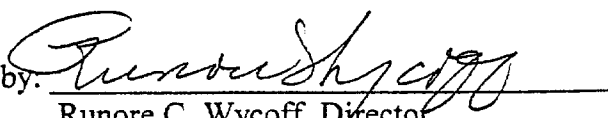
**Prepared for the U.S. Department of Energy
Nevada Operations Office
under Contract No. DE-AC08-96NV11718**

THIS PAGE INTENTIONALLY LEFT BLANK

**CLOSURE REPORT FOR
CORRECTIVE ACTION UNIT 240:
AREA 25 VEHICLE WASHDOWN,
NEVADA TEST SITE, NEVADA**

Approved by: 
Janet L. Appenzeller-Wing, Project Manager
Industrial Sites Project

Date: 3/21/01

Approved by: 
Runore C. Wycoff, Director
Environmental Restoration Division

Date: 3/21/01

THIS PAGE INTENTIONALLY LEFT BLANK

TABLE OF CONTENTS

ACRONYMS AND ABBREVIATIONS	vii
EXECUTIVE SUMMARY	ix
1.0 INTRODUCTION	1
1.1 Purpose	1
1.2 Scope	4
1.3 Closure Report Contents	4
2.0 CLOSURE ACTIVITIES	7
2.1 Description of Corrective Action Activities	7
2.1.1 Preplanning and Site Preparation	7
2.1.2 Pre-Excavation Radiological Survey	7
2.1.3 Removal of the Concrete Pad and Utility Poles	7
2.1.4 Excavation of Impacted Soil	9
2.1.4.1 Excavation of Radioactive Soil	9
2.1.4.2 Excavation of Petroleum Hydrocarbon Soil	9
2.1.5 Decontamination/Radiological Survey of Equipment	9
2.1.6 Radiological Demarcation Survey	11
2.1.7 Backfilling and Regrading of Excavation	11
2.2 Deviations from the CAP as Approved	11
2.3 Corrective Action Schedule as Completed	12
2.4 Site Plan/Survey Plat	12
3.0 WASTE DISPOSITION	15
4.0 CLOSURE VERIFICATION RESULTS	17
4.1 Field Sample Analyses	17
4.2 Verification Sample Analyses	17
4.3 Use Restriction	20
5.0 CONCLUSIONS	23
5.1 Closure Petition	23
6.0 REFERENCES	25

TABLE OF CONTENTS (continued)

APPENDICES

Appendix A: Photographs of Pre-and Post-Closure Site Conditions

Appendix B: Waste Disposition Documentation

Appendix C: Verification Sample Analytical Reports

DISTRIBUTION LIST

FIGURES

Figure 1 - CAU 240 Location Map	2
Figure 2 - CAS 25-07-02 Site Map	3
Figure 3 - Hot Spot Locations	8
Figure 4 - Location of Excavated Soil	10
Figure 5 - Verification Sample Locations	19

TABLES

Table 1 - Closure Schedule as Completed	13
Table 2 - PetroFLAG® Sample Results	18
Table 3 - Verification Sample Results	21

ACRONYMS AND ABBREVIATIONS

BN	Bechtel Nevada
CADD	Corrective Action Decision Document
CAP	Corrective Action Plan
CAS	Corrective Action Site
CAU	Corrective Action Unit
COC	Constituent of Concern
CR	Closure Report
Cs-137	Cesium-137
DOE/NV	U.S. Department of Energy, Nevada Operations Office
FFACO	Federal Facility Agreement and Consent Order
ft	feet
m	meter
m ³	cubic meter
mg/kg	milligram per kilogram
NAC	Nevada Administrative Code
NDEP	Nevada Division of Environmental Protection
NTS	Nevada Test Site
pCi/g	picoCuries per gram
ppm	parts per million
Sr-90	Strontium-90
TPH	Total Petroleum Hydrocarbon
yd ³	cubic yard

THIS PAGE INTENTIONALLY LEFT BLANK

EXECUTIVE SUMMARY

The Area 25 Vehicle Washdown, Corrective Action Unit (CAU) 240, was clean-closed following the approved Corrective Action Decision Document closure alternative and in accordance with the Federal Facility Agreement and Consent Order (FFACO, 1996). The CAU consists of three Corrective Action Sites (CASs):

- 25-07-01 - Vehicle Washdown Area (Propellant Pad)
- 25-07-02 - Vehicle Washdown Area (F and J Roads Pad)
- 25-07-03 - Vehicle Washdown Station (RADSAFE Pad)

Characterization activities indicated that only CAS 25-07-02 (F and J Roads Pad) contained constituents of concern (COCs) above action levels and required remediation. The COCs detected were Total Petroleum Hydrocarbons (TPH) as diesel, cesium-137, and strontium-90.

The F and J Roads Pad may have been used for the decontamination of vehicles and possibly disassembled engine and reactor parts from Test Cell C. Activities occurred there during the 1960s through early 1970s. The F and J Roads Pad consisted of a 9- by 5-meter (m) (30- by 15-foot [ft]) concrete pad and a 14- by 13-m (46- by 43-ft) gravel sump.

The clean-closure corrective action consisted of excavation, disposal, verification sampling, backfilling, and regrading. Closure activities began on August 21, 2000, and ended on September 19, 2000. Waste disposal activities were completed on December 12, 2000. A total of 172 cubic meters (223 cubic yards) of impacted soil was excavated and disposed. The concrete pad was also removed and disposed. Verification samples were collected from the bottom and sidewalls of the excavation and analyzed for TPH diesel and 20-minute gamma spectroscopy. The sample results indicated that all impacted soil above remediation standards was removed.

The closure was completed following the approved Corrective Action Plan. All impacted waste was disposed in the Area 6 Hydrocarbon Landfill. All non-impacted debris was disposed in the Area 9 Construction Landfill and the Area 23 Sanitary Landfill.

Therefore, the U.S. Department of Energy, Nevada Operations Office requests that a Notice of Completion be issued by the Nevada Division of Environmental Protection for the Area 25 Vehicle Washdown, CAU 240, and that CAU 240 be moved from Appendix III to Appendix IV of the FFACO, "Closed Corrective Action Units." Because this is a clean closure, post-closure monitoring is not required at the site.

THIS PAGE INTENTIONALLY LEFT BLANK

1.0 INTRODUCTION

This Closure Report (CR) describes the remediation activities performed and the results of verification sampling conducted at Corrective Action Unit (CAU) 240, Area 25 Vehicle Washdown. The CAU is currently listed in Appendix III of the Federal Facility Agreement and Consent Order (FFACO, 1996). The CAU is located in Area 25 of the Nevada Test Site (NTS) (Figure 1) and consists of the following Corrective Action Sites (CASs):

- 25-07-01 - Vehicle Washdown Area (Propellant Pad)
- 25-07-02 - Vehicle Washdown Area (F and J Roads Pad)
- 25-07-03 - Vehicle Washdown Station (RADSAFE Pad)

Previous characterization activities were conducted during March 1999. The results of the characterization presented in the Corrective Action Decision Document (CADD) indicated that only CAS 25-07-02 (F and J Roads Pad) contained constituents of concern (COCs) above action levels and required remediation (U.S. Department of Energy, Nevada Operations Office [DOE/NV], 1999a).

1.1 PURPOSE

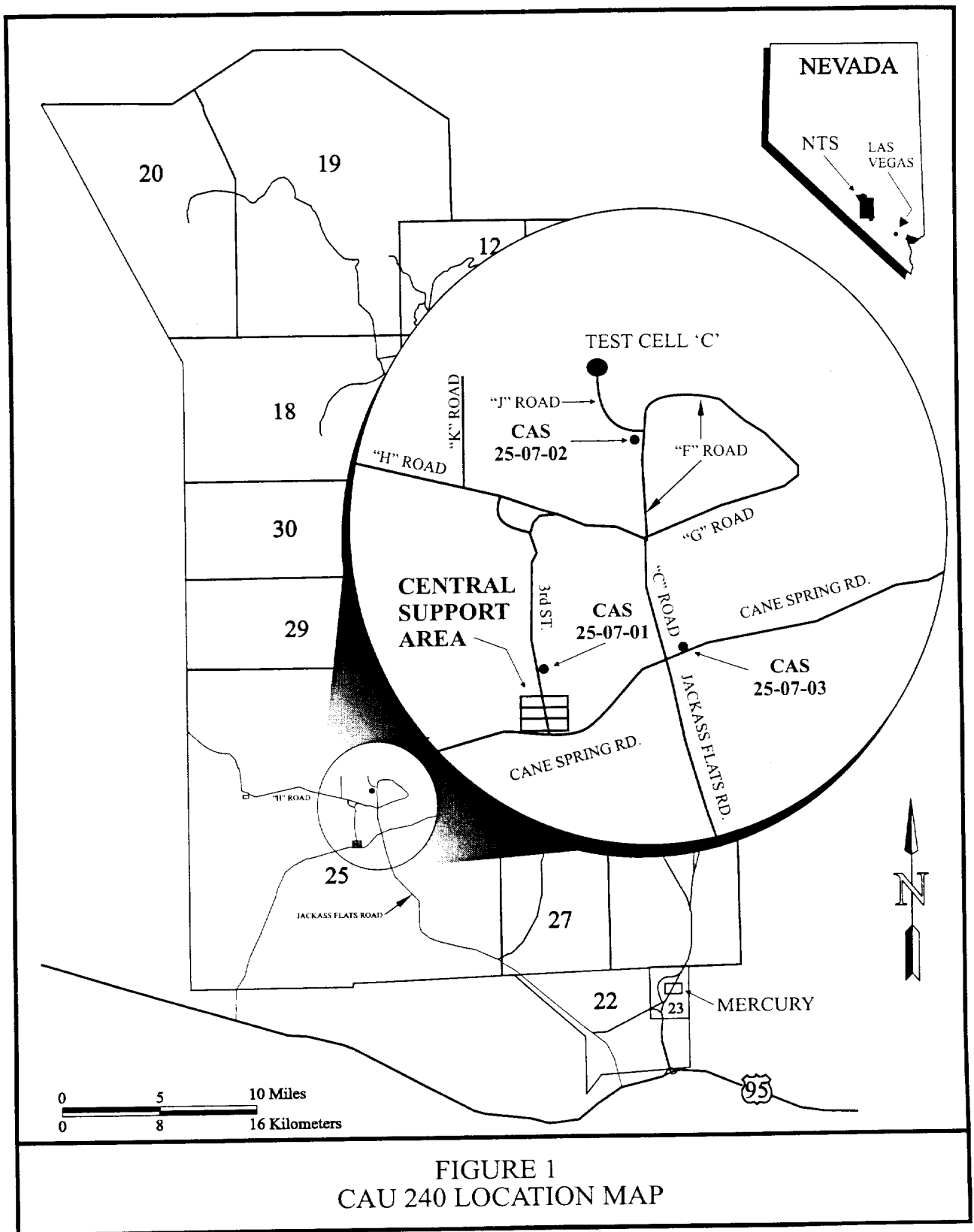
The purpose of this CR is to provide documentation of the completed corrective action and to provide data confirming the corrective action. The corrective action was performed in accordance with the approved Corrective Action Plan (CAP) (DOE/NV, 2000) and consisted of clean closure by excavation and disposal.

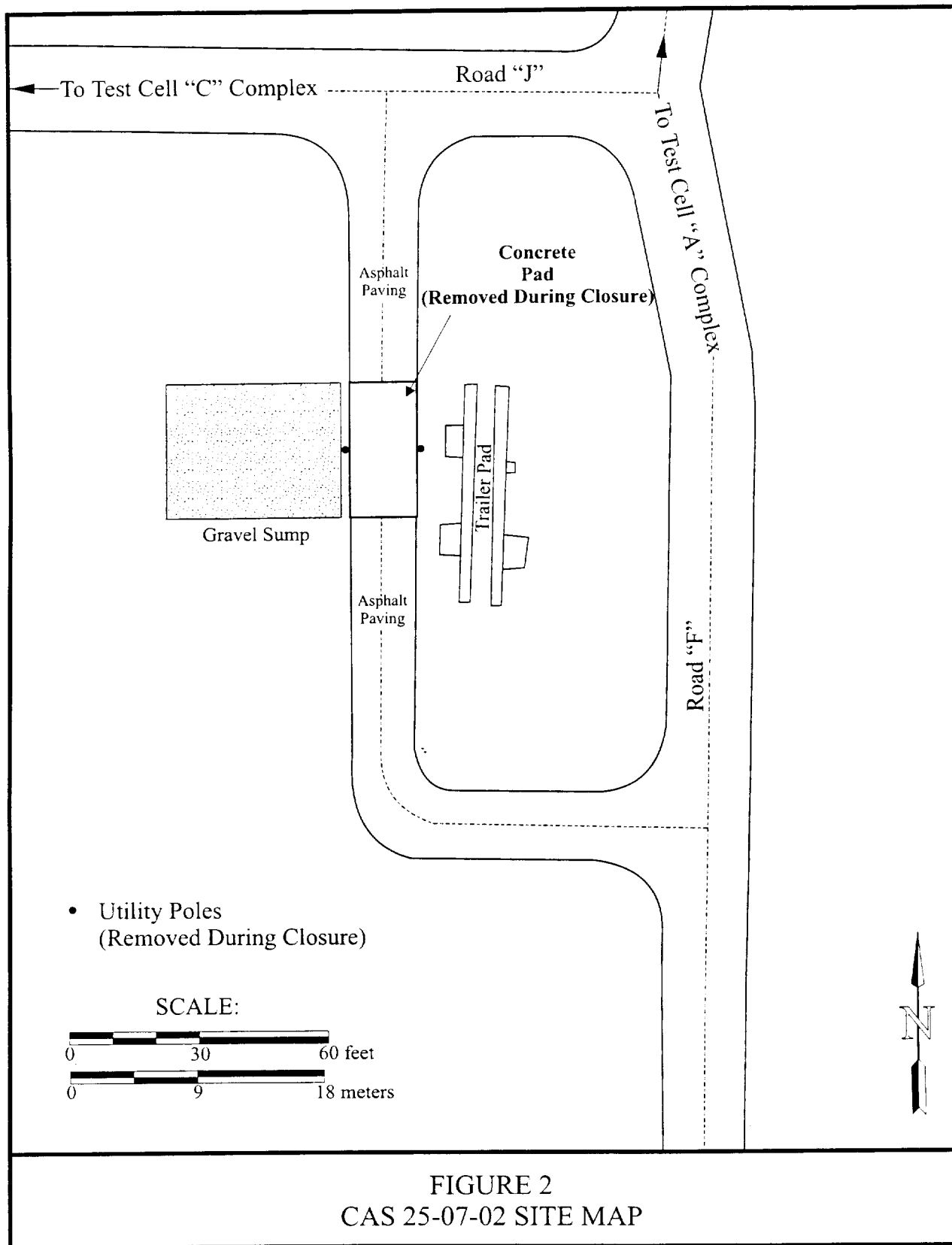
The F and J Roads Pad may have been used for the decontamination of vehicles and possibly disassembled engine and reactor parts from Test Cell C. Activities occurred there during the 1960s through early 1970s. The F and J Roads Pad consisted of a 9- by 5-meter (m) (30- by 15-foot [ft]) concrete pad and a 14- by 13-m (46- by 43-ft) gravel sump (Figure 2).

Based on the sample results from the site characterization, the only COCs detected were Total Petroleum Hydrocarbons (TPH) as diesel, cesium-137 (Cs-137), and strontium-90 (Sr-90).

The F and J Roads Pad contained soil with TPH as diesel at levels of up to 1,500 milligrams per kilogram (mg/kg), which exceeds the Nevada Division of Environmental Protection (NDEP) regulatory action level of 100 mg/kg for TPH (Nevada Administrative Code [NAC], 1996).

The F and J Roads Pad was also impacted by Cs-137 and Sr-90 at concentrations up to 14.65 and 12.5 picoCuries per gram (pCi/g), respectively. The radiological background level is 7.0 pCi/g,





assuming a one to one ratio for Cs-137 and Sr-90. The TPH and radiologically impacted soil located around the perimeter and beneath the pad was removed and disposed as part of the corrective action.

1.2 SCOPE

The scope of work for this project consisted of the following activities:

- Preplanning and site preparation, including preparation of plans and permits, delineation of excavation boundaries, and mobilization of equipment and personnel to the site.
- Excavation of the soil containing radionuclides above background levels and petroleum hydrocarbons above 100 mg/kg around the perimeter of the F and J Roads Pad to a minimum depth of 0.6 m (2 ft) and a planned maximum depth of 1.8 m (6 ft) below ground surface.
- Removal and disposal of the concrete pad.
- Collection of soil samples to verify that COCs have been removed to approved levels.
- Disposal of excavated materials following applicable federal, state, and DOE/NV regulations in accordance with Section 2.3 of the CAP (DOE/NV, 2000).
- Decontamination of equipment as necessary.
- Backfilling and grading of the site.

1.3 CLOSURE REPORT CONTENTS

This document is divided into the following sections in accordance with the approved FFACO CR standardized outline:

- Section 1.0 - Introduction
- Section 2.0 - Closure Activities
- Section 3.0 - Waste Disposition
- Section 4.0 - Closure Verification Results
- Section 5.0 - Conclusions
- Section 6.0 - References

Certain sections and appendices of this document have been modified from the approved FFACO outline. The following FFACO sections and appendices have not been included or revised as indicated below:

- Use Restriction - Not applicable. The site was clean-closed.
- Closure Certification - Not applicable.
- As-Built Documentation - Not applicable. No engineered structures were constructed.
- Modifications to the Post-Closure Plan - Not applicable. The site was clean-closed.

The appendices included in this document are provided as follows:

- Appendix A: Photographs of Pre-and Post-Closure Site Conditions
- Appendix B: Waste Disposition Documentation
- Appendix C: Verification Sample Analytical Reports

THIS PAGE INTENTIONALLY LEFT BLANK

2.0 CLOSURE ACTIVITIES

2.1 DESCRIPTION OF CORRECTIVE ACTION ACTIVITIES

2.1.1 PREPLANNING AND SITE PREPARATION

Several plans were prepared prior to beginning corrective action activities at CAU 240. These plans included the CAP (DOE/NV, 2000), Field Management Plan (Bechtel Nevada [BN], 2000a), Site Specific Health and Safety Plan (BN, 2000b), Radiological Work Permit, and an excavation permit. In addition, a National Environmental Policy Act checklist was prepared and approved and a site survey was performed by a biologist. No evidence of tortoise habitation or other threatened or endangered species was found.

Site preparation involved a utility survey, mobilization of equipment to the site, and designation of the exclusion zone. Active above-ground utilities were not present at the site. Two wood utility poles were present on either side of the pad. Floodlights were mounted to these poles when the F and J Roads pad was active. Electric service to the poles was removed when pad activities ended. The poles were removed and disposed as part of the closure. A survey of underground utilities was done so that excavations would not cross any utility lines. Water and electric lines were identified. However, these utilities were only active when the F and J Roads pad was operational and were de-energized and abandoned when operations there ended.

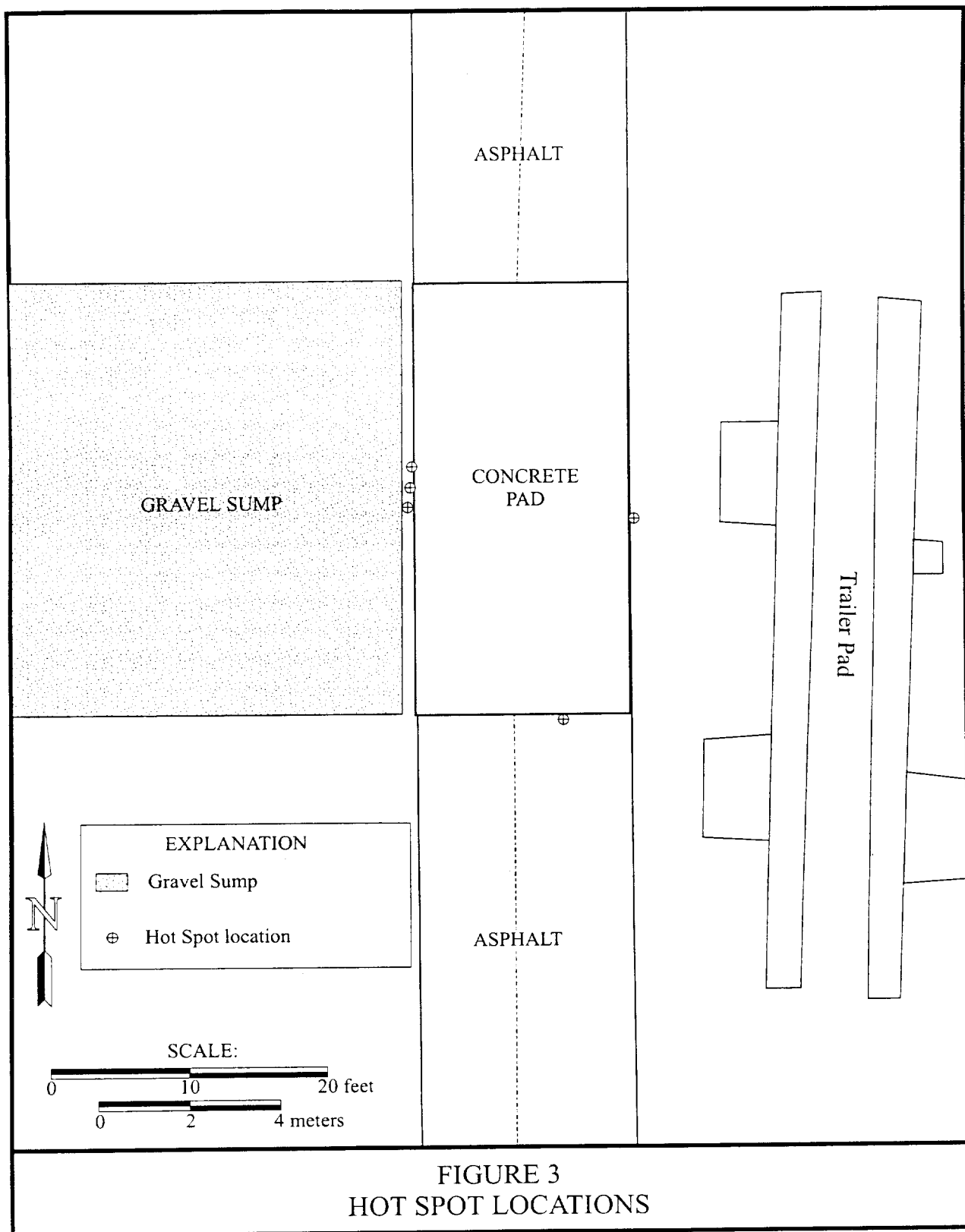
2.1.2 PRE-EXCAVATION RADIOLOGICAL SURVEY

A radiological survey was conducted on August 2, 2000. This survey was done prior to any excavation activities to identify any radiological hot spots present on and around the pad. Results indicated that hot spots were present on the west, east, and south sides of the pad. Hot spots were identified as those areas that exceeded the free release limits established in the NV/YMP Radiological Control Manual (DOE/NV, 1999b). The locations of the hot spots are shown in Figure 3.

2.1.3 REMOVAL OF THE CONCRETE PAD AND UTILITY POLES

Closure activities began on August 22, 2000, with the cutting and removal of the concrete pad. A concrete saw was used to cut the pad into six equal size pieces. The pieces were then lifted with a forklift, excess soil was removed, and the pieces were radiologically surveyed. The pieces were then placed on dunnage in a staging area until the radiological survey results were complete.

The two utility poles were removed, radiologically surveyed, and stored on site prior to disposal.



2.1.4 EXCAVATION OF IMPACTED SOIL

2.1.4.1 Excavation of Radioactive Soil

The radiological hot spots were excavated using a backhoe. After each excavation, the area was radiologically surveyed using hand-held instrumentation to determine if additional excavation was necessary. Soil exceeding 7.0 pCi/g was removed to a maximum depth of approximately 0.5 m (1.5 ft) around the perimeter of the pad. Approximately 19 cubic meters (m^3) (25 cubic yards [yd^3]) of soil was excavated and placed into seven B-25 boxes. The filling of the B-25 boxes was overseen by BN Performance Assurance and Radioactive Waste Controls personnel. The radiological hot spots were associated with petroleum hydrocarbon impacted soil and was not segregated.

2.1.4.2 Excavation of Petroleum Hydrocarbon Soil

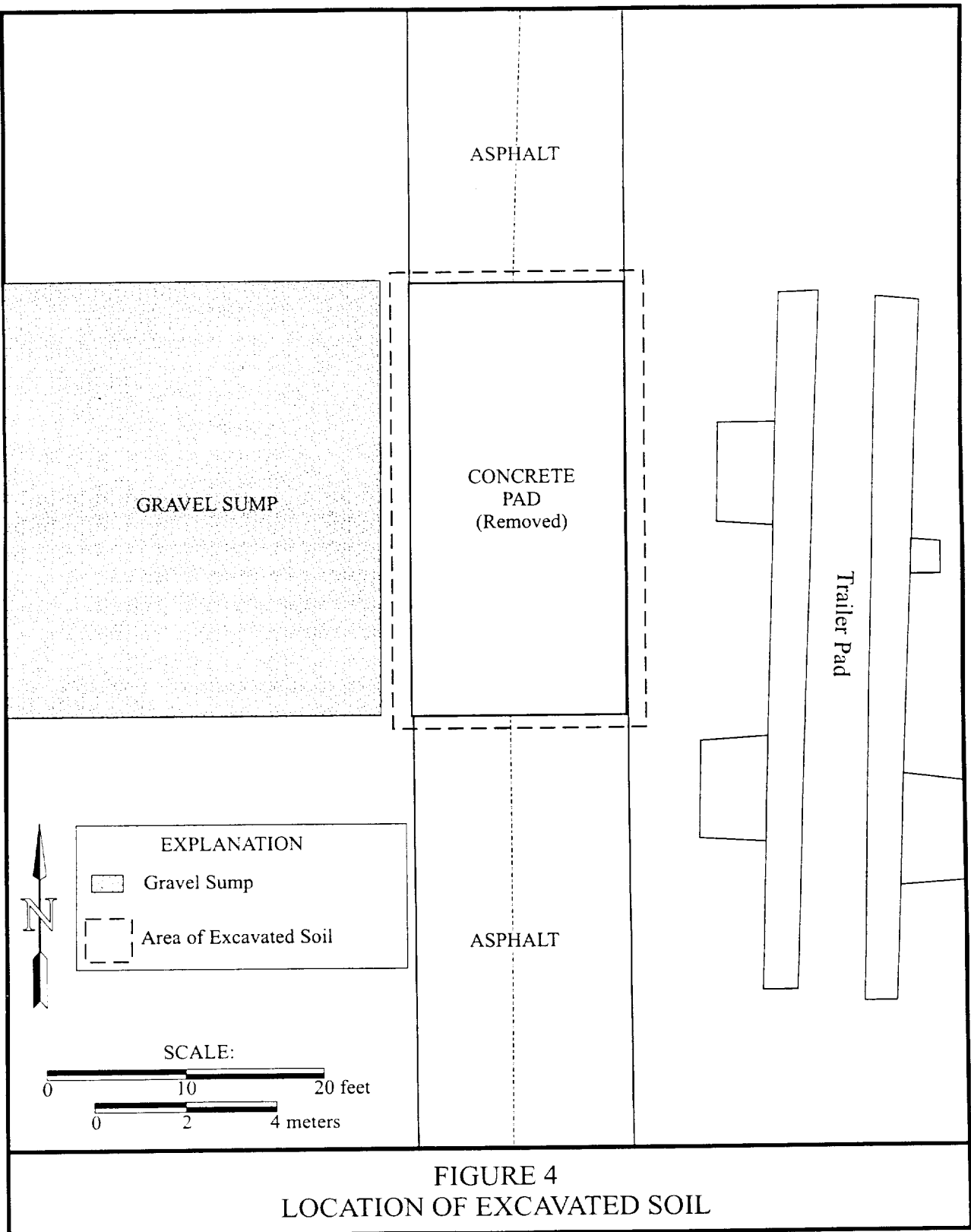
Prior to additional soil removal, the area to be excavated was radiologically surveyed using hand-held instruments. Excavation was initially done with a backhoe around the perimeter of the pad area. It became evident that there was more petroleum hydrocarbon-impacted soil than was anticipated. Hydrocarbon-impacted soil was present under the pad as well as around the perimeter. Therefore, it was more efficient to use a front-end loader to continue excavating.

During excavation, a field sample of the most visually impacted hydrocarbon soil was collected and screened for head space analysis. The sample was placed into a sealed plastic bag and placed in the sun for 30 minutes. Head space was then analyzed using a photoionization detector with a lamp energy of 11.4 electron volts. Samples were also screened for hydrocarbon content using a PetroFLAG[®] test kit. The results of these analyses are provided in Section 4.0. The excavation was also periodically surveyed for radiological levels.

Petroleum hydrocarbon-impacted soil was removed to a maximum depth of 1.8 m (6 ft). Soil was excavated from the perimeter of the pad and also from under the pad (Figure 4). A total of approximately 153 m^3 (200 yd^3) of soil was excavated. The soil was stockpiled prior to being loaded into dump trucks for disposal in the Area 6 Hydrocarbon Landfill.

2.1.5 DECONTAMINATION/RADIOLOGICAL SURVEY OF EQUIPMENT

All hand-held sampling equipment was decontaminated prior to being brought to the field. Soil sampling scoops were decontaminated using a laboratory-grade detergent solution, an isopropanol rinse and de-ionized water rinses. Hand-held sampling equipment was used only once in the field, so that decontamination in the field was not required. All equipment used in the radiologically controlled area, including excavation equipment, was surveyed for



radiological constituents using hand-held instruments and swipe samples prior to release from the site. All equipment was found to be below the free release limits established in the NV/YMP Radiological Control Manual (DOE/NV, 1999b).

2.1.6 RADIOLOGICAL DEMARCATION SURVEY

After verification samples indicated that all radiologically impacted soil had been removed, a radiological demarcation survey was done on September 12, 2000. The results of this survey indicated that the site was free from radiological contamination. Therefore, the "Contamination Area" postings were removed.

2.1.7 BACKFILLING AND REGRADING OF EXCAVATION

The backfilling operation was done on September 19, 2000. All clean fill soil was obtained from a borrow pit in Area 25. The excavation was backfilled to existing grade, wheel-compacted using a front-end loader and water truck, and graded to minimize ponding of surface water. All remaining fencing and debris was removed and disposed.

2.2 DEVIATIONS FROM THE CAP AS APPROVED

No significant deviations occurred from the approved scope of work as outlined in the CAP (DOE/NV, 2000). The following minor deviations occurred from the approved scope of work:

- Recent revisions to the NTS Landfill Permits allow the disposal of materials with slightly elevated radiological levels (NDEP, 1995). Evaluation of site characterization data and hot spot sample results indicated that the level of radioactivity in the soil did not exceed the level permitted for landfill disposal. Therefore, the radiologically impacted soil is no longer considered low-level waste and was disposed in the Area 6 Hydrocarbon Landfill. The NDEP was notified and agreed to this on November 16, 2000 (Curtis, 2000).
- The actual volume of generated waste varied from the planned volume. A total of 172 m³ (223 yd³) was disposed rather than the planned 19 m³ (25 yd³). The volume increased because impacted soil was found under the concrete pad in addition to around the perimeter which resulted in a larger excavation.
- Verification soil samples were collected in more locations than planned. The CAP (DOE/NV, 2000) proposed collecting 25 verification samples including four sidewall samples in one corner of the excavated area. However, since one large excavation resulted from the clean-up activities, six sidewall samples were collected. Therefore a total of 27 verification samples was collected.

2.3 CORRECTIVE ACTION SCHEDULE AS COMPLETED

The corrective action field activities began on August 21, 2000, and were completed on September 19, 2000. A corrective action schedule as completed is provided in Table 1.

2.4 SITE PLAN/SURVEY PLAT

Because this is a clean closure survey data are not required for this closure. Because engineered construction was not required as part of this closure, as-built drawings are not included in this CR.

Table 1 - Closure Schedule as Completed

Activity ID	Activity Description	Orig Dur	Rem Dur	%	Early Start	Early Finish	2000																				
							AUG			SEP			OCT			NOV			DEC								
							1	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27	4	11	
Area 25 Vehicle Washdown Closure Schedule																											
240100	Mobilize	2	2		0 21AUG00*	22AUG00																					
240110	Remove Concrete Pad/Utility Poles	3	3		0 22AUG00	24AUG00																					
240120	Excavate Impacted Soil	6	6		0 28AUG00	05SEP00																					
240130	Collect Verification Samples	1	1		0 06SEP00	06SEP00																					
240140	Site Radiological Release Survey	3	3		0 08SEP00	12SEP00																					
240150	Backfill Excavation/Remove Fencing	1	1		0 12SEP00	12SEP00																					
240160	Demobilize	1	1		0 13SEP00	13SEP00																					
240170	Waste Management/Disposal	61	61		0 28AUG00	11DEC00																					

THIS PAGE INTENTIONALLY LEFT BLANK

3.0 WASTE DISPOSITION

Wastes generated during the closure of CAU 240 were disposed as follows:

Approximately 172 m³ (223 yd³) of petroleum hydrocarbon and radiologically impacted soil was disposed in the NTS Area 6 Hydrocarbon Landfill. It was determined that the concentration of radiological constituents in the soil was not high enough to be considered low-level waste. Therefore, disposal in the Hydrocarbon Landfill was acceptable and approved by the NDEP on November 16, 2000 (Curtis, 2000). Compactable hotline trash was also disposed in the hydrocarbon landfill.

The concrete pad, utility poles, and other large debris was disposed in the Area 9 Construction Landfill. Sanitary trash and miscellaneous small debris was disposed in the Area 23 Landfill.

Waste disposal activities were completed on December 12, 2000.

Waste disposition records are provided in Appendix B.

THIS PAGE INTENTIONALLY LEFT BLANK

4.0 CLOSURE VERIFICATION RESULTS

Verification sampling was done on September 6, 2000 following Section 2.4 of the CAP (DOE/NV, 2000). The CADD indicated that the only COCs were TPH as diesel, Cs-137, and Sr-90 (DOE/NV, 1999a). Therefore, the verification samples were only analyzed for TPH as diesel and 20-minute gamma spectroscopy. The laboratory data package is provided in Appendix C.

4.1 FIELD SAMPLE ANALYSES

During excavation, a field sample of the most visually impacted hydrocarbon soil was collected and screened for head space analysis. The result of this analysis was 0.3 parts per million (ppm). A total of 13 samples were also screened for hydrocarbon content using a PetroFLAG® test kit. The results are provided in Table 2.

4.2 VERIFICATION SAMPLE ANALYSES

A total of 27 verification soil samples were collected and analyzed for TPH as diesel and 20-minute gamma spectroscopy. Verification soil samples were collected from the sidewalls and floor of the excavation approximately every 1.5 m (5 ft). Sample locations are provided in Figure 5. The samples were collected with decontaminated stainless steel sampling scoops and placed in appropriate sample containers. All samples were labeled with a unique sample number, placed on ice in coolers, and transported under chain-of-custody to the Analytical Services Laboratory in Mercury, Nevada.

Samples were numbered using the following nomenclature:

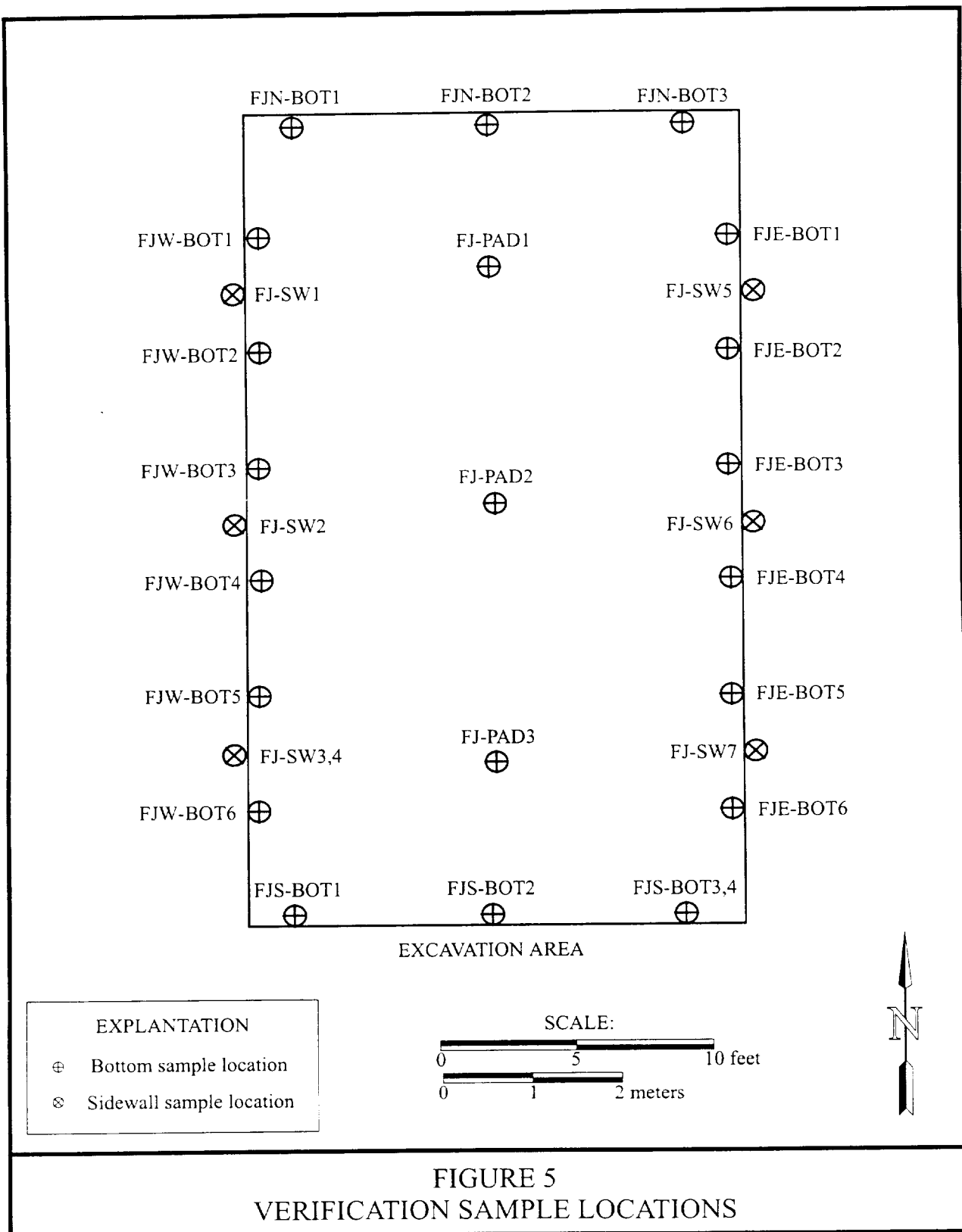
FJE-BOT1

Where:

- FJ is the site location.
- E is the compass direction of the excavation.
- BOT indicates excavation floor samples (SW was used for sidewall samples; PAD indicates samples collected from under the concrete pad area).
- 1 is the sample number.

TABLE 2 - PETROFLAG® SAMPLE RESULTS

SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (ft)	RESULT (ppm)
PF #1	Northwest Corner Bottom	2	>2600
PF #2	West Side Bottom	2	495
PF #3	West Sidewall	1	426
PF #4	Southwest Corner Bottom	2	189
PF #5	East Side Bottom	2	97
PF #6	Southwest Corner Bottom	4	0
PF #7	East Side Bottom	4.5	7
PF #8	Northwest Corner Bottom	4	133
PF #9	Northeast Corner Bottom	4.5	13
PF #10	Northwest Corner Bottom	5	44
PF #11	West Side Bottom	5	6
PF #12	Northwest Corner Bottom	6	51
PF #13	Southwest Corner Bottom	5	10



Sample results are provided in Table 3. Sample results indicated that the COCs are not present in the soil above action limits.

4.3 USE RESTRICTION

A clean closure was performed at this CAS. Land use is unrestricted. A Post-Closure Plan is not necessary for this site.

TABLE 3 - VERIFICATION SAMPLE RESULTS

SAMPLE ID	SAMPLE DEPTH (ft)	TPH DIESEL (mg/kg) ^A	Cs-137 (pCi/g) ^C	Sr-90 (pCi/g)
FJN-BOT1	4	<20 ^B	<0.07 ^D	<0.07
FJN-BOT2	4	<20	<0.07	<0.07
FJN-BOT3	4	<20	<0.07	<0.07
FJS-BOT1	2	<20	<0.07	<0.07
FJS-BOT2	2	<20	<0.07	<0.07
FJS-BOT3	2	<20	<0.07	<0.07
FJS-BOT4	2	<20	<0.07	<0.07
FJE-BOT1	4.5	<20	1.61	1.61
FJE-BOT2	4.5	<20	<0.07	<0.07
FJE-BOT3	4.5	<20	<0.07	<0.07
FJE-BOT4	4.5	<20	<0.07	<0.07
FJE-BOT5	3	<20	<0.07	<0.07
FJE-BOT6	2	<20	<0.07	<0.07
FJW-BOT1	6	53	<0.07	<0.07
FJW-BOT2	6	63	<0.07	<0.07
FJW-BOT3	5	<20	<0.07	<0.07

TABLE 3 (Continued) - VERIFICATION SAMPLE RESULTS

SAMPLE ID	SAMPLE DEPTH (ft)	TPH DIESEL (mg/kg)	Cs-137 (pCi/g)	Sr-90 (pCi/g)
FJW-BOT4	5	<20	<0.07	<0.07
FJW-BOT5	4	<20	<0.07	<0.07
FJW-BOT6	3	<20	<0.07	<0.07
FJ-PAD1	4	<20	<0.07	<0.07
FJ-PAD2	3	<20	<0.07	<0.07
FJ-PAD3	2	<20	<0.07	<0.07
FJ-SW1	5	<20	<0.07	<0.07
FJ-SW2	5	58	<0.07	<0.07
FJ-SW3	3	<20	<0.07	<0.07
FJ-SW4	3	27	<0.07	<0.07
FJ-SW5	4	<20	<0.07	<0.07
FJ-SW6	3	<20	<0.07	<0.07
FJ-SW7	2	<20	<0.07	<0.07

A - milligrams per kilogram

B - 20 mg/kg is the reporting limit

C - picoCuries per gram

D - 0.07 pCi/g is the Minimum Detectable Activity

Refer to Figure 4 for sample locations and Appendix C for Laboratory Data Reports

5.0 CONCLUSIONS

CAU 240, Area 25 Vehicle Washdown, CAS 25-07-02 (F and J Roads Pad), was excavated and found to contain petroleum hydrocarbon and radiologically impacted soil. All the impacted soil was excavated and disposed in the NTS Area 6 Hydrocarbon Landfill. Approval was granted by the NDEP to dispose of this soil in the Area 6 Hydrocarbon Landfill because data evaluation concluded that the concentration of radiological constituents did not exceed landfill acceptance criteria. The concrete pad and utility poles were disposed in the NTS Area 9 Construction Landfill. Other miscellaneous debris was disposed in the NTS Area 23 Landfill. Verification samples were collected and the analytical results indicated that soil above action levels was removed. The excavation was backfilled with clean soil, wheel-compacted, and graded. A final radiological demarcation survey was done and showed the site to be free of radiological contamination. The site was de-posted and the fences were removed.

Closure was accomplished in accordance with the approved CAP (DOE/NV, 2000). Verification sample data demonstrate that all COCs were removed to the remediation standards. Therefore, the site is clean-closed.

5.1 CLOSURE PETITION

This closure was completed following the approved CAP (DOE/NV, 2000). Based upon the completion of site closure activities, the DOE/NV requests that a Notice of Completion be issued by the NDEP for the Area 25 Vehicle Washdown, CAU 240, and that CAU 240 be moved from Appendix III to Appendix IV of the FFACO, "Closed Corrective Action Units."

THIS PAGE INTENTIONALLY LEFT BLANK

6.0 REFERENCES

BN, see Bechtel Nevada.

Bechtel Nevada, 2000a, Field Management Plan for Corrective Action Unit 240: Area 25 Vehicle Washdown, Nevada Test Site, Nevada.

Bechtel Nevada, 2000b, Site Specific Health and Safety Plan for Corrective Action Unit 240: Area 25 Vehicle Washdown, Nevada Test Site, Nevada.

Curtis, Sabine. 2000. E-mail to Dennis Gustafson, November 16.

DOE/NV, see U.S. Department of Energy, Nevada Operations Office.

FFACO, see Federal Facility Agreement and Consent Order.

Federal Facility Agreement and Consent Order of 1996. Prepared by the Nevada Division of Environmental Protection, U.S. Department of Energy, and U.S. Department of Defense.

NAC, see Nevada Administrative Code

NDEP, see Nevada Division of Environmental Protection

Nevada Administrative Code, 1996, NAC 445A.2272, "Contamination of soil: Establishment of action levels." As adopted by the Nevada Environmental Commission, September, Carson City, NV.

Nevada Division of Environmental Protection, 1995, Permit for a Hazardous Waste Management Facility Number NEV HW009, United States Department of Energy, Nevada Operations Office, Nevada Test Site.

U.S. Department of Energy, Nevada Operations Office, 1999a, Corrective Action Decision Document for Corrective Action Unit 240: Area 25 Vehicle Washdown, Nevada Test Site, Nevada, DOE/NV--564, Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office, 1999b, NV/YMP Radiological Control Manual, Revision 3, DOE/NV/11718-079, Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office, 2000, Corrective Action Plan for Corrective Action Unit 240: Area 25 Vehicle Washdown, Nevada Test Site, Nevada, DOE/NV-611, Las Vegas, NV.

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX A

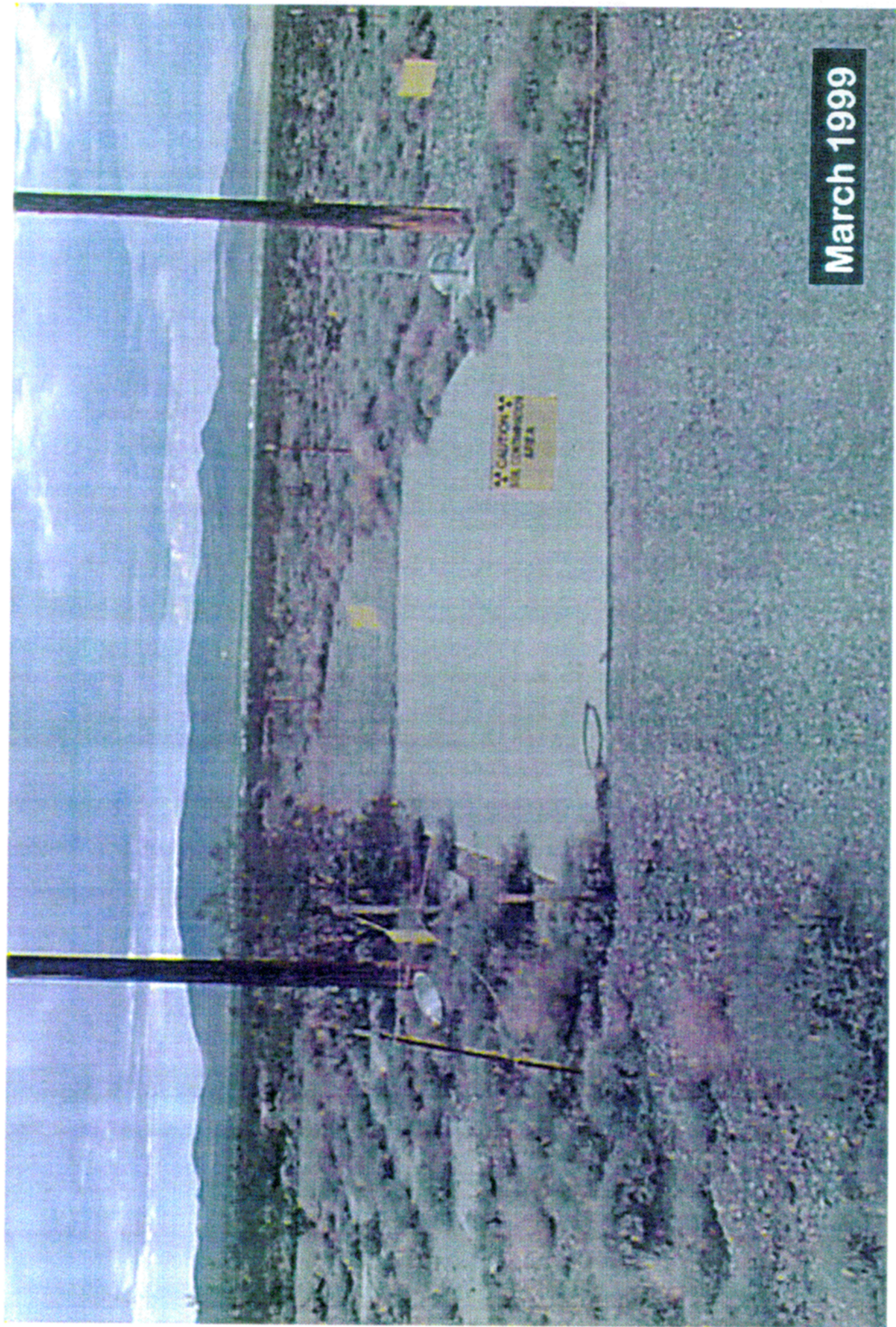
PHOTOGRAPHS OF

PRE- AND POST- CLOSURE SITE CONDITIONS

THIS PAGE INTENTIONALLY LEFT BLANK

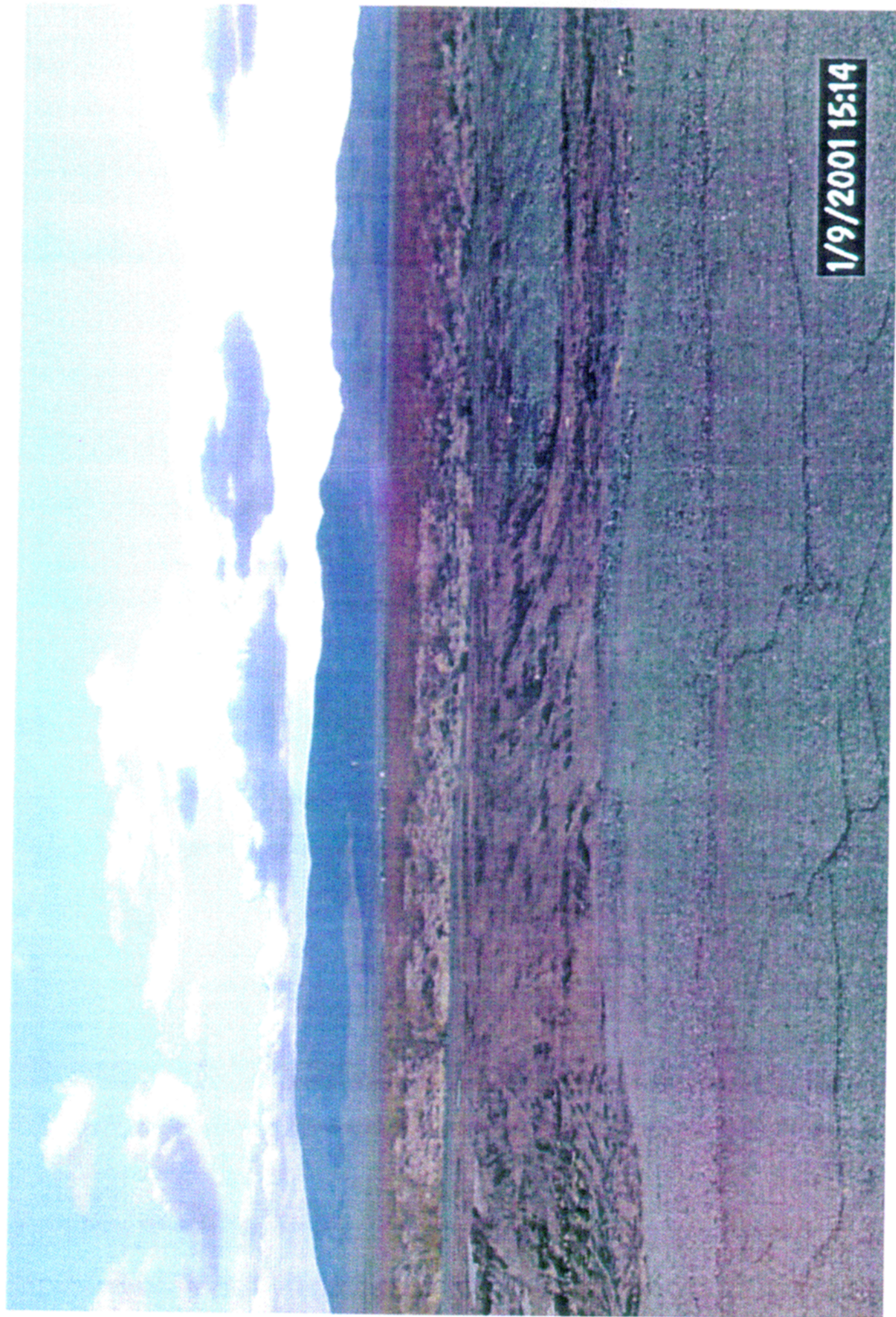
PRE-CLOSURE CONDITIONS

March 1999



POST-CLOSURE CONDITIONS

1/9/2001 15:14



APPENDIX B

WASTE DISPOSITION DOCUMENTATION

THIS PAGE INTENTIONALLY LEFT BLANK

Solid Waste Operations
Solid Waste Received Between 28-AUG-2000 and 30-AUG-2000
Sorted by Landfill ID, Receipt Date

Prepared on 12-DEC-2000

Page 1 of 2

Landfill Id	Date of Receipt	Type of Waste	Weight in Pounds	Origin of Waste Area No. Building No.	
AREA 23	30-AUG-2000	PUTRESCIBLE	1,020	23	CAFE
	Comments:				
	29-AUG-2000	PUTRESCIBLE	12,620	23	CAFE
	Comments:				
	29-AUG-2000	NON-PUTRESCIBLE	960	23	190
	Comments: Paper, wood, cement.				
	29-AUG-2000	PUTRESCIBLE	13,980	23	&CP CAF
	Comments:				
	28-AUG-2000	PUTRESCIBLE	1,000	23	CAFE
	Comments:				
	28-AUG-2000	PUTRESCIBLE	900	23	&CP CAF
	Comments:				
Total for AREA 23			30,480 Pounds 15.24 Tons		
AREA 6	30-AUG-2000	NTS	24,640	22	CAU321
	Comments: Hydrocarbon soil.				
	30-AUG-2000	FFACO-ONSITE	44,000	25	CAU240
	Comments: Hydrocarbon soil, metal, wire, wood, soil, rocks, cement and demolition debris.				
	30-AUG-2000	NTS	27,380	22	CAU321
	Comments: Hydrocarbon soil.				
	30-AUG-2000	FFACO-ONSITE	47,000	25	CAU240
	Comments: Demolition debris, cement, rocks, wood, wire, metal, and hydrocarbon soil.				
	30-AUG-2000	FFACO-ONSITE	43,000	25	CAU240
	Comments: Hydrocarbon soil, metal, wire, wood, rocks, cement and demolition debris.				
Total for AREA 6			186,020 Pounds 93.01 Tons		
AREA 9	30-AUG-2000	NTS	35,000	06	631
	Comments: Demolition debris. Metal, wire, wood, paper, insulation (non asbestos form).				

Solid Waste Operations
Solid Waste Received Between 1-AUG-2000 and 31-AUG-2000
Sorted by Landfill ID, Receipt Date

ad on 7-SEP-2000

Page 5 of 10

Landfill Id	Date of Receipt	Type of Waste	Weight in Pounds	Origin of Waste Area No. Building No.	
AREA 6		cement and concrete. CAU240			
	31-AUG-2000	NTS	58,630	25	CAU240 ✓
	Comments:	Hydrocarbons, metal, wire, wood, soil, rocks, demolition debris, cement and concrete, CAU240.			
	30-AUG-2000	NTS	24,640	22	CAU321 ✓
	Comments:	Hydrocarbon soil.			
	30-AUG-2000	FFACO-ONSITE	44,000	25	CAU240 ✓
	Comments:	Hydrocarbon soil, metal, wire, wood, soil, rocks, cement and demolition debris.			
	30-AUG-2000	FFACO-ONSITE	47,000	25	CAU240 ✓
	Comments:	Demolition debris, cement, rocks, wood, wire, metal, and hydrocarbon soil.			
	30-AUG-2000	NTS	27,380	22	CAU321 ✓
	Comments:	Hydrocarbon soil.			
	30-AUG-2000	FFACO-ONSITE	43,000	25	CAU240 ✓
	Comments:	Hydrocarbon soil, metal, wire, wood, rocks, cement and demolition debris.			
	17-AUG-2000	NTS	64,540	22	CAU321 ✓
	Comments:	Hydrocarbon soil.			
	17-AUG-2000	NTS	65,280	22	CAU321 ✓
	Comments:	Hydrocarbon soil.			
	17-AUG-2000	NTS	67,060	22	CAU321 ✓
	Comments:	Hydrocarbon soil.			
	16-AUG-2000	NTS	43,720	22	CAU321 ✓
	Comments:	Hydrocarbon soil.			
	16-AUG-2000	NTS	59,280	22	CAU321 ✓
	Comments:	Hydrocarbon soil.			
	16-AUG-2000	NTS	15,500	23	UGT ✓
	Comments:	Hydrocarbon soil.			
	16-AUG-2000	NTS	61,320	22	CAU321 ✓
	Comments:	Hydrocarbon soil.			
	16-AUG-2000	NTS	15,500	23	UGT ✓
	Comments:	Hydrocarbon soil.			

Solid Waste Operations
Solid Waste Received Between 1-AUG-2000 and 31-AUG-2000
Sorted by Landfill ID, Receipt Date

Printed on 7-SEP-2000

Page 4 of 10

Landfill Id	Date of Receipt	Type of Waste	Weight in Pounds	Origin of Waste Area No. Building No.		
AREA 23	07-AUG-2000	NON-PUTRESCIBLE	160	24	NLV-B1	✓
	Comments: Paper					
	07-AUG-2000	PUTRESCIBLE	940	23	&CP CAF	✓
	Comments:					
	03-AUG-2000	NON-PUTRESCIBLE	9,520	NTS	ALL	✓
	Comments: Trash.					
	03-AUG-2000	PUTRESCIBLE	1,820	23	&CP CAF	✓
	Comments:					
	02-AUG-2000	NON-PUTRESCIBLE	19,780	NTS	ALL	✓
	Comments:					
02-AUG-2000	PUTRESCIBLE	1,420	23	&CP CAF	✓	
Comments:						
01-AUG-2000	NTS	2,860	23	190 MTL	✓	
Comments: Dirt, concrete, misc. trash.						
01-AUG-2000	PUTRESCIBLE	1,380	23	&CP CAF	✓	
Comments:						
Total for AREA 23			594,725 Pounds 297.36 Tons			
R A 6	31-AUG-2000	NTS	27,080	25	536	✓
	Comments: Hydrocarbon soil.					
	31-AUG-2000	FFACO-ONSITE	65,000	25	CAU240	✓
	Comments: Hydrocarbons, metal, wire, wood, soil, rocks, demolition debris, cement and concrete. cau240					
	31-AUG-2000	NTS	25,260	23	536	✓
	Comments: hydrocarbon soil.					
	31-AUG-2000	FFACO-ONSITE	62,900	25	CAU240	✓
	Comments: Hydrocarbons, metal, wire, wood, soil, rocks, demolition debris, cement and concrete. CAU240					
	31-AUG-2000	FFACO-ONSITE	48,000	25	CAU240	✓
	Comments: Hydrocarbons, metal, wire, wood, soil, rocks, demolition debris, cement and concrete. CAU240					
31-AUG-2000	FFACO-ONSITE	47,500	25	CAU240	✓	
Comments: Hydrocarbons, metal, wire, wood, soil, rocks, demolition debris,						

Solid Waste Operations
Solid Waste Received Between 1-SEP-2000 and 30-SEP-2000
Sorted by Landfill ID, Receipt Date

Prepared on 3-OCT-2000

Page 7 of 10

Landfill Id	Date of Receipt	Type of Waste	Weight in Pounds	Origin of Waste Area No. Building No.
AREA 6	13-SEP-2000	NTS	23,880	22 CAU321
	Comments: Hydrocarbon soil from Weather Station Fuel Storage.			
	07-SEP-2000	FFACO-ONSITE	28,500	22 CAU329
	Comments: Plastic, soil, rubber, empty containers.			
	05-SEP-2000	FFACO-ONSITE	48,500	25 CAU240
	Comments: Hydrocarbon soil, demolition debris.			
{	05-SEP-2000	FFACO-ONSITE	55,000	25 CAU240
	Comments: Hydrocarbon soil, demolition debris.			
	05-SEP-2000	FFACO-ONSITE	51,000	25 CAU240
	Comments: Hydrocarbon soil, demolition debris.			
{	05-SEP-2000	FFACO-ONSITE	58,000	25 CAU240
	Comments: Hydrocarbon soil, demolition debris.			

Total for AREA 6

1,242,525 Pounds
621.26 Tons

AREA 9

27-SEP-2000	NTS	11,350	01	U1A
Comments: Cloth, paper, plastic, wood.				
27-SEP-2000	NTS	27,000	06	WELL3
Comments: Metal, wood.				
27-SEP-2000	NTS	23,000	06	WELL3
Comments: Metal, wood.				
27-SEP-2000	NTS	30,000	06	WELL3
Comments: Metal, wood.				
27-SEP-2000	NTS	16,000	06	WELL3
Comments: Metal, wood.				
21-SEP-2000	NTS	62,000	06	FLT.YD.
Comments: Demolition debris.				
20-SEP-2000	NTS	38,000	23	726
Comments: Metal, wood, insulation (non-asbestosform).				
19-SEP-2000	NTS	36,000	12	VTUNNE
Comments: Construction debris.				

Total for AREA 9

1,174,680 Pounds
587.34 Tons

Solid Waste Operations
Solid Waste Received Between 28-AUG-2000 and 30-AUG-2000
Sorted by Landfill ID, Receipt Date

Prepared on 12-DEC-2000

Page 2 of 2

Landfill Id	Date of Receipt	Type of Waste	Weight in Pounds	Origin of Waste Area No. Building No.	
AREA 9	29-AUG-2000	NTS	39,400	20	EXCESS
	Comments: Non-friable asbestos, light ballasts, plastic, metal, wire, wood, cable, paper, manufactured items furniture, rugs.				
	29-AUG-2000	NTS	19,000	06	643
	Comments: Demolition debris, metal, wire, wood, paper.				
	29-AUG-2000	NTS	107,000	20	EXCESS
	Comments: Wood, insulation (non asbestosform).				
	29-AUG-2000	FFACO-ONSITE	16,000	25	WASHD
	Comments: Metal, wire, wood, soil, rocks, demolition debris, cement.				
	29-AUG-2000	FFACO-ONSITE	46,920	25	WASHD
	Comments: Metal, wire, wood, soil, rocks, demolition debris, cement.				
CAU 240	29-AUG-2000	NTS	19,600	06	643
	Comments: Metal, wire, wood, paper, insulation (non-asbestosform), demolition debris.				
	Total for AREA 9		282,920 Pounds 141.46 Tons		

Solid Waste Operations
Solid Waste Received Between 19-SEP-2000 and 21-SEP-2000
Sorted by Landfill ID, Receipt Date

Prepared on 12-DEC-2000

Page 1 of 2

Landfill Id	Date of Receipt	Type of Waste	Weight in Pounds	Origin of Waste Area No. Building No.	
AREA 23	21-SEP-2000	NON-PUTRESCIBLE	5,000	NTS	ALL
	Comments: Trash.				
	21-SEP-2000	PUTRESCIBLE	700	23	CAFE
	Comments:				
	21-SEP-2000	PUTRESCIBLE	920	23	& CP CA
	Comments:				
	21-SEP-2000	NTS	1,400	23	710
	Comments: Demolition debris.				
	20-SEP-2000	FFACO-ONSITE	6,000	25	<u>CAU240</u>
	Comments: Demolition debris. A25 Vehicle Washdown.				
	20-SEP-2000	NTS	300	23	BLDG?
	Comments: Plastic, wood.				
	20-SEP-2000	NTS	13,000	23	WH3
	Comments: Manufactured items.				
	20-SEP-2000	NON-PUTRESCIBLE	21,500	NTS	ALL
	Comments: Office trash.				
	20-SEP-2000	PUTRESCIBLE	940	23	CAFE
	Comments:				
	20-SEP-2000	NTS	1,800	06	LINEMEN
	Comments: Manufactured items.				
	20-SEP-2000	NTS	20,000	23	TEAM YD.
	Comments: Manufactured items, plastic, metal, wire, wood.				
	20-SEP-2000	NTS	1,900	06	LINEMEN
	Comments: Manufactured items.				
	20-SEP-2000	NTS	10,000	23	TEAM YD.
	Comments: Manufactured items.				
	20-SEP-2000	PUTRESCIBLE	740	23	& CP CAF
	Comments:				
	19-SEP-2000	PUTRESCIBLE	1,460	23	& CP CAF
	Comments:				

Total for AREA 23

85,660 Pounds
42.83 Tons

Solid Waste Operations
Solid Waste Received Between 12-DEC-2000 and 12-DEC-2000
Sorted by Landfill ID, Receipt Date

Prepared on 13-DEC-2000

Page 1 of 1

Landfill Id	Date of Receipt	Type of Waste	Weight in Pounds	Origin of Waste Area No. Building No.	
AREA 23	12-DEC-2000	PUTRESCIBLE	1,080	23	&CP CAF
	Comments:				
	Total for AREA 23		1,080 Pounds 0.54 Tons		
<u>AREA 6</u>	12-DEC-2000	NTS	42,000	25	<u>CAU240</u>
	Comments:	Soil.			
	Total for AREA 6		42,000 Pounds 21 Tons		
AREA 9	12-DEC-2000	NTS	30,000	16	DIPOLE
	Comments:	Metal, cement & concrete.			
	12-DEC-2000	NTS	31,000	16	DIPOLE
	Comments:	Metal, cement & concrete.			
	12-DEC-2000	NTS	25,000	16	DIPOLE
	Comments:	Metal, cement & concrete.			
	Total for AREA 9		86,000 Pounds 43 Tons		

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX C

VERIFICATION SAMPLE ANALYTICAL REPORTS

THIS PAGE INTENTIONALLY LEFT BLANK

Bechtel Nevada

Interoffice Memorandum

To: W. F. Johnson

Date: September 19, 2000

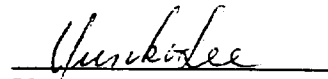
From: Y. K. Lee
Analytical Services Laboratory, 295-7559

No.: 2154-YL-00-0618

Subject: DATA REPORT FOR SAMPLE DELIVERY GROUPS (SDGs) D526, D533
Project No. 04001

Analytical Services Laboratory's (ASL) data results for the gamma spectroscopy analyses of 32 soil samples and one water sample associated with Corrective Action Unit 240 are included with a copy of this memorandum to D. S. Tobiason. Three soil samples were submitted on August 29, 2000, and are reported under SDG D526. The remaining 29 soil samples and one water sample were submitted on September 6, 2000, and are reported under SDG D533. The service statements summarizing the costs and work performed by the Analytical Services Laboratory are also included.

Please direct any questions you may have to your Client Service Representative, Ted Redding, at 295-7220.


Y. K. Lee

YKL:mcr

Subject Code: ENV3

cc: Correspondence Control, NLV008
D. S. Tobiason, (results enc.) NTS306 
D. M. Van Etten, NLV082
ASL SDG D526, (results enc.) NTS273
ASL SDG D533, (results enc.) NTS273

00. 11 00 E 07 45

PACKET ITEM	TASK	PROC DATE	CLIENT	WORK ORDER	SDG	PROG TYPE	ANAL	PRICE	MULT	DISCOUNT	TRN DAYS	TRN	MULT	QC	MULT	INVOICE
H3447 0	R001104	082900	0017	C7F0-14A-A00	D526	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000		
H3447 1	R001104	082900	0017	C7F0-14A-A00	D526	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000		
H3447 2	R001104	082900	0017	C7F0-14A-A00	D526	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000		

PACKET ITEM QUANTITY XPRICE USER BILLING DATE ENTRY DATE/TIME REVIS DATE/TIME BILLING INFORMATION

H3447 0	1	442.00	LNJ		082900/1710	/	HSW-1
H3447 1	1	442.00	LNJ		082900/1710	/	HSW-2
H3447 2	1	442.00	LNJ		082900/1710	/	HSW-3

** Total for this page= \$ 1326.00, Running Total= \$ 15385.00 **

PACKET ITEM	TASK	PROC DATE	CLIENT	WORK ORDER	SDG	PROG TYPE	ANAL	PRICE	MULT	DISCOUNT	TRN DAYS	TRN MULT	QC MULT	INVOICE
H3447 0	R001104	082900	0017	C7D0-63B-A00	D526	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	
H3447 1	R001104	082900	0017	C7D0-63B-A00	D526	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	
H3447 2	R001104	082900	0017	C7D0-63B-A00	D526	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	

PACKET ITEM QUANTITY XPRICE USER BILLING DATE ENTRY DATE/TIME REVIS DATE/TIME BILLING INFORMATION

H3447 0	1	442.00	LNJ		082900/1710	/	HSW-1
H3447 1	1	442.00	LNJ		082900/1710	/	HSW-2
H3447 2	1	442.00	LNJ		082900/1710	/	HSW-3

C7F014AA

** Total for this page= \$ 1326.00, Running Total= \$ 31080.00 **



ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/CLIENT INFORMATION			REPORT INFORMATION			SAMPLE INFORMATION			
Project: CAU 240	BN Org#: 2150	Send Report to: CRAIG LYONS	Phone: 5-0781	Fax: 5-7761	M/S: NTS306	Sampling Site: CAU 240	The samples submitted contain (check): () Hazardous () Radioactive () Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.		
Charge No.: C7FD14AA	ASL Prog:	Turnaround: () Standard - 30 days Non-rad, 60 Days Rad, Other: Rush Preliminary by: 8/30/00 Final by:	Final report format: ☒ Standard () NTS-WAC () Other:			SAMPLE RECEIPT INFORMATION Are all sample containers received intact ☒ Yes () No Comments:			
Project Manager: WAYNE JOHNSON	M/S: NTS306	Final report format: ☒ Standard () NTS-WAC () Other:			Do the labels agree with this form? ☒ Yes () No Comments:				
Phone: 5-0573	Fax: 5-7761	Final report format: ☒ Standard () NTS-WAC () Other:			Was a Material Clearance Tag submitted? ☒ Yes () No Comments:				
Rad SGD: D526	Non-Rad SDG:	ANALYSES & METHOD			COMMENTS (Preservative, size/volume, MSMSD, special analysis, rad matrix code, count time, etc.)				
Rad Packet: H3447	Non-Rad Packet:	LAB USE ONLY			500 ml Nalgene 605g				
Client Services Representative:			Gammacorp			500 ml Nalgene 587g			
Will these analyses be performed under a signed SOW? () YES () NO			Date:			500 ml Nalgene 629g			
If so, do analyses entered here agree with the SOW? () YES () NO () N/A									
If not, identify the variation									
CSR initials indicating review and approval:									
Transfer of samples submitted for analyses									
Sampled/Relinquished (Signature/Organization)			DATE / TIME			Received (Courier & Tracking Info.)			
D. J. I. L. B. N. E. R.			8/29/00			Received (1st tier Subcontractor Rep)			
D. J. I. L. B. N. E. R.			8/29/00			Received (2nd tier Subcontractor Rep)			

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Report Date: 12-SEP-00
Sample Delivery Group: D526
Batch: N955
Program: 720

Analysis: Gamma Spec.-20 Minute Scan

Sample ***** Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
HSW-1	CS137	2.19E+00	3.8E-01		7.5E-02	pCi/g	08-29-00	08-28-00	6.05E+02	gm			05-01	H3447-0-75596
HSW-1	K 40	2.94E+01	5.3E+00		1.2E+00	pCi/g	08-29-00	08-28-00	6.05E+02	gm			05-01	H3447-0-75596
HSW-1	RA226	1.23E+00	3.2E-01		1.9E-01	pCi/g	08-29-00	08-28-00	6.05E+02	gm			05-01	H3447-0-75596
HSW-1	TH228	2.14E+00	4.0E-01		1.3E-01	pCi/g	08-29-00	08-28-00	6.05E+02	gm			05-01	H3447-0-75596
HSW-1	TH232	1.96E+00	6.8E-01		3.9E-01	pCi/g	08-29-00	08-28-00	6.05E+02	gm			05-01	H3447-0-75596
HSW-2	CS137	2.02E+01	2.1E+00		7.6E-02	pCi/g	08-29-00	08-28-00	5.87E+02	gm			05-01	H3447-1-75600
HSW-2	K 40	2.70E+01	5.0E+00		1.2E+00	pCi/g	08-29-00	08-28-00	5.87E+02	gm			05-01	H3447-1-75600
HSW-2	RA226	1.17E+00	3.9E-01		1.9E-01	pCi/g	08-29-00	08-28-00	5.87E+02	gm			05-01	H3447-1-75600
HSW-2	TH228	2.02E+00	4.8E-01		1.3E-01	pCi/g	08-29-00	08-28-00	5.87E+02	gm			05-01	H3447-1-75600
HSW-2	TH232	2.26E+00	7.3E-01		3.9E-01	pCi/g	08-29-00	08-28-00	5.87E+02	gm			05-01	H3447-1-75600

Data generated from analyses of CAU 240 samples submitted to the laboratory on 8/29/00.

Date: 9/12/02

Date: 9/14/00

E = Estimated Quantity

E = Estimated Quantity
H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY

P.O.Box 3936, N. Las Vegas, NV 89036

Page 2

Reported to: Env. Restoration - Ind. Sites

P.O. Box 98521

M/S NTS306

Las Vegas ,NV, 89193-8521

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 12-SEP-00

Sample Delivery Group: D526

Batch: N955

Program: 720

Report No. :

Sample Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
HSW-3	CS137	3.95E+01	3.7E+00		7.4E-02	pCi/g	08-29-00	08-28-00	6.29E+02	gm			05-01	H3447-2-75601
HSW-3	K 40	1.86E+01	3.9E+00		1.1E+00	pCi/g	08-29-00	08-28-00	6.29E+02	gm			05-01	H3447-2-75601
HSW-3	RA226	1.09E+00	3.9E-01		1.9E-01	pCi/g	08-29-00	08-28-00	6.29E+02	gm			05-01	H3447-2-75601
HSW-3	TH228	2.01E+00	6.2E-01		1.0E-01	pCi/g	08-29-00	08-28-00	6.29E+02	gm			05-01	H3447-2-75601
HSW-3	TH232	1.10E+00	4.9E-01		3.8E-01	pCi/g	08-29-00	08-28-00	6.29E+02	gm			05-01	H3447-2-75601
QA BKG Empty Btl U05	No Nucl Det	0.00E+00	0.0E+00	U	0.0E+00	NA	08-29-00	01-19-00	1.00E+00	gm			05-01	Q0857-0-00450
QA BKG Empty Btl U05	CS137	0.00E+00	0.0E+00	U	3.6E-01	pCi/g	08-29-00	01-19-00	1.00E+00	gm			05-01	Q0857-0-00450
QA SP-NAS-A9987	AM241	1.54E+01	2.1E+00		2.2E-01	pCi/g	08-29-00	03-01-99	8.35E+02	gm		89.2	05-01	Q0858-4-14080
QA SP-NAS-A9987	C060	2.49E+01	2.7E+00		8.8E-02	pCi/g	08-29-00	03-01-99	8.35E+02	gm		99.6	05-01	Q0858-4-14080
QA SP-NAS-A9987	CS137	1.94E+01	2.0E+00		7.6E-02	pCi/g	08-29-00	03-01-99	8.35E+02	gm		100.0	05-01	Q0858-4-14080

Comment:

Data generated from analyses of
CAU 240 samples submitted to the
laboratory on 8/29/00.

Prepared by:  Date: 9/12/00

Approved by:  Date: 9/14/00

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

***** End of Report *****

(COA)

PACKET ITEM	TASK	PROC DATE	CLIENT	WORK ORDER	SDG	PROG TYPE	ANAL	PRICE	MULT	DISCOUNT	TRN DAYS	TRN MULT	QC	MULT	INVOICE
H3458 F	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	
H3457 0	R005004	090700	0017	C7F0-14A-A00	D533	720	50 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	
H3458 G	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	
H3458 H	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	
H3458 I	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	
H3458 J	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	
H3458 K	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	
H3458 L	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	
H3458 M	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	
H3458 N	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	
H3458 O	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	
H3458 P	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	
H3458 Q	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	
H3458 R	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60	1.0000	1.0000	1.0000	

PACKET ITEM QUANTITY XPRICE USER BILLING DATE ENTRY DATE/TIME REVIS DATE/TIME BILLING INFORMATION

H3458 F	1	442.00	LNJ		090700/0910	/	FJS-BOT1
H3457 0	1	442.00	LNJ		090700/0910	/	FJ-EB1
H3458 G	1	442.00	LNJ		090700/0910	/	FJS-BOT2
H3458 H	1	442.00	LNJ		090700/0910	/	FJS-BOT3
H3458 I	1	442.00	LNJ		090700/0910	/	FJS-BOT4
H3458 J	1	442.00	LNJ		090700/0910	/	FJ-PAD1
H3458 K	1	442.00	LNJ		090700/0910	/	FJ-PAD2
H3458 L	1	442.00	LNJ		090700/0910	/	FJ-PAD3
H3458 M	1	442.00	LNJ		090700/0910	/	FJ-SW1
H3458 N	1	442.00	LNJ		090700/0910	/	FJ-SW2
H3458 O	1	442.00	LNJ		090700/0910	/	FJ-SW3
H3458 P	1	442.00	LNJ		090700/0910	/	FJ-SW4
H3458 Q	1	442.00	LNJ		090700/0910	/	FJ-SW5
H3458 R	1	442.00	LNJ		090700/0910	/	FJ-SW6

PACKET ITEM	TASK	PROC DATE	CLIENT	WORK ORDER	SDG	PROG TYPE	ANAL	PRICE	MULT	DISCOUNT	TRN DAYS	TRN MULT	QC MULT	INVOICE
H3458 S	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000
H3458 0	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000
H3458 6	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000
H3458 C	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000
H3458 1	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000
H3458 7	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000
H3458 D	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000
H3458 2	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000
H3458 8	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000
H3458 E	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000
H3458 9	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000
H3458 A	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000
H3458 B	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000
H3458 4	R001104	090700	0017	C7F0-14A-A00	D533	720	11	04	442.00	1.0000	1.0000	60	1.0000	1.0000

PACKET ITEM QUANTITY XPRICE USER BILLING DATE ENTRY DATE/TIME REVIS DATE/TIME BILLING INFORMATION

H3458 S	1	442.00	LNJ		090700/0910	/	FJ-SW7
H3458 0	1	442.00	LNJ		090700/1623	/	FJE-BOT1
H3458 6	1	442.00	LNJ		090700/1623	/	FJW-BOT1
H3458 C	1	442.00	LNJ		090700/1623	/	FJN-BOT1
H3458 1	1	442.00	LNJ		090700/1623	/	FJE-BOT2
H3458 7	1	442.00	LNJ		090700/1623	/	FJW-BOT2
H3458 D	1	442.00	LNJ		090700/1623	/	FJN-BOT2
H3458 2	1	442.00	LNJ		090700/1623	/	FJE-BOT3
H3458 8	1	442.00	LNJ		090700/1623	/	FJW-BOT3
H3458 E	1	442.00	LNJ		090700/1623	/	FJN-BOT3
H3458 9	1	442.00	LNJ		090700/1623	/	FJW-BOT4
H3458 A	1	442.00	LNJ		090700/1623	/	FJW-BOT5
H3458 B	1	442.00	LNJ		090700/1623	/	FJW-BOT6
H3458 4	1	442.00	LNJ		090700/1623	/	FJE-BOT5

PACKET ITEM	TASK	PROC DATE	CLIENT	WORK ORDER	SDG	PROG TYPE	ANAL	PRICE	MULT	DISCOUNT	TRN DAYS	TRN	MULT	QC	MULT	INVOICE
H3458 5	R001104	090700	0017	C7F0-14A-A00	D533	720	11 04	442.00	1 0000	1.0000	60		1.0000		1.0000	
H3458 3	R001104	091100	0017	C7F0-14A-A00	D533	720	11 04	442.00	1.0000	1.0000	60		1.0000		1.0000	

PACKET ITEM QUANTITY XPRICE USER BILLING DATE ENTRY DATE/TIME REVIS DATE/TIME BILLING INFORMATION

H3458 5	1	442.00	LNJ		090700/1623	/	FJE-BOT6
H3458 3	1	442.00	LNJ		091100/1633	/	FJE-BOT4

** Total for this page= \$ 884.00, Running Total= \$ 44340.00 **

DINOS Validation Check

Username	REDDINTJ
Fiscal Year	2000
Current Date	9/19/2000
Last P&B Update	9/18/2000 18:20

Job Number.....[C7F014AA]
Account Number..[]
Orgn Number.....[2152]
ISO Number.....[]
Location.....[]

Error Code:
Error Message:

Field combination entered is valid.

<RETURN>or<DOWN-ARROW>-Next Field <BACKSPACE>or<F12>or<UP-ARROW>-Previous Field
<TAB>-Perform Validation Check <CTRL-R>-Redraw Screen <PF2>-Help <PF4>-Exit

Please press <RETURN> to continue...

PROJECT/CLIENT INFORMATION				REPORT INFORMATION				SAMPLE INFORMATION			
Project: CHA 250		BN Org#: 250		Send Report to: DAN TULLY		M/S: 250		Sampling Site: CHA 250			
Charge No.: 250		ASL Prog.: 250		Phone: 5-2261		Fax: 5-2261		The samples submitted contain (check): () Hazardous () Radioactive () Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			
Project Manager: JAMES J. TULLY				Turnaround: () Standard - 30 days Non-rad, 60 Days Rad, Other: Rush Preliminary by: 2/2/00 Final by: 2/2/00							
Phone: 5-2261		M/S: 250		Final report format: (X) Standard () NTS-WAC () Other: 250							
LAB USE ONLY				ANALYSES & METHOD							
Rad SGD: 0533		Non-Rad SGD: V889									
Rad Packet: H3457-0344		Non-Rad Packet: W1933									
Client Services Representative:											
Will these analyses be performed under a signed SOW? () YES () NO											
If so, do analyses entered here agree with the SOW? () YES () NO () N/A											
If not, identify the variation _____											
CSR initials indicating review and approval: _____ Date: _____											
ID / DESCRIPTION		SAMPLING DATE		TIME		MATRIX					
0 FJ-EB1		1/11/00		10:15		WATER		X			
1 FJR-BOT1		1/11/00		10:15		SOIL		X			
2 FJE-BOT2		1/11/00		10:15				X			
3 FJE-BOT3		1/11/00		10:15				X			
4 FJE-BOT4		1/11/00		10:15				X			
5 FJE-BOT5		1/11/00		10:15				X			
6 FJE-BOT6		1/11/00		10:15				X			
7 FJW-BOT1		1/11/00		10:15				X			
8 FJW-BOT2		1/11/00		10:15				X			
9 FJW-BOT3		1/11/00		10:15				X			
Transfer of samples submitted for analyses								Complete for samples shipped to an OFF-SITE Subcontract Laboratory			
Sampled/Relinquished (Signature/Organization)		DATE / TIME		Received by (Signature/Organization)		DATE / TIME		Received (Courier & Tracking Info.)			
David S. R. B. B. B.		1/11/00		1/11/00		1/11/00		BAI 11112122			
								Received (1st tier Subcontractor Rep)			
								Received (2nd tier Subcontractor Rep)			

ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT / CLIENT INFORMATION						REPORT INFORMATION									
Project:		CALIAHVO	BN Orig#:		21SV	Send Report to:		DAN TEALAHSON							
Charge No.:		CZF0194HA	ASL Prog#:			Phone:		S-6107	Fax:	S-7761	M/S:	NYSJOG			
Project Manager:		LORRYNIE JOHANSON				Turnaround:		() Standard - 30 days Non-rad, 60 Days Rad, Other: Rush Preliminary by: SJJ/JLB	Final by:						
Phone:		S-0573	Fax:		S-7761	M/S:		U.S.A.	Final report format:		(X) Standard () NTS-WAC () Other:				
LAB USE ONLY						ANALYSES & METHOD									
Rad SGD:		N533	Non-Rad SDG:		V889										
Rad Packet:		H3458	Non-Rad Packet:		O1933										
Client Services Representative:															
Will these analyses be performed under a signed SOW? () YES () NO If so, do analyses entered here agree with the SOW? () YES () NO () N/A If not, identify the variation _____ CSR initials indicating review and approval: _____ Date: _____															
ID #	DESCRIPTION	SAMPLING DATE	TIME	MATRIX											
0	FIS-BOT 4	11/10/00	1030	EOL	X										
1	FIS-BOT 5	11/10/00	1035		X										
2	FIS-BOT 6	11/10/00	1055		X										
3	FIS-BOT 7	11/10/00	1100		X										
4	FIS-BOT 2	11/10/00	1100		X										
5	FIS-BOT 3	11/10/00	1100		X										
6	FIS-BOT 3 MIS/HLS	11/10/00	1120		X										
7	FIS-BOT 1	11/10/00	1120		X										
8	FIS-BOT 2	11/10/00	1120		X										
9	FIS-BOT 3	11/10/00	1120		X										
Transfer of samples submitted for analyses						Complete for samples shipped to an OFF-SITE Subcontract Laboratory									
Sampled/Relinquished (Signature/Organization)		DATE / TIME		Received by (Signature/Organization)		Reinquired (BN Representative Signature)		DATE / TIME							
V.L.P.O. Cores		11/10/00		D.J. Johnson		(S) Johnson		11/10/00							
						Relinquished (Courier & Tracking Info.)		DATE / TIME							
						Relinquished (1st tier Subcontractor Rep)		DATE / TIME							
						Relinquished (2nd tier Subcontractor Rep)		DATE / TIME							

PROJECT/CLIENT INFORMATION				REPORT INFORMATION				SAMPLE INFORMATION			
Project: <u>CAH 290</u>		BN Orig#: <u>2150</u>		Send Report to: <u>DAN TOLINSON</u>		Sampling Site: <u>CAH 290</u>		The samples submitted contain (check): () Hazardous () Radioactive (X) Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			
Charge No.: <u>07F0114</u>		ASL Prog.: <u>07F0114</u>		Phone: <u>5-6167</u> Fax: <u>5-7761</u> M/S: <u>NTS 306</u>							
Project Manager: <u>LAHYNES TOLINSON</u>				Turnaround: () Standard - 30 days Non-rad, 60 Days Rad, Other: <u>Final by: 11/1/00</u>				SAMPLE RECEIPT INFORMATION Are all sample containers received intact? (X) Yes () No Comments: _____ Do the labels agree with this form? (X) Yes () No Comments: _____ Was a Material Clearance Tag submitted? (X) Yes () No Comments: _____			
Final report format: (X) Standard () NTS-WAC () Other: _____ Final report format: <u>NTS-WAC</u>											
LAB USE ONLY				ANALYSES & METHOD				COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)			
Rad SGD: <u>D533</u> Non-Rad SGD: <u>V889</u> Rad Packet: <u>H3458</u> Non-Rad Packet: <u>W1933</u> Client Services Representative: _____											
Will these analyses be performed under a signed SOW? () YES () NO If so, do analyses entered here agree with the SOW? () YES () NO () N/A If not, identify the variation _____ CSR initials indicating review and approval: _____ Date: _____				Complete for samples shipped to an OFF-SITE Subcontract Laboratory Relinquished (BN Representative Signature) _____ Relinquished (Courier & Tracking Info.) _____ Relinquished (1st tier Subcontractor Rep) _____ Relinquished (2nd tier Subcontractor Rep) _____							
ID / DESCRIPTION		SAMPLING DATE / TIME		MATRIX		DATE / TIME		Received by (Signature/Organization)		Received (Courier & Tracking Info.)	
0 FTS-BOT4		7/1/00 11:20		SOIL		7/1/00 11:20		[Signature]		8/1/00 11:22	
1 FT-PAD1		7/1/00 11:35		SOIL		7/1/00 11:35		[Signature]		8/1/00 11:22	
2 FS-PAD2		7/1/00 11:35		SOIL		7/1/00 11:35		[Signature]		8/1/00 11:22	
3 FS-PAD3		7/1/00 11:35		SOIL		7/1/00 11:35		[Signature]		8/1/00 11:22	
4 FT-SW1		7/1/00 11:35		SOIL		7/1/00 11:35		[Signature]		8/1/00 11:22	
5 FT-SW2		7/1/00 11:35		SOIL		7/1/00 11:35		[Signature]		8/1/00 11:22	
6 FT-SW3		7/1/00 11:35		SOIL		7/1/00 11:35		[Signature]		8/1/00 11:22	
7 FS-SW4		7/1/00 11:35		SOIL		7/1/00 11:35		[Signature]		8/1/00 11:22	
8 FT-SW5		7/1/00 11:35		SOIL		7/1/00 11:35		[Signature]		8/1/00 11:22	
9 FS-SW6		7/1/00 11:35		SOIL		7/1/00 11:35		[Signature]		8/1/00 11:22	

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NTS306
Las Vegas, NV, 89193-8521

Type: Water

Report Date: 14-SEP-00
Sample Delivery Group: D533
Batch: N961
Program: 720

Analysis: Gamma Spec.-20 Minute Scan

Report No. :

Sample Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
FJ-EB1	No peaks	0.00E+00	0.0E+00		0.0E+00	NA	09-06-00	09-06-00	4.83E+02	ml			07-01	H3457-0-75365
FJ-EB1	U 238	0.00E+00	0.0E+00	U	1.3E+04	pCi/L	09-06-00	09-06-00	4.83E+02	ml			07-01	H3457-0-75365
FJ-EB1	AM241	0.00E+00	0.0E+00	U	5.7E+02	pCi/L	09-06-00	09-06-00	4.83E+02	ml			07-01	H3457-0-75365
FJ-EB1	CS137	0.00E+00	0.0E+00	U	9.1E+01	pCi/L	09-06-00	09-06-00	4.83E+02	ml			07-01	H3457-0-75365
QA BKGWater U07	No Nucl Det	0.00E+00	0.0E+00	U	0.0E+00	NA	09-06-00	01-19-00	5.00E+02	ml			07-01	Q0848-3-00455
QA BKGWater U07	CO60	0.00E+00	0.0E+00	U	7.0E+01	pCi/L	09-06-00	01-19-00	5.00E+02	ml			07-01	Q0848-3-00455
QA BKGWater U07	AM241	0.00E+00	0.0E+00	U	5.8E+02	pCi/L	09-06-00	01-19-00	5.00E+02	ml			07-01	Q0848-3-00455
QA BKGWater U07	CS137	0.00E+00	0.0E+00	U	9.6E+01	pCi/L	09-06-00	01-19-00	5.00E+02	ml			07-01	Q0848-3-00455
QA SP:QAW-7	AM241	2.84E+05	2.5E+04		2.6E+03	pCi/L	09-06-00	08-01-90	2.25E+02	ml		91.3	07-01	Q0849-2-14147
QA SP:QAW-7	CO60	2.84E+05	2.6E+04		1.3E+03	pCi/L	09-06-00	08-01-90	2.25E+02	ml		88.4	07-01	Q0849-2-14147

Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:

Date:

9/14/00

Approved by:

Date:

9/14/00

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O. Box 3936, N. Las Vegas, NV 89036

Page 2

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NTS306
Las Vegas ,NV,89193-8521

Type: Inst QC Spike: Water

Report Date: 14-SEP-00
Sample Delivery Group: D533
Batch: N961
Program: 529

Report No. :

Sample Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
QA SP:QAW-7	CS137	2.34E+05	1.9E+04		5.5E+02	pCi/L	09-06-00	08-01-90	2.25E+02	ml		84.8	07-01	Q0849-2-14147

Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:



Date:

9/14/00

Approved by:



Date:

9/14/00

Qualification Flags:

E = Estimated Quantity
H = High Recovery for Sample
J = Result is less than the RDL
L = Low Recovery for Sample
P = Preliminary Results
Q = Bad Instrument Quality Control, Result is OK
R = Results are Unusable, Resampling is Necessary
U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

(COA)

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NTS306
Las Vegas, NV, 89193-8521

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 12-SEP-00
Sample Delivery Group: D533
Batch: N962
Program: 720

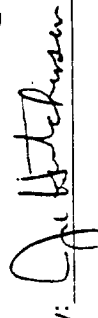
Report No. :

Sample Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
FJ-PAD1	K 40	3.49E+01	5.2E+00		8.0E-01	pCi/g	09-06-00	09-06-00	7.62E+02	gm		06-01	H3458-J-75624
FJ-PAD1	RA226	1.16E+00	2.8E-01		1.9E-01	pCi/g	09-06-00	09-06-00	7.62E+02	gm		06-01	H3458-J-75624
FJ-PAD1	TH228	2.54E+00	4.3E-01		1.8E-01	pCi/g	09-06-00	09-06-00	7.62E+02	gm		06-01	H3458-J-75624
FJ-PAD1	CS137	0.00E+00	0.0E+00	U	7.4E-02	pCi/g	09-06-00	09-06-00	7.62E+02	gm		06-01	H3458-J-75624
FJ-PAD2	K 40	3.28E+01	5.0E+00		8.0E-01	pCi/g	09-06-00	09-06-00	7.71E+02	gm		06-01	H3458-K-75625
FJ-PAD2	RA226	9.14E-01	2.5E-01		1.9E-01	pCi/g	09-06-00	09-06-00	7.71E+02	gm		06-01	H3458-K-75625
FJ-PAD2	TH228	2.24E+00	3.9E-01		1.8E-01	pCi/g	09-06-00	09-06-00	7.71E+02	gm		06-01	H3458-K-75625
FJ-PAD2	TH232	2.22E+00	5.8E-01		3.1E-01	pCi/g	09-06-00	09-06-00	7.71E+02	gm		06-01	H3458-K-75625
FJ-PAD2	CS137	0.00E+00	0.0E+00	U	7.4E-02	pCi/g	09-06-00	09-06-00	7.71E+02	gm		06-01	H3458-K-75625
FJ-PAD3	K 40	3.35E+01	5.0E+00		7.5E-01	pCi/g	09-06-00	09-06-00	8.14E+02	gm		06-01	H3458-L-75626

Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:  Date: 9/17/00

Approved by:  Date: 9/14/00

Qualification Flags:

E = Estimated Quantity
H = High Recovery for Sample
J = Result is less than the RDL
L = Low Recovery for Sample
P = Preliminary Results
Q = Bad Instrument Quality Control, Result is OK
R = Results are Unusable, Resampling is Necessary
U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Page 4

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NTS306
Las Vegas, NV, 89193-8521

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 12-SEP-00
Sample Delivery Group: D533
Batch: N962
Program: 720

Report No. :

Sample Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
FJ-PAD3	RA226	7.35E-01	1.9E-01		1.1E-01	pCi/g	09-06-00	09-06-00	8.14E+02	gm			06-01	H3458-L-75626
FJ-PAD3	TH228	2.45E+00	4.2E-01		1.8E-01	pCi/g	09-06-00	09-06-00	8.14E+02	gm			06-01	H3458-L-75626
FJ-PAD3	TH232	2.47E+00	6.2E-01		3.1E-01	pCi/g	09-06-00	09-06-00	8.14E+02	gm			06-01	H3458-L-75626
FJ-PAD3	CS137	0.00E+00	0.0E+00	U	7.4E-02	pCi/g	09-06-00	09-06-00	8.14E+02	gm			06-01	H3458-L-75626
FJ-SW1	K 40	3.06E+01	4.8E+00		7.7E-01	pCi/g	09-06-00	09-06-00	6.53E+02	gm			06-01	H3458-M-75627
FJ-SW1	TH228	2.27E+00	4.0E-01		1.5E-01	pCi/g	09-06-00	09-06-00	6.53E+02	gm			06-01	H3458-M-75627
FJ-SW1	U 238	3.79E+00	1.5E+00		1.2E+00	pCi/g	09-06-00	09-06-00	6.53E+02	gm			06-01	H3458-M-75627
FJ-SW1	CS137	0.00E+00	0.0E+00	U	7.5E-02	pCi/g	09-06-00	09-06-00	6.53E+02	gm			06-01	H3458-M-75627
FJ-SW2	K 40	3.09E+01	4.8E+00		7.8E-01	pCi/g	09-06-00	09-06-00	6.18E+02	gm			06-01	H3458-N-75628
FJ-SW2	RA226	5.14E-03	1.4E-03		9.1E-04	pCi/g	09-06-00	09-06-00	6.18E+02	gm			06-01	H3458-N-75628

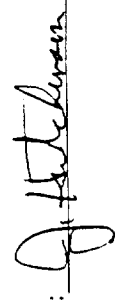
Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:

 Date: 9/14/00

Approved by:

 Date: 9/14/00

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

(COA)

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NTS306
Las Vegas ,NV,89193-8521

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 12-SEP-00
Sample Delivery Group: D533
Batch: N962
Program: 720

Report No. :

Sample Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
FJ-SW2	TH228	2.32E+00	4.0E-01		1.8E-01	pCi/g	09-06-00	09-06-00	6.18E+02	gm			06-01	H3458-N-75628
FJ-SW2	CS137	0.00E+00	0.0E+00	U	7.6E-02	pCi/g	09-06-00	09-06-00	6.18E+02	gm			06-01	H3458-N-75628
FJ-SW3	K 40	3.00E+01	4.7E+00		7.6E-01	pCi/g	09-06-00	09-06-00	7.43E+02	gm			06-01	H3458-O-75629
FJ-SW3	RA226	2.02E+00	5.2E-01		3.9E-01	pCi/g	09-06-00	09-06-00	7.43E+02	gm			06-01	H3458-O-75629
FJ-SW3	TH228	2.25E+00	4.0E-01		1.8E-01	pCi/g	09-06-00	09-06-00	7.43E+02	gm			06-01	H3458-O-75629
FJ-SW3	CS137	0.00E+00	0.0E+00	U	7.4E-02	pCi/g	09-06-00	09-06-00	7.43E+02	gm			06-01	H3458-O-75629
FJ-SW4	K 40	3.30E+01	5.0E+00		7.6E-01	pCi/g	09-06-00	09-06-00	7.46E+02	gm			06-01	H3458-P-75630
FJ-SW4	TH228	2.17E+00	3.9E-01		1.8E-01	pCi/g	09-06-00	09-06-00	7.46E+02	gm			06-01	H3458-P-75630
FJ-SW4	CS137	0.00E+00	0.0E+00	U	7.4E-02	pCi/g	09-06-00	09-06-00	7.46E+02	gm			06-01	H3458-P-75630
FJ-SW5	K 40	3.03E+01	4.7E+00		7.7E-01	pCi/g	09-06-00	09-06-00	6.60E+02	gm			06-01	H3458-Q-75631

Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:

 Date: 9/12/00

Approved by:

 Date: 9/14/00

Qualification Flags:

E = Estimated Quantity
H = High Recovery for Sample
J = Result is less than the RDL
L = Low Recovery for Sample
P = Preliminary Results
Q = Bad Instrument Quality Control, Result is OK
R = Results are Unusable, Resampling is Necessary
U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY

P.O.Box 3936, N. Las Vegas, NV 89036

Page 6

Reported to: Env. Restoration - Ind. Sites

P.O. Box 98521

M/S NTS306

Las Vegas , NV, 89193-8521

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 12-SEP-00

Sample Delivery Group: D533

Batch: N962

Program: 720

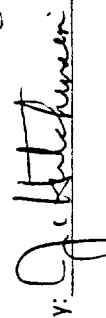
Report No. :

Sample Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
FJ-SW5	RA226	1.76E-02	4.2E-03		2.5E-03	pCi/g	09-06-00	09-06-00	6.60E+02	gm			06-01	H3458-Q-75631
FJ-SW5	TH228	2.69E+00	4.4E-01		1.5E-01	pCi/g	09-06-00	09-06-00	6.60E+02	gm			06-01	H3458-Q-75631
FJ-SW5	CS137	0.00E+00	0.0E+00	U	7.5E-02	pCi/g	09-06-00	09-06-00	6.60E+02	gm			06-01	H3458-Q-75631
FJ-SW6	K 40	3.33E+01	5.0E+00		7.6E-01	pCi/g	09-06-00	09-06-00	7.23E+02	gm			06-01	H3458-R-75632
FJ-SW6	TH228	2.43E+00	4.2E-01		1.8E-01	pCi/g	09-06-00	09-06-00	7.23E+02	gm			06-01	H3458-R-75632
FJ-SW6	U 238	4.38E+00	1.7E+00		1.5E+00	pCi/g	09-06-00	09-06-00	7.23E+02	gm			06-01	H3458-R-75632
FJ-SW6	CS137	0.00E+00	0.0E+00	U	7.4E-02	pCi/g	09-06-00	09-06-00	7.23E+02	gm			06-01	H3458-R-75632
FJ-SW7	K 40	3.23E+01	5.0E+00		7.8E-01	pCi/g	09-06-00	09-06-00	6.37E+02	gm			06-01	H3458-S-75633
FJ-SW7	TH228	2.45E+00	4.1E-01		1.8E-01	pCi/g	09-06-00	09-06-00	6.37E+02	gm			06-01	H3458-S-75633
FJ-SW7	CS137	0.00E+00	0.0E+00	U	7.5E-02	pCi/g	09-06-00	09-06-00	6.37E+02	gm			06-01	H3458-S-75633

Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:  Date: 9/12/00

Approved by:  Date: 9/14/00

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

(COA)

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Page 7

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NTS306
Las Vegas , NV, 89193-8521

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 12-SEP-00
Sample Delivery Group: D533
Batch: N962
Program: 720

Report No. :

Sample ***** Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet Item Sample
FJE-BOT1	CS137	1.61E+00	3.1E-01		8.5E-02	pCi/g	09-07-00	09-06-00	6.46E+02	gm			05-01	H3458-0-75605
FJE-BOT1	K 40	2.83E+01	5.2E+00		1.0E+00	pCi/g	09-07-00	09-06-00	6.46E+02	gm			05-01	H3458-0-75605
FJE-BOT1	TH228	2.50E+00	4.5E-01		1.3E-01	pCi/g	09-07-00	09-06-00	6.46E+02	gm			05-01	H3458-0-75605
FJE-BOT1	TH232	2.85E+00	8.1E-01		4.2E-01	pCi/g	09-07-00	09-06-00	6.46E+02	gm			05-01	H3458-0-75605
FJE-BOT2	K 40	3.32E+01	5.8E+00		1.0E+00	pCi/g	09-07-00	09-06-00	6.64E+02	gm			05-01	H3458-1-75606
FJE-BOT2	TH228	2.70E+00	4.6E-01		1.3E-01	pCi/g	09-07-00	09-06-00	6.64E+02	gm			05-01	H3458-1-75606
FJE-BOT2	TH232	3.27E+00	8.7E-01		4.1E-01	pCi/g	09-07-00	09-06-00	6.64E+02	gm			05-01	H3458-1-75606
FJE-BOT2	CS137	0.00E+00	0.0E+00	U	7.3E-02	pCi/g	09-07-00	09-06-00	6.64E+02	gm			05-01	H3458-1-75606
FJE-BOT3	K 40	3.54E+01	6.0E+00		1.0E+00	pCi/g	09-07-00	09-06-00	8.18E+02	gm			05-01	H3458-2-75607
FJE-BOT3	TH228	2.13E+00	4.0E-01		1.3E-01	pCi/g	09-07-00	09-06-00	8.18E+02	gm			05-01	H3458-2-75607

Comment:

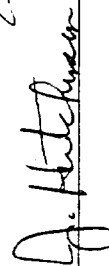
Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:



Date: 9/12/00

Approved by:



Date: 9/14/00

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

(COA)

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Page 8

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NTS306
Las Vegas ,NV,89193-8521

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 12-SEP-00
Sample Delivery Group: D533
Batch: N962
Program: 720

Report No. :

Sample Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
FJE-BOT3	TH232	2.29E+00	6.8E-01		3.8E-01	pCi/g	09-07-00	09-06-00	8.18E+02	gm			05-01	H3458-2-75607
FJE-BOT3	CS137	0.00E+00	0.0E+00	U	7.2E-02	pCi/g	09-07-00	09-06-00	8.18E+02	gm			05-01	H3458-2-75607
FJE-BOT4	K 40	3.27E+01	5.7E+00		1.0E+00	pCi/g	09-07-00	09-06-00	8.35E+02	gm			05-01	H3458-3-75608
FJE-BOT4	RA226	1.56E+00	3.7E-01		2.0E-01	pCi/g	09-07-00	09-06-00	8.35E+02	gm			05-01	H3458-3-75608
FJE-BOT4	TH228	2.41E+00	4.4E-01		1.3E-01	pCi/g	09-07-00	09-06-00	8.35E+02	gm			05-01	H3458-3-75608
FJE-BOT4	CS137	0.00E+00	0.0E+00	U	7.2E-02	pCi/g	09-07-00	09-06-00	8.35E+02	gm			05-01	H3458-3-75608
FJE-BOT5	K 40	3.22E+01	5.6E+00		1.0E+00	pCi/g	09-07-00	09-06-00	8.07E+02	gm			05-01	H3458-4-75609
FJE-BOT5	TH228	2.60E+00	4.6E-01		1.3E-01	pCi/g	09-07-00	09-06-00	8.07E+02	gm			05-01	H3458-4-75609
FJE-BOT5	TH232	2.96E+00	7.9E-01		3.8E-01	pCi/g	09-07-00	09-06-00	8.07E+02	gm			05-01	H3458-4-75609
FJE-BOT5	CS137	0.00E+00	0.0E+00	U	7.2E-02	pCi/g	09-07-00	09-06-00	8.07E+02	gm			05-01	H3458-4-75609

Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:  Date: 9/12/00

Approved by:  Date: 9/14/00

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

(COA)

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O. Box 3936, N. Las Vegas, NV 89036

Page 9

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NTS306
Las Vegas, NV, 89193-8521

Type: Soil, Gross

Report Date: 12-SEP-00
Sample Delivery Group: D533
Batch: N962
Program: 720

Analysis: Gamma Spec.-20 Minute Scan

Report No. :

Sample Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
FJE-BOT6	K 40	3.15E+01	5.5E+00		1.0E+00	pCi/g	09-07-00	09-06-00	7.32E+02	gm			05-01	H3458-5-75610
FJE-BOT6	TH228	2.50E+00	4.4E-01		1.3E-01	pCi/g	09-07-00	09-06-00	7.32E+02	gm			05-01	H3458-5-75610
FJE-BOT6	TH232	2.06E+00	6.7E-01		4.0E-01	pCi/g	09-07-00	09-06-00	7.32E+02	gm			05-01	H3458-5-75610
FJE-BOT6	CS137	0.00E+00	0.0E+00	U	7.2E-02	pCi/g	09-07-00	09-06-00	7.32E+02	gm			05-01	H3458-5-75610
FJN-BOT1	K 40	3.08E+01	4.8E+00		9.0E-01	pCi/g	09-07-00	09-06-00	7.12E+02	gm			06-01	H3458-C-75617
FJN-BOT1	RA226	6.78E-02	1.5E-02		8.8E-03	pCi/g	09-07-00	09-06-00	7.12E+02	gm			06-01	H3458-C-75617
FJN-BOT1	TH228	2.62E+00	4.4E-01		1.7E-01	pCi/g	09-07-00	09-06-00	7.12E+02	gm			06-01	H3458-C-75617
FJN-BOT1	U 238	2.75E+00	1.7E+00		1.3E+00	pCi/g	09-07-00	09-06-00	7.12E+02	gm			06-01	H3458-C-75617
FJN-BOT1	CS137	0.00E+00	0.0E+00	U	7.4E-02	pCi/g	09-07-00	09-06-00	7.12E+02	gm			06-01	H3458-C-75617
FJN-BOT2	K 40	3.37E+01	5.1E+00		8.9E-01	pCi/g	09-07-00	09-06-00	7.97E+02	gm			06-01	H3458-D-75618

Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:  Date: 9/14/00

Approved by:  Date: 9/14/00

Qualification Flags:

E = Estimated Quantity
H = High Recovery for Sample
J = Result is less than the RDL
L = Low Recovery for Sample
P = Preliminary Results
Q = Bad Instrument Quality Control, Result is OK
R = Results are Unusable, Resampling is Necessary
U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

(COA)

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY

P.O.Box 3936, N. Las Vegas, NV 89036

Page 10

Reported to: Env. Restoration - Ind. Sites

P.O. Box 98521

M/S NTS306

Las Vegas , NV, 89193-8521

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 12-SEP-00

Sample Delivery Group: D533

Batch: N962

Program: 720

Report No.:

Sample ***** Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
FJN-BOT2	TH228	2.68E+00	4.4E-01		1.7E-01	pCi/g	09-07-00	09-06-00	7.97E+02	gm			06-01	H3458-D-75618
FJN-BOT2	TH232	2.28E+00	5.8E-01		3.0E-01	pCi/g	09-07-00	09-06-00	7.97E+02	gm			06-01	H3458-D-75618
FJN-BOT2	CS137	0.00E+00	0.0E+00	U	7.4E-02	pCi/g	09-07-00	09-06-00	7.97E+02	gm			06-01	H3458-D-75618
FJN-BOT3	K 40	3.21E+01	4.9E+00		9.0E-01	pCi/g	09-07-00	09-06-00	7.08E+02	gm			06-01	H3458-E-75619
FJN-BOT3	TH228	2.66E+00	4.4E-01		1.7E-01	pCi/g	09-07-00	09-06-00	7.05E+02	gm			06-01	H3458-E-75619
FJN-BOT3	U 238	2.35E+00	1.4E+00		1.2E+00	pCi/g	09-07-00	09-06-00	7.05E+02	gm			06-01	H3458-E-75619
FJN-BOT3	CS137	0.00E+00	0.0E+00	U	7.4E-02	pCi/g	09-07-00	09-06-00	7.05E+02	gm			06-01	H3458-E-75619
FJS-BOT1	K 40	3.26E+01	4.9E+00		7.5E-01	pCi/g	09-06-00	09-06-00	7.87E+02	gm			06-01	H3458-F-75620
FJS-BOT1	RA226	4.91E-01	1.0E-01		5.8E-02	pCi/g	09-06-00	09-06-00	7.87E+02	gm			06-01	H3458-F-75620
FJS-BOT1	TH228	2.40E+00	4.2E-01		1.8E-01	pCi/g	09-06-00	09-06-00	7.87E+02	gm			06-01	H3458-F-75620

Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:



Date: 9/14/00

Approved by:



Date: 9/14/00

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

(COA)

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Page 11

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NTS306
Las Vegas , NV, 89193-8521

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 12-SEP-00
Sample Delivery Group: D533
Batch: N962
Program: 720

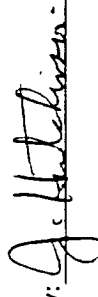
Report No. :

Sample Identification	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
FJS-BOT1	CS137	0.00E+00	0.0E+00	U	7.4E-02	pCi/g	09-06-00	09-06-00	7.87E+02	gm			06-01	H3458-F-75620
FJS-BOT2	K 40	2.97E+01	4.6E+00		7.5E-01	pCi/g	09-06-00	09-06-00	7.58E+02	gm			06-01	H3458-G-75621
FJS-BOT2	RA226	1.86E-01	4.7E-02		2.8E-02	pCi/g	09-06-00	09-06-00	7.58E+02	gm			06-01	H3458-G-75621
FJS-BOT2	TH228	2.51E+00	4.3E-01		1.8E-01	pCi/g	09-06-00	09-06-00	7.58E+02	gm			06-01	H3458-G-75621
FJS-BOT2	CS137	0.00E+00	0.0E+00	U	7.4E-02	pCi/g	09-06-00	09-06-00	7.58E+02	gm			06-01	H3458-G-75621
FJS-BOT3	K 40	3.43E+01	5.1E+00		7.5E-01	pCi/g	09-06-00	09-06-00	7.71E+02	gm			06-01	H3458-H-75622
FJS-BOT3	RA226	1.18E+00	3.0E-01		2.2E-01	pCi/g	09-06-00	09-06-00	7.71E+02	gm			06-01	H3458-H-75622
FJS-BOT3	TH228	2.40E+00	4.2E-01		1.8E-01	pCi/g	09-06-00	09-06-00	7.71E+02	gm			06-01	H3458-H-75622
FJS-BOT3	CS137	0.00E+00	0.0E+00	U	7.4E-02	pCi/g	09-06-00	09-06-00	7.71E+02	gm			06-01	H3458-H-75622
FJS-BOT4	K 40	3.46E+01	5.2E+00		7.5E-01	pCi/g	09-06-00	09-06-00	7.75E+02	gm			06-01	H3458-I-75623

Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:  Date: 9/12/00

Approved by:  Date: 9/14/00

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

(COA)

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Page 12

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NTS306
Las Vegas , NV, 89193-8521

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 12-SEP-00
Sample Delivery Group: D533
Batch: N962
Program: 720

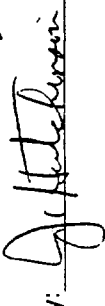
Report No. :

Sample Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
FJS-BOT4	RA226	3.32E+01	8.0E-02		4.3E-02	pCi/g	09-06-00	09-06-00	7.75E+02	gm			06-01	H3458-1-75623
FJS-BOT4	TH228	2.72E+00	4.5E-01		1.8E-01	pCi/g	09-06-00	09-06-00	7.75E+02	gm			06-01	H3458-1-75623
FJS-BOT4	TH232	2.35E+00	6.0E-01		3.1E-01	pCi/g	09-06-00	09-06-00	7.75E+02	gm			06-01	H3458-1-75623
FJS-BOT4	CS137	0.00E+00	0.0E+00	U	7.4E-02	pCi/g	09-06-00	09-06-00	7.75E+02	gm			06-01	H3458-1-75623
FJW-BOT1	K 40	3.06E+01	5.4E+00		8.0E-01	pCi/g	09-11-00	09-06-00	7.27E+02	gm			05-01	H3458-6-75611
FJW-BOT1	TH228	2.28E+00	4.2E-01		1.4E-01	pCi/g	09-11-00	09-06-00	7.27E+02	gm			05-01	H3458-6-75611
FJW-BOT1	TH232	2.48E+00	7.3E-01		2.7E-01	pCi/g	09-11-00	09-06-00	7.27E+02	gm			05-01	H3458-6-75611
FJW-BOT1	CS137	0.00E+00	0.0E+00	U	7.2E-02	pCi/g	09-11-00	09-06-00	7.27E+02	gm			05-01	H3458-6-75611
FJW-BOT2	K 40	2.96E+01	5.3E+00		7.9E-01	pCi/g	09-11-00	09-06-00	8.08E+02	gm			05-01	H3458-7-75612
FJW-BOT2	TH228	2.27E+00	4.3E-01		1.4E-01	pCi/g	09-11-00	09-06-00	8.08E+02	gm			05-01	H3458-7-75612

Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:  Date: 9/12/00

Approved by:  Date: 9/14/00

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

(COA)

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NTS306
Las Vegas, NV, 89193-8521

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 12-SEP-00
Sample Delivery Group: D533
Batch: N962
Program: 720

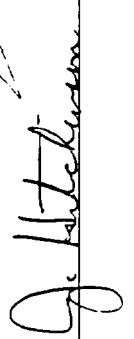
Report No. :

Sample Identification	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet Item Sample
FJW-BOT2	TH232	2.16E+00	6.8E-01		2.6E-01	pCi/g	09-11-00	09-06-00	8.08E+02	gm			05-01	H3458-7-75612
FJW-BOT2	CS137	0.00E+00	0.0E+00	U	7.2E-02	pCi/g	09-11-00	09-06-00	8.08E+02	gm			05-01	H3458-7-75612
FJW-BOT3	K 40	2.69E+01	5.0E+00		8.0E-01	pCi/g	09-11-00	09-06-00	7.33E+02	gm			05-01	H3458-8-75613
FJW-BOT3	TH228	2.23E+00	4.1E-01		1.4E-01	pCi/g	09-11-00	09-06-00	7.33E+02	gm			05-01	H3458-8-75613
FJW-BOT3	TH232	2.32E+00	7.1E-01		2.7E-01	pCi/g	09-11-00	09-06-00	7.33E+02	gm			05-01	H3458-8-75613
FJW-BOT3	CS137	0.00E+00	0.0E+00	U	7.2E-02	pCi/g	09-11-00	09-06-00	7.33E+02	gm			05-01	H3458-8-75613
FJW-BOT4	K 40	2.87E+01	5.2E+00		7.9E-01	pCi/g	09-11-00	09-06-00	8.21E+02	gm			05-01	H3458-9-75614
FJW-BOT4	TH228	2.40E+00	4.3E-01		1.4E-01	pCi/g	09-11-00	09-06-00	8.21E+02	gm			05-01	H3458-9-75614
FJW-BOT4	TH232	2.53E+00	7.2E-01		2.6E-01	pCi/g	09-11-00	09-06-00	8.21E+02	gm			05-01	H3458-9-75614
FJW-BOT4	CS137	0.00E+00	0.0E+00	U	7.2E-02	pCi/g	09-11-00	09-06-00	8.21E+02	gm			05-01	H3458-9-75614

Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:  Date: 9/12/00

Approved by:  Date: 9/14/00

Qualification Flags:

E = Estimated Quantity
H = High Recovery for Sample
J = Result is less than the RDL
L = Low Recovery for Sample
P = Preliminary Results
Q = Bad Instrument Quality Control, Result is OK
R = Results are Unusable, Resampling is Necessary
U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Page 14

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NTS306
Las Vegas ,NV,89193-8521

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 12-SEP-00
Sample Delivery Group: D533
Batch: N962
Program: 720

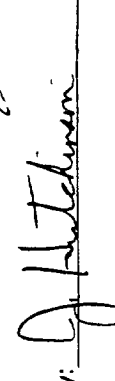
Report No. :

Sample Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
FJW-BOT5	K 40	3.15E+01	5.5E+00		7.9E-01	pCi/g	09-11-00	09-06-00	8.34E+02	gm			05-01	H3458-A-75615
FJW-BOT5	TH228	2.39E+00	4.3E-01		1.4E-01	pCi/g	09-11-00	09-06-00	8.34E+02	gm			05-01	H3458-A-75615
FJW-BOT5	TH232	2.46E+00	7.2E-01		2.6E-01	pCi/g	09-11-00	09-06-00	8.34E+02	gm			05-01	H3458-A-75615
FJW-BOT5	CS137	0.00E+00	0.0E+00	U	7.2E-02	pCi/g	09-11-00	09-06-00	8.34E+02	gm			05-01	H3458-A-75615
FJW-BOT6	K 40	3.07E+01	5.4E+00		8.0E-01	pCi/g	09-11-00	09-06-00	7.54E+02	gm			05-01	H3458-B-75616
FJW-BOT6	TH228	2.58E+00	4.6E-01		1.4E-01	pCi/g	09-11-00	09-06-00	7.54E+02	gm			05-01	H3458-B-75616
FJW-BOT6	TH232	2.63E+00	7.5E-01		2.7E-01	pCi/g	09-11-00	09-06-00	7.54E+02	gm			05-01	H3458-B-75616
FJW-BOT6	CS137	0.00E+00	0.0E+00	U	7.2E-02	pCi/g	09-11-00	09-06-00	7.54E+02	gm			05-01	H3458-B-75616
QA BKGEEmpty Btl U05	No Nucl Det	0.00E+00	0.0E+00	U	0.0E+00	NA	09-11-00	01-19-00	1.00E+00	gm			05-01	Q0857-0-00461
QA BKGEEmpty Btl U05	CS137	0.00E+00	0.0E+00	U	3.5E-01	pCi/g	09-11-00	01-19-00	1.00E+00	gm			05-01	Q0857-0-00461

Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by:  Date: 9/14/00

Approved by:  Date: 9/14/00

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

(COA)

(COA)

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY

P.O.Box 3936, N. Las Vegas, NV 89036

Page 16

Reported to: Env. Restoration - Ind. Sites

P.O. Box 98521

M/S NTS306

Las Vegas, NV, 89193-8521

Type: Inst QC Spike: Soil, 90gm to 835gm

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 12-SEP-00

Sample Delivery Group: D533

Batch: N962

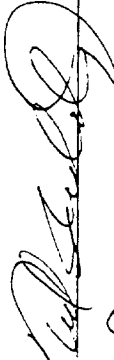
Program: 521

Report No. :

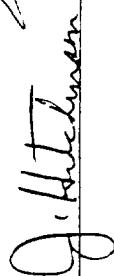
Sample Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
QA SP:NAS-A9985	CO60	8.91E+01	8.0E+00		1.3E-01	pCi/g	09-06-00	03-01-99	2.46E+02	gm		100.5	06-01	Q0858-2-14143
QA SP:NAS-A9985	CS137	6.88E+01	6.1E+00		1.0E-01	pCi/g	09-06-00	03-01-99	2.46E+02	gm		100.1	06-01	Q0858-2-14143
QA SP:NAS-A9987	AM241	1.73E+01	2.3E+00		2.9E-01	pCi/g	09-11-00	03-01-99	8.35E+02	gm		100.2	05-01	Q0858-4-14153
QA SP:NAS-A9987	CO60	2.52E+01	2.8E+00		4.3E-01	pCi/g	09-11-00	03-01-99	8.35E+02	gm		100.8	05-01	Q0858-4-14153
QA SP:NAS-A9987	CS137	2.02E+01	2.1E+00		6.2E-02	pCi/g	09-11-00	03-01-99	8.35E+02	gm		104.4	05-01	Q0858-4-14153
QA SP:NAS-A9987	AM241	1.67E+01	2.2E+00		2.5E-01	pCi/g	09-07-00	03-01-99	8.35E+02	gm		96.7	05-01	Q0858-4-14141
QA SP:NAS-A9987	CO60	2.45E+01	2.7E+00		1.0E-01	pCi/g	09-07-00	03-01-99	8.35E+02	gm		97.8	05-01	Q0858-4-14141
QA SP:NAS-A9987	CS137	1.92E+01	2.0E+00		8.6E-02	pCi/g	09-07-00	03-01-99	8.35E+02	gm		99.1	05-01	Q0858-4-14141

Comment:

Data generated from analyses of
CAU 240 samples submitted on
9/6/00.

Prepared by: 

Date: 9/14/00

Approved by: 

Date: 9/14/00

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: Error is the Prep + 2.0 Sigma Error

***** End of Report *****

(COA)

NEL LABORATORIESReno • Las Vegas • Boise
Phoenix • SacramentoLas Vegas Division
4206 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521

ATTN: Ted Redding

PROJECT NAME: V889
PROJECT NUMBER: 17777

NEL ORDER ID: L0009110

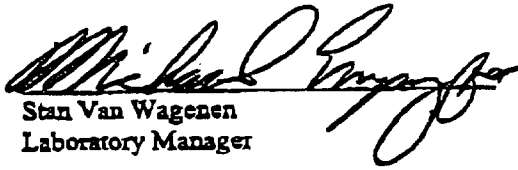
Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 9/12/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

Some results have been flagged as follows:

F3 - Hydrocarbon pattern atypical of diesel.



Stan Van Wagenen
Laboratory Manager

Date

9/14/00 partial

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V889
PROJECT #: 17777

TEST: Total Extractable Petroleum Hydrocarbons by EPA Method 8015M, December 1996
METHOD: EPA 8015M
ORDER ID: L0009110
MATRIX: Solid

ANALYST: SLB - Las Vegas Division

CLIENT SAMPLE ID	SAMPLE DATE	NEL SAMPLE ID	RESULT mg/kg	C.R.	Reporting Limit	Surrogate Recovery*	EXTRACTED	ANALYZED
FIE-BOT1	9/6/00	L0009110-02	ND	ND	20. mg/kg	92 %	9/12/00	9/12/00
FJE-BOT2	9/6/00	L0009110-03	ND	ND	20. mg/kg	100 %	9/12/00	9/12/00
FJE-BOT3	9/6/00	L0009110-04	ND	ND	20. mg/kg	102 %	9/12/00	9/12/00
FJE-BOT4	9/6/00	L0009110-05	ND	ND	20. mg/kg	101 %	9/12/00	9/12/00
FJE-BOT5	9/6/00	L0009110-06	ND	ND	20. mg/kg	88 %	9/12/00	9/12/00
FJE-BOT6	9/6/00	L0009110-07	ND	ND	20. mg/kg	94 %	9/12/00	9/12/00
FJW-BOT1	9/6/00	L0009110-08	53	O	20. mg/kg	107 %	9/12/00	9/12/00
FJW-BOT2	9/6/00	L0009110-09	63	DO	20. mg/kg	105 %	9/12/00	9/12/00
FJW-BOT3	9/6/00	L0009110-10	ND	ND	20. mg/kg	66 %	9/12/00	9/13/00
FJW-BOT4	9/6/00	L0009110-11	ND	ND	20. mg/kg	89 %	9/12/00	9/13/00
FJW-BOT5	9/6/00	L0009110-12	ND	ND	20. mg/kg	79 %	9/12/00	9/13/00

C.R.: Carbon Range

D Diesel Range Organics (C10 to C28).

DO Diesel Range Organics (C10 to C28) and Oil Range Organics (C18 to C34).

O Oil Range Organics (C18 to C34).

QUALITY CONTROL DATA (Total for Diesel Range):

Sample ID	Result	Acceptable Range	Surrogate Recovery*	Sample Number
Blank, 000912TP -BLK	ND	< 20 mg/kg	91 %	NA
LCS, 000912TPHS1-LCS	79 %	54 - 91 %	106 %	NA
LCSD, 000912TPHS1-LCSD	82 %	54 - 91 %	107 %	NA
MS, 000912TPHS1-MS	73 %	34 - 110 %	94 %	L0009110-17
MSD, 000912TPHS1-MSD	74 %	34 - 110 %	96 %	L0009110-17
Blank, 000912TP -BLK	ND	< 20 mg/kg	84 %	NA
LCS, 000912TPHS2-LCS	62 %	54 - 91 %	108 %	NA
LCSD, 000912TPHS2-LCSD	58 %	54 - 91 %	81 %	NA
MS, 000912TPHS2-MS	56 %	34 - 110 %	89 %	L0009110-16
MSD, 000912TPHS2-MSD	60 %	34 - 110 %	77 %	L0009110-16

* Surrogate used was Octacosane, acceptance limits 55-130%.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V889
PROJECT #: 17777

TEST: Total Extractable Petroleum Hydrocarbons by EPA Method 8015M, December 1996
METHOD: EPA 8015M
ORDER ID: L0009110
MATRIX: Solid

ANALYST: SLB - Las Vegas Division

CLIENT SAMPLE ID	SAMPLE DATE	NEL SAMPLE ID	RESULT mg/kg	C.R.	Reporting Limit	Surrogate Recovery*	EXTRACTED	ANALYZED
FJW-BOT6	9/6/00	L0009110-13	ND	ND	20. mg/kg	79 %	9/12/00	9/13/00
FJN-BOT1	9/6/00	L0009110-14	ND	ND	20. mg/kg	72 %	9/12/00	9/13/00
FJN-BOT2	9/6/00	L0009110-15	ND	ND	20. mg/kg	79 %	9/12/00	9/13/00
FJN-BOT3	9/6/00	L0009110-16	ND	ND	20. mg/kg	65 %	9/12/00	9/14/00
FJS-BOT1	9/6/00	L0009110-17	ND	ND	20. mg/kg	92 %	9/12/00	9/12/00
FJS-BOT2	9/6/00	L0009110-18	ND	ND	20. mg/kg	63 %	9/12/00	9/12/00
FJS-BOT3	9/6/00	L0009110-19	ND	ND	20. mg/kg	87 %	9/12/00	9/14/00
FJS-BOT4	9/6/00	L0009110-20	ND	ND	20. mg/kg	80 %	9/12/00	9/14/00
FJ-PAD1	9/6/00	L0009110-21	ND	ND	20. mg/kg	73 %	9/12/00	9/14/00
FJ-PAD2	9/6/00	L0009110-22	ND	ND	20. mg/kg	85 %	9/12/00	9/14/00
FJ-PAD3	9/6/00	L0009110-23	ND	ND	20. mg/kg	73 %	9/12/00	9/14/00

D.R.: Carbon Range

D Diesel Range Organics (C10 to C28).

DO Diesel Range Organics (C10 to C28) and Oil Range Organics (C18 to C34).

O Oil Range Organics (C18 to C34).

QUALITY CONTROL DATA (Total for Diesel Range):

Sample ID	Result	Acceptable Range	Surrogate Recovery*	Sample Number
Blank, 000912TP -BLK	ND	< 20 mg/kg	91 %	NA
LCS, 000912TPHS1-LCS	79 %	54 - 91 %	106 %	NA
LCSD, 000912TPHS1-LCSD	82 %	54 - 91 %	107 %	NA
MS, 000912TPHS1-MS	73 %	34 - 110 %	94 %	L0009110-17
MSD, 000912TPHS1-MSD	74 %	34 - 110 %	96 %	L0009110-17
Blank, 000912IP -BLK	ND	< 20 mg/kg	84 %	NA
CS, 000912TPHS2-LCS	62 %	54 - 91 %	108 %	NA
LCSD, 000912TPHS2-LCSD	58 %	54 - 91 %	81 %	NA
MS, 000912TPHS2-MS	56 %	34 - 110 %	89 %	L0009110-16
MSD, 000912TPHS2-MSD	60 %	34 - 110 %	77 %	L0009110-16

Surrogate used was Octacosane, acceptance limits 55-130%.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V889
PROJECT #: 17777

TEST: Total Extractable Petroleum Hydrocarbons by EPA Method 8015M, December 1996

METHOD: EPA 8015M

ORDER ID: L0009110

MATRIX: Solid

ANALYST: SLB - Las Vegas Division

CLIENT SAMPLE ID	SAMPLE DATE	NEL SAMPLE ID	RESULT mg/kg	C.R.	Reporting Limit	Surrogate Recovery*	EXTRACTED	ANALYZED
FJ-SW1	9/6/00	L0009110-24	ND	ND	20. mg/kg	101 %	9/12/00	9/14/00
FJ-SW2	9/6/00	L0009110-25	58	O	20. mg/kg	77 %	9/12/00	9/14/00
FJ-SW3	9/6/00	L0009110-26	ND	ND	20. mg/kg	103 %	9/12/00	9/14/00
FJ-SW4	9/6/00	L0009110-27	27 F3	D	20. mg/kg	92 %	9/12/00	9/14/00
FJ-SW5	9/6/00	L0009110-28	ND	ND	20. mg/kg	106 %	9/12/00	9/14/00
FJ-SW6	9/6/00	L0009110-29	ND	ND	20. mg/kg	82 %	9/12/00	9/14/00
FJ-SW7	9/6/00	L0009110-30	ND	ND	20. mg/kg	92 %	9/12/00	9/14/00

C.R.: Carbon Range

D Diesel Range Organics (C10 to C28).

DO Diesel Range Organics (C10 to C28) and Oil Range Organics (C18 to C34).

O Oil Range Organics (C18 to C34).

QUALITY CONTROL DATA (Total for Diesel Range):

Sample ID	Result	Acceptable Range	Surrogate Recovery*	Sample Number
Blank, 000912TP -BLK	ND	< 20 mg/kg	91 %	NA
LCS, 000912TPHS1-LCS	79 %	54 - 91 %	106 %	NA
LCSD, 000912TPHS1-LCSD	82 %	54 - 91 %	107 %	NA
MS, 000912TPHS1-MS	73 %	34 - 110 %	94 %	L0009110-17
MSD, 000912TPHS1-MSD	74 %	34 - 110 %	96 %	L0009110-17
Blank, 000912TP -BLK	ND	< 20 mg/kg	84 %	NA
LCS, 000912TPHS2-LCS	62 %	54 - 91 %	108 %	NA
LCSD, 000912TPHS2-LCSD	58 %	54 - 91 %	81 %	NA
MS, 000912TPHS2-MS	56 %	34 - 110 %	89 %	L0009110-16
MSD, 000912TPHS2-MSD	60 %	34 - 110 %	77 %	L0009110-16

* Surrogate used was Octacosane, acceptance limits 55-130%.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

6009110

Bechtel Nevada

**ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD**

PROJECT/CLIENT INFORMATION				REPORT INFORMATION				SAMPLE INFORMATION				
Project: CAU 240		BN Orig: 240		Send Report to: DAVID JOHNSON		Fac: 5-7261		MS: UTS 306		Sampling Site: CAU 240		
Charge No.: C7FD14AA		ASL Prog: 5-6169		Phone: 5-6169		Fax: 5-7261		MS: UTS 306		The samples submitted contain (check): () Hazardous () Radioactive (X) Unknown		
Project Manager: WAYNE JOHNSON				Turnaround: () Standard - 30 days Non-rush, 60 days Rush, Other: _____ (X) Rush Preliminary by: 7/14/00 Final by: _____				Comments: If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulatory requirements and allow for the safe handling of the sample materials.				
Phone: 5-0523				Fax: 5-7261				MS: UTS 306				
Final report format: (X) Standard () NTS-WAC () Other: _____												
LAB USE ONLY				ANALYSES & METHOD								
Rad SGR: D533		Non-Rad SGR: V889		20-11-2 6pm-19 TPH DIESEL 2015 B MND								
Rad Packet: H3457-Water		Non-Rad Packet: W1933										
Client Services Representative:												
Will these analyses be performed under a signed SOW? () YES () NO If so, do analyses entered here agree with the SOW? () YES () NO () N/A If not, identify the variation: _____ CSR Initials indicating review and approval: _____ Date: _____												
ITEM	ID / DESCRIPTION	SAMPLING DATE	TIME	MATRIX	Comments: (Preservative, eluent, matrix code, count time, etc.) 1-11 g/L 1-SPD, N/A 536g 1-250 g/L 1-SPD, N/A 646g " " " " 646g " " " " 818g " " " " 840g " " " " 807g " " " " 732g " " " " 727g " " " " 808g " " " " 733g							
0	FJ-ED1	9/6/00	1045	WATER								
1	FJR-AOT1		1045	SOIL								
2	FJE-DOT2		1045									
3	FJE-BOT3		1050									
4	FJE-BOT4		1050									
5	FJE-BOT5		1055									
6	FJE-BOT6		1055									
7	FJW-AOT1		1045									
8	FJW-DOT2		1045									
9	FJW-BOT3		1050									
Custody Seal Intact: (X) YES () NO Condition when received: POOR (GROSS)												
Transfer of samples submitted for analysis												
Sampled/Relinquished (Signature/Organization) David S. R. Wore				Received by (Signature/Organization) CA Castorena				Complete for samples shipped to an OFF-SITE Subcontract Laboratory NEZ 12/28/07				
DATE / TIME 9/20/00				DATE / TIME 7/14/00				DATE / TIME 12/28/07				
Relinquished (Signature & Tracking Info.) CA Castorena				Relinquished (Signature & Tracking Info.) CA Castorena				Relinquished (Signature & Tracking Info.) CA Castorena				
Relinquished (1st the Subcontractor Rep) CA Castorena				Relinquished (1st the Subcontractor Rep) CA Castorena				Relinquished (1st the Subcontractor Rep) CA Castorena				
Relinquished (2nd the Subcontractor Rep) CA Castorena				Relinquished (2nd the Subcontractor Rep) CA Castorena				Relinquished (2nd the Subcontractor Rep) CA Castorena				

10009110



ANALYTICAL SERVICES LABORATORY SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/CLIENT INFORMATION			REPORT INFORMATION			SAMPLE INFORMATION																																																																														
Project: CAN 240	BN Orig: 215D	Send Report to: DAN TOBIASON	Phone: 5-6169	Fax: 5-7761	WIS: NTS306	Sampling Site: CAN 240	The samples submitted contain (check): () Hazardous () Radioactive (X) Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for safe handling of the sample materials.																																																																													
Change No.: C7F014AA	ASL Prog.:	Turnaround () Standard - 30 days Non-rad, 60 Days Rad; Other: Final by: 9/14/00	Final report format: (X) Standard () NTS-WAC () Other:			SAMPLE RECEIPT INFORMATION Are all sample containers received intact? (X) Yes () No Comments:																																																																														
Project Manager: WAYNE JOHNSON	MIR: NTS306	LAB USE ONLY			ANALYSES & METHOD																																																																															
Phone: 5-0571	Fax: 5-7761	Rad SCD: D533	Non-Rad SCD: V889	20-MIN GRAMP TPH DIESEL 8056 MOD																																																																																
Rad Packet: H3458	Non-Rad Packet: W1933																																																																																			
Client Services Representative:																																																																																				
Will these analyses be performed under a signed BOW? () YES () NO																																																																																				
If yes, do analyses entered here agree with the BOW? () YES () NO () N/A																																																																																				
CSR initials indicating review and approval: _____ Date: _____																																																																																				
Transfer of samples submitted for analysis																																																																																				
<table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>SAMPLED DATE</th> <th>TIME</th> <th>MATRIX</th> </tr> </thead> <tbody> <tr><td>9/6/00</td><td>FJS-BOTY</td><td>9/6/00</td><td>1120</td><td>SOIL</td></tr> <tr><td>11/35</td><td></td><td></td><td></td><td></td></tr> <tr><td>11/35</td><td></td><td></td><td></td><td></td></tr> <tr><td>11/35</td><td></td><td></td><td></td><td></td></tr> <tr><td>11/45</td><td></td><td></td><td></td><td></td></tr> <tr><td>11/45</td><td></td><td></td><td></td><td></td></tr> <tr><td>11/50</td><td></td><td></td><td></td><td></td></tr> <tr><td>11/50</td><td></td><td></td><td></td><td></td></tr> <tr><td>11/55</td><td></td><td></td><td></td><td></td></tr> <tr><td>12/00</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		DATE	DESCRIPTION	SAMPLED DATE	TIME	MATRIX	9/6/00	FJS-BOTY	9/6/00	1120	SOIL	11/35					11/35					11/35					11/45					11/45					11/50					11/50					11/55					12/00					<table border="1"> <thead> <tr> <th>DATE / TIME</th> <th>Signature / Organization</th> <th>Received (Signature / Organization)</th> <th>DATE / TIME</th> <th>Signature / Organization</th> </tr> </thead> <tbody> <tr> <td>9-6-00/154</td> <td>WJH</td> <td>9/12/00</td> <td>9/12/00</td> <td>BN COURIER</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			DATE / TIME	Signature / Organization	Received (Signature / Organization)	DATE / TIME	Signature / Organization	9-6-00/154	WJH	9/12/00	9/12/00	BN COURIER															
DATE	DESCRIPTION	SAMPLED DATE	TIME	MATRIX																																																																																
9/6/00	FJS-BOTY	9/6/00	1120	SOIL																																																																																
11/35																																																																																				
11/35																																																																																				
11/35																																																																																				
11/45																																																																																				
11/45																																																																																				
11/50																																																																																				
11/50																																																																																				
11/55																																																																																				
12/00																																																																																				
DATE / TIME	Signature / Organization	Received (Signature / Organization)	DATE / TIME	Signature / Organization																																																																																
9-6-00/154	WJH	9/12/00	9/12/00	BN COURIER																																																																																
<table border="1"> <thead> <tr> <th>DATE / TIME</th> <th>Signature / Organization</th> <th>Received (Signature / Organization)</th> <th>DATE / TIME</th> <th>Signature / Organization</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		DATE / TIME	Signature / Organization	Received (Signature / Organization)	DATE / TIME	Signature / Organization																					<table border="1"> <thead> <tr> <th>DATE / TIME</th> <th>Signature / Organization</th> <th>Received (Signature / Organization)</th> <th>DATE / TIME</th> <th>Signature / Organization</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			DATE / TIME	Signature / Organization	Received (Signature / Organization)	DATE / TIME	Signature / Organization																																																		
DATE / TIME	Signature / Organization	Received (Signature / Organization)	DATE / TIME	Signature / Organization																																																																																
DATE / TIME	Signature / Organization	Received (Signature / Organization)	DATE / TIME	Signature / Organization																																																																																

Distribution: Original: to be retained by laboratory performing final analysis
Copy 1: to be retained by laboratory performing intermediate analysis
Copy 2: to be retained by Analytical Services Laboratory
Copy 3: to be retained by sampler

10009110



ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/CLIENT INFORMATION				REPORT INFORMATION				SAMPLE INFORMATION			
Project: CAN 240	BN Ogrt: 245D	ASL Prog.:	Send Report to: DAN THORSON	Phone: 5-6169	For: 5-7261	MS: 1271306	Sampling Site: CAN 240				
Charge No.: C760149A			Turnaround: 1) Standard - 30 days Non-rad, 60 Days Rad, Other: 2) Rush Preliminary by: 9/17/00				The samples submitted contain (check): () Hazardous () Radioactive (X) Unknown				
Project Manager: WAYNE JOHNSON			Final report format: M Standard () NTS-WAC () Other:				If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.				
Phone: 5-0523	Fac: 5-7261	MS: 1271306									
LAB USE ONLY				ANALYSES & METHOD							
Rad SGD: D533	Non-Rad SGD: V889						SAMPLE RECEIPT INFORMATION				
Rad Packet: H3458	Non-Rad Packet: W1933						Are all sample containers received intact? (X) Yes () No				
Client Services Representative:				Comments:							
Will these analyses be performed under a signed BOW? () YES () NO				Do the labels agree with this form? (X) Yes () No							
If so, do analyses entered here agree with the BOW? () YES () NO () N/A				Comments:							
If not, identify the variation:				Was a Material Clearance Tag submitted? (X) Yes () No							
CSR initials indicating review and approval: _____ Date: _____				Comments:							
ID / DESCRIPTION				SAMPLING DATE / TIME							
MATRIX				DATE / TIME							
1 0 FJ-SW7				9/16/00 1400							
1 1				SOIL							
2 1											
3 1											
4 1											
5 1											
6 1											
7 1											
8 1											
9 1											
10 1											
11 1											
12 1											
13 1											
14 1											
15 1											
16 1											
17 1											
18 1											
19 1											
20 1											
21 1											
22 1											
23 1											
24 1											
25 1											
26 1											
27 1											
28 1											
29 1											
30 1											
31 1											
32 1											
33 1											
34 1											
35 1											
36 1											
37 1											
38 1											
39 1											
40 1											
41 1											
42 1											
43 1											
44 1											
45 1											
46 1											
47 1											
48 1											
49 1											
50 1											
51 1											
52 1											
53 1											
54 1											
55 1											
56 1											
57 1											
58 1											
59 1											
60 1											
61 1											
62 1											
63 1											
64 1											
65 1											
66 1											
67 1											
68 1											
69 1											
70 1											
71 1											
72 1											
73 1											
74 1											
75 1											
76 1											
77 1											
78 1											
79 1											
80 1											
81 1											
82 1											
83 1											
84 1											
85 1											
86 1											
87 1											
88 1											
89 1											
90 1											
91 1											
92 1											
93 1											
94 1											
95 1											
96 1											
97 1											
98 1											
99 1											
100 1											
101 1											
102 1											
103 1											
104 1											
105 1											
106 1											
107 1											
108 1											
109 1											
110 1											
111 1											
112 1											
113 1											
114 1											
115 1											
116 1											
117 1											
118 1											
119 1											
120 1											
121 1											
122 1											
123 1											
124 1											
125 1											
126 1											
127 1											
128 1											
129 1											
130 1											
131 1											
132 1											
133 1											
134 1											
135 1											
136 1											
137 1											
138 1											
139 1											
140 1											
141 1											
142 1											
143 1											
144 1											
145 1											
146 1											
147 1											
148 1											
149 1											
150 1											
151 1											
152 1											
153 1											
154 1											
155 1											
156 1											
157 1											
158 1											
159 1											
160 1											
161 1											
162 1											
163 1											
164 1											
165 1											
166 1											
167 1											
168 1											
169 1											
170 1											
171 1											
172 1											
173 1											
174 1											
175 1											
176 1											
177 1											
178 1											
179 1											
180 1											
181 1											
182 1											
183 1											
184 1											
185 1											
186 1											
187 1											
188 1											
189 1											
190 1											
191 1											
192 1											
193 1											
194 1											
195 1											
196 1											
197 1											
198 1											
199 1											
200 1											
201 1											
202 1											
203 1											
204 1											
205 1											
206 1											
207 1											
208 1											
209 1											
210 1											
211 1											
212 1											
213 1											
214 1											
215 1											
216 1											
217 1											
218 1											
219 1											
220 1											
221 1											
222 1											
223 1											
224 1											
225 1											
226 1											
227 1											
228 1											
229 1											
230 1											
231 1											
232 1											
233 1											
234 1											
235 1											
236 1											
237 1											
238 1											
239 1											
240 1											
241 1											
242 1											
243 1											
244 1											
245 1											
246 1											
247 1											
248 1											
249 1											
250 1											
251 1											
252 1											
253 1											
254 1											
255 1											
256 1											
257 1											
258 1											
259 1											
260 1											
261 1											
262 1											
263 1											
264 1											
265 1											
266 1											
267 1											
268 1											
269 1											
270 1											
271 1											
272 1											
273 1											
274 1											
275 1											
276 1											
277 1											
278 1											
279 1											
280 1											
281 1											
282 1											
283 1											
284 1											
285 1											
286 1											
287 1											
288 1											
289 1											
290 1											
291 1											
292 1											
293 1											
294 1											
295 1											
296 1											
297 1											
298 1											
299 1											
300 1											
301 1											
302 1											
303 1											
304 1											
305 1											
306 1											
307 1											
308 1											
309 1											
310 1											
311 1											
312 1											
313 1											
314 1											
315 1											
316 1											
317 1											
318 1											
319 1											
320 1											
321 1											
322 1											
323 1											
324 1											
325 1											
326 1											
327 1											
328 1											
329 1											
330 1											
331 1											
332 1											
333 1											
334 1											
335 1											
336 1											
337 1											
338 1											
339 1											
340 1											
341 1											
342 1											
343 1											
344 1											
345 1											
346 1											
347 1											
348 1											
349 1											
350 1											
351 1											
352 1											
353 1											
354 1											
355 1											
356 1											
357 1											
358 1											
359 1											
360 1											
361 1											
362 1											
363 1											
364 1											
365 1											
366 1											
367 1											
368 1											
369 1											
370 1											
371 1											
372 1											
373 1											
374 1											
375 1											
376 1											
377 1											
378 1											
379 1											
380 1											
381 1											
382 1											
383 1											
384 1											
385 1											
386 1											
387 1											
388 1											
389 1											
390 1											
391 1											
392 1											
393 1											
394 1											
395 1											
396 1											
397 1											
398 1											
399 1											
400 1											
401 1											
402 1											
403 1											
404 1											
405 1											
406 1											
407 1											
408 1											
409 1											
410 1											
411 1											
412 1											
413 1											
414 1											
415 1											
416 1											
417 1											
418 1											
419 1											
420 1											
421 1											
422 1											
423 1											
424 1											
425 1											
426 1											
427 1											
428 1											
429 1											
430 1											
431 1											
432 1											
433 1											
434 1											
435 1											
436 1											
437 1											
438 1											
439 1											
440 1											
441 1											
442 1											
443 1											
444 1											
445 1											
446 1											
447 1											
448 1											
449 1											
450 1											
451 1											
452 1											
453 1											
454 1											
455 1											
456 1											
457 1											
458 1											
459 1											
460 1											
461 1											
462 1											
463 1											
464 1											
465 1											
466 1											
467 1											
468 1											
469 1											
470 1											
471 1											
472 1											
473 1											
474 1											
475 1											
476 1											

NEL LABORATORIESReno • Las Vegas • Boise
Phoenix • SacramentoLas Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 857-1010 • Fax: (702) 857-1577
1-888-368-3282

CLIENT: Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521

ATTN: Ted Redding

PROJECT NAME: V889
PROJECT NUMBER: 17777

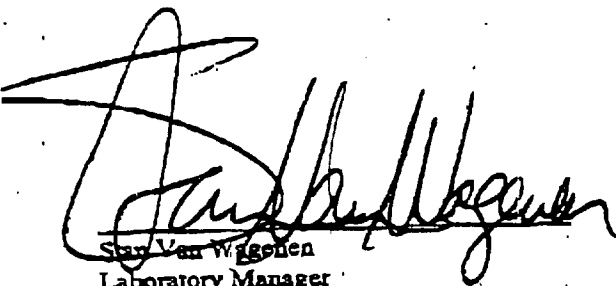
NEL ORDER ID: L0009110

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 9/12/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

Some results have been flagged as follows:
F3 - Hydrocarbon pattern atypical of diesel.


Stan Van Wagonen
Laboratory Manager

9/14/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V889
 PROJECT #: 17777

TEST: Total Extractable Petroleum Hydrocarbons by EPA Method 8015M, December 1996
 METHOD: EPA 8015M
 ORDER ID: L0009110

MATRIX: Aqueous

ANALYST: SLB - Las Vegas Division

CLIENT SAMPLE ID	SAMPLE DATE	NEL SAMPLE ID	RESULT mg/L	C.R.	Reporting Limit	Surrogate Recovery*	EXTRACTED	ANALYZED
FJ-EB1	9/6/00	L0009110-01	ND	ND	0.5 mg/L	105 %	9/13/00	9/12/00

C.R.: Carbon Range

- D Diesel Range Organics (C10 to C28).
- DO Diesel Range Organics (C10 to C28) and Oil Range Organics (C18 to C34).
- O Oil Range Organics (C18 to C34).

QUALITY CONTROL DATA (Total for Diesel Range):

Sample ID	Result	Acceptable Range	Surrogate Recovery*	Sample Number
Blank, 000912TP -BLK	ND	< 20 mg/kg	91 %	NA
LCS, 000912TPHS1-LCS	79 %	54 - 91 %	106 %	NA
LCSD, 000912TPHS1-LCSD	82 %	54 - 91 %	107 %	NA
MS, 000912TPHS1-MS	73 %	34 - 110 %	94 %	L0009110-17
MSD, 000912TPHS1-MSD	74 %	34 - 110 %	96 %	L0009110-17
Blank, 000912TP -BLK	ND	< 20 mg/kg	84 %	NA
LCS, 000912TPHS2-LCS	62 %	54 - 91 %	108 %	NA
LCSD, 000912TPHS2-LCSD	58 %	54 - 91 %	81 %	NA
MS, 000912TPHS2-MS	56 %	34 - 110 %	89 %	L0009110-16
MSD, 000912TPHS2-MSD	60 %	34 - 110 %	77 %	L0009110-16
Blank, 000913TP -BLK	ND	< 0.5 mg/L	92 %	NA
LCS, 000913TPHW-LCS	69 %	60 - 86 %	99 %	NA

10009110



ANALYTICAL SERVICES LABORATORY SERVICES REQUEST & CHAIN OF CUSTODY RECORD

Page 2 of 4

PROJECT/CLIENT INFORMATION				REPORT INFORMATION				ANALYSES & METHOD				SAMPLE RECEIPT INFORMATION			
Project: CAN 240		BN Order: 215D		Send Report to: DON TOBIASON		Fax: 5-6189		MIS: NTS-308		Sampling Site: CAN 240		The samples submitted contain (check): () Hazardous () Radiological () Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			
Charge No.: C2F0144A		ASL Prog.: 5-7261		Phone: 5-6189		Fax: 5-7261		MIS: NTS-308		Are all sample containers received intact? ☒ Yes () No					
Project Manager: WBYNE JOHNSON		MIS: NTS-308		Turnaround: 30 days Non-req. 60 days Rad. Other:		Final by: 9/14/00				Do the labels agree with this form? ☒ Yes () No					
Phone: 5-0573		Fax: 5-7261		Final report format: ☒ Standard () NTS-WAC () Other:						Was a Material Clearance Tag submitted? ☒ Yes () No					
LAB USE ONLY				RAD BGD: D533				Non-Rad SDG: V889							
				Rad Packet: H3458				Non-Rad Packet: W1933							
Client Services Representative:															
We these analyses be performed under a signed SOW? () YES () NO				If so, do analyses entered here agree with the SOW? () YES () NO () N/A											
If not, identify the variation:															
CSR initials indicating review and approval:															
Date:															
ID	ID / DESCRIPTION	SAMPLING DATE	TIME	MATRIX	ANALYSES & METHOD				SAMPLE RECEIPT INFORMATION						
0	FW-BOT 4	9/6/00	1050	SOIL	X	X	X	X	1-250 ml glass	1-500 ml glass	1-834g	821g			
1	FW-BOT 5		1055		X	X	X	X	"	"	"	834g			
2	FW-BOT 6		1055		X	X	X	X	"	"	"	834g			
3	FW-BOT 1		1110		X	X	X	X	"	"	"	712g			
4	FW-BOT 2		1110		X	X	X	X	"	"	"	797g			
5	FW-BOT 3		1110		X	X	X	X	1-500 ml glass	1-500 ml glass	705g	783g			
6	FW-BOT 3 MS/MSA		1110		X	X	X	X	1-500 ml glass	1-500 ml glass	MS/MSA				
7	FIS-BOT 1		1120		X	X	X	X	Condition when received: Poor	Condition when received: Poor	1-500 ml glass				
8	FIS-BOT 2		1120		X	X	X	X	"	"	"	758g			
9	FIS-BOT 3		1120		X	X	X	X	"	"	"	771g			
Transfer of samples submitted for analyses				Complete for samples shipped to an OFF-SITE Subcontract Laboratory				NEL/2012967							
Sampled/Retained (Signature/Organization)				Received by (Signature/Organization)				DATE / TIME				Received (Counter & Tracking Info.)			
Don J S M - Bolek				9-6-00/00				C Carlucci				9/14/00			
								Vio Carlucci				9/14/00			
												Received (1st for Subcontract Rep)			
												Received (2nd for Subcontract Rep)			

10009110

Bechtel Nevada

**ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD**

Page 3 of 4

PROJECT/CLIENT INFORMATION			REPORT INFORMATION		
Project: CAN 240	BN Org: 2/50	Send Report to: DAN TOBIASON	Phone: 5-6169	Fax: 5-7761	MS: UJS306
Charge No.: C7F014A9	Alt. Proj:	Turnaround: () Standard - 30 days Non-ref. 60 Days Ref. Other:	Final by:		
Project Manager: WAYNE JOHNSON	MS: UJS306	Final report format: ☒ Standard () NTS-VIAC () Other:			
Phone: 5-0571	Fax: 5-7761				
LAB USE ONLY Rad SGD: D533 Non-Rad SGD: V889 Field Packet: H3458 Non-Rad Packet: W1933 Client Services Representative: _____ Will these analyses be performed under a signed SOW? () YES () NO If no, do analyses outlined here agree with the SOW? () YES () NO () N/A If not, identify the variation: _____ CSR Initials indicating review and approval: _____ Date: _____					
ANALYSES & METHOD			SAMPLE RECEIPT INFORMATION		
ANALYSES & METHOD			Are all sample containers received intact? () Yes () No		
ANALYSES & METHOD			Comments:		
ANALYSES & METHOD			Do the labels agree with this form? () Yes () No		
ANALYSES & METHOD			Comments:		
ANALYSES & METHOD			Was a Material Clearance Tag submitted? () Yes () No		
ANALYSES & METHOD			Comments:		
ANALYSES & METHOD			COMMENTS		
ANALYSES & METHOD			[Preservative, size/volume, MMSD, special analysis, red matrix code, count time, etc.]		
1	FJS-BOT1	9/14/00 1120 SOLC	X	X	1-20M LEL-211 1-SPONTAL MMSD
2	FJ-PAD2	1135	X	X	" " 771g
3	FJ-PAD3	1135	X	X	" " 771g
4	FJ-SW1	1145	X	X	" " 814g
5	FJ-SW2	1145	X	X	" " 653g
6	FJ-SW3	1150	X	X	" " 618g
7	FJ-SW4	1150	X	X	" " 743g
8	FJ-SW5	1155	X	X	" " 741g
9	FJ-SW6	1200	X	X	" " 660g
10	FJ-SW6	1200	X	X	" " 723g

Complete for samples shipped to an OFF-SITE Subcontract Laboratory

Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info)
<i>Dan Tobison</i>	9/14/00	BN Courier
<i>Wayne Johnson</i>	9/14/00	Received (1st for Subcontractor Rep)
		Received (2nd for Subcontractor Rep)

Original - to be retained by laboratory performing final analysis
 Copy 1 - to be retained by laboratory performing preliminary analyses
 Copy 2 - to be retained by Analytical Services Laboratory

ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/CLIENT INFORMATION						REPORT INFORMATION						SAMPLE INFORMATION					
Project CAN 240			BN Orig# 215D			Send Report to: DAN TDBIASON						Sampling Site: CAN 240					
Charge No: C7F014AA			ASB Prop:			Phone: 5-6169			Fax: 5-7741			() Hazardous () Radioactive () Unknown					
Project Manager: WAYNE JOHNSON			MIS: WTS306			Turnaround: 30 days Non-rad, 80 Days Rad; Other: Final by: JTB			Final report format: NTS Standard () NTS-WAC () Other: N/A			Comments: If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.					
LAB USE ONLY						ANALYSES & METHOD						SAMPLE RECEIPT INFORMATION					
Rad SGD: D533			Non-Rad SGD: V889			20-MIN GROUND TPH DIESEL BUST AND						Are all samples contained received intact? Yes () No () Comments:					
Rad Pocket: H3458			Non-Rad Pocket: W1933									Do the labels agree with this form? Yes () No () Comments:					
Client Services Representative:						Via these analyses to be performed under a signed SOW? () YES () NO () N/A						Was a Material Clearance Tag submitted? Yes () No () Comments:					
If so, do analyses entered here agree with the SOW? () YES () NO () N/A						CSR Initials indicating review and approval: Date:						COMMENTS: (Preservative, eluate/volume, MS/MSO, special analysis, full matrix code, count time, etc.)					
ID / DESCRIPTION			SAMPLING DATE		TIME		MATRIX		1-200 mL each 1.00 mL NABAR 637g								
0 FJ-SW7			9/16/00		RAD		SOIL										
1							X X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
Transfer of samples submitted for analyses						Complete for samples shipped to an OFF-SITE Subcontract Laboratory NEL/2012867											
Sampled/Relinquished (Signature/Organization)			DATE / TIME			Received by (Signature/Organization)			DATE / TIME			Received (Counter & Tracking Info.)					
NEL/STP-CORRE			9-6-00/NO			CD Castaneda			9/16/00			BN CORNER					
												Received (1st User Subcontractor Rep)					
												9-2-00/NO					
												Received (2nd User Subcontractor Rep)					
												9-2-00/NO					

DISTRIBUTION LIST

THIS PAGE INTENTIONALLY LEFT BLANK

DISTRIBUTION LIST

*Provide copy of initial distribution or Revision 0; remainder of list gets Revision 0 if approved without changes. The entire list receives Revision 1, if issued.

Nevada Division of Environmental Protection

Paul Liebendorfer 2 (Controlled)*
Bureau of Federal Facilities
Division of Environmental Protection
333 W. Nye Lane, Room 138
Carson City, NV 89706-0851

Mike McKinnon, Las Vegas Office 1 (Controlled)*
Bureau of Federal Facilities
Division of Environmental Protection
555 E. Washington, Suite 4300
Las Vegas, NV 89101-1049

U.S. Department of Energy

Janet Appenzeller-Wing 1 (Uncontrolled)*
Environmental Restoration Division
U.S. Department of Energy, Nevada Operations Office
P.O. Box 98518 M/S 505
Las Vegas, NV 89193-8518

Sabine Curtis 1 (Uncontrolled)*
Environmental Restoration Division
U.S. Department of Energy, Nevada Operations Office
P.O. Box 98518 M/S 505
Las Vegas, NV 89193-8518

Sabrina Lawrence 1 (Controlled)*
Environmental Restoration Division
U.S. Department of Energy, Nevada Operations Office
P.O. Box 98518 M/S 505
Las Vegas, NV 89193-8518

DISTRIBUTION LIST (Continued)

U.S. Department of Energy (continued)

U.S. Department of Energy
Office of Scientific and Technical Information
P.O. Box 62
Oak Ridge, TN 37831-0062
1 (Uncontrolled,
electronic copy)

U.S. Department of Energy
Nevada Operations Office
Technical Information Resource Center
P.O. Box 98518 M/S 505
Las Vegas, NV 89193-8518
1 (Uncontrolled)

Manager, Southern Nevada
FFACO Public Reading Room
P.O. Box 98521 M/S NLV040
Las Vegas, NV 89193-8521
1 (Controlled) &
1 (Uncontrolled)

Manager, Northern Nevada
FFACO Public Reading Room
Nevada State Library and Archives Federal Publications
100 North Stewart Street
Carson City, NV 89701-4285
1 (Uncontrolled)

Bechtel Nevada

Correspondence Control
Bechtel Nevada
P.O. Box 98521 M/S NLV008
Las Vegas, NV 89193-8521
1 (Uncontrolled)*

Environmental Management Library
Bechtel Nevada
P.O. Box 98521 M/S NLV080
Las Vegas, NV 89193-8521
1 (Uncontrolled)*

DISTRIBUTION LIST (Continued)

Bechtel Nevada (continued)

Dennis Gustafson 1 (Uncontrolled)*
Bechtel Nevada
P.O. Box 98521 M/S NTS306
Las Vegas, NV 89193-8521

Ann Heidema 1 (Uncontrolled)*
Bechtel Nevada
P.O. Box 98521 M/S NLV022
Las Vegas, NV 89193-8521

Wayne Johnson 1 (Uncontrolled)*
Bechtel Nevada
P.O. Box 98521 M/S NTS306
Las Vegas, NV 89193-8521

Steve Nacht 1 (Uncontrolled)*
Bechtel Nevada
P.O. Box 98521 M/S NTS306
Las Vegas, NV 89193-8521

Jerel Nelson 1 (Uncontrolled)*
Bechtel Nevada
P.O. Box 98521 M/S NTS306
Las Vegas, NV 89193-8521

Dan Tobiason 1 (Uncontrolled)*
Bechtel Nevada
P.O. Box 98521 M/S NTS306
Las Vegas, NV 89193-8521

IT Corporation

Lynn Kidman 1 (Uncontrolled)*
IT Corporation
P.O. Box 93838, M/S 439
Las Vegas, NV 89193-3838

DISTRIBUTION LIST (Continued)

IT Corporation (continued)

Dustin Wilson
IT Corporation
P.O. Box 93838, M/S 439
Las Vegas, NV 89193-3838

1 (Uncontrolled)*

IT FFACO Support Office
IT Corporation
P.O. Box 93838, M/S 439
Las Vegas, NV 89193-3838

1 (Controlled)