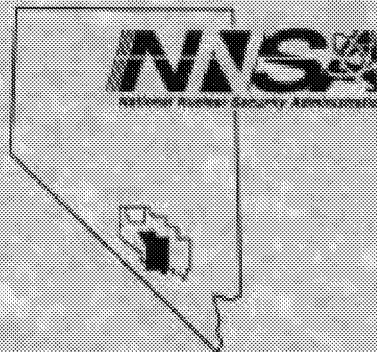


Nevada
Environmental
Restoration
Project

DOE/NV-873-REV 1



Closure Report for Corrective
Action Unit 398: Area 25 Spill
Sites, Nevada Test Site, Nevada

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Revision: 1

April 2003

Environmental Restoration
Division

U.S. Department of Energy
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**CLOSURE REPORT
FOR CORRECTIVE ACTION UNIT 398:
AREAS 25 SPILL SITES,
NEVADA TEST SITE, NEVADA**

**Prepared for:
U.S. Department of Energy
National Nuclear Security Administration
Nevada Site Office
Work Performed Under Contract No. DE-AC08-96NV11718**

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Revision: 1

April 2003

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**CLOSURE REPORT
FOR CORRECTIVE ACTION UNIT 398:
AREA 25 SPILL SITES,
NEVADA TEST SITE, NEVADA**

Approved by: *Sabine Curtis*
for Janet Appenzeller-Wing, Project Manager
Industrial Sites Project

Date: 1/23/03

Approved by: *Runore C. Wycoff*
Runore C. Wycoff, Director
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Date: 1-23-03

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APPENDIX C - USE RESTRICTION INFORMATION

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REVIEW SHEET

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ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
BN	Bechtel Nevada
CAS	Corrective Action Site(s)
CR	Closure Report
CAU	Corrective Action Unit
cm	centimeter(s)
COC	contaminant(s) of concern
CSM	conceptual site model
DOE/NV	U.S. Department of Energy, Nevada Operations Office
DQO	Data Quality Objective(s)
E-MAD	Engine Maintenance, Assembly, and Disassembly
EPA	U.S. Environmental Protection Agency
FFACO	Federal Facility Agreement and Consent Order
ft	foot(feet)
gal	gallon(s)
in	inch(es)
km	kilometer(s)
L	liter(s)
m	meter(s)
m ³	cubic meter(s)
mg/kg	milligram(s) per kilogram
mg/L	milligram(s) per Liter
mi	mile(s)
NAC	Nevada Administrative Code
NDEP	Nevada Division of Environmental Protection
NNSA/NSO	U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office
NNSA/NV	U.S. Department of Energy, National Nuclear Security Administration Nevada Operations Office
NTS	Nevada Test Site
QA/QC	quality assurance/quality control
PCB	Polychlorinated Biphenyls
RCRA	Resource Conservation and Recovery Act

ACRONYMS AND ABBREVIATIONS (continued)

SAFER	Streamlined Approach for Environmental Restoration
SVOC	Semivolatile Organic Compound(s)
TPH	Total Petroleum Hydrocarbons
VOC	Volatile Organic Compound(s)
yd ³	cubic yard(s)

EXECUTIVE SUMMARY

Corrective Action Unit (CAU) 398 consists of 13 Corrective Action Sites (CASs) all located in Area 25 of the Nevada Test Site. The unit is listed in the Federal Facility Agreement and Consent Order (FFACO, 1996) as CAU 398: Area 25 Spill Sites and consists of the following CASs:

- CAS 25-25-02, Oil Spills
- CAS 25-25-03, Oil Spills
- CAS 25-25-04, Oil Spills
- CAS 25-25-05, Oil Spills
- CAS 25-25-06, Oil Spills
- CAS 25-25-07, Hydraulic Oil Spill(s)
- CAS 25-25-08, Hydraulic Oil Spill(s)
- CAS 25-25-16, Diesel Spill (from CAS 25-01-02)
- CAS 25-25-17, Subsurface Hydraulic Oil Spill
- CAS 25-44-01, Fuel Spill
- CAS 25-44-02, Spill
- CAS 25-44-03, Spill
- CAS 25-44-04, Acid Spill (from CAS 25-01-01)

CAU 398 was closed in accordance with the FFACO and the Nevada Division of Environmental Protection-approved Streamlined Approach for Environmental Restoration Plan for CAU 398: Area 25 Spill Sites, Nevada Test Site, Nevada (U.S. Department of Energy, Nevada Operations Office, 2001). The implemented closure strategy consisted of the activities listed below.

Three CASs were closed by taking no further action. At these CASs, analytical sample results showed no contaminants of concern (COCs) present above action levels. The following CASs were closed with no further action:

- CAS 25-25-06, Oil Spills
- CAS 25-44-01, Fuel Spill
- CAS 25-44-04, Acid Spill (from CAS 25-01-01)

Seven CASs were clean closed by removal of all impacted soil. At four CASs total petroleum hydrocarbons (TPH) was identified as the only COC present above action levels. At one CAS TPH and Polychlorinated Biphenyls (PCBs) were identified as COCs present above action levels. At one CAS TPH, PCBs, lead and cadmium were identified as COCs, and at a final CAS, TPH and cadmium were identified as COCs present above action levels. These seven CASs were clean closed by removal of all impacted soil, collecting soil verification samples from the bottom and sidewalls of the excavations, submitting soil samples for laboratory analysis to verify that all impacted soil was removed, backfilling the excavations with clean fill, and grading the backfilled areas to the approximate original site contours. Copies of the analytical results for the collected soil verification samples are included in Appendix B of this report. The following CASs were clean closed:

- CAS 25-25-02, Oil Spills

- CAS 25-25-03, Oil Spills
- CAS 25-25-04, Oil Spills
- CAS 25-25-05, Oil Spills
- CAS 25-25-16, Diesel Spill (from CAS 25-01-02)
- CAS 25-44-02, Spill
- CAS 25-44-03, Spill

Three CASs were closed in place with administrative controls, i.e., implementing use restrictions. TPH as diesel/oil were the only COCs present at two of these sites. At the remaining CAS, TPH and PCBs were the COCs present. Given specific site conditions (e.g., presence of utilities, limited working space, shallow depth to bedrock, and limited lighting), a risk assessment of each of these sites, based on the "A through K" evaluation as presented in Nevada Administrative Code (NAC) Section 445A.277, was performed (NAC, 2002a) for each CAS and land use restrictions implemented. The following CASs were closed in place with administrative controls, i.e., implementing use restrictions:

- CAS 25-25-07, Hydraulic Oil Spill(s)
- CAS 25-25-08, Hydraulic Oil Spill(s)
- CAS 25-25-17, Subsurface Hydraulic Oil Spill

Copies of the CAU Use Restriction Information forms for these three sites are included in Appendix C of this report.

1.0 INTRODUCTION

This Closure Report (CR) documents the activities performed to close Corrective Action Unit (CAU) 398: Area 25 Spill Sites, in accordance with the Federal Facility Agreement and Consent Order (FFACO) of 1996, and the Nevada Division of Environmental Protection (NDEP)-approved Streamlined Approach for Environmental Restoration (SAFER) Plan for CAU 398: Area 25 Spill Sites, Nevada Test Site, Nevada (U.S. Department of Energy, Nevada Operations Office [DOE/NV], 2001). CAU 398 consists of the following thirteen Corrective Action Sites (CASs) all located in Area 25 of the Nevada Test Site (NTS) (Figure 1):

- CAS 25-25-02, Oil Spills
- CAS 25-25-03, Oil Spills
- CAS 25-25-04, Oil Spills
- CAS 25-25-05, Oil Spills
- CAS 25-25-06, Oil Spills
- CAS 25-25-07, Hydraulic Oil Spill(s)
- CAS 25-25-08, Hydraulic Oil Spill(s)
- CAS 25-25-16, Diesel Spill (from CAS 25-01-02)
- CAS 25-25-17, Subsurface Hydraulic Oil Spill
- CAS 25-44-01, Fuel Spill
- CAS 25-44-02, Spill
- CAS 25-44-03, Spill
- CAS 25-44-04, Acid Spill (from CAS 25-01-01)

Copies of the analytical results for the site verification samples are included in Appendix B. Copies of the CAU Use Restriction Information forms are included in Appendix C.

1.1 PURPOSE

The purpose of this CR is to document that the closure of CAU 398 complied with all of the closure requirements as stated in the NDEP-approved CAU 398 SAFER Plan, (DOE/NV, 2001). CAU 398 consists of 13 CASs which are spill sites located in Area 25 of the NTS. CAU 398 was closed as detailed in the NDEP-approved SAFER plan (DOE/NV, 2001). Seven CASs were clean closed by removal of all impacted soil, three CASs were closed with no further action being taken and three CASs were closed in place with administrative controls.

1.2 SCOPE

The approved closure strategy for CAU 398 was specified in the SAFER Plan for CAU 398 (DOE/NV, 2001). The implemented closure strategy consisted of the following activities.

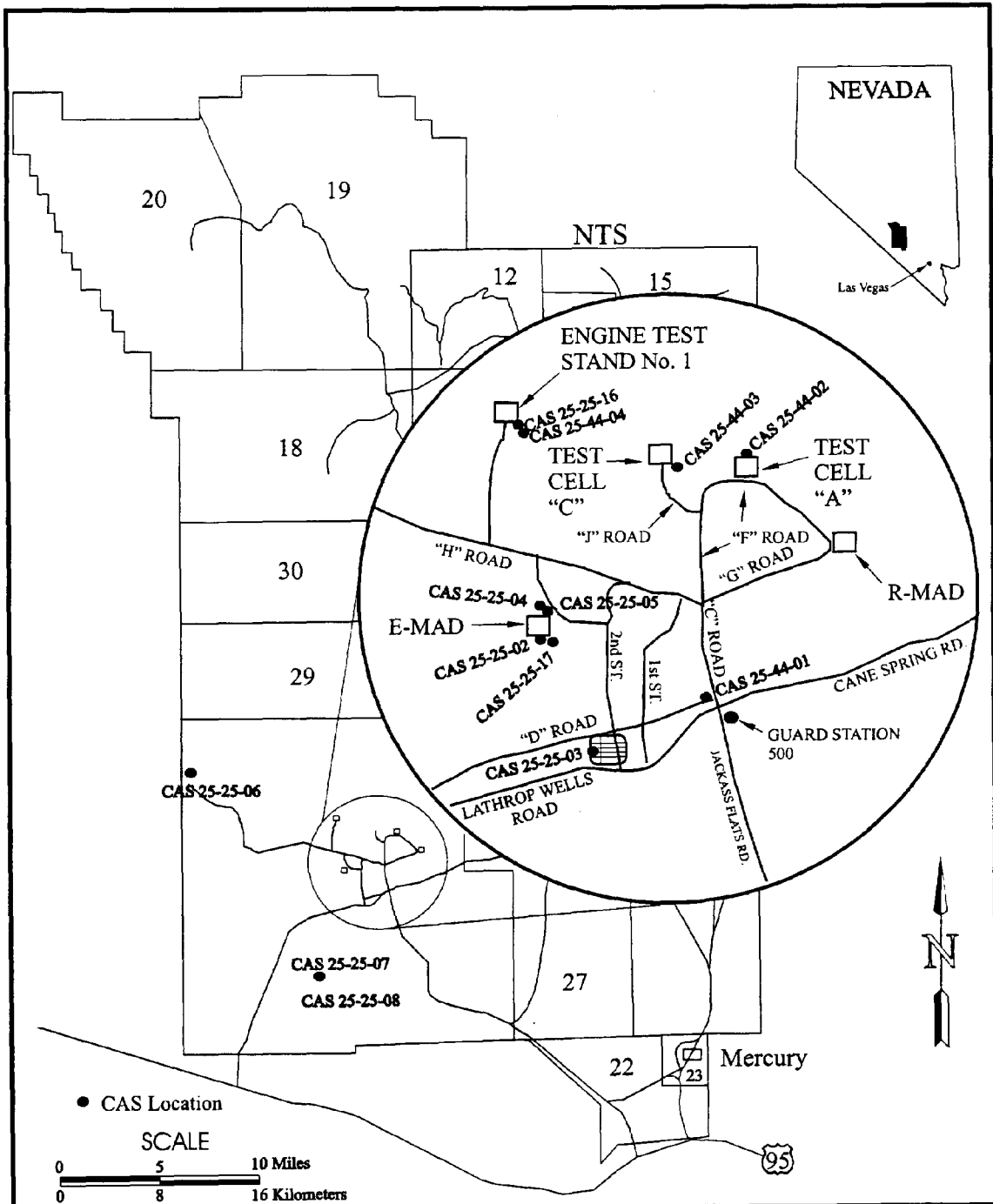


FIGURE 1
CAU 398 SITE LOCATION MAP

Three CASs were closed by taking no further action. At these CASs, characterization sample results showed no contaminants of concern (COC) present at levels above action levels. Therefore, the following three sites were closed by taking no further action:

- CAS 25-25-06, Oil Spills
- CAS 25-44-01, Fuel Spill
- CAS 25-44-04, Acid Spill (from CAS 25-01-01)

Seven CASs were clean closed by removal of all impacted soil. At four CASs total petroleum hydrocarbons (TPH) was identified as the only COC present above action levels. At one CAS TPH and Polychlorinated Biphenyls (PCBs) were identified as COCs present above action levels. At one CAS TPH, PCBs, lead and cadmium were identified as COCs, and at a final CAS, TPH and cadmium were identified as COCs present above action levels. These seven CASs were clean closed by excavation and removal of impacted soil, collecting soil verification samples from the bottom and sidewalls of the excavations, submitting samples for laboratory analysis to verify that all impacted soil was removed, backfilling the excavation with clean fill, and grading the backfilled sites to the surrounding contours. The following CASs were clean closed:

- CAS 25-25-02, Oil Spills
- CAS 25-25-03, Oil Spills
- CAS 25-25-04, Oil Spills
- CAS 25-25-05, Oil Spills
- CAS 25-25-16, Diesel Spill (from CAS 25-01-02)
- CAS 25-44-02, Spill
- CAS 25-44-03, Spill

Three CASs were closed in place with administrative controls by implementing use restrictions. TPH as diesel/oil was the only COC present at two of these CASs and at the remaining site, TPH and PCBs were the COCs present. Given specific site conditions (e.g., presence of utilities, limited working space, safety considerations, shallow depth to bedrock, restricted access and limited lighting), these three CASs were closed in place. As part of the site closure, a risk assessment for each of the three sites, based on the "A through K" evaluation as presented in Nevada Administrative Code (NAC) Section 445A.227 (NAC, 2002a), was performed. Based on the results of the "A through K" risk assessment, the following three CASs were closed in place with administrative controls by implementing use restrictions:

- CAS 25-25-07, Hydraulic Oil Spill(s)
- CAS 25-25-08, Hydraulic Oil Spill(s)
- CAS 25-25-17, Subsurface Hydraulic Oil Spill

1.3 CLOSURE REPORT CONTENTS

This CR is divided into the following sections:

Section 1.0-Introduction
Section 2.0-Closure Activities

Section 3.0-Waste Disposition
Section 4.0-Closure Verification Results
Section 5.0-Conclusions and Recommendations
Section 6.0-References
Appendix A-Data Quality Objectives (DQOs) for CAU 398
Appendix B-Verification Sample Analytical Results
Appendix C-Use Restriction Information
Appendix D-Waste Disposition Documentation
Appendix E-Field Photographs
Distribution List

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

- Streamlined Approach for Environmental Restoration Plan for Corrective Action Unit 398: Area 25 Spill Sites, Nevada Test Site, Nevada, (DOE/NV, 2001).
- Field Management Plan for Corrective Action Unit 398: Area 25 Spill Sites, Nevada Test Site, Nevada, (Bechtel Nevada [BN], 2002a).
- Site Specific Health and Safety Plan for Corrective Action Unit 398: Area 25 Spill Sites, Nevada Test Site, (BN, 2002b).

2.0 CLOSURE ACTIVITIES

This section details the specific corrective action activities completed during the closure of CAU 398: Area 25 Spill Sites. Copies of the analytical data for all collected soil verification samples are included in Appendix B, and copies of the CAU Use Restriction Information forms are included in Appendix C.

2.1 DESCRIPTION OF CORRECTIVE ACTION ACTIVITIES

2.1.1 Preplanning and Site Preparation

Closure of CAU 398 was completed using the NDEP-approved Streamlined Approach for Environmental Restoration Plan for Corrective Action Unit 398: Area 25 Spill Sites, Nevada Test Site, Nevada, Revision 0, (DOE/NV, 2001). Prior to beginning closure activities, the following prefield activities were completed:

- Preparation of a National Environmental Policy Act documentation (checklist).
- Preparation of the Field Management Plan for Corrective Action Unit 398: Area 25 Spill Sites, Nevada Test Site, Nevada, (BN, 2002a).
- Preparation of the Site-Specific Health and Safety Plan for Corrective Action Unit 398: Area 25 Spill Sites, Nevada Test Site, (BN, 2002b).
- Preparation of the U.S. Department of Energy, National Nuclear Security Administration Nevada Operations Office (NNSA/NV) Real Estate/Operations Permit.

The following is the scope of the closure actions implemented for CAU 398.

2.1.2 Waste Characterization

Site preliminary assessments were performed by the International Technology Corporation. Waste classification samples were collected and analyzed by BN personnel and the results are presented in the CAU 398 SAFER Plan (DOE/NV, 2001). Table 1 shows the analyses that were conducted for waste classification samples, the results of these analyses, and the resulting waste classification.

Additional waste classification samples for PCBs and Resource Conservation and Recovery Act (RCRA) metals were collected at CAS 25-25-04 and CAS 25-25-05 on April 03, 2002, to determine lateral extent of contamination and to better define and reduce the area of excavation and, hence, to reduce the volume of waste generated.

Approximately 245 cubic meters (m³) (320 cubic yards [yd³]) of impacted soil was excavated from the seven clean closed CASs from April 23 to June 28, 2002.

TABLE 1 - SUMMARY OF CAU 398 WASTE CHARACTERIZATION SAMPLES

CAS	SAMPLE TYPE	ANALYSIS	ANALYTICAL RESULTS	WASTE TYPE
25-44-01	Soil	TPH ^a , TCLP ^b RCRA ^c Metals, and gamma spectroscopy	All analyses lower than action levels	Sanitary
25-44-02	Soil	TPH, TCLP RCRA Metals, and gamma spectroscopy	TPH higher than action level	Hydrocarbon
25-44-03	Soil	TPH, TCLP RCRA Metals, PCBs ^d , and gamma spectroscopy	TPH higher than action level	Hydrocarbon
25-44-04 (from CAS 25-01-01)	Soil	pH, and gamma spectroscopy	All analyses lower than action levels	No further action
25-25-02	Soil	TPH, TCLP RCRA Metals, TCLP SVOCs ^e , PCBs, and gamma spectroscopy	TPH and PCBs higher than action level	Hydrocarbon and Polychlorinated Biphenyls
25-25-03	Soil	TPH, and gamma spectroscopy	TPH higher than action level	Hydrocarbon
25-25-04	Soil	TPH, TCLP RCRA Metals, TCLP VOCs ^f , TCLP SVOCs, PCBs, and gamma spectroscopy	TPH, RCRA Metals, and PCBs higher than action level	Hydrocarbon , Polychlorinated Biphenyls, Lead, and Cadmium
25-25-05	Soil	TPH, TCLP RCRA Metals, TCLP VOCs, TCLP SVOCs, PCBs, and gamma spectroscopy	TPH, and RCRA Metals higher than action level	Hydrocarbon and Cadmium
25-25-06	Soil	TPH, and gamma spectroscopy	All analyses lower than action levels	No further action
25-25-07	Soil	TPH, PCBs, and gamma spectroscopy	TPH higher than action level	Hydrocarbon
25-25-08	Soil	TPH, PCBs, and gamma spectroscopy	TPH higher than action level	Hydrocarbon
25-25-16 (from CAS 25-01-02)	Soil	TPH, and gamma spectroscopy	TPH higher than action level	Hydrocarbon
25-25-17	Soil	TPH, TCLP RCRA Metals, TCLP SVOCs, PCBs, and gamma spectroscopy	TPH higher than action level	Hydrocarbon

^a TPH - Total Petroleum Hydrocarbons, by SW-846 8015 modified (U.S. Environmental Protection Agency [EPA], 1996).

^b TCLP - Toxicity Characteristic Leaching Procedure, sample preparation method SW-846 1311 (EPA, 1996).

^c RCRA - Resource Conservation and Recovery Act metals by SW-846 6010B and 7471A (EPA, 1996).

^d PCBs - Polychlorinated Biphenyls, by SW-846 8082 (EPA, 1996).

^e SVOCs - Semivolatile Organic Compounds, by SW-846 8270 (EPA, 1996).

^f VOCs - Volatile Organic Compounds, by SW-846 8260 (EPA, 1996).

2.1.3 Closure Activities

CAS 25-44-01, Fuel Spill (Figure 2). This site is described as a fuel spill on soil that covers a concrete pad. The origins and use of the spilled material are unknown, although the material is suspected of being railroad bedding material. Analytical results for characterization samples showed no COCs present above action levels (DOE/NV, 2001).

As a best management practice the railroad bedding material and construction debris were removed from the site on April 4, 2002. The debris was placed into an end dump and transported to the NTS Area 9 U10c Landfill for disposal. Waste disposition documentation is included in Appendix D and photographs documenting the site closure activities in Appendix E. No further action was required at this site.

CAS 25-44-02, Spill (Figure 3). This site consisted of a historic spill to soil from leaking drums. The source of the drums is unknown. The drums were removed from the site and disposed of prior to this corrective action. Analytical results for characterization samples showed TPH as the only COC present above action levels (DOE/NV, 2001). This site was clean closed by excavation and disposal of TPH-impacted soil.

TPH-impacted soil was excavated and transported to the NTS Area 6 Hydrocarbon Landfill for disposal on May 15-20, 2002. Soil verification samples (254402-1, 254402-2, 254402-3, 254402-4, 254402-5, 254402-6) were collected from the excavation on May 20, 2002, and analyzed for TPH. Results showed TPH levels less than the action level of 100 milligrams per kilogram (mg/kg) (NAC, 2002b), verifying that the site was clean closed. The excavation was then backfilled with clean fill and wheel rolled with heavy equipment on June 18, 2002. Analytical results for the verification samples are summarized in Table 2 and are included in Appendix B. Waste disposition documentation is included in Appendix D and photographs documenting the site closure activities in Appendix E.

CAS 25-44-03, Spill (Figure 4). This site consisted of a spill from leaking drums onto a concrete pad and surrounding soil. The drums were removed prior to this corrective action. Analytical results for characterization samples showed TPH as the only COC present above action levels (DOE/NV, 2001). This site was clean closed by excavation and disposal of TPH-impacted soil.

TPH-impacted soil was excavated and transported to the NTS Area 6 Hydrocarbon Landfill for disposal on April 24-30, 2002. Soil verification samples (254403-1, 254403-2, 254403-3, 254403-4, 254403-5, 254403-6, 254403-7) were collected on May 7, 2002, and analyzed for TPH. Results showed TPH concentrations less than the action level (100 mg/kg) (NAC, 2002b), verifying that the site was clean closed. The excavation was then backfilled with clean fill and wheel rolled with heavy equipment on May 28, 2002. Analytical results for the verification samples are summarized in Table 2 and are included in Appendix B. Waste disposition documentation is included in Appendix D and photographs documenting the site closure activities in Appendix E.

CAS 25-44-04, Acid Spill (from CAS 25-01-01). This site consisted of spills from two tanks used for a water demineralization process. Tank T-2002 contained sodium hydroxide and Tank T-2003 contained sulfuric acid. The tanks were removed from the site prior to this corrective action (DOE/NV, 1998). Analytical results for characterization samples showed no evidence of

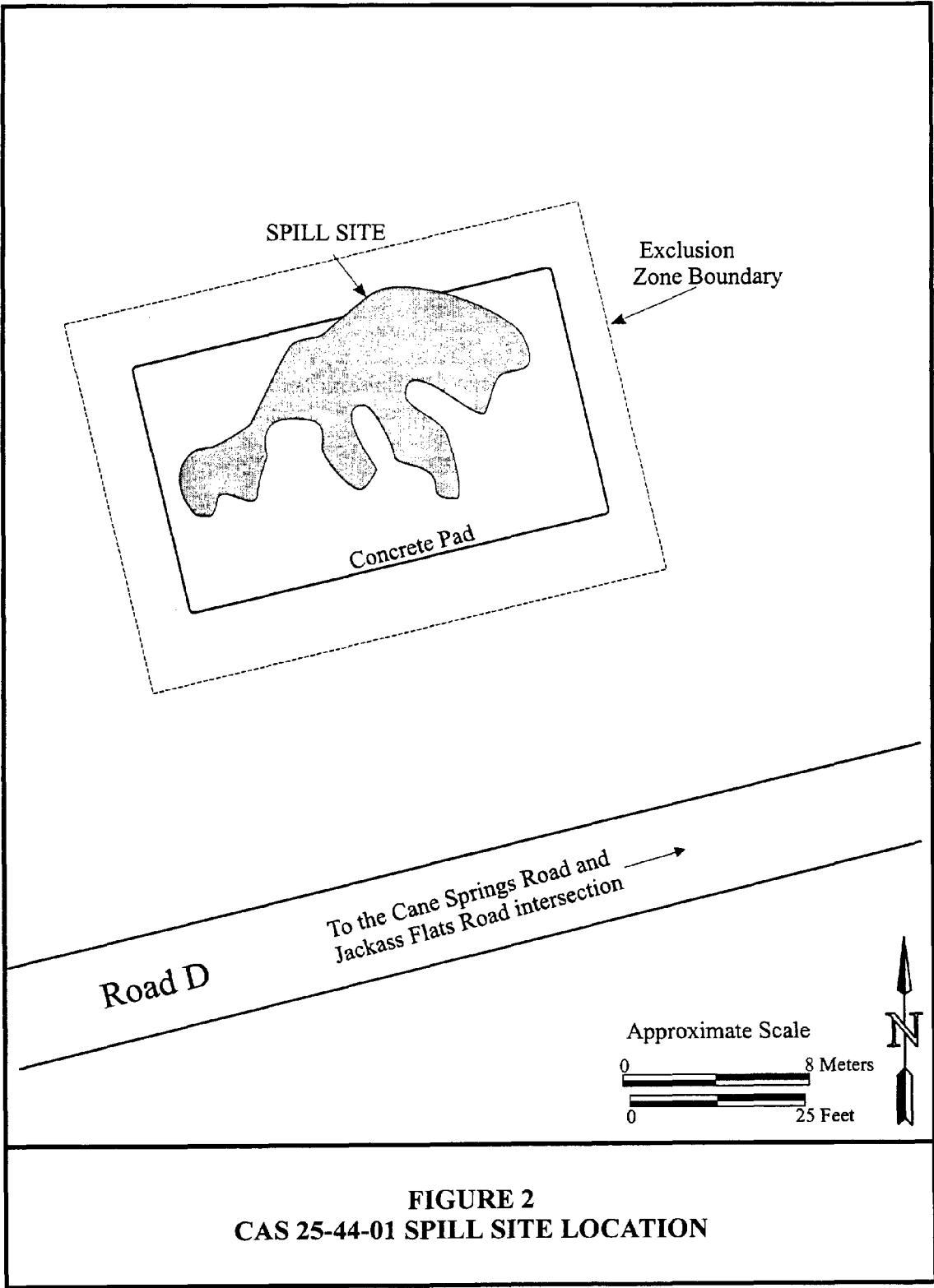
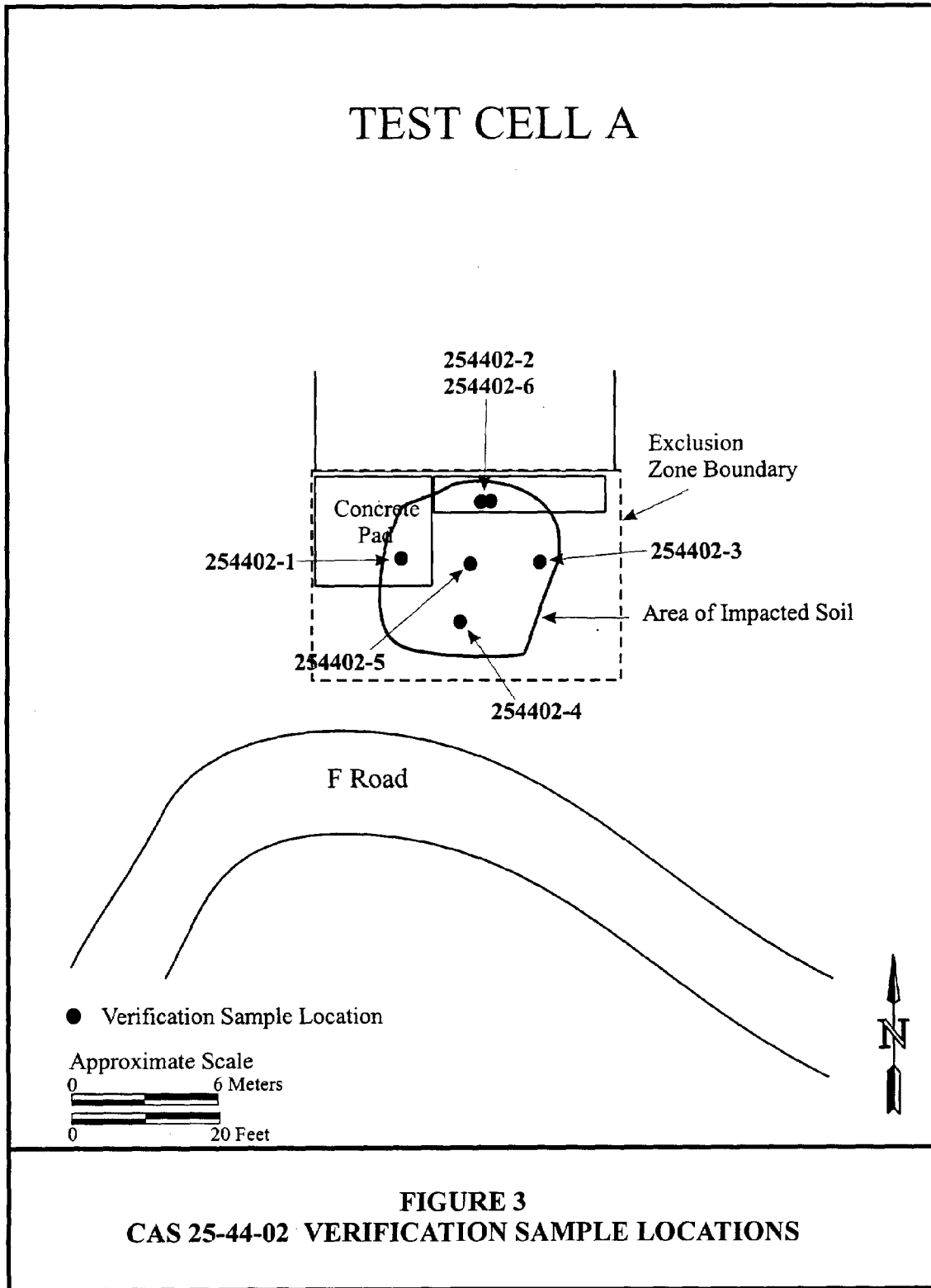


FIGURE 2
CAS 25-44-01 SPILL SITE LOCATION



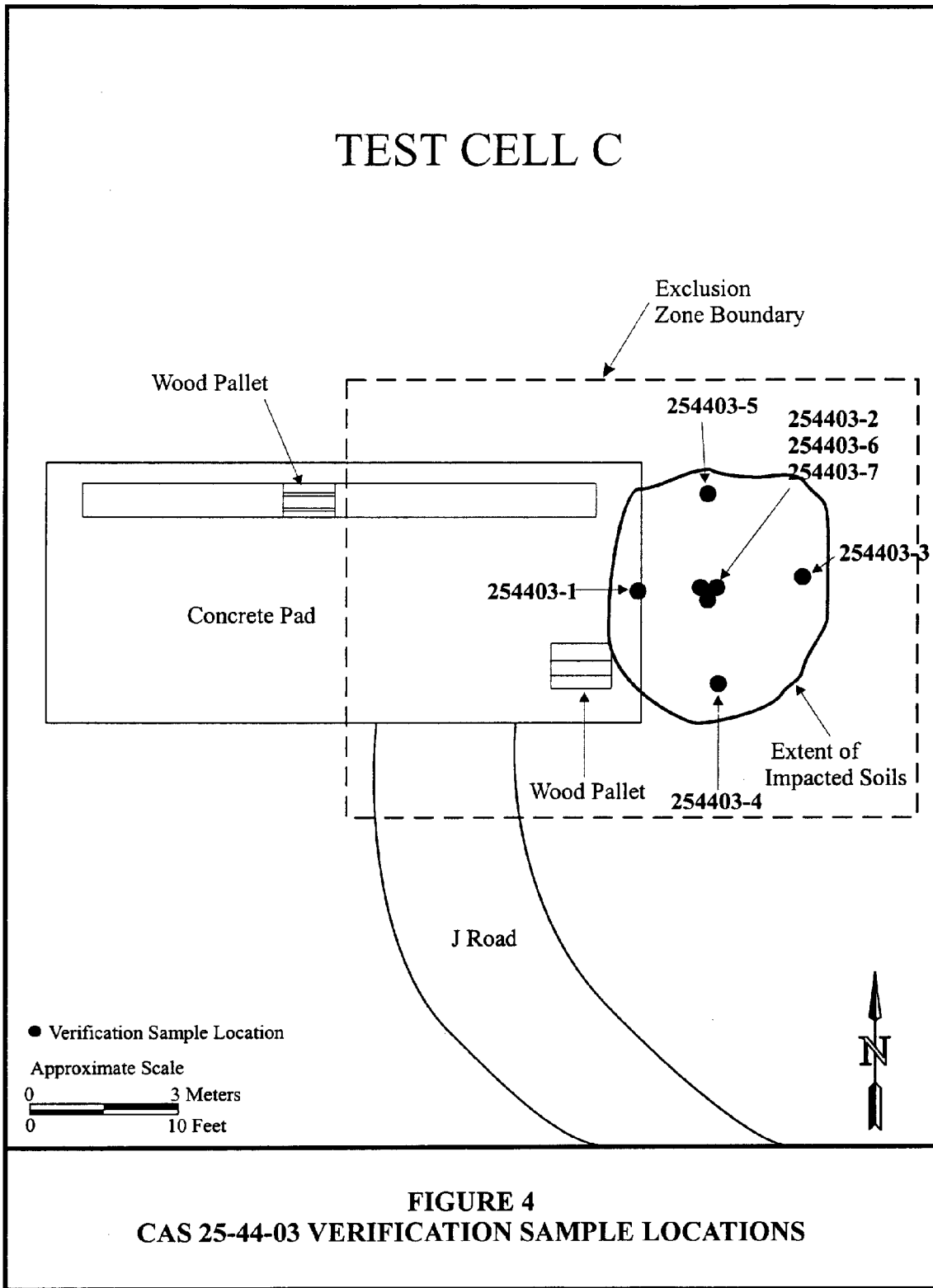


TABLE 2 - SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS, POLYCHLORINATED BIPHENYLS, AND RCRA^a METALS IN VERIFICATION SAMPLES

SAMPLE IDENTIFICATION	GASOLINE RANGE ^b (mg/kg) ^c	DIESEL RANGE ^b (mg/kg)	OIL RANGE ^b (mg/kg)	TOTAL PETROLEUM HYDROCARBONS ^b (mg/kg)	POLYCHLORINATED BIPHENYLS ^d (mg/kg)	LEAD ^e (mg/kg)	CADMIUM ^e (mg/kg)
Action Levels	100^f	100^f	100^f	100^f	1^g	750^h mg/kg	450^h mg/kg
CAS 25-44-02 (Sample Delivery Group 1596)							
254402-1	ND ⁱ	ND	ND	ND	NS ^j	NS	NS
254402-2	ND	ND	ND	ND	NS	NS	NS
254402-3	ND	ND	ND	ND	NS	NS	NS
254402-4	ND	ND	ND	ND	NS	NS	NS
254402-5	ND	ND	ND	ND	NS	NS	NS
254402-6	ND	ND	ND	ND	NS	NS	NS
CAS 25-44-03 (Sample Delivery Group 1580)							
254403-1	ND	ND	ND	ND	NS	NS	NS
254403-2	ND	ND	ND	ND	NS	NS	NS
254403-3	ND	ND	ND	ND	NS	NS	NS
254403-4	ND	ND	ND	ND	NS	NS	NS
254403-5	ND	ND	ND	ND	NS	NS	NS
254403-6	ND	ND	ND	ND	NS	NS	NS
254403-7	ND	ND	ND	ND	NS	NS	NS
CAS 25-25-02 (Sample Delivery Group V1596 and V1627)							
252502-1	ND	ND	ND	ND	0.870 and 0.630	NS	NS
252502-2	ND	ND	ND	ND	2.6	NS	NS
252502-3	ND	ND	ND	ND	54.0	NS	NS
252502-4	ND	ND	ND	ND	0.190 and 0.140	NS	NS
252502-5	ND	ND	ND	ND	0.120 and 0.240	NS	NS
252502-1*	NS	NS	NS	NS	0.960	NS	NS
252502-2*	NS	NS	NS	NS	0.430	NS	NS
252502-3*	NS	NS	NS	NS	0.064	NS	NS
252502-4*	NS	NS	NS	NS	0.590	NS	NS
252502-5*	NS	NS	NS	NS	0.480	NS	NS

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS, POLYCHLORINATED BIPHENYLS, AND RCRA^a METALS IN VERIFICATION SAMPLES (continued)

SAMPLE IDENTIFICATION	GASOLINE RANGE ^b (mg/kg) ^c	DIESEL RANGE ^b (mg/kg)	OIL RANGE ^b (mg/kg)	TOTAL PETROLEUM HYDROCARBONS ^b (mg/kg)	POLYCHLORINATED BIPHENYLS ^d (mg/kg)	LEAD ^e (mg/kg)	CADMIUM ^f (mg/kg)
Action Levels	100	100	100	100	1	750 mg/kg	450 mg/kg
CAS 25-25-03 (Sample Delivery Group 1565)							
252503-1	ND	ND	ND	ND	NS	NS	NS
252503-2	ND	ND	ND	ND	NS	NS	NS
252503-3	ND	ND	ND	ND	NS	NS	NS
252503-4	ND	NS	ND	ND	NS	NS	NS
252503-5	ND	57	530	590	NS	NS	NS
252503-1*	ND	ND	ND	ND	NS	NS	NS
CAS 25-25-04 (Sample Delivery Group V1581, V1609 and V1815)							
252504-1W	ND	ND	ND	ND	ND	ND	ND
252504-2W	ND	ND	ND	ND	ND	ND	ND
252504-3W	ND	ND	ND	ND	0.045	ND	ND
252504-4W	ND	ND	ND	ND	ND	ND	ND
252504-5W	ND	ND	ND	ND	ND	ND	ND
252504-1E	ND	ND	ND	ND	ND	ND	0.012 mg/L ^k
252504-2E	ND	ND	ND	ND	0.029	ND	ND
252504-3E	ND	ND	ND	ND	ND	ND	0.012 mg/L
252504-4E	ND	ND	ND	ND	ND	ND	ND
252504-5E	ND	ND	ND	ND	ND	ND	ND
252504-1*	ND	ND	ND	ND	NS	NS	NS
252504-2*	ND	ND	ND	ND	NS	NS	NS
252504-3*	ND	ND	ND	ND	NS	NS	NS
252504-4*	ND	ND	ND	ND	NS	NS	NS
252504-5*	ND	ND	ND	ND	NS	NS	NS
252504-6*	ND	ND	ND	ND	NS	NS	NS
252504-7*	ND	ND	ND	ND	NS	NS	NS
252504-8*	ND	ND	ND	ND	NS	NS	NS
252504-9*	ND	ND	ND	ND	NS	NS	NS
252504-10*	ND	ND	ND	ND	NS	NS	NS

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS, POLYCHLORINATED BIPHENYLS, AND RCRA² METALS IN VERIFICATION SAMPLES (continued)

SAMPLE IDENTIFICATION	GASOLINE RANGE ^b (mg/kg) ^c	DIESEL RANGE ^b (mg/kg)	OIL RANGE ^b (mg/kg)	TOTAL PETROLEUM HYDROCARBONS ^b (mg/kg)	POLYCHLORINATED BIPHENYLS ^d (mg/kg)	LEAD ^e (mg/kg)	CADMIUM ^e (mg/kg)
Action Levels	100	100	100	100	1	750 mg/kg	450 mg/kg
252504-11*	ND	ND	ND	ND	NS	NS	NS
252504-12*	ND	ND	ND	ND	NS	NS	NS
252504-V1	NS	NS	NS	NS	NS	5.1	ND
252504-V2	NS	NS	NS	NS	NS	3.6	ND
252504-V3	NS	NS	NS	NS	NS	4.0	ND
252504-V4	NS	NS	NS	NS	NS	4.7	ND
252504-V5	NS	NS	NS	NS	NS	4.1	ND
252504-V6	NS	NS	NS	NS	NS	4.8	ND
252504-V7	NS	NS	NS	NS	NS	3.5	ND
252504-V8	NS	NS	NS	NS	NS	4.5	ND
252504-V9	NS	NS	NS	NS	NS	4.1	ND
252504-V10	NS	NS	NS	NS	NS	4.6	ND
252504-V11	NS	NS	NS	NS	NS	5.8	0.05
CAS 25-25-05 (Sample Delivery Group V1581 and V1815)							
252505-1	ND	ND	ND	ND	NS	NS	NS
252505-2	ND	ND	68	68	NS	NS	NS
252505-3	ND	ND	ND	ND	NS	NS	NS
252505-4	ND	ND	ND	ND	NS	NS	NS
252505-5	ND	46	ND	46	NS	NS	ND
252505-6	ND	ND	ND	ND	NS	NS	ND
252505-7	ND	ND	ND	ND	NS	NS	ND
252505-8	ND	ND	ND	ND	NS	NS	ND
252505-9	ND	ND	ND	ND	NS	NS	ND
252505-10	ND	ND	ND	ND	NS	NS	ND
252505-V1	NS	NS	NS	NS	NS	4.6	ND
252505-V2	NS	NS	NS	NS	NS	5.3	0.05
252505-V3	NS	NS	NS	NS	NS	4.6	0.04
252505-V4	NS	NS	NS	NS	NS	4.3	ND

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS, POLYCHLORINATED BIPHENYLS, AND RCRA^a METALS IN VERIFICATION SAMPLES (continued)

SAMPLE IDENTIFICATION	GASOLINE RANGE ^b (mg/kg) ^c	DIESEL RANGE ^b (mg/kg)	OIL RANGE ^b (mg/kg)	TOTAL PETROLEUM HYDROCARBONS ^b (mg/kg)	POLYCHLORINATED BIPHENYLS ^d (mg/kg)	LEAD ^e (mg/kg)	CADMIUM ^e (mg/kg)
Action Levels	100	100	100	100	1	750 mg/kg	450 mg/kg
252505-V5	NS	NS	NS	NS	NS	5.1	0.04
252505-V6	NS	NS	NS	NS	NS	4.8	0.09
CAS 25-25-16 (from CAS 25-01-02) (Sample Delivery Group V1580)							
252516-1	ND	ND	ND	ND	NS	NS	NS
252516-2	ND	ND	ND	ND	NS	NS	NS
252516-3	ND	17	ND	17	NS	NS	NS
252516-4	ND	16	ND	16	NS	NS	NS
252516-5	ND	ND	14	14	NS	NS	NS

^a RCRA - Resource Conservation and Recovery Act

^b TPH - Total Petroleum Hydrocarbon full scan, gasoline, diesel, and waste oil by SW-846 8015 modified (EPA, 1996).

^c mg/kg - milligrams per kilogram.

^d PCBs - Polychlorinated Biphenyls by SW-846 8082 (EPA, 1996).

^e Total lead and cadmium by method SW-846 6010B (EPA, 1996).

^f Hydrocarbon action level of 100 mg/kg established by the State of Nevada (NAC, 2002b).

^g PCB action level established by 40 Code of Federal Regulation Section 761.61 (EPA, 2001).

^h Preliminary Remediation Goals used as action levels were established by U.S. EPA Region 9 (EPA, 2002).

ⁱ ND - Not Detected at the laboratory reporting limits.

^j NS - Not Sampled.

^k mg/L - milligrams per liter.

* Sample was collected from the excavation following the removal of additional soil.

any COCs present above action levels (DOE/NV, 2001). This site was closed by taking no further action.

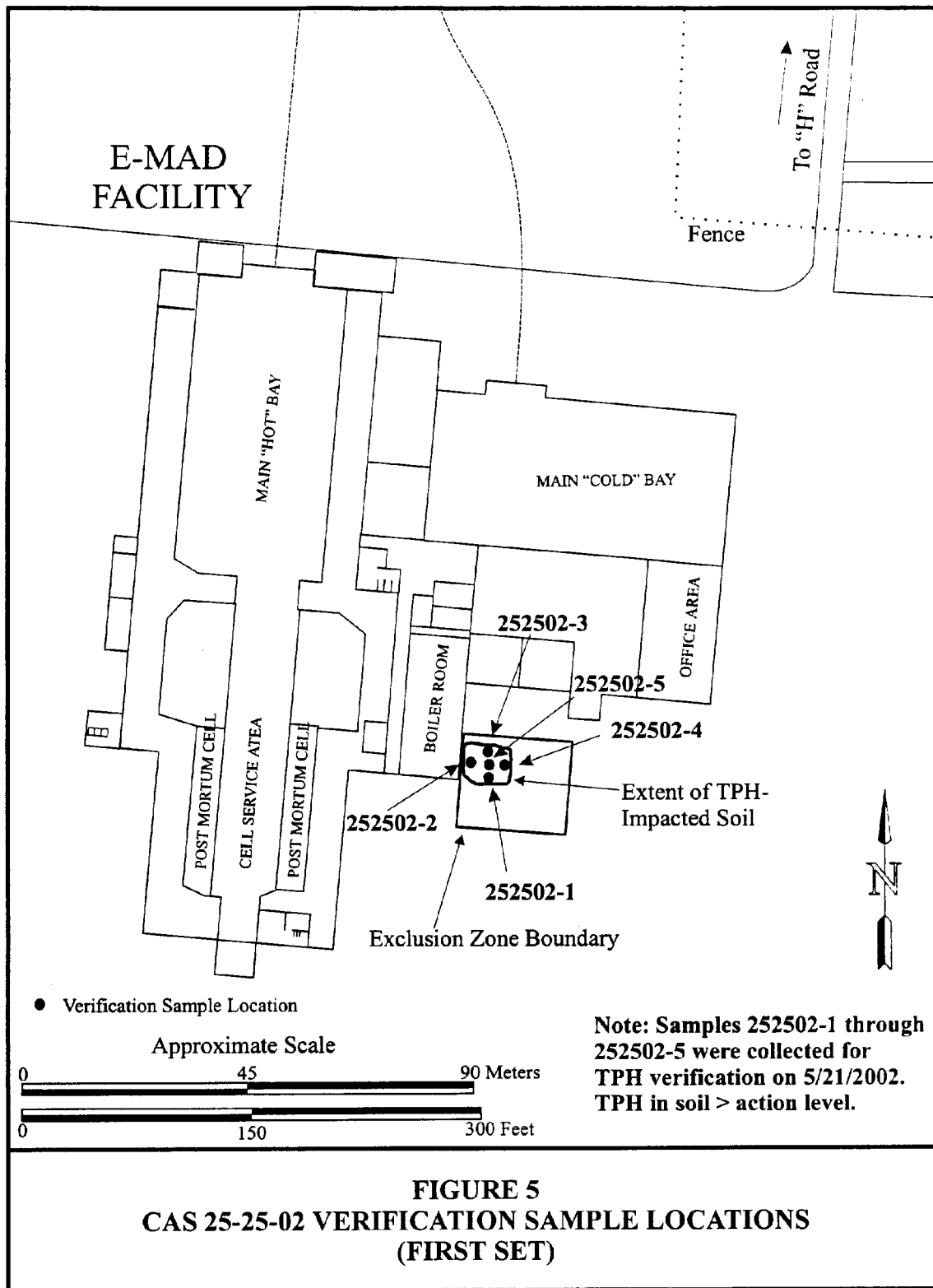
CAS 25-25-02, Oil Spill (Figures 5 and 6). This site consisted of an oil/fuel spill associated with leaking drums that had previously been removed. Analytical results for characterization samples showed TPH and PCBs as the COCs present at concentration greater than action levels (DOE/NV, 2001). This site was clean closed by excavation and removal of TPH- and PCB-impacted soil.

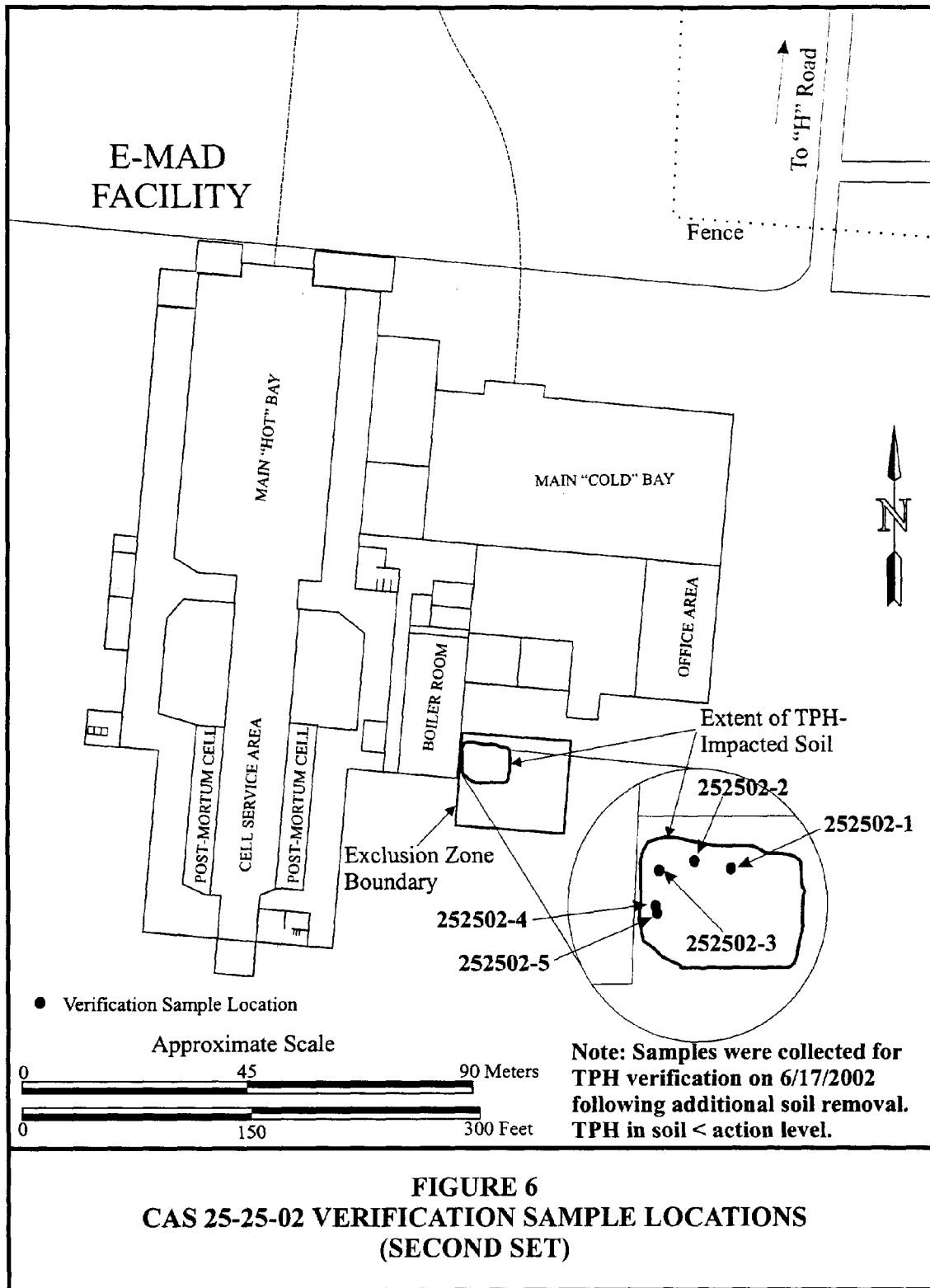
TPH- and PCB-impacted soil was excavated and transported to the NTS Area 6 Hydrocarbon Landfill for disposal on April 25 and 29, 2002. The NTS Area 6 Hydrocarbon Landfill permit allows disposal of soil contaminated with up to 10 mg/kg of PCB. Soil verification samples (252502-1, 252502-2, 252502-3, 252502-4, 252502-5) were collected on May 21, 2002, and submitted for TPH and PCB analysis. Results showed TPH levels less than action levels, but PCB levels above the action level of 1 mg/kg (U.S. Environmental Protection Agency [EPA], 2001) at two locations (252502-2 and 252502-3) at the bottom of the excavation. On June 5, 2002, additional PCB-impacted soil was excavated from the bottom of the excavation and disposed of at the NTS Area 6 Hydrocarbon Landfill. A second set of soil verification samples (252502-1, 252502-2, 252502-3, 252502-4, 252502-5) were collected on June 17, 2002, from the bottom of the excavation. Results showed PCB levels less than the regulatory limit of 1 mg/kg (EPA, 2001), verifying that the site was clean closed. The excavation was then backfilled with clean fill and wheel rolled with heavy equipment on May 27, 2002. Analytical results for both sets of verification samples are summarized in Table 2 and are included in Appendix B. Waste disposition documentation is included in Appendix D and photographs documenting the site closure activities in Appendix E.

CAS 25-25-03, Oil Spills (Figure 7). This site consisted of a spill adjacent to an over-turned drum. The source of the drum is unknown and the drum was removed prior to this corrective action. Analytical results for characterization samples showed TPH as the only COC present (DOE/NV, 2001). This site was clean closed by excavation of TPH-impacted soil.

TPH-impacted soil was excavated and transported to the Area 6 Hydrocarbon Landfill for disposal on April 24, 2002. Verification soil samples (252503-1, 252503-2, 252503-3, 252503-4, 252503-5) were collected on April 24, 2002, and analyzed for TPH. Analytical results showed TPH levels greater than the action level at one location in the center of the bottom of the excavation. On May 14, 2002, excavation activities resumed at the site removing additional TPH-impacted soil. On May 21, 2002, and additional verification soil sample (252503-1) was collected from the center of the bottom of the expanded excavation. Analytical results showed TPH concentrations less than the action level of 100 mg/kg (NAC, 2002b), verifying that the site was clean closed. The excavation was then backfilled with clean fill and wheel rolled with heavy equipment on June 6, 2002. Analytical results for the verification samples are summarized in Table 2 and are included in Appendix B. Waste disposition documentation is included in Appendix D and photographs documenting the site closure activities in Appendix E.

CAS 25-25-04, Oil Spills (Figures 8, 9 and 10). This site consisted of an area on the north side of the Engine Maintenance, Assembly, and Disassembly (E-MAD) facility, where used oils and cooling fluids from metal machining operations had been poured directly onto the ground.





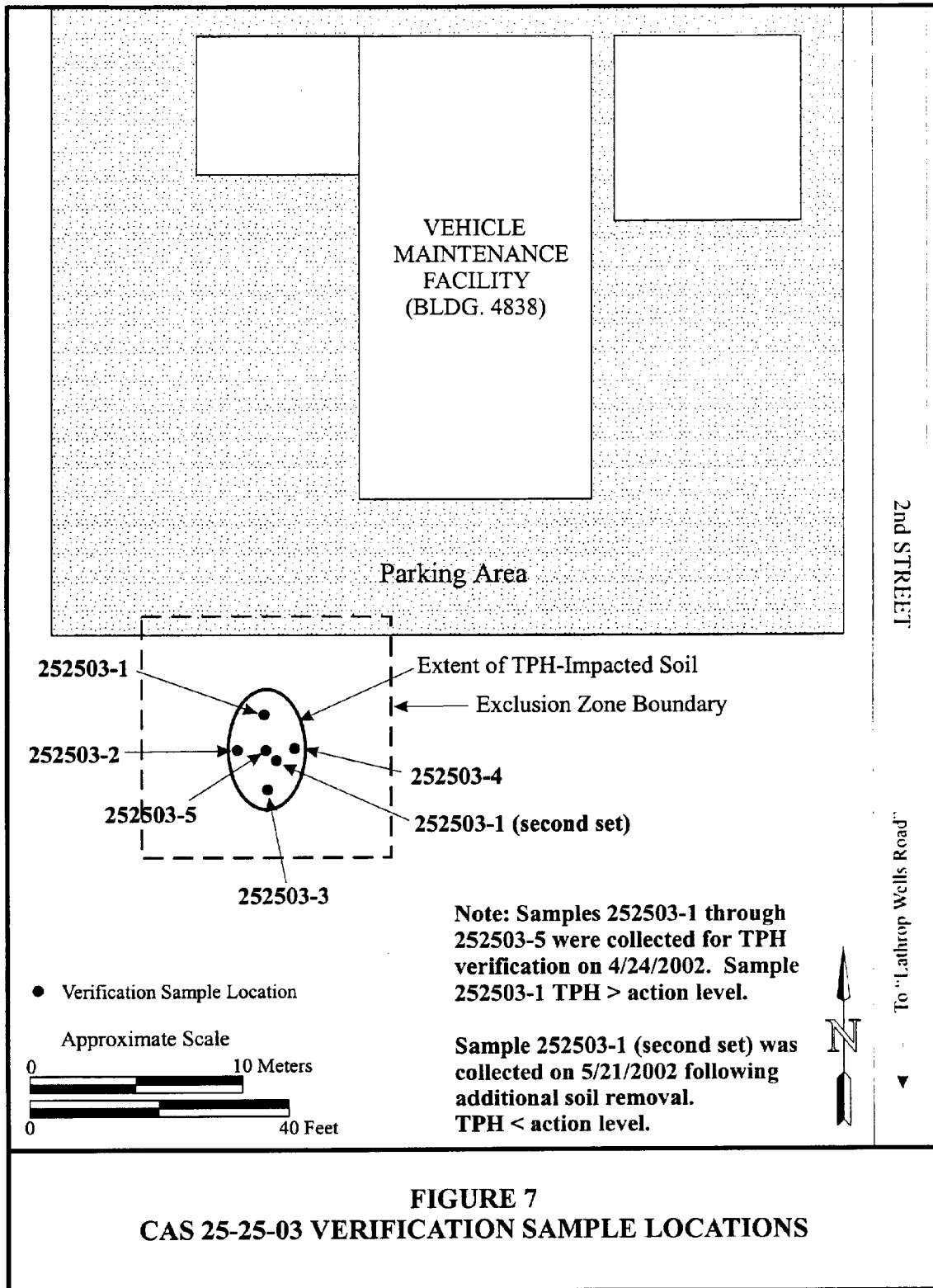


FIGURE 7
CAS 25-25-03 VERIFICATION SAMPLE LOCATIONS

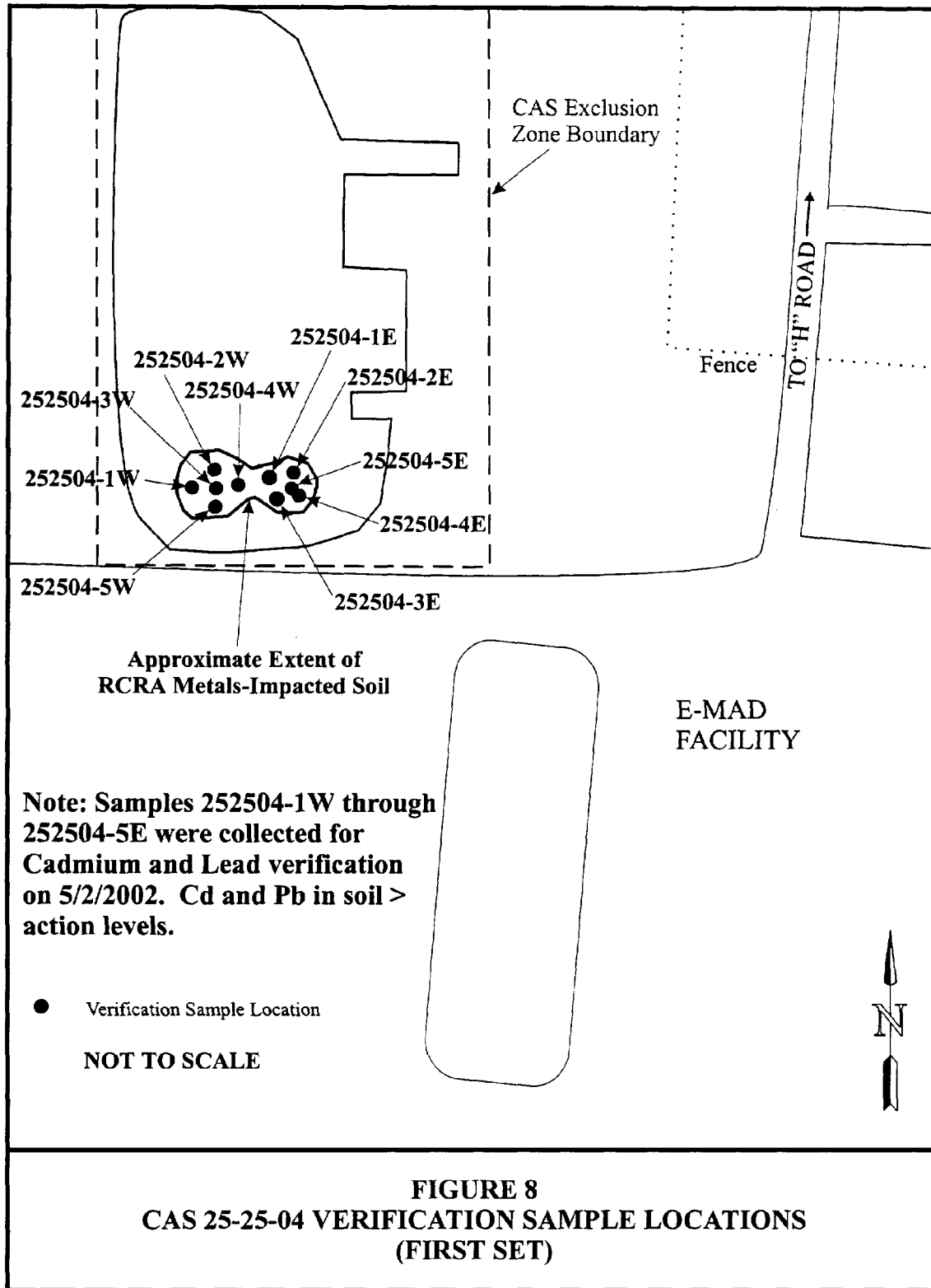
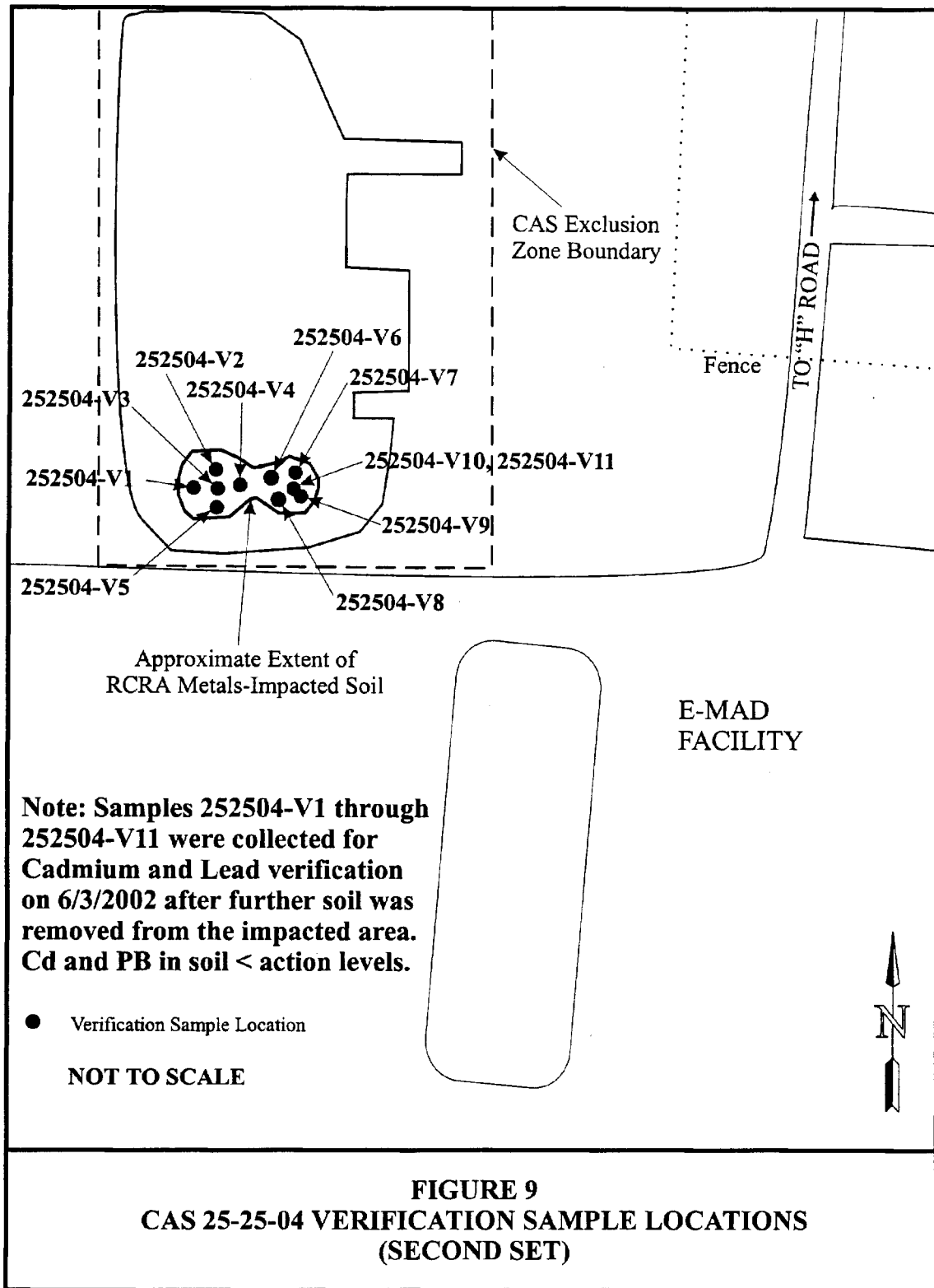
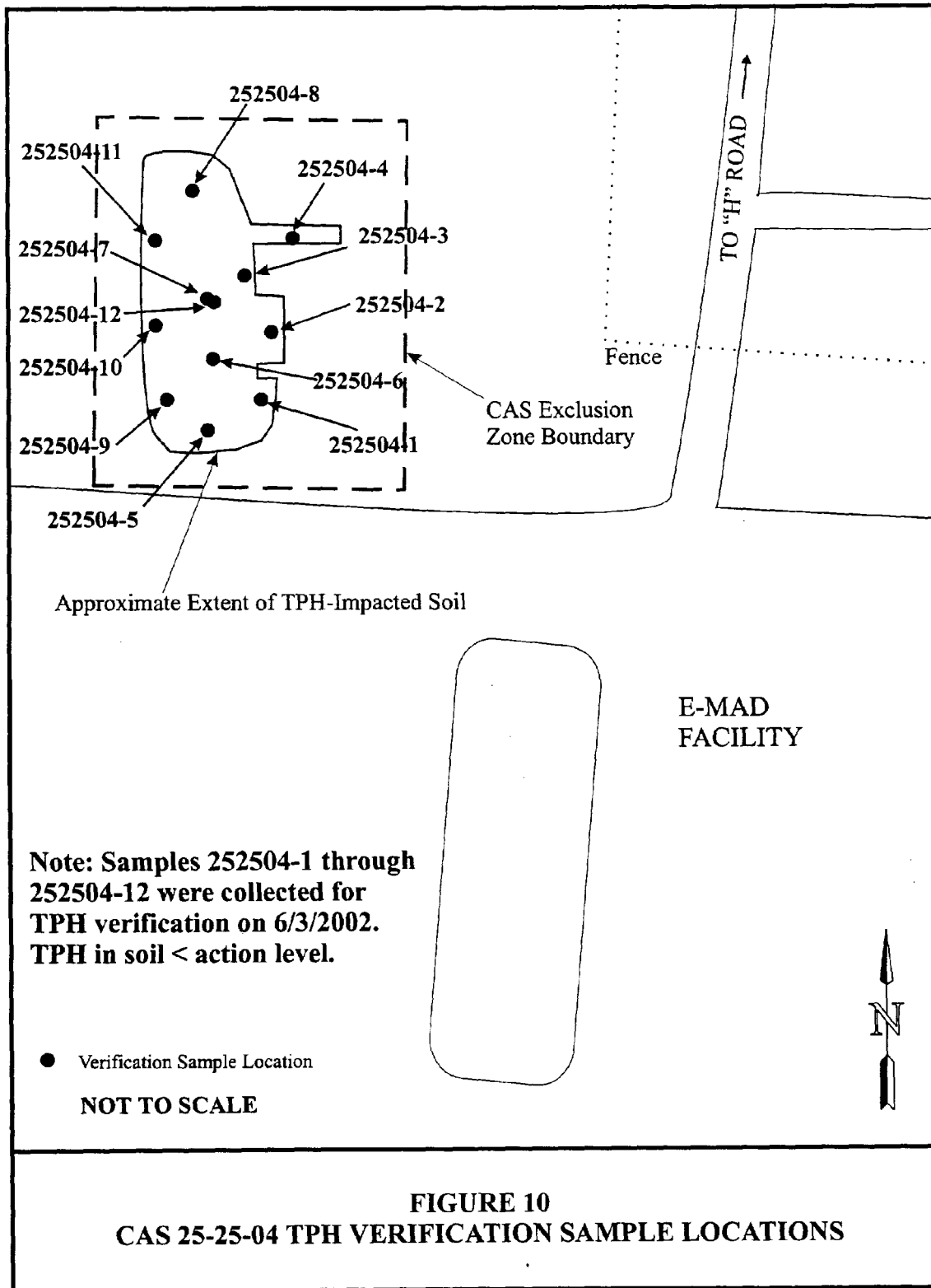


FIGURE 8
CAS 25-25-04 VERIFICATION SAMPLE LOCATIONS
(FIRST SET)





Analytical results for characterization samples showed TPH, PCBs, and RCRA metals (cadmium and lead) as COCs. PCBs and metal COCs were present in soil confined to a small area located at the south end of the CAS (Figure 9) (DOE/NV, 2001). This site was clean closed by excavation of TPH, PCB, and RCRA metals-impacted soil.

Soil contaminated with TPH, PCBs, lead, and cadmium was excavated from an area measuring approximately 1.2 by 1.8 meters (m) (4 by 6 feet [ft]) located at the south end of the CAS. The excavated soil was placed into fourteen 208-liter (L) (55-gallon [gal]) drums that were moved into a 90-Day Accumulation Area for storage pending off site disposal. On May 1 and 2, 2002, the 14 drums of hazardous waste were shipped off site to an approved permitted hazardous waste disposal facility. Verification soil samples (252504-1W, 252504-2W, 252504-3W, 252504-4W, 252504-5W, 252504-1E, 252504-2E, 252504-3E, 252504-4E, 252504-5E) were collected on May 2, 2002, from the excavation and analyzed for TPH, PCBs, TCLP lead and TCLP cadmium. Additional soil verification samples (252504-V1 through 252504-V11) were collected on December 13, 2002, and analyzed for total lead and total cadmium. Results showed no COCs above action limits (NAC, 2002b; EPA, 2001; EPA, 2002), verifying that the site was clean closed. Analytical results for the verification samples are summarized in Table 2 and are included in Appendix B. Waste disposition documentation is included in Appendix D and photographs documenting the site closure activities in Appendix E.

Between May 21-30, 2002, TPH-impacted soil was excavated from the remainder of the CAS and transported to the Area 6 Hydrocarbon Landfill for disposal. Verification soil samples (252504-1, 252504-2, 252504-3, 252504-4, 252504-5, 252504-6, 252504-7, 252504-8, 252504-9, 252504-10, 252504-11, 252504-12) were collected on June 3, 2002, from the excavation and analyzed for TPH. TPH results for all samples were less than the action level (100 mg/kg) (NAC, 2002b), verifying that the site was clean closed. The entire excavation was then backfilled with clean fill and wheel rolled with heavy equipment on June 18, 2002. Analytical results for the verification samples are summarized in Table 2 and are included in Appendix B. Waste disposition documentation is included in Appendix D and photographs documenting the site closure activities in Appendix E.

CAS 25-25-05, Oil Spills (Figures 11 and 12). This site consisted of oil and hydraulic fluid spills located where heavy equipment was once staged. Analytical results for characterization samples showed TPH and cadmium as COCs. Cadmium contamination was confined to the east end of the CAS (DOE/NV, 2001). This site was clean closed by excavation of TPH- and cadmium-impacted soil.

TPH-impacted soil was excavated and transported to the Area 6 Hydrocarbon Landfill for disposal on April 23 and 29, 2002. Verification soil samples (252505-1, 252505-2, 252505-3, 252505-4, 252505-5) were collected from the excavation on May 7, 2002, and analyzed for TPH. Results showed TPH levels less than the action level, verifying that the site was clean closed.

On April 29, 2002, cadmium-impacted soil was excavated from the east end of the CAS and placed in four 208-L (55-gal) drums. The drums were moved into the 90-Day Accumulation Area for storage pending off site disposal. The extent of the excavation was guided by field screening results for cadmium using a portable hand-held X-Ray Fluorescence instrument with a detection limit of 50 mg/kg. Verification soil samples (252505-6, 252505-7, 252505-8,

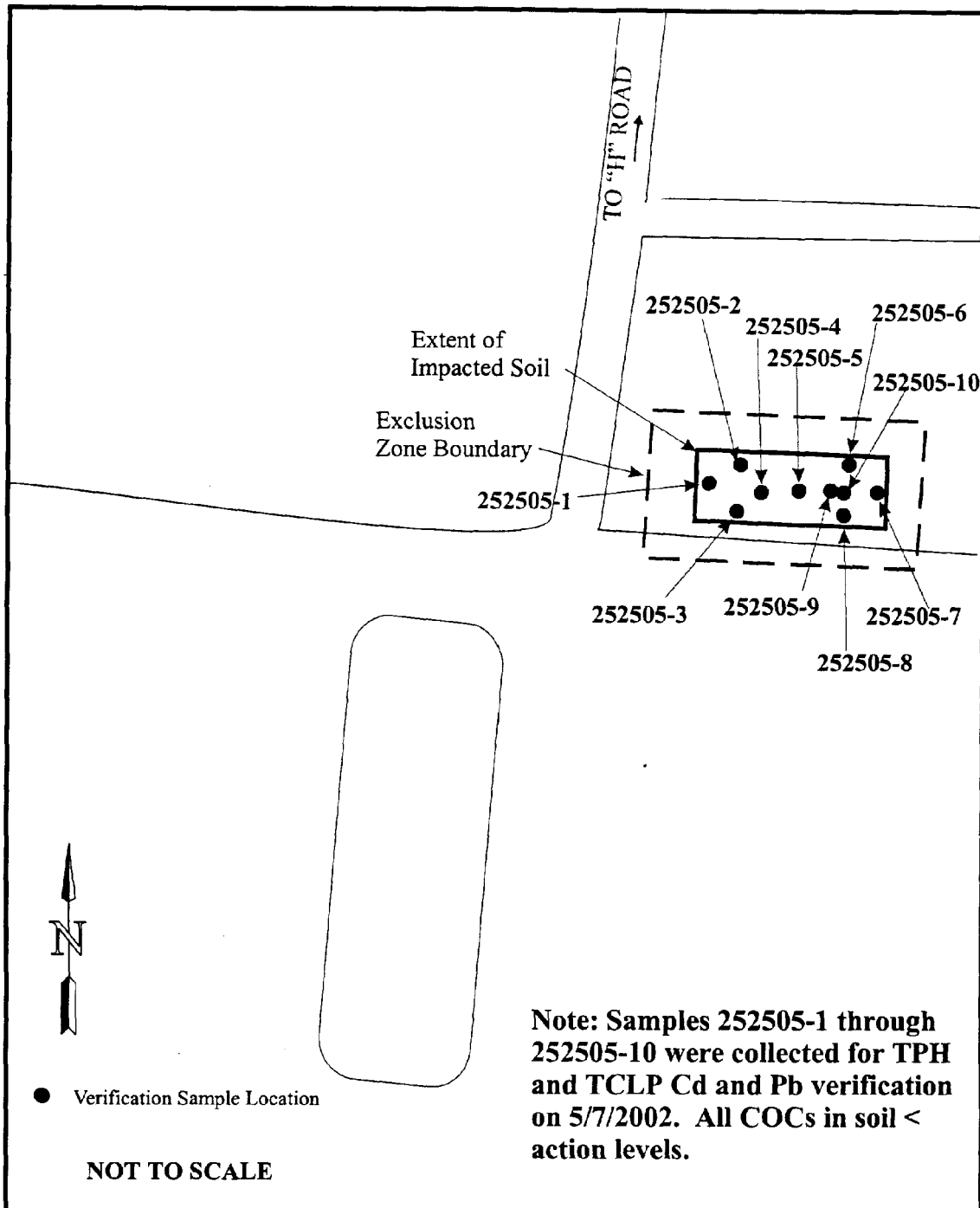
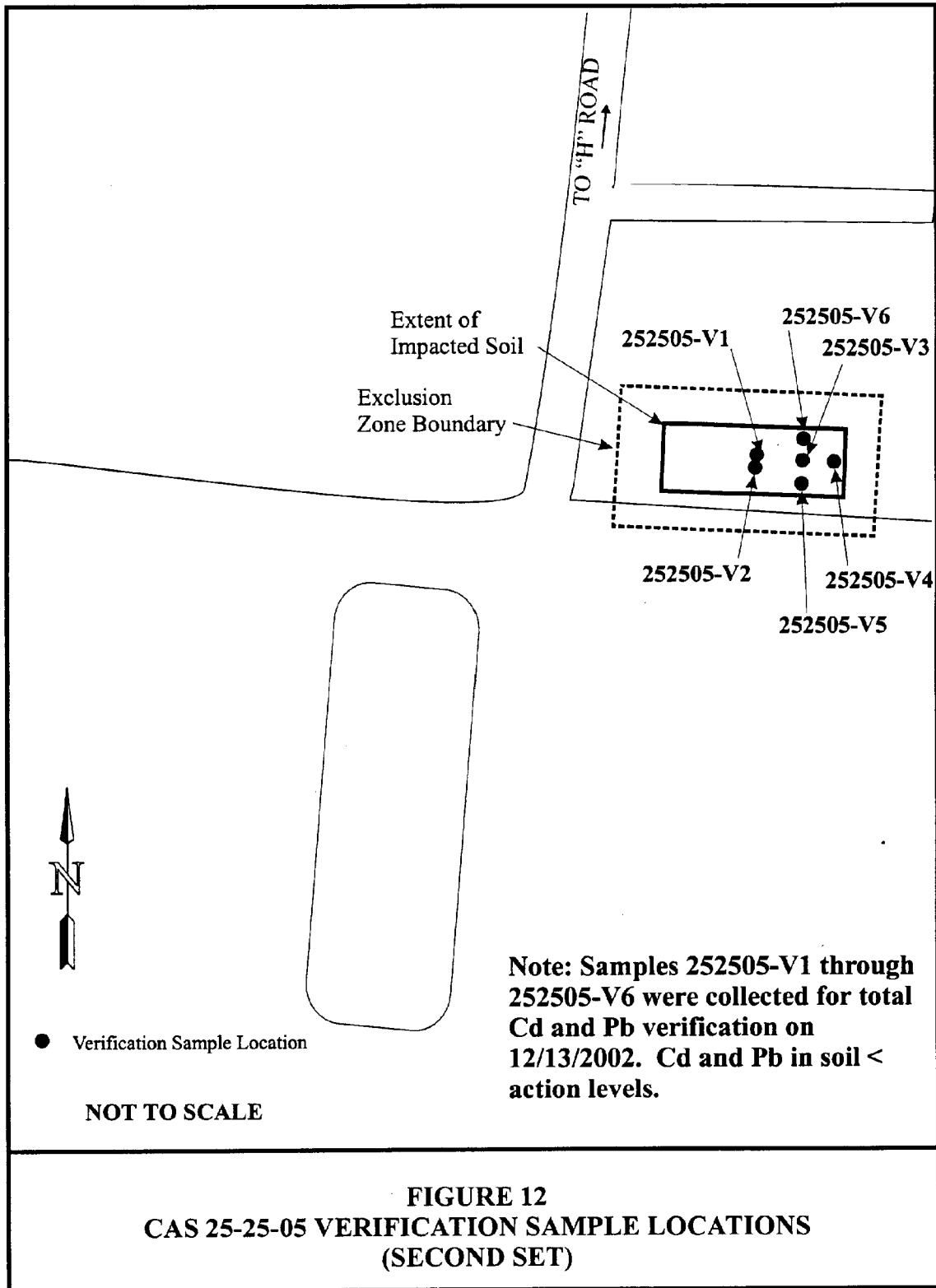


FIGURE 11
CAS 25-25-05 VERIFICATION SAMPLE LOCATIONS
(FIRST SET)



252505-9, 252505-10) were collected from the excavation on May 7, 2002, and analyzed for TPH and TCLP cadmium. Additional verification samples (252505-V1 through 252505-V6) were collected on December 13, 2002, and analyzed for total lead and total cadmium. Results from the two sets of samples showed TPH, lead and cadmium less than action levels (NAC, 2002b; EPA, 2002), verifying that the site was clean closed. The excavation was then backfilled with clean fill and wheel rolled with heavy equipment on May 28, 2002. Analytical results for the verification samples are summarized in Table 2 and are included in Appendix B. Waste disposition documentation is included in Appendix D and photographs documenting the site closure activities in Appendix E.

CAS 25-25-06, Oil Spills. This site is listed as diesel fuel stains beneath the location of two generators that had been removed. Analytical results for characterization samples show no evidence of any COCs (DOE/NV, 2001). This site was closed by taking no further action.

CAS 25-25-07, Hydraulic Oil Spill(s). This site consisted of a hydraulic oil spill that was released from a tunnel-boring machine left onsite when X-Tunnel was placed on inactive status. Due to the fact that TPH is the only COC present and that site conditions limit access and successful removal of contaminants, this CAS has been closed in place with administrative controls; i.e., use restrictions implemented. An "A through K" risk assessment (NAC, 2002a) of the site has been provided (Section 4.2), and use restrictions have been implemented. Use restriction information is provided in Appendix C.

CAS 25-25-08, Hydraulic Oil Spill(s). This site consisted of a hydraulic oil spill that was released from a hydraulic oil pump left onsite when Y-Tunnel was placed on inactive status. Due to the fact that TPH is the only COC present and that site conditions limit access and successful removal of contaminants, this CAS has been closed in place with administrative controls; i.e., use restrictions implemented. An "A through K" risk assessment (NAC, 2002a) of the site has been made (Section 4.2) and use restrictions have been implemented. Use restriction information is provided in Appendix C.

CAS 25-25-16, Diesel Spill (from 25-01-02) (Figure 13). This site consisted of diesel fuel spill from an aboveground storage tank located near Building 3320 at Engine Test Stand-1. The tank was removed prior to these corrective actions. Analytical results showed TPH as the only COC (DOE/NV, 2001) present. This site was clean closed by excavation of TPH-impacted soil.

On May 6, 2002, hydrocarbon-impacted soil was excavated and transported to the Area 6 Hydrocarbon Landfill for disposal. Verification soil samples (252516-1, 252516-2, 252516-3, 252516-4, 252516-5) were collected on May 7, 2002, and analyzed for TPH. Results showed TPH levels less than the action level (100 mg/kg) (NAC, 2002b), verifying that the site was clean closed. The excavation was then backfilled with clean fill and wheel rolled with heavy equipment on May 28, 2002. Analytical results for the verification samples are summarized in Table 2 and are included in Appendix B. Waste disposition documentation is included in Appendix D and photographs documenting the site closure activities in Appendix E.

CAS 25-25-17, Subsurface Hydraulic Oil Spill. This site is associated with the historical operations of a vacuum pump oil recovery system at the E-MAD facility. Due to the fact that TPH is the only COC present and that site conditions limit access and successful removal of contaminants, this CAS has been closed in place with administrative controls; i.e., use

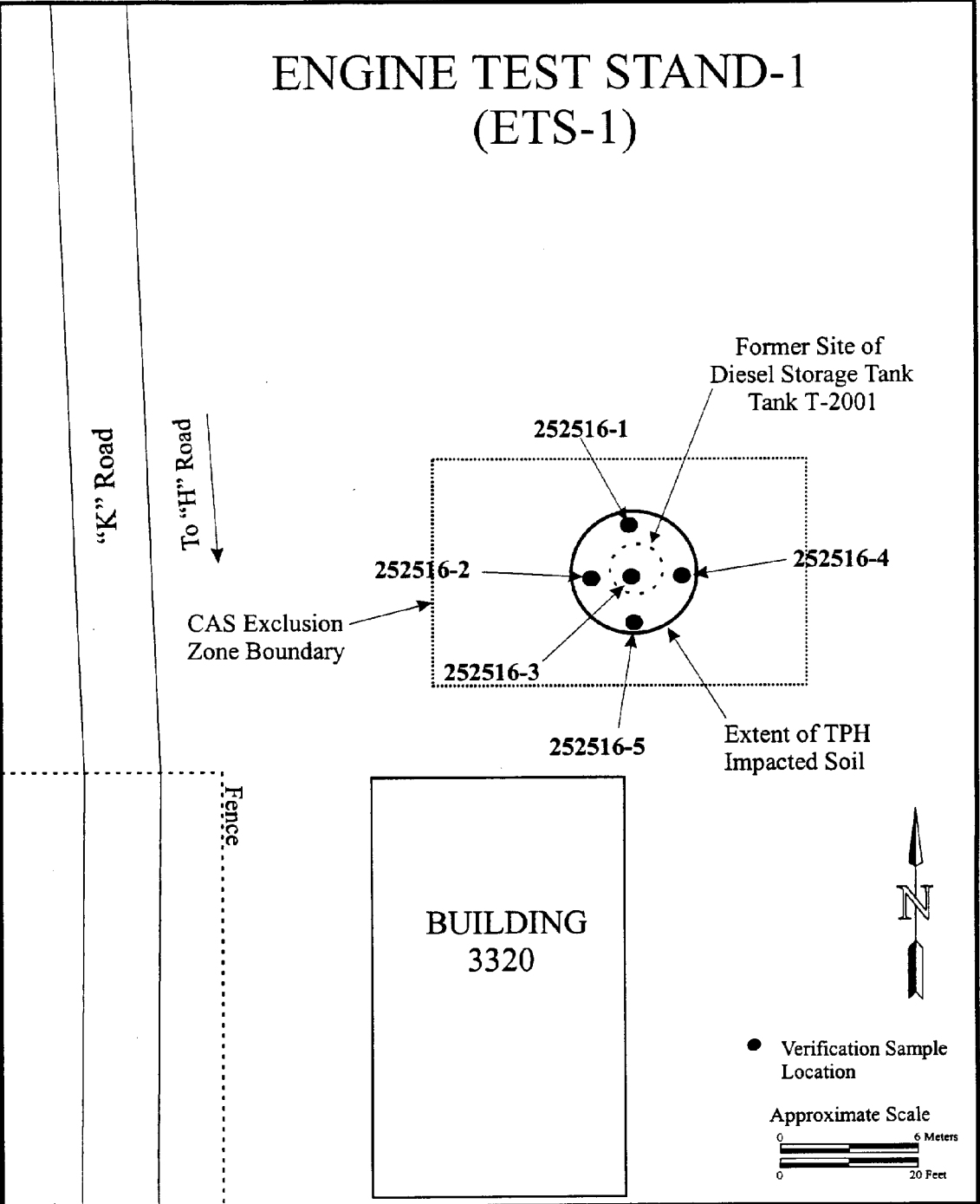


FIGURE 13
CAS 25-25-16 (from CAS 25-01-02) VERIFICATION
SAMPLE LOCATIONS

restrictions implemented. An "A through K" risk assessment (NAC, 2002a) of the site has been made (Section 4.2) and use restrictions have been implemented. Use restriction information is provided in Appendix C.

2.2 DEVIATIONS FROM SAFER PLAN AS APPROVED

There were no deviations from the NDEP-approved SAFER plan (DOE/NV, 2001).

2.3 CORRECTIVE ACTION SCHEDULE AS COMPLETED

The corrective action field activities began on April 23, 2002, and were completed on June 28, 2002. A corrective action schedule as completed is provided in Figure 14.

2.4 SITE PLAN/SURVEY PLAT

Because engineered construction was not required as part of this closure, as-built drawings are not included in this CR. Use restriction information forms and Figures showing the location and corner coordinates for sites closed administratively with use restrictions implemented are provided in Appendix C of this CR.

ACTIVITY DESCRIPTION	Activity Duration (days)	Actual Start	Actual Finish	MONTHS																			
				APRIL 2002			MAY 2002			JUNE 2002													
CAU 398 Area 25 Spill Sites, Nevada Test Site																							
Prepare for and Conduct Readiness Review	1	18 April 2002	18 April 2002				▼																
Pre-Field Briefing	1	23 April 2002	23 April 2002					▼															
Mobilize Equipment and Labor	1	23 April 2002	23 April 2002					▼															
Perform Closure Work as Described in Approved SAFER Plan	65	23 April 2002	17 June 2002							▲	→	→	→	→	→	→	→	→	→	→	→	→	→
Collect/Submit Verification Samples to Lab, Backfill Excavations	54	24 April 2002	27 June 2002							▲	→	→	→	→	→	→	→	→	→	→	→	→	→
FIGURE 14 - CAU 398 CLOSURE SCHEDULE AS COMPLETED																							

3.0 WASTE DISPOSITION

Wastes generated during the closure of CAU 398: Area 25 Spill Sites were disposed of as follows:

- CAS 25-44-01. Approximately 8.2 m³ (9 yd³) of railroad beading and construction debris was removed from the site and transported to the Area 9, U10C Landfill.
- CAS 25-44-02. Approximately 25.6 m³ (28 yd³) of TPH-impacted soil was excavated and transported to the NTS Area 6 Hydrocarbon Landfill for disposal.
- CAS 25-44-03. Approximately 23.8 m³ (26 yd³) of TPH-impacted soil was excavated and transported to the NTS Area 6 Hydrocarbon Landfill for disposal.
- CAS 25-25-02. Approximately 12.8 m³ (14 yd³) of TPH- and PCB-impacted soil was excavated and transported to the NTS Area 6 Hydrocarbon Landfill for disposal. Four drums of PCB-impacted soil were generated and transported to a 90-Day Area for temporary storage. The drums were shipped offsite to Safety-Kleen on June 27, 2002, for disposal.
- CAS 25-25-03. Approximately 1.8 m³ (2 yd³) of TPH-impacted soil was excavated and transported to the NTS Area 6 Hydrocarbon Landfill for disposal.
- CAS 25-25-04. Approximately 182.9 m³ (200 yd³) of TPH-impacted soil was excavated and transported to the NTS Area 6 Hydrocarbon Landfill for disposal. Fourteen drums of TPH-, PCB-, lead-, and cadmium-impacted soil were generated and transported to a 90-Day Area for temporary storage. The drums were shipped offsite to Safety-Kleen on June 27, 2002, for disposal.
- CAS 25-25-05. Approximately 21.0 m³ (23 yd³) of TPH-impacted soil was excavated and transported to the NTS Area 6 Hydrocarbon Landfill for disposal. Four drums of TPH- and cadmium-impacted soil were generated and transported to a 90-Day Area for temporary storage. The drums were shipped offsite to Safety-Kleen on June 27, 2002, for disposal.
- CAS 25-25-16 (from CAS 25-01-02). Approximately 16.5 m³ (18 yd³) of TPH-impacted soil was excavated and transported to the NTS Area 6 Hydrocarbon Landfill for disposal.

A total of approximately 245 m³ (320 yd³) of impacted soil was excavated and removed from CAU 398 during closure activities from April 23 to June 28, 2002. Waste disposition records are provided in Appendix D.

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4.0 CLOSURE VERIFICATION RESULTS

Site closure was verified by collecting verification soil samples from each CAS that was clean closed. A total of 83 verification samples were collected from the seven clean closed CASs. All verification samples were collected with clean disposable plastic scoops, placed in labeled sample containers, and secured with custody seals. The sample containers were then placed on ice in a cooler, transported under chain of custody to the BN Sample Management group in Mercury, Nevada, and shipped to an off site laboratory for analysis. Analytical results for all collected verification samples are summarized in Table 2 and included in Appendix B.

The analytical results verify that no COCs at levels above action levels remain in the ground at the seven CASs that were clean closed by excavation. The action level for TPH in soil is 100 mg/kg as established by the state of Nevada (NAC, 2002b). Action levels for lead and cadmium in industrial soils are 750 mg/kg and 450 mg/kg, respectively, as established by EPA Region 9 (EPA, 2002). The action level for PCBs in soil is 1 mg/kg as established by the Toxic Substance Control Act (EPA, 2001). The analytical results are summarized in Table 2, and the analytical reports are included in Appendix B.

4.1 DATA QUALITY ASSESSMENT

CAU 398 closure activities were performed to the criteria specified in the DQOs provided in the NDEP-approved CAU 398 SAFER Plan (DOE/NV, 2001) and in Appendix A of this CR. The DQOs primary model was the actual scenario for the conditions at the spill sites in Area 25. The proposed activities are based on the assumption that diesel and oil range petroleum hydrocarbons are the prevalent COCs at the sites. The petroleum hydrocarbons are also assumed to act as a carrier for the other COCs which will not extend beyond the limits of the petroleum hydrocarbons. All the sites are expected to fit the primary Conceptual Site Model (CSM) presented in the DQOs (DOE/NV, 2001; Appendix A), with minor variations caused by site-specific preferential pathways.

During collection of all verification soil sample, standard quality assurance/quality control (QA/QC) samples were also collected; e.g., one field duplicate per 20 samples submitted blind to the analytical laboratory for analysis. Also, the analytical laboratory followed standard QA/QC procedures during sample analysis. This included matrix spike/matrix spike duplicate and spiked surrogate percent recovery analysis (Appendix B).

4.2 USE RESTRICTIONS

The three CASs listed below have been closed in place administratively. The only COC at these sites is TPH as diesel/oil. Given specific site condition (e.g., location of utilities, limited space, depth to bedrock, and poor lighting) and the associated problems with removing the TPH-impacted soil and the safety risk to personnel, a risk assessment of each of these sites, based on the "A through K" evaluation as presented in NAC Section 445A.227 was made (NAC, 2002a).

Use restrictions were implemented for the following CASs:

- CAS 25-25-07, Hydraulic Oil Spill(s)
- CAS 25-25-08, Hydraulic Oil Spill(s)
- CAS 25-25-17, Subsurface Hydraulic Oil Spill

CAU Use Restriction Information forms were completed for each of the three CASs and are included in Appendix C. This form includes the CAU number and site description, post-closure monitoring requirements, and survey coordinates of the unit boundaries. Future use is restricted from any activity that may alter or modify the containment controls as approved by the NDEP, unless appropriate concurrence is obtained in advance. The information on the completed form will be added to the U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office (NNSA/NSO) Facility Information Management System and the NNSA/NSO online Common Data Repository. The Original CAU Use Restriction Information forms are filed in the CAU 398 project file. A copy of each form is located in Appendix C of this report.

4.2.1 “A THROUGH K” EVALUATION

Analytical results showed TPH concentration in soil exceeded the state action level of 100 mg/kg at three CASs. To close these sites in place with administrative controls, a risk evaluation based on the eleven factors that are listed as “A through K” in the Section 445A.227 of the NAC (NAC, 2002a) was performed. This section provides the “A through K” evaluation required under NAC 445A.227 (NAC, 2002a) for the three CASs listed above.

4.2.1.1 CAS 25-25-07, Hydraulic Oil Spill(s) “A Through K” Evaluation

Depth of Groundwater (A)

Groundwater is approximately 352 m (1,155 ft) below ground surface (bgs). The estimated depth is taken from the regional general potentiometric surface map provided in the U.S. Geological Survey Water Resources Investigations Report “Summary of Hydrogeologic Controls on Ground-Water Flow at the Nevada Test Site, Nye County, Nevada (Laczniak et. al., 1996) and a letter from the Defense Nuclear Agency (Harris-West, 1992) on the elevations of the X-Tunnel.

Distance to Irrigation or Drinking Water Wells (B)

The nearest drinking water supply is Water Well J-12, which is approximately 9.6 kilometers (km) (6 miles [mi]) east-southeast of the site. The static water level in the well is approximately 225 m (739 ft) bgs (DOE/NV, 1996).

Type of Soil that is Contaminated (C)

The site is located inside X-Tunnel on the south side of Little Skull Mountain. The tunnel was drilled out of bedrock and a thin layer of drilling residue currently covers the tunnel floor. The drilling residue consists of sand with varying amounts of gravel and silt and is approximately 15 centimeters (cm) (6 inches [in]) thick. Bedrock underlies this layer at depths of 15 cm (6 in) bgs and consists of a hard, competent tuff.

Annual Precipitation (D)

Average annual precipitation for valleys in the South-Central Great Basin ranges from 7.6 to 15 cm (3 to 6 in) and the annual evaporation is roughly 5 to 25 times the annual precipitation, (Winograd and Thordarson, 1975). The high evaporation and low precipitation rates create an negative water balance for the area. However, the CAS is located inside X-Tunnel and receives no direct precipitation; therefore, no driving force associated with precipitation is available to mobilize COCs vertically.

Type of Waste or Substance Released (E)

The spill is non-PCB hydraulic fluid.

Extent of Contamination (F)

The vertical extent of the impacted area does not extend deeper than the bedrock, which is approximately 15 cm (6 in) bgs. Hydrocarbons were detected at concentrations up to 100,000 mg/kg. Due to limited site access the lateral extent of the hydrocarbon contamination was not determined, but is estimated to be approximately 4 by 1.5 m (13 by 5 ft) and 15 cm (6 in) deep.

Present and Potential Land Use (G)

CAS 25-25-07 is located inside X-Tunnel on the south side of Little Skull Mountain, located on NTS which is a restricted area that is guarded on a 24-hour, 365-day per year basis. Unauthorized personnel are not admitted to the NTS. X-Tunnel is currently an inactive facility and is locked with access controlled by the BN Operations Center group. There are no plans to change the future land use of the facility; future use is expected to remain the same. A land use restriction has been implemented for this CAS.

Preferred Routes of Migration (H)

Migration of the hydraulic fluid from the site is not expected to occur. Surface migration is unlikely because the fluid remaining in the soil is located at a depth of approximately 15 cm (6 in) bgs. Additional vertical migration of hydrocarbons downward due to gravity is not likely because of the bedrock barrier beneath the site. The site does not have an exposure pathway because all impacted soil is below the ground surface inside X-Tunnel.

Location of Structures of Impediments (I)

CAS 25-25-07 is located inside X-Tunnel on the South side of Little Skull Mountain. X-Tunnel is currently inactive. CAS 25-25-07 is located adjacent to an escape drift of X-Tunnel. Lateral and vertical impediments consist of bedrock that is located at 15 cm (6 in) bgs.

Potential for a Hazard Related to Fire, Vapor, or Explosion (J)

The potential for fire, vapor ignition, or explosion as a result of the hydraulic fluid release is low due to low volatility of hydraulic fluid and the absence of ignition sources within the tunnel.

Other Information Specific to the Site (k)

The following are additional factors specific to the site which should be considered in the evaluation for closure:

- Material contaminated with hydraulic fluid present at the site would be difficult to remove by excavation due to the thickness of contaminated material and limited site

access. The contaminated material is 15 cm (6 in) or less thick and overlies hard bedrock making it difficult to excavate cleanly using a backhoe. Also, the contaminated material is located in a narrow area of the tunnel which limits site access and working area.

- The CAS is located inside X-Tunnel with no direct exposure to precipitation, which eliminates hydrocarbon migration caused by infiltration of precipitation.
- The CAS is located within the secured boundaries of the NTS, which is a restricted area that is guarded on a 24-hour, 365-day per year basis. Unauthorized personnel are not admitted to the NTS, eliminating the potential of personnel contacting site contaminants. The likelihood that the site will be used for future private use is very low.

4.2.1.2 CAS 25-25-08, Hydraulic Oil Spill(s) A Through K Evaluation

Depth of Groundwater (A)

Groundwater is approximately 351 m (1,154 ft) bgs. The estimated depth is taken from the regional general potentiometric surface map provided in the U.S. Geological Survey Water Resources Investigations Report (Laczniak et. al., 1996) and a letter from the Defense Nuclear Agency (Harris-West, 1992) on the elevations of Y-Tunnel.

Distance to Irrigation or Drinking Water Wells (B)

The nearest drinking water supply is Water Well J-12, which is approximately 9.6 km (6 mi) east-southeast of the site. The static water level in this well is approximately 225 m (739 ft) bgs (DOE/NV, 1996).

Type of Soil that is Contaminated (C)

The site is located inside Y-Tunnel on the south side of Little Skull Mountain. The tunnel was drilled into bedrock and a thin layer of drilling residue currently covers the floor of the tunnel and consists of sand with varying amounts of gravel and silt overlying bedrock. Bedrock underlies this layer at depths of 15 cm (6 in) bgs and consists of a hard, competent tuff.

Annual Precipitation (D)

Average annual precipitation for valleys in the South-Central Great Basin ranges from 7.5 to 15 cm (3 to 6 in) and the annual evaporation is roughly 5 to 25 times the annual precipitation, the high evaporation and low precipitation rates create a negative water balance for the area (Winograd and Thordarson, 1975). In addition, the CAS is located inside Y-Tunnel and receives no precipitation directly; therefore, no driving force associated with precipitation is available to mobilize COCs vertically.

Type of Waste or Substance Released (E)

The spill is non-PCB hydraulic fluid.

Extent of Contamination (F)

The vertical extent of impacted area does not extend deeper than the bedrock which is approximately 15 cm (6 in) bgs. Hydrocarbons were detected at concentrations of 130,000 mg/kg. Limited accessibility to the site prevented determining the lateral extent of the hydrocarbon contamination. The extent of contamination is estimated to be 9.4 by 2.7 m (31 by 9 ft) and 15 cm (6 in) or less in depth.

Present and Potential Land Use (G)

CAS 25-25-08 is located inside Y-Tunnel on the south side of Little Skull Mountain, which is located on a government-controlled facility. The NTS is a restricted area that is guarded on a 24-hour, 365-day per year basis; unauthorized personnel are not admitted to the facility. The tunnel is currently inactive and there are no plans to change the future land use of the facility. Future use at the site is expected to remain the same. A land use restriction has been implemented for this site.

Preferred Routes of Migration (H)

Migration of the hydraulic fluid from the site is not expected to occur. Surface migration would not occur because the fluid remaining in the soil is located at a depth of approximately 15 cm (6 in) bgs. Additional vertical migration of hydrocarbons downward due to gravity is not likely because of the bedrock barrier beneath the site. The most likely route of migration then becomes subsurface migration laterally; however, further migration of hydrocarbons in the soil is not expected because of the lack of driving forces.

The site does not have an exposure pathway because all impacted soil is below ground surface inside Y-Tunnel. Volatile components of the hydraulic fluid are expected to be minimal because observations indicate that the hydraulic fluid has been present in the soil for many years.

Location of Structures of Impediments (I)

CAS 25-25-08 is located inside Y-Tunnel on the South side of Little Skull Mountain. Y-Tunnel is currently inactive. CAS 25-25-08 is located adjacent to a tunnel boring machine at the end of Y-Tunnel. Lateral and vertical impediments consist of bedrock that is located at 15 cm (6 in) bgs.

Potential for a Hazard Related to Fire, Vapor, or Explosion (J)

The potential for fire, vapor ignition, or explosion because of the hydraulic fluid that has been released is low; there are no ignition sources within the tunnel.

Other Information Specific to the Site (K)

The following are additional factors specific to the site which should be considered in the evaluation for closure:

- Contaminated material at the site would be very difficult to excavate. The material is only 15 cm (6 in) thick and overlies bedrock. A backhoe would not likely be able to excavate this layer cleanly because of the thin layer of material and the hardness of the underlying bedrock.
- The CAS is inside Y-Tunnel, which eliminates hydrocarbon migration caused by precipitation influx.
- The site is located within the secured boundaries of the NTS. The NTS is a restricted area that is guarded on a 24-hour, 365-day per year basis; unauthorized personnel are not admitted to the facility. The likelihood that the site will be used for future private use is very low.

4.2.1.3 CAS 25-25-17, Subsurface Hydraulic Oil Spill "A Through K" Evaluation

Depth of Groundwater (A)

Ground water is approximately 347 m (1,139 ft) bgs (Laczniak et. al., 1996).

Distance to Irrigation or Drinking Water Wells (B)

The nearest drinking water supply is Water Well J-12, which is approximately 4.8 km (3 mi) east-southeast of the site. The static water level is measured at depths of 225 m (739 ft) bgs (DOE/NV, 1996).

Type of Soil that is Contaminated (C)

The site is located inside a significant power/utility corridor feeding into the E-MAD Building 3900. Soil at the site is thin and consists of sand with varying amounts of gravel and silt.

Annual Precipitation (D)

Average annual precipitation for valleys in the South-Central Great Basin ranges from 7.5 to 15 cm (3 to 6 in) and the annual evaporation is roughly 5 to 25 times the annual precipitation. The high evaporation and low precipitation rates create a negative water balance for the area (Winograd and Thordarson, 1975).

Type of Waste or Substance Released (E)

The hydraulic fluid spill occurred as a result of the continual overfilling of two 38-L (10-gal) aboveground metal containers that were used for recirculating oil in a vacuum pump oil recovery system.

Extent of Contamination (F)

Hydrocarbons were detected at a concentration of 600mg/kg in the sample collected in the corridor. The spill is located within a power/utility corridor feeding into the E-MAD Building 3900. The corridor is approximately 2.7 by 5 m (9 by 16 ft).

Present and Potential Land Use (G)

CAS 25-25-17 spill is located in a significant power/utility corridor feeding into the south side of E-MAD (Building 3900) facility which is located on a government-controlled facility. The E-MAD facility is currently being used; however, the area that is being used will not affect the power/utility corridor. The NTS is a restricted area that is guarded on a 24-hour, 365-day per year basis; unauthorized personnel are not admitted to the facility. A land use restriction has been completed for this site.

Preferred Routes of Migration (H)

The most likely route of subsurface migration is vertically through the porous alluvial soil. However, further migration of hydrocarbons in the soil is not expected because the potential source (spill/overfill) of hydrocarbons was removed when the vacuum oil recovery system was removed and the surrounding impacted soil was removed to a depth of 0.5 m (1.5 ft), then backfilled with clean fill in December 1998 as CAS 25-25-01, part of CAU 297. Hydrocarbons remaining subsurface are in low concentration (600 mg/kg).

Physical contact or disturbance of impacted surface soil is not possible. The impacted soil that was associated with the vacuum oil recovery system was removed to a depth of approximately

0.5 m (1.5 ft) then backfilled with clean fill. Protection of personnel from exposure and of the environment from improper handling of impacted soil, should it occur, can be controlled through land use restrictions.

Location of Structures of Impediments (I)

CAS 25-25-17 is located in a power/utility corridor feeding into the south side of E-MAD (Building 3900). The power/utility corridor is approximately 2.7 m (9 ft) by 4.9 m (16 ft), the west, north, and east sides of the corridor are surrounded by the E-MAD building with utilities approximately 0.6 m (2 ft) bgs.

Potential for a Hazard Related to Fire, Vapor, or Explosion (j)

The potential for fire, vapor ignition, or explosion because of the hydraulic fluid that has been released is low. The concentration of hydraulic fluid in the soil is low (600 mg/kg). Staining of remaining soil indicates that hydrocarbons have been present in the soil long enough for some degradation to have already occurred.

Other Information Specific to the Site (K)

The following are additional factors specific to the site which should be considered in the evaluation for closure:

- In 1998 during the housekeeping closure of CAU 297 two 38-L (10-gal) metal containers used in the closed vacuum pump oil recovery system were removed. This removes the source that would drive any further migration.
- Soil at the site would be very difficult to excavate because of the location of the utilities in the power/utility corridor and the narrowness of the corridor.
- The site is located within the secured boundaries of the NTS. The NTS is a restricted area that is guarded on a 24-hour, 365-day per year basis; unauthorized personnel are not admitted to the facility.
- This site is also located within the security fencing of the E-MAD compound.

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5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSION

The following site closure activities were performed at each CAS comprising CAU 398 and are documented in the report:

- CAS 25-25-02. All soil containing TPH and PCB levels at or above the action levels of 100 mg/kg and 1.0 mg/kg, respectively (NAC, 2002b; EPA, 2001), was removed and disposed in the NTS Area 6 Hydrocarbon Landfill and/or at an approved permitted off site disposal facility. The excavation was backfilled with clean fill.
- CAS 25-25-03. All soil containing TPH levels at or above the Nevada State action level of 100 mg/kg (NAC, 2002b) was removed and disposed in the NTS Area 6 Hydrocarbon Landfill. The excavation was backfilled with clean fill.
- CAS 25-25-04. All soil containing TPH, PCBs, lead, and cadmium levels at or above the action levels of 100 mg/kg, 1.0 mg/kg, 750 mg/kg, and 810 mg/kg, respectively (NAC, 2002b; EPA, 2001; EPA, 2002), was removed and disposed in the NTS Area 6 Hydrocarbon Landfill and/or at an approved permitted off site disposal facility. The excavation was backfilled with clean fill.
- CAS 25-25-05. All soil containing TPH and cadmium levels at or above the action levels of 100 mg/kg and 810 mg/kg (NAC, 2002b; EPA, 1996) was removed and disposed in the NTS Area 6 Hydrocarbon Landfill and/or at an approved permitted off site disposal facility. The excavation was backfilled with clean fill.
- CAS 25-25-06. No COC present, site was closed by taking no further action.
- CAS 25-25-07. TPH was the only COC present and due to site location, limited access and safety risks, the site was closed in place with administrative controls instituted.
- CAS 25-25-08. TPH was the only COC present and due to site location, access and safety risks, the site was closed in place with administrative controls instituted.
- CAS 25-25-16 (from CAS 25-01-02). All soil containing TPH levels at or above the Nevada State action level of 100 mg/kg (NAC, 2002b) was removed and disposed in the NTS Area 6 Hydrocarbon Landfill. The excavation was backfilled with clean fill.
- CAS 25-25-17. TPH was the only COC present and due to site conditions and limited access, the site was closed in place with administrative controls instituted.
- CAS 25-44-01. As a best management practice, all railroad bedding and construction debris was removed and disposed of in the NTS Area 9 U10C Landfill. This site was closed by taking no further action.

- CAS 25-44-02. All soil containing TPH levels at or above the Nevada State action level of 100 mg/kg (NAC, 2002b) was removed and disposed in the NTS Area 6 Hydrocarbon Landfill. The excavation was backfilled with clean fill.
- CAS 25-44-03. All soil containing TPH levels at or above the Nevada State action level of 100 mg/kg (NAC, 2002b) was removed and disposed in the NTS Area 6 Hydrocarbon Landfill. The excavation was backfilled with clean fill.
- CAS 25-44-04. No COC present, site was closed by taking no further action.

5.2 RECOMMENDATIONS

Based upon completion of site activities, it is requested that a notice of completion be provided by the NDEP to the NNSA/NSO for the closure of CAU 398. Upon closure approval, CAU 398 will be promoted from Appendix III to Appendix IV of the FFAO, "Closed Corrective Action Units."

6.0 REFERENCES

- Bechtel Nevada. 2002a. Field Management Plan for Corrective Action Unit 398: Area 25 Spill Sites, Nevada Test Site, Nevada, Las Vegas, NV.
- Bechtel Nevada. 2002b. Site-Specific Health and Safety Plan for Corrective Action Unit 398: Area 25 Spill Sites, Nevada Test Site, Nevada, Las Vegas, NV.
- BN, see Bechtel Nevada.
- DOE/NV, see U.S. Department of Energy, Nevada Operations Office.
- EPA, see U.S. Environmental Protection Agency.
- FFACO, see Federal Facility Agreement and Consent Order.
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- Winograd, I. J., and W. Thordarson. 1975. Hydrologic and Hydrochemical Framework, South-Central Great Basin, Nevada-California, with Special Reference to the NTS, U.S. Geological Survey Professional Paper 712C. Washington, DC: U.S. Government Printing Office.

APPENDIX A

DATA QUALITY OBJECTIVES FOR CAU 398*

* As presented in the approved and published Streamlined Approach for Environmental Restoration Plan for Corrective Action Unit 398: Area 25 Spill Sites, Nevada Test Site, Nevada, November 2001, DOE/NV--785, Rev. 0. Las Vegas, NV.

CLOSURE REPORT - CAU 398
Section: Appendix A
Revision: 1
Date: April 2003

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ACRONYMS AND ABBREVIATIONS

BN	Bechtel Nevada
CAS	Corrective Action Site
CAU	Corrective Action Unit
cm	centimeter(s)
COPC	Contaminant(s) of potential concern
CR	Closure Report
CSM	Conceptual Site Model
DQO	Data Quality Objective(s)
E-MAD	Engin Maintenance Assembly and Disassembly
EPA	U.S. Environmental Protection Agency
FFACO	Federal Facility Agreement and Consent Order
ft	foot(feet)
ft ³	cubic feet
gal	gallon(s)
in	inch(es)
IT	International Technology
L	liter(s)
m	meter(s)
m ³	cubic meters
mg/L	milligrams per liter
mg/kg	milligrams per kilogram
NAC	Nevada Administrative Code
NNSA/NSO	U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office
NDEM	Nevada Division of Emergency Management
NDEP	Nevada Division of Environmental Protection
NTS	Nevada Test Site
PCB	polychlorinated biphenyls
RCRA	Resource Conservation and Recovery Act
SAFER	Streamlined Approach for Environmental Restoration
SVOC	Semivolatile organic compound
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total petroleum hydrocarbons

ACRONYMS AND ABBREVIATIONS (continued)

VOC	Volatile organic compound
yd ³	cubic yards
RPD	Relative Percent Difference
%R	Percent Recovery

ACRONYMS AND ABBREVIATIONS

BN	Bechtel Nevada
CAS	Corrective Action Site
CAU	Corrective Action Unit
cm	centimeter(s)
COPC	Contaminant(s) of potential concern
CR	Closure Report
CSM	Conceptual Site Model
DQO	Data Quality Objective(s)
E-MAD	Engin Maintenance Assembly and Disassembly
EPA	U.S. Environmental Protection Agency
FFACO	Federal Facility Agreement and Consent Order
ft	foot(feet)
ft ³	cubic feet
gal	gallon(s)
in	inch(es)
IT	International Technology
L	liter(s)
m	meter(s)
m ³	cubic meters
mg/L	milligrams per liter
mg/kg	milligrams per kilogram
NAC	Nevada Administrative Code
NNSA/NSO	U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office
NDEM	Nevada Division of Emergency Management
NDEP	Nevada Division of Environmental Protection
NTS	Nevada Test Site
PCB	polychlorinated biphenyls
RCRA	Resource Conservation and Recovery Act
SAFER	Streamlined Approach for Environmental Restoration
SVOC	Semivolatile organic compound
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total petroleum hydrocarbons

ACRONYMS AND ABBREVIATIONS (continued)

VOC	Volatile organic compound
yd ³	cubic yards
RPD	Relative Percent Difference
%R	Percent Recovery

APPENDIX A
DATA QUALITY OBJECTIVES WORKSHEET FOR
CORRECTIVE ACTION UNIT 398: AREA 25 SPILL SITES
(Presentation of Known Data Related to Corrective Action Unit 398)

The information presented in this worksheet is based on historical data generated from preliminary assessment activities for Corrective Action Unit (CAU) 398 at the Nevada Test Site (NTS). Data quality objective (DQO) worksheets follow the U.S. Environmental Protection Agency (EPA) DQO guidance outline (EPA, 2000). The steps systematically build on the data acquired during preliminary assessment work and background research. Copies of the preliminary assessment work are retained in the project files.

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1.0 PROBLEM STATEMENT

1.1 State the problem

Thirteen sites have been identified for closure. In order to properly close these sites, currently available data must be evaluated to determine if the data adequately identify constituents of potential concern (COPC). These data will also be use to ascertain cleanup levels and verification sampling requirements. CAU 398 is comprised of the following 13 Corrective Action Sites (CASs):

- CAS 25-44-01, Fuel Spill
- CAS 25-44-02, Spill
- CAS 25-44-03, Spill
- CAS 25-44-04, Acid Spill
- CAS 25-25-02, Oil Spills
- CAS 25-25-03, Oil Spills
- CAS 25-25-04, Oil Spills
- CAS 25-25-05, Oil Spills
- CAS 25-25-06, Oil Spills
- CAS 25-25-07, Hydraulic Oil Spill(s)
- CAS 25-25-08, Hydraulic Oil Spill(s)
- CAS 25-25-16, Diesel Fuel
- CAS 25-25-17, Subsurface Hydraulic Oil Spill

1.2 Summarize the problem - combine the relevant background information into a concise description of the problem to be resolved and known or suspected sources of disposed waste.

1.2.1 CAS 25-44-01, Fuel Spill

This site is located near the northwest corner of Road C and Road D in Area 25 of the NTS on a concrete pad at what was known as the Fuel Storage Facility. During site visits in 1996 and 1998, the spill was determined to be fuel spilled on soil that covers the concrete pad. The dimensions of the spill were measured to be 18 by 12 meters (m) (60 by 40 feet [ft]) with the depth ranging from 0 to 13 centimeters (cm) (0 to 5 inches [in]).

Two samples of the suspected spill material were collected on August 15, 1997, by International Technology Corporation (IT) and analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), polychlorinated biphenyls (PCBs), total Resource Conservation and Recovery Act (RCRA) metals, gross alpha and beta, and gamma spectroscopy. The results indicated that the only COPCs were the RCRA metals lead (186 milligrams per kilogram [mg/kg]) and chromium (3,120 mg/kg).

Sampling was conducted by BN on May 24, 2001. The spill material sampled was a dense, metallic material and was analyzed for Toxicity Characteristic Leaching Procedure (TCLP) metals and gamma spectroscopy. Samples were also collected of the soil surrounding the down gradient side of the pad and analyzed for full scan TPH. The results indicate that the dense metallic material did not contain TCLP metals or radiological constituents above regulatory levels. The soil surrounding the pad did not contain TPH above regulatory levels.

Historical information about this site is limited. It is unknown where the spill material came from or what it was used for. It is suspected to be railroad bedding material or shielding. There is no process knowledge of the area being used for fuel storage. The surrounding area (not part of the CAS) is littered with various construction debris and concrete. This indicates that the area may have been used as a dumping area for unused concrete and excess construction material.

Available information is adequate to show that this site contains no COPCs and can be properly closed with no further action.

1.2.2 CAS 25-44-02, Spill

This CAS is located on and near a concrete pad on the north side of Building 3117 at Test Cell A, Area 25, NTS. The CAS consists of a spill to the soil caused by leaking drums. A literature search and site visit by IT in 1993 determined that the barrels had been removed and shipped out of state for disposal as hazardous liquid waste. The shipping manifest indicated that the waste contained various oils, lead, and chromium. A previous contractor collected samples from one of the drums and of the soil in the spill area. The samples were analyzed for PCBs, TPH, and total chlorinated hydrocarbons. The only COPC detected was TPH in the soil.

BN conducted a site investigation on May 23, 2001, and collected soil samples from around the pad and the suspected spill area. It appeared that the area had been disturbed as if the impacted soil had been removed. The samples were analyzed for full-scan TPH, TCLP chromium and lead, and gamma spectroscopy. The sample results indicate that THP as diesel/oil above regulatory levels exists on the edge of the spill area pad.

The source of the drums is unknown. Building 3117 was used to support activities at Test Cell A, but it is unclear if activities at Building 3117 created the waste in the drums.

Sufficient information exists to properly clean-close this site by excavation and disposal.

1.2.3 CAS 25-44-03, Spill

This CAS is located on a concrete pad on the southeast side of Test Cell C. This was a temporary drum storage area where two drums labeled as containing PCBs leaked onto the pad and surrounding soil. On December 14, 1990, the drums were removed and shipped to the Area 6 PCB storage facility. The drums were later shipped off site for disposal after being characterized as non-PCB.

IT conducted a site assessment on December 2, 1999, and identified the staining on the pad and soil staining extending approximately 2 m (7 ft) east of the pad. Sampling was conducted by BN on May 24, 2001. The spilled material and surrounding soil were sampled and analyzed for full scan TPH, PCBs, TCLP metals, and gamma spectroscopy. The results indicate that TPH at levels of up to 5,320 mg/kg (diesel/oil range) are in the spill material.

The source of the drums and contents is unknown but likely resulted from the draining of transformers or other electrical equipment. Available documentation indicates that the oil was non-PCB. Adequate information exists to sufficiently clean-close this site by excavation and disposal.

1.2.4 CAS 25-44-04, Acid Spill

This CAS is located on a concrete pad on the east side of Building 3320 at the Engine

Test Stand-1 facility. The site consists of spills from two tanks which were used for a water demineralization process. Tank T-2002 contained sodium hydroxide and Tank T-2003 contained sulfuric acid. Each tank had a 18,927-liter (L) (5,000-gallon [gal]) capacity.

A site visit on December 2, 1999, determined the size of the spill to be approximately 10 by 5 m (33 by 15 ft). The spill extended another 3 m (10 ft) east off the pad into a small gully. The spill was identified by the red-brown and yellow staining. The spill from the sulfuric acid tank was believed to have occurred over a period of time due to corrosion of the tank bottom. The spill was reported to the Nevada Division of Emergency Management (NDEM) as NDEM 980819-3014. The spill was estimated to be approximately 380 L (100 gal). The sodium hydroxide spill (NDEM 980811-3001) occurred on August 10, 1998, during tank removal activities. Approximately 380 L (100 gal) were spilled and mixed with the residue from the sulfuric acid spill. A pH meter measured the pH of the standing liquid to be 8.5. Approximately 2.3 cubic meters (m³) (3 cubic yards [yd³]) of impacted soil were excavated and disposed in the NTS U10c construction landfill on August 12, 1998.

BN collected samples of the material on the pad and soil on May 24, 2001. The samples were analyzed for soil pH and gamma spectroscopy. The results indicated that the pH of the samples ranged from 7.48 to 9.90, which is not RCRA-corrosive. No radiological constituents were present above regulatory levels.

Sufficient information exists to properly close this site with no further action.

1.2.5 CAS 25-25-02, Oil Spills

CAS 25-25-02 is located adjacent to a small concrete loading ramp on the south side of the Engine Maintenance, Assembly, and Disassembly (E-MAD) facility (Building 3900). Available documentation indicates that the spill was associated with leaking drums that were removed in 1992. No documentation exists to indicate that the spill was removed. The source of the drums is not listed in the documentation. The loading ramp leads to the boiler room, so the drums could have been waste oil or fuel from operations conducted there. The spill was described as 3 by 3 m (10 by 10 ft) and approximately 10 cm (4 in) below the surface, and appeared to have been covered with soil.

IT collected a sample of the spill on August 27, 1997. The sample was analyzed for total VOCs, total SVOCs, TPH, PCBs, total RCRA metals, gross alpha/beta, and gamma spectrometry. The results indicated that the only COPCs were lead (137 mg/kg) and PCBs (34 mg/kg).

BN collected two samples of the spill material and soil on May 31, 2001. One sample was collected from the original IT sample location. The other sample was collected just off the southwest corner of the loading ramp from an obvious spill area of a dark grey to black tar-like material. Both samples were analyzed for TPH full scan, PCBs, TCLP SVOCs, TCLP metals, and gamma spectroscopy.

The results indicate that the soil contains TPH at levels up to 566 mg/kg (diesel/oil range) and PCBs up to 5.7 mg/kg. The spill material contained TPH in the diesel/oil range at levels up to 3,440 mg/kg and PCBs up to 9.2 mg/kg. No other chemical or radiological constituents were present above regulatory levels.

Adequate information exists to sufficiently clean-close this site by excavation and disposal.

1.2.6 CAS 25-25-03, Oil Spills

This CAS is located south of Building 4838 (Gas Station) in Area 25 of the NTS. The site was originally described as being a spill adjacent to a tipped-over drum. The drum was documented as being removed in July 1991 and in 1993 the spill was measured at 2 by 1 by 1 m (6 by 3 by 3 ft).

IT collected a sample from the site on August 15, 1997, and analyzed the sample for VOCs, SVOCs, TPH, PCBs, RCRA metals, gross alpha/beta, and gamma spectrometry. No COPCs were detected.

BN collected samples from two locations on May 24, 2001. One sample was collected from the original IT sample location approximately 3 m (10 ft) off the southwest corner of the paved parking area. The second sample was collected approximately 15 m (50 ft) southwest of the first location near where the IT CAS identification stake was. Samples were collected from the surface and at a depth of 0.3 m (1 ft) from both locations. Samples were analyzed for TPH full scan and gamma spectroscopy. The results indicated that TPH levels were below detection limits at the surface and 0.3 m (1 ft) below the surface at the original IT sample location. At the sample near the IT CAS identification stake, TPH levels at the surface were 800 mg/kg diesel and 12,000 mg/kg oil. The TPH results at 0.3 m (1 ft) below ground surface were below regulatory limits.

The source of the drum is not listed in the documentation although the drum was removed. The source of the drum was likely from vehicle maintenance operations at the gas station.

Adequate information exists to sufficiently clean-close this site by excavation and disposal.

1.2.7 CAS 25-25-04, Oil Spills

This site is located on the north side of the E-MAD facility near a flammable storage building. The site is described by the E-MAD facility engineer as an area where used oils and cooling fluids from metal machining operations were poured directly onto the ground. An estimated 133 - 151 L (35 - 40 gal) of waste liquids were discharged to the soil. The spill area is approximately 5 by 5 m (15 by 15 ft).

IT collected two samples on August 27, 1997, and analyzed the samples for VOCs, SVOCs, TPH, PCBs, total RCRA metals, gross alpha and beta, and gamma spectrometry. COPCs include TPH, PCBs (2,300 mg/kg), and the RCRA metals cadmium

(88.5 mg/kg), chromium (9,780 mg/kg) and lead (6,090 mg/kg).

Samples of the area were collected by BN on May 26, 2001. Samples were collected from the original IT locations and from other locations within the CAS. Samples were collected from the surface and from a depth of 1 m (3 ft). Surface samples were analyzed for TPH full scan, PCBs, TCLP VOCs, TCLP SVOCs, TCLP metals, and gamma spectroscopy. Subsurface samples were analyzed for only TPH full scan. The results indicated the presence of PCBs (up to 77 mg/kg), TPH (up to 3,920 mg/kg in the diesel/oil range), and lead (up to 11 milligrams per liter [mg/L]). One sample was collected from a small area on the surface of what appeared to be machine shop trash. This appeared to be a very oily, greasy, absorbent material that contained metal turnings. The analytical results from this area were PCBs at 920 mg/kg, TPH at 21,600 mg/kg total diesel and oil range, and cadmium at 1.1 milligram per liter (mg/L). This area was approximately 0.3 by 0.3 m (1 by 1 ft) and appeared to be only surficial. All the analytical results for samples collected from the 1 m (3 ft) depth were below regulatory limits.

The source of the waste was from operations at the flammable storage building or the machine shop.

Adequate information exists to sufficiently clean-close this site by excavation and disposal.

1.2.8 CAS 25-25-05, Oil Spills

This CAS is located on the northeast side of the E-MAD facility. The spills are oil and/or hydraulic fluid associated with heavy equipment that was stored there. There are four oil spills within the footprint of the heavy equipment. The spills are presumed to be from the same source (equipment oil tank) but leaked from different parts of the equipment.

IT collected two soil samples from the spills on August 27, 1997. The samples were analyzed for VOCs, SVOCs, TPH, PCBs, total RCRA metals, and gross alpha/beta. Possible COPCs include TPH and RCRA metals cadmium at 46.1 mg/kg and lead 208 mg/kg.

BN collected samples from the spill on May 25, 2001. Samples were collected from the surface and from a depth of 0.6 m (2 ft). Surface samples were analyzed for TPH full scan, PCBs, TCLP VOCs, TCLP SVOCs, TCLP metals, pesticides, and gamma spectroscopy. Samples collected from the subsurface were analyzed for only TPH full scan. TPH results revealed concentrations as high as 46,500 mg/kg in the total diesel and

oil range. Cadmium was detected in concentrations as high as 1.1 mg/L. Results of samples collected from 60 cm (2 ft) depth were below regulatory levels.

Adequate information exists to sufficiently clean-close this site by excavation and disposal.

1.2.9 CAS 25-25-06, Oil Spills

CAS 25-25-06 is located at the Drill Hole Wash Monitoring Station which is past the Yucca Mountain facility in Area 25 of the NTS. The site was described as diesel fuel stains underneath two generators. The generators likely provided power for two trailers and monitoring equipment. A January 1996 site visit by IT determined that the generators were gone and no soil staining was apparent. The two trailers remained. A later IT site visit on March 5, 1998, revealed that the larger of the two trailers was gone. However, dark-brown staining was evident on the soil where the larger trailer had been. The staining was approximately 9 by 2 m (28 by 8 ft). No samples were collected.

A BN site visit on May 31, 2001, revealed no indication of the staining identified earlier. Based on descriptions and photographs, the location of the previously stained area was noted and samples were collected. Samples were analyzed for full scan TPH and gamma spectroscopy. The results indicated that TPH and radiological constituents are not present in the soil above regulatory limits. This CAS contains no COPCs and can be properly closed with no further action.

1.2.10 CAS 25-25-07, Hydraulic Oil Spill(s)

This site is located adjacent to a tunnel boring machine in an escape drift of X-Tunnel. The boring machine was left in place when X-Tunnel was placed on inactive status in 1982. Over time, the hydraulic lines leaked fluid to the surrounding substrate material. The lines may also have leaked due to damage from removing salvageable parts from the boring machine. It is estimated that approximately 1,514 L (400 gal) of hydraulic fluid may have been released. The substrate material is estimated to be 0.3 m (1 ft) thick with bedrock beneath. Since the site is underground, there is no driving force for migration of the hydraulic fluid except for gravity.

A sample of the hydraulic reservoir was collected on January 31, 1997, and analyzed for PCBs. Results indicated that PCBs were below regulatory levels. The reservoir was later drained.

BN collected samples of the impacted material on June 20, 2001. The samples were analyzed for full scan TPH, PCBs, and gamma spectroscopy. Due to the presence of fixed depleted uranium within the drift, a radiological control technician was present during sampling activities. No radiological levels above background were detected in the sampling areas. Sample results indicated TPH concentrations in the diesel/oil range of up to 105,000 mg/kg.

Based on the safety risks to personnel associated with cleaning up the hydrocarbon-impacted soil (confined mine shaft, limited lighting, hanging utility lines) as compared to the risk associated with leaving the soil in place, closure should consist of administrative controls using a use restriction with no further action.

1.2.11 CAS 25-25-08, Hydraulic Oil Spill(s)

This site is located adjacent to a tunnel boring machine at the end of the main drift of Y-Tunnel. The boring machine was left in place when Y-Tunnel was placed on inactive status in 1982. Over time, the hydraulic lines leaked fluid to the surrounding substrate material. The lines may also have leaked due to damage from removing salvageable parts from the boring machine. It is estimated that approximately 1,514 L (400 gal) of hydraulic fluid may have been released. The substrate material is estimated to be 0.3 m (1 ft) thick with bedrock beneath. Since the site is underground, there is no driving force for migration of the hydraulic fluid except for gravity.

BN collected samples of the impacted substrate material on June 20, 2001. The samples were analyzed for full-scan TPH, PCBs, and gamma spectroscopy. A radiological control technician was present during sampling activities as a precautionary measure. No radiological levels above background were detected in the sampling areas. Sample results indicated TPH results in the diesel/oil range of up to 140,000 mg/kg.

Based on the safety risks to personnel associated with cleaning up the hydrocarbon-impacted substrate material (confined mine shaft, limited lighting, hanging utility lines) as compared to the risk associated with leaving the substrate material in place, closure should consist of administrative controls using a use restriction with no further action.

1.2.12 CAS 25-25-16, Diesel Fuel

This site is located east of the Engine Test Stand entrance in Area 25 of the NTS. The site consists of soil staining from a diesel release from an aboveground storage tank. Tank T-2001 was a 79,000-L (21,000-gal) capacity steel tank used to store diesel fuel for a boiler located in Building 3320.

The tank was removed during August 1998 closure activities for CAU 126. There was no evidence that the tank had leaked. However, the soil surrounding a valve connected to the drain pipe was moist and had a strong diesel odor.

On August 10, 1998, an attempt was made to determine the extent of the spill. Approximately 10.7 m³ (14 yd³) were removed and disposed before it was determined that additional excavation was beyond the scope of that project.

BN collected samples from the surface and from a depth of up to 0.6 m (2 ft) in the area of the impacted soil on May 25, 2001. The samples were analyzed for full-scan TPH and gamma spectroscopy. The results indicated that diesel and oil range organics were present at a maximum concentration of 1,320 mg/kg at the surface.

Adequate information exists to sufficiently clean-close this site by excavation and disposal.

1.2.13 CAS 25-25-17, Subsurface Hydraulic Oil Spill

This CAS is located on the south side of the E-MAD facility. The spill was identified on

December 1, 1998, during the housekeeping closure of CAU 297. Closure activities consisted of the removal of two 38 L (10 gal) metal containers used in a closed vacuum pump oil recovery system.

Completion of the closure activities identified a hydrocarbon release associated with historical operations of the oil recovery system. The spill is located in a significant power/utility corridor feeding into the building. The first of the utilities was located at a depth of approximately 1 m (3 ft). Impacted soil was removed to a maximum depth of approximately 46 cm (18 in). Work was discontinued due to the extent of the impacted area, confining work space limitations, and proximity to utilities. Clean soil was used to backfill over the excavated area.

Samples of the soil were collected by BN for verification and waste disposition during CAU 297 closure activities. The samples were analyzed for TPH, TCLP VOCs, TCLP SVOCs, TCLP metals, PCBs, pesticides, and gamma spectroscopy. The results indicated COPCs as TPH and PCBs (7.2 mg/kg).

BN re-sampled the site on May 31, 2001. Soil samples were collected from a minimum depth of 0.3 m (1 ft) to get below the level of the backfill. The samples were analyzed for full-scan TPH, PCBs, and gamma spectroscopy. The results indicate the soil is impacted with petroleum hydrocarbons up to 647 mg/kg.

Based on the risks (utility corridor) associated with cleaning up the hydrocarbon-impacted soil as compared to the risk associated with leaving the soil in place, closure should consist of administrative controls using a use restriction with no further action.

2.0 DEVELOP AND REFINE THE CONCEPTUAL SITE MODEL (CSM)

Available information, including site process knowledge and historical background information, is sufficient to support the CSMs for CAU 398. The CSMs describe the most probable scenarios for current conditions at each site and define the assumptions that are the basis for identifying appropriate data collection methods.

Ten of the eleven above-ground sites involve releases of petroleum hydrocarbons to surface or near-surface soil. Other COPCs are present at some of these sites and are associated with the petroleum hydrocarbons, which acts as a carrier for the other COPCs. The remaining above-ground site is an acid release to surface soil. In the X- and Y-tunnel sites, petroleum has been released to the floor of the tunnel. The released substances will typically migrate downward due to gravity and will also flow downslope from the source if the substrate conditions do not allow the fuel to seep in as quickly as the release is occurring. Previously disturbed ground, such as occurs along buried piping and utility corridors, will also serve as a preferential pathway. After the initial release has stopped, the fuel typically continues to migrate downward with gravity until equilibrium is reached. If additional pressure is added to the system after equilibrium is reached, such as what occurs with a new release or as a result of rainfall, downward migration will continue.

2.1 Primary Conceptual Site Models

The primary CSMs are considered the most probable scenarios for current conditions at the CAU 398 sites. Available information from which the CSMs are based were derived from site process knowledge, historical background information, and site sampling and analysis. The proposed activities are based on the assumption that diesel- and oil- range petroleum hydrocarbons are the most prevalent COPCs at the sites. The petroleum hydrocarbons are also assumed to act as a carrier for the other COPCs which will not extend beyond the limits of the petroleum hydrocarbons. All of the sites are expected to fit the basic CSM with minor variations caused by site-specific preferential pathways, as identified below for each CAS:

- CAS 25-44-01, Fuel Spill: A CSM has not been developed for this site because sample analysis indicated that COPCs are not present above regulatory levels. No further action is recommended for this site.
- CAS 25-44-02, Spill: The primary CSM assumes that only petroleum hydrocarbons were released to the soil. Sample analysis supports this CSM and indicates that petroleum hydrocarbons extend to a depth of 0.6 m (2 ft) below ground surface. There are no preferential pathways identified for this site.
- CAS 25-44-03, Spill: The primary CSM assumes that only petroleum hydrocarbons were released to the soil. Sample analysis supports this CSM. It is assumed that the hydrocarbons extend to a maximum depth of 0.3 m (1 ft) below the ground surface. There are no preferential pathways identified for this site.
- CAS 25-44-04, Acid Spill: A CSM has not been developed for this site because sample analysis indicated that COPCs are not present above regulatory levels. No further action is recommended for this site.
- CAS 25-25-02, Oil Spills: The primary CSM assumes that only petroleum hydrocarbons and associated PCBs were released to the soil. It is also assumed that the PCBs did not extend beyond the limits of the hydrocarbon release and that the PCBs present are below land ban concentration of 50 mg/kg. It is assumed that the COPCs extend to a maximum depth of 0.3 m (1 ft) below the ground surface. The preferential pathway for this site may be down along the foundation of the E-MAD Building.
- CAS 25-25-03, Oil Spills: The primary CSM assumes that only petroleum hydrocarbons were released to the soil. Sample analysis supports this CSM and indicates that petroleum hydrocarbons extend to a depth of 0.3 m (1 ft) below ground surface. There are no preferential pathways identified for this site.
- CAS 25-25-04, Oil Spills: The primary CSM assumes that only petroleum hydrocarbons and associated COPCs (PCBs, lead, cadmium) were released to the soil and that the COPCs did not extend beyond the limits of the hydrocarbon release. Sample analysis supports this CSM and indicates that petroleum hydrocarbons extend to a depth of 1 m (3 ft) below ground surface. It is assumed that PCBs will be present

in concentrations above the land ban limit of 50 mg/kg. Lead and cadmium are also assumed to be above the land ban concentrations of 7.5 mg/kg and 1.1 mg/kg, respectively. The preferential pathway for this site may be the nearby (within 3 m [10 ft]) storm drain.

- CAS 25-25-05, Oil Spills: The primary CSM assumes that only petroleum hydrocarbons and associated COPCs (cadmium) were released to the soil and that the COPCs did not extend beyond the limits of the hydrocarbon release. Sample analysis supports this model and indicates that petroleum hydrocarbons extend to a depth of 0.6 m (2 ft) below ground surface. It is assumed that cadmium is present above the land ban concentration of 1.1 mg/kg. There are no preferential pathways identified for this site.
- CAS 25-25-06, Oil Spills: A CSM has not been developed for this site because sample analysis indicated that COPCs are not present above regulatory levels. No further action is recommended for this site.
- CAS 25-25-07, Hydraulic Oil Spill(s): The primary CSM assumes that only petroleum hydrocarbons were released to the substrate in X-Tunnel. Sample analysis supports this CSM. It is assumed that the hydrocarbons extend to a maximum depth of 0.3 m (1 ft) below the ground surface. There are no preferential pathways identified for this site.
- CAS 25-25-08, Hydraulic Oil Spill(s): The primary CSM assumes that only petroleum hydrocarbons were released to the substrate in Y-Tunnel. Sample analysis supports this CSM. It is assumed that the hydrocarbons extend to a maximum depth of 0.3 m (1 ft) below the ground surface. There are no preferential pathways identified for this site.
- CAS 25-25-16, Diesel Spill: The primary CSM assumes that only petroleum hydrocarbons were released to the soil. Sample analysis supports this CSM. It is assumed that the hydrocarbons extend to a maximum depth of 0.6 m (2 ft) below the ground surface. There are no preferential pathways identified for this site.
- CAS 25-25-17, Subsurface Hydraulic Oil Spill: The primary CSM assumes that only petroleum hydrocarbons were released to the soil. Sample analysis supports this CSM. It is assumed that the hydrocarbons extend to a maximum depth of 0.6 m (2 ft) below the ground surface. Preferential pathways for this site may be the utility corridor and the building foundation.

2.2 Alternate Conceptual Site Models

The conditions under the alternate CSM are considered less likely than conditions outlined in the primary CSM.

- CAS 25-44-01, Fuel Spill: An alternate CSM is not necessary for this site because sample analysis indicated that COPCs are not present above regulatory levels.
- CAS 25-44-02, Spill: An alternate CSM has not been developed for this site because

existing data show the primary CSM to be an adequate representation of current site conditions.

- CAS 25-44-03, Spill: The alternate CSM provides for a more extensive petroleum hydrocarbon release (depth) than assumed in the primary CSM.
- CAS 25-44-04, Acid Spill: An alternate CSM is not necessary for this site because sample analysis indicated that COPCs are not present above regulatory levels.
- CAS 25-25-02, Oil Spills: The alternate CSM provides for a more extensive release of COPCs than assumed in the primary CSM. The preferential pathway remains the same as in the primary CSM.
- CAS 25-25-03, Oil Spills: The alternate CSM provides for a more extensive release of petroleum hydrocarbons than assumed in the primary CSM.
- CAS 25-25-04, Oil Spills: The alternate CSM provides for a more extensive release of COPCs than assumed in the primary CSM. The preferential pathway remains the same as in the primary CSM.
- CAS 25-25-05, Oil Spills: An alternate CSM has not been developed for this site because existing data show the primary CSM to be an adequate representation of current site conditions.
- CAS 25-25-06, Oil Spills: An alternate CSM is not necessary for this site because sample analysis indicated that COPCs are not present above regulatory levels.
- CAS 25-25-07, Hydraulic Oil Spill(s): The alternate CSM for the X-Tunnel spill provides for a more extensive release of petroleum hydrocarbons that has impacted the bedrock.
- CAS 25-25-08, Hydraulic Oil Spill(s): The alternate CSM for the Y-Tunnel spill provides for a more extensive release of petroleum hydrocarbons that has impacted the bedrock.
- CAS 25-25-16, Diesel Spill: The alternate CSM provides for a more extensive release of petroleum hydrocarbons than assumed in the primary CSM.
- CAS 25-25-17, Subsurface Hydraulic Oil Spill: The alternate CSM provides for a more extensive release of petroleum hydrocarbons than assumed in the primary CSM and for PCB concentrations above the cleanup level. The preferential pathways remain the same as in the primary CSM.

3.0 IDENTIFY THE DECISION

Development of a Streamlined Approach for Environmental Restoration (SAFER) plan can begin based on the currently available process knowledge, historical data, and sampling data.

Decisions regarding the closure alternatives for the CASs can be made based on the available site data. The CASs have been grouped into three closure alternatives based on site conditions. The most probable closure decisions are identified below:

3.1 No Further Action

The CASs included in the no further action alternative are as follows:

- CAS 25-44-01, Fuel Spill
- CAS 25-44-04, Acid Spill
- CAS 25-25-06, Oil Spills

Are existing data sufficient to support the no further action alternative?

3.2 Clean Closure

The CASs and associated COPCs included in the clean closure alternative are as follows:

- | | |
|-----------------------------|--|
| • CAS 25-44-02, Spill | COPC=TPH as diesel/oil |
| • CAS 25-44-03, Spill | COPC=TPH as diesel/oil |
| • CAS 25-25-02, Oil Spills | COPCs=TPH as diesel/oil; PCBs (below land ban) |
| • CAS 25-25-03, Oil Spills | COPC=TPH as diesel/oil |
|
 | |
| • CAS 25-25-04, Oil Spills | COPCs=TPH as diesel/oil; lead, cadmium, PCBs
(above land ban) |
| • CAS 25-25-05, Oil Spills | COPCs=TPH as diesel/oil; cadmium (above land ban) |
| • CAS 25-25-16, Diesel Fuel | COPC=TPH as diesel/oil |

Are existing data sufficient to support the clean closure by excavation and disposal alternative?

3.3 Administrative Closure

The sites included in this group are as follows:

- CAS 25-25-07, Hydraulic Oil Spill(s)
- CAS 25-25-08, Hydraulic Oil Spill(s)
- CAS 25-25-17, Subsurface Hydraulic Oil Spill

Are existing data sufficient to support administrative closure of these sites with no further action other than implementation of a Use Restriction?

4.0 IDENTIFY THE INPUTS TO THE DECISION

4.1 Identify the information inputs needed and resolve the decision.

4.1.1 No Further Action

The sites included in this group are as follows:

- CAS 25-44-01, Fuel Spill
- CAS 25-44-04, Acid Spill
- CAS 25-25-06, Oil Spills

At these CASs, sample results revealed no evidence of COPCs above action levels. Therefore, these sites can be properly closed with no further action.

4.1.2 Clean Closure

The sites included in this group are as follows:

- CAS 25-44-02, Spill
- CAS 25-44-03, Spill
- CAS 25-25-02, Oil Spills
- CAS 25-25-03, Oil Spills
- CAS 25-25-04, Oil Spills
- CAS 25-25-05, Oil Spills
- CAS 25-25-16, Diesel Fuel

Sufficient information exists for these CASs to be clean closed by excavation and disposal of impacted soil. All of these sites consist of TPH-impacted soil. Three sites contain COPCs in addition to TPH and are associated with the TPH. CAS 25-25-02 also contains PCBs below the land ban restrictions; CAS 25-25-05 also contains cadmium above land ban restrictions; CAS 25-25-04 contains lead, cadmium, and PCBs above land ban restrictions in addition to the TPH. CASs with COPCs above the land ban restrictions must be sent to an off-site treatment and disposal facility.

4.1.3 Administrative Closure

The sites included in this group are as follows:

- CAS 25-25-07, Hydraulic Oil Spill(s)
- CAS 25-25-08, Hydraulic Oil Spill(s)
- CAS 25-25-17, Subsurface Hydraulic Oil Spill

TPH as diesel/oil is the only COPC at sites included in this group. Given specific site conditions (utilities, limited space, limited lighting), it is likely that a risk assessment of each of these sites, based on the "A through K" evaluation as presented in Nevada Administrative Code (NAC) 445A.227 (NAC, 2002), would show that there is no significant risk to human health or the environment from the hydrocarbon-impacted soil.

This “A through K” evaluation is recommended for inclusion in the SAFER Plan, so data supporting administrative closure of the site must be gathered. If risk-based closure is supported, the sites would then be recommended for administrative closure with no further action and a use restriction prepared for inclusion in the Closure Report (CR).

4.2 List types of COPCs and affected media.

The CASs and their associated COPCs are listed below:

- CAS 25-44-01, Fuel Spill - No COPCs above action levels
- CAS 25-44-04, Acid Spill - No COPCs above action levels
- CAS 25-25-06, Oil Spills - No COPCs above action levels
- CAS 25-44-02, Spill - TPH as diesel/oil
- CAS 25-44-03, Spill - TPH as diesel/oil
- CAS 25-25-02, Oil Spills - TPH as diesel/oil, PCBs
- CAS 25-25-03, Oil Spills - TPH as diesel/oil
- CAS 25-25-04, Oil Spills - TPH as diesel/oil, lead, cadmium, PCBs
- CAS 25-25-05, Oil Spills - TPH as diesel/oil, cadmium
- CAS 25-25-16, Diesel Fuel - TPH as diesel/oil
- CAS 25-25-07, Hydraulic Oil Spill(s) - TPH as diesel/oil
- CAS 25-25-08, Hydraulic Oil Spill(s) - TPH as diesel/oil
- CAS 25-25-17, Subsurface Hydraulic Oil Spill - TPH as oil

For all of the CASs, the affected media is soil.

4.3 Identify potential sampling approaches and appropriate analytical methods.

Existing documentation, process knowledge, and sample data are adequate to close the sites under the no further action and administrative closure alternatives without collecting additional data. For these sites, existing data will be referenced in the SAFER Plan and documented in the closure documentation to demonstrate adequate closure of the sites. The sites under the clean closure by excavation and disposal alternative can also be closed using existing data but will also require confirmation samples to verify that all COPCs have been removed to below action levels. The confirmation sampling approach will be discussed in the SAFER Work Plan.

5.0 DEFINE THE BOUNDARIES OF THE STUDY

5.1 Define the geographic areas of the field investigation.

5.1.1 Define the geographic area within which all decisions must apply (in some cases this may be defined by the CAU).

The geographic areas of the field investigation are those areas of each CAS which are impacted by COPCs as identified by the CSM. Descriptions of each area are found in Section 1.2 of this report.

5.1.2 Specify the characteristics that define the population of interest.

The population of interest consists of soil containing COPCs at concentrations above action levels.

5.2 Define the time frame of the decision.

5.2.1 Determine the time frame to which the study data apply.

- The study data should be relevant with the length of time allowed for by the SAFER process under the Federal Facility Agreement and Consent Order (FFACO) (FFACO, 1996).
- Migration (if occurring) is assumed to be imperceptibly slow. This is based on minimal surface water infiltration and the constraints of the CSM.

5.2.2 Determine when to collect data.

Field activities are scheduled to take place in Fiscal Year 2002 after approval of the final SAFER Work Plan. Field activities will be conducted at times that meet the security and safety constraints of the NTS.

5.2.3 Define relevant time constraints.

The FFACO deadline for delivery of the final SAFER Work Plan is December 31, 2001.

The FFACO deadline for delivery of the final CR is December 31, 2002.

5.3 Identify any practical constraints on data collection.

- Approval of the DQO process and the SAFER Plan by the NDEP.
- Site operations - NTS operational and security constraints.
- Equipment and personnel access.
- Meteorological.
- Availability of heavy equipment.
- Health and safety of workers.

6.0 DEVELOP A DECISION RULE - DEFINE A LOGICAL BASIS FOR CHOOSING AMONG ALTERNATIVE ACTIONS

6.1 Specify the action level or preliminary action level for the decision.

Sufficient analytical data and process knowledge exists to support the CSM. The action level is 100 mg/kg for TPH based on NAC 445A.2272 (NAC, 2002). Based on Preliminary Remediation Goals for EPA Region 9 for Industrial Soils, the action levels are 1.0 mg/kg for PCBs, 750 mg/kg for lead, and 810 mg/kg for cadmium.

7.0 OPTIMIZE THE DESIGN - OUTLINE A SAMPLING DESIGN, SPECIFYING THE OPERATIONAL DETAILS OF THE SAMPLING PLAN WHICH FALLS WITHIN THE PROJECT'S CONSTRAINTS

7.1 Develop general sampling and analysis design alternatives.

Refer to Section 4.3 for sampling and analysis alternatives.

7.2 Select the most resource-effective design that satisfies all of the DQOs.

- For those sites requiring clean closure by excavation and disposal, excavate impacted to lateral and vertical extent and collect confirmation samples to verify that all soil impacted with COPCs above action levels has been removed.
- Survey and implement Use Restrictions for those sites to be administratively closed.

7.3 Document the operational details and theoretical assumptions of the selected design in the sampling and analysis plan.

Detailed documentation of sampling and analysis will be discussed in the SAFER Work Plan.

TABLE A1 - LABORATORY ANALYTICAL REQUIREMENTS FOR CAU 398 SOIL SAMPLES

Parameter or Analyte	Medium or Matrix	Analytical Method	Minimum Reporting Limit	Regulatory Limit	Relative Percent Difference (RPD) ^a	Percent Recovery (%R) ^b
Cadmium	Soil	6010B ^c	1 mg/kg ^e		35	Lab - specific ^d
Lead	Soil	6010B ^c	0.3 mg/kg ^e		35	Lab - specific ^d
Polychlorinated Biphenyls (PCBs)	Soil	8082 ^c	Analyte-specific ^c Contract-required quantitation limit	0.001 mg/kg	Lab - specific ^d	Lab - specific ^d
Total Petroleum Hydrocarbons (TPH)	Soil	8015B modified ^c	25 mg/kg ^e	100 mg/kg	Lab - specific ^d	Lab - specific ^d

^a RPD - relative percent difference is used to calculate precision.

^b % R - percent recovery is used to calculate accuracy.

^c U.S. Environmental Protection Agency (EPA) *Test Methods for Evaluating Solid Waste*, 3rd Edition, Parts 1-4, SW-846 (EPA, 1996).

^d In-House Generated RPD and %R Performance Criteria.

^e *Industrial Sites Quality Assurance Project Plan* (NNSA/NV, 2002).

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REFERENCES

FFACO, see Federal Facility Agreement and Consent Order.

Federal Facility Agreement and Consent Order. 1996 (as amended). Agreed to by the State of Nevada, U.S. Department of Energy, and U.S. Department of Defense.

NAC, see Nevada Administrative Code.

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

Nevada Administrative Code. 2002. Section 445A.227, "Contamination of Soil: Order by Director for Corrective Action; Factors to be Considered in Determining Whether Corrective Action is Required." Carson City, NV.

U.S. Department of Energy, National Nuclear Security Administration Nevada Operations Office. 2002. Industrial Sites Quality Assurance Project Plan, DOE/NV--372--REV. 3, Las Vegas, NV.

U.S. Environmental Protection Agency. 1996. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA Publication SW-846, Third Edition. Washington, D.C.

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

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APPENDIX B

VERIFICATION SAMPLE ANALYTICAL RESULTS

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TABLE OF CONTENTS - SAMPLE ANALYTICAL RESULTS BY SAMPLE DELIVERY GROUP

Analytical results for the verification samples collected at the Corrective Action Unit 398 Corrective Action Sites (CASs) are presented in this Appendix. The analytical results are grouped into Sample Delivery Groups (SDGs), which are arranged in numerical order in this Appendix. Analytical results for a specific CAS can be found in the indicated SDGs, or by consulting Table 2 in the main document text.

CAS 25-25-02, Oil Spills: SDG V1596 and V1627
CAS 25-25-03, Oil Spills: SDG V1565
CAS 25-25-04, Oil Spills: SDG V1581, V1609 and V1815
CAS 25-25-05, Oil Spills: SDG V1581 and V1815
CAS 25-25-16, Diesel Spill (from CAS 25-01-02): SDG V1580
CAS 25-44-02, Spill: SDG V1596
CAS 25-44-03, Spill: SDG V1580

Six CASs in CAU 398 were closed by implementing closure alternatives other than clean closure; three CASs were closed by taking no further action, and three CASs were closed in place with administrative controls. For these CASs no verification samples were required or collected as part of the CAU 398 closure. Analytical results for characterization samples collected at these CASs were presented in the approved CAU 398 SAFER plan, and are included in this Appendix as required by the agreed upon Closure Report outline. The analytical results are grouped by SDG which are arranged numerically. Results for a specific CAS can be found in the indicated SDGs.

CAS 25-25-07, Hydraulic Oil Spill(s): SDG V1169 and V1170
CAS 25-25-08, Hydraulic Oil Spill(s): SDG V1169 and V1170
CAS 25-25-17, Subsurface Hydraulic Oil spill: SDG V1139 and V1140
CAS 25-25-06, Oil Spills: SDG V1139 and V1140
CAS 25-44-01, Fuel Spill: SDG V1122, V1123 and V1170
CAS 25-44-04, Acid Spill (from CAS 25-01-01): SDG V1122 and V1123

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SAMPLE DELIVERY GROUP

V1122

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NEL LABORATORIES

Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 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: V1122
PROJECT NUMBER: 23081

NEL ORDER ID: L0105275

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 5/29/01.

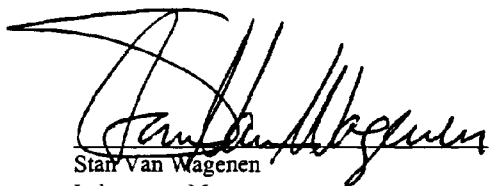
Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

Some QA results have been flagged as follows:

J1 - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

Some surrogate results have been flagged as follows:

D - Sample required dilution. Sample QC results were diluted outside the calibrated range.



Star Van Wagenen
Laboratory Manager

6/19/01
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: V1122
PROJECT #: 23081

CLIENT ID: 254404-1-0
DATE SAMPLED: 5/24/01
NEL SAMPLE ID: L0105275-04

TEST: **Inorganic Non-Metals**
MATRIX: Solid

<u>PARAMETER</u>	<u>RESULT</u>	<u>R. L.</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
pH	8.85	2.	1	EPA 9045C	pH Units	6/1/01
pH Temperature	26.8	1.	1	EPA 9045C	°C	6/1/01

R.L. - Reporting Limit

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1122
PROJECT #: 23081

CLIENT ID: 254404-2-0
DATE SAMPLED: 5/24/01
NEL SAMPLE ID: L0105275-05

TEST: Inorganic Non-Metals
MATRIX: Solid

<u>PARAMETER</u>	<u>RESULT</u>	<u>R. L.</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
pH	7.48	2.	1	EPA 9045C	pH Units	6/1/01
pH Temperature	26.6	1.	1	EPA 9045C	°C	6/1/01

R.L. - Reporting Limit

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1122
PROJECT #: 23081

CLIENT ID: 254404-3-0
DATE SAMPLED: 5/24/01
NEL SAMPLE ID: L0105275-06

TEST: Inorganic Non-Metals
MATRIX: Solid

<u>PARAMETER</u>	<u>RESULT</u>	<u>R. L.</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
pH	9.77	2.	1	EPA 9045C	pH Units	6/1/01
pH Temperature	26.3	1.	1	EPA 9045C	°C	6/1/01

R.L. - Reporting Limit

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1122
PROJECT #: 23081

CLIENT ID: 254404-4-0
DATE SAMPLED: 5/24/01
NEL SAMPLE ID: L0105275-07

TEST: **Inorganic Non-Metals**
MATRIX: Solid

<u>PARAMETER</u>	<u>RESULT</u>	<u>R. L.</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
pH	9.90	2.	1	EPA 9045C	pH Units	6/1/01
pH Temperature	26.4	1.	1	EPA 9045C	°C	6/1/01

R.L. - Reporting Limit

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 254403-1-0
PROJECT ID: V1122	DATE SAMPLED: 5/24/01
PROJECT #: 23081	NEL SAMPLE ID: L0105275-12
TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996	
METHOD: EPA 8082	ANALYST: JRW - Las Vegas Division
MATRIX: Solid	EXTRACTED: 5/30/01
DILUTION: 5	ANALYZED: 6/6/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	100. µg/kg
Aroclor-1221	ND	100. µg/kg
Aroclor-1232	ND	100. µg/kg
Aroclor-1242	ND	100. µg/kg
Aroclor-1248	ND	100. µg/kg
Aroclor-1254	ND	100. µg/kg
Aroclor-1260	ND	100. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	133	46 - 155
Tetrachloro-m-xylene	127	49 - 140

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 254403-2-0
PROJECT ID: V1122	DATE SAMPLED: 5/24/01
PROJECT #: 23081	NEL SAMPLE ID: L0105275-13

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996	
METHOD: EPA 8082	ANALYST: JRW - Las Vegas Division
MATRIX: Solid	EXTRACTED: 5/30/01
DILUTION: 5	ANALYZED: 6/6/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	100. µg/kg
Aroclor-1221	ND	100. µg/kg
Aroclor-1232	ND	100. µg/kg
Aroclor-1242	ND	100. µg/kg
Aroclor-1248	ND	100. µg/kg
Aroclor-1254	ND	100. µg/kg
Aroclor-1260	ND	100. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	155	46 - 155
Tetrachloro-m-xylene	133	49 - 140

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	252503-1-1
PROJECT ID:	V1122	DATE SAMPLED:	5/24/01
PROJECT #:	23081	NEL SAMPLE ID:	L0105275-10
TEST:	Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992		
METHOD:	EPA 8015M	ANALYST:	CCS - Las Vegas Division
MATRIX:	Solid	EXTRACTED:	5/30/01
DILUTION:	1	ANALYZED:	5/31/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	70	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 252503-2-1
PROJECT ID: V1122	DATE SAMPLED: 5/24/01
PROJECT #: 23081	NEL SAMPLE ID: L0105275-11
TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992	
METHOD: EPA 8015M	ANALYST: CCS - Las Vegas Division
MATRIX: Solid	EXTRACTED: 5/30/01
DILUTION: 1	ANALYZED: 5/31/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	79	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 254403-3-0
PROJECT ID: V1122	DATE SAMPLED: 5/24/01
PROJECT #: 23081	NEL SAMPLE ID: L0105275-14
TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992	
METHOD: EPA 8015M	ANALYST: CCS - Las Vegas Division
MATRIX: Solid	EXTRACTED: 5/30/01
DILUTION: 5	ANALYZED: 5/31/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	50. mg/kg
Diesel Range (C12-C22)	520 mg/kg	50. mg/kg
Oil Range (C12-C34)	4800 mg/kg	250. mg/kg
Total	5320 mg/kg	50. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	D	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1122
 PROJECT #: 23081

CLIENT ID: 254403-4-0
 DATE SAMPLED: 5/24/01
 NEL SAMPLE ID: L0105275-15

TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
 METHOD: EPA 8015M
 MATRIX: Solid
 DILUTION: 5

ANALYST: CCS - Las Vegas Division
 EXTRACTED: 5/30/01
 ANALYZED: 5/31/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	50. mg/kg
Diesel Range (C12-C22)	520 mg/kg	50. mg/kg
Oil Range (C12-C34)	4800 mg/kg	250. mg/kg
Total	5320 mg/kg	50. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	D	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 254403-6-0
PROJECT ID: V1122	DATE SAMPLED: 5/24/01
PROJECT #: 23081	NEL SAMPLE ID: L0105275-16
TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992	
METHOD: EPA 8015M	ANALYST: CCS - Las Vegas Division
MATRIX: Solid	EXTRACTED: 5/30/01
DILUTION: 1	ANALYZED: 5/31/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	80	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	252503-3-1
PROJECT ID:	V1122	DATE SAMPLED:	5/24/01
PROJECT #:	23081	NEL SAMPLE ID:	L0105275-17
TEST:	Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992		
METHOD:	EPA 8015M	ANALYST:	CCS - Las Vegas Division
MATRIX:	Solid	EXTRACTED:	5/30/01
DILUTION:	1	ANALYZED:	5/31/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	88	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: Method Blank
PROJECT ID: V1122	DATE SAMPLED: NA
PROJECT #: 23081	NEL SAMPLE ID: 010530PCBS-BLK

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996	
METHOD: EPA 8082	ANALYST: JRW - Las Vegas Division
MATRIX: Solid	EXTRACTED: 5/30/01
	ANALYZED: 6/6/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	ND	20. µg/kg
Aroclor-1260	ND	20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	82	46 - 155
Tetrachloro-m-xylene	92	49 - 140

ND - Not Detected

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CLIENT: Bechtel Nevada	CLIENT ID: Method Blank
PROJECT ID: V1122	DATE SAMPLED: NA
PROJECT #: 23081	NEL SAMPLE ID: 010530TPHS-FP-BLK

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992	
METHOD: EPA 8015M	ANALYST: CCS - Las Vegas Division
MATRIX: Solid	EXTRACTED: 5/30/01
	ANALYZED: 5/31/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	81	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1122
 PROJECT #: 23081

CLIENT ID: 254401-1-0
 DATE SAMPLED: 5/24/01
 NEL SAMPLE ID: L0105275-01

TEST: TCLP-8 Metals
 MATRIX: Solid

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>TCLP/STLC</u> <u>EXTRACTION</u>		
					<u>DATE</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Arsenic	ND	0.1 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Barium	ND	1. mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Cadmium	ND	0.01 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Chromium	ND	0.01 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Lead	0.18	0.05 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Mercury	ND	0.002 mg/L	10	EPA 7470A	6/4/01	6/5/01	6/6/01
Selenium	ND	0.1 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Silver	ND	0.02 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1122
 PROJECT #: 23081

CLIENT ID: 254401-2-0
 DATE SAMPLED: 5/24/01
 NEL SAMPLE ID: L0105275-02

TEST: TCLP-8 Metals
 MATRIX: Solid

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>TCLP/STLC</u> <u>EXTRACTION</u>		
					<u>DATE</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Arsenic	ND	0.1 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Barium	ND	1. mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Cadmium	ND	0.01 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Chromium	ND	0.01 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Lead	0.12	0.05 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Mercury	ND	0.002 mg/L	10	EPA 7470A	6/4/01	6/5/01	6/5/01
Selenium	ND	0.1 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Silver	ND	0.02 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1122
 PROJECT #: 23081

CLIENT ID: 254401-3-0
 DATE SAMPLED: 5/24/01
 NEL SAMPLE ID: L0105275-03

TEST: TCLP-8 Metals
 MATRIX: Solid

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>TCLP/STLC</u> <u>EXTRACTION</u>		
					<u>DATE</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Arsenic	ND	0.1 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Barium	1.7	1. mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Cadmium	ND	0.01 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Chromium	0.38	0.01 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Lead	ND	0.05 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Mercury	ND	0.002 mg/L	10	EPA 7470A	6/4/01	6/5/01	6/5/01
Selenium	ND	0.1 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Silver	ND	0.02 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1122
 PROJECT #: 23081

CLIENT ID: 254403-1-0
 DATE SAMPLED: 5/24/01
 NEL SAMPLE ID: L0105275-12

TEST: TCLP-8 Metals
 MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Barium	ND	1. mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Cadmium	ND	0.01 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Chromium	ND	0.01 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Lead	0.10	0.05 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Mercury	ND	0.002 mg/L	10	EPA 7470A	6/4/01	6/5/01	6/5/01
Selenium	ND	0.1 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Silver	ND	0.02 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01

D.F. - Dilution Factor

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: V1122
 PROJECT #: 23081

CLIENT ID: 254403-2-0
 DATE SAMPLED: 5/24/01
 NEL SAMPLE ID: L0105275-13

TEST: TCLP-8 Metals
 MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Barium	ND	1. mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Cadmium	ND	0.01 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Chromium	ND	0.01 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Lead	0.18	0.05 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Mercury	ND	0.002 mg/L	10	EPA 7470A	6/4/01	6/5/01	6/5/01
Selenium	ND	0.1 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Silver	ND	0.02 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01

D.F. - Dilution Factor

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: V1122
PROJECT #: 23081

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L5275HGTCLP-BLK

TEST: TCLP by EPA 1311, July 1992 & Mercury by EPA 7470A, July 1992
MATRIX: TCLP Extract

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>TCLP/STLC EXTRACTION</u>			
				<u>METHOD</u>	<u>DATE</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Mercury	ND	0.002 mg/L	10	EPA 7470A	6/4/01	6/5/01	6/5/01

D.F. - Dilution Factor

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: V1122
 PROJECT #: 23081

CLIENT ID: Method Blank
 DATE SAMPLED: NA
 NEL SAMPLE ID: L52751-BLK

TEST: TCLP by EPA 1311, July 1992 & 7 Metals by EPA 6010A, July 1992
 MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	TCLP/STLC EXTRACTION			
				METHOD	DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Barium	ND	1. mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Cadmium	ND	0.01 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Chromium	ND	0.01 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Lead	ND	0.05 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Selenium	ND	0.1 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01
Silver	ND	0.02 mg/L	1	EPA 6010	6/4/01	6/5/01	6/6/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1122
 PROJECT #: 23081
 TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996
 MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Aroclor-1016	010530PCBS-LCS	333	262	79	63 - 127	
Aroclor-1016	010530PCBS-LCSD	333	258	77	63 - 127	1.5
Aroclor-1016	L0105277-01-MS	333	0	0	Jl 55 - 142	
Aroclor-1016	L0105277-01-MSD	333	0	0	Jl 55 - 142	0.
Aroclor-1260	010530PCBS-LCS	333	274	82	57 - 138	
Aroclor-1260	010530PCBS-LCSD	333	244	73	57 - 138	11.6
Aroclor-1260	L0105277-01-MS	333	340	102	48 - 129	
Aroclor-1260	L0105277-01-MSD	333	337	101	48 - 129	0.9

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1122
 PROJECT #: 23081
 TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
 MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Diesel Range (C12-C22)	010530TPHS-FP-LCS	166.7	128	77	53 - 91	
Diesel Range (C12-C22)	010530TPHS-FP-LCSD	166.7	133	80	53 - 91	3.8
Diesel Range (C12-C22)	L0105247-02-MS	166.7	135	81	34 - 114	
Diesel Range (C12-C22)	L0105247-02-MSD	166.7	142	85	34 - 114	5.1
Total	010530TPHS-FP-LCS	166.7	128	77	53 - 91	
Total	010530TPHS-FP-LCSD	166.7	133	80	53 - 91	3.8
Total	L0105247-02-MS	166.7	135	81	34 - 114	
Total	L0105247-02-MSD	166.7	142	85	34 - 114	5.1

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1122
PROJECT #: 23081
TEST: Inorganic Non-Metals
MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
7.00 Buffer	010601PH2-LCS	7	6.98	100	99 - 101	

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: V1122
PROJECT #: 23081
TEST: TCLP/STLC Metals
MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Mercury	L5275HGTCLP-LCS	0.05	0.0515	103	85 - 115	
Mercury	L0105275-01-MS	0.05	0.0518	104	75 - 125	
Mercury	L0105275-01-MSD	0.05	0.056	112	75 - 125	7.8

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1122
 PROJECT #: 23081
 TEST: TCLP/STLC Metals
 MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Arsenic	L5275I-LCS	0.5	0.529	106	85 - 115	
Arsenic	L0105275-01-MS	0.5	0.553	111	75 - 125	
Arsenic	L0105275-01-MSD	0.5	0.547	109	75 - 125	1.1
Silver	L5275I-LCS	0.5	0.434	87	85 - 115	
Silver	L0105275-01-MS	0.5	0.45	90	75 - 125	
Silver	L0105275-01-MSD	0.5	0.455	91	75 - 125	1.1
Barium	L5275I-LCS	1	0.99	99	85 - 115	
Barium	L0105275-01-MS	1	1.2	120	75 - 125	
Barium	L0105275-01-MSD	1	1.19	119	75 - 125	0.8
Cadmium	L5275I-LCS	0.5	0.472	94	85 - 115	
Cadmium	L0105275-01-MS	0.5	0.484	97	75 - 125	
Cadmium	L0105275-01-MSD	0.5	0.505	101	75 - 125	4.2
Chromium	L5275I-LCS	0.5	0.478	96	85 - 115	
Chromium	L0105275-01-MS	0.5	0.504	101	75 - 125	
Chromium	L0105275-01-MSD	0.5	0.513	103	75 - 125	1.8
Lead	L5275I-LCS	1	0.928	93	85 - 115	
Lead	L0105275-01-MS	1	1.11	93	75 - 125	
Lead	L0105275-01-MSD	1	1.17	99	75 - 125	6.2
Selenium	L5275I-LCS	0.5	0.507	101	85 - 115	
Selenium	L0105275-01-MS	0.5	0.48	96	75 - 125	
Selenium	L0105275-01-MSD	0.5	0.485	97	75 - 125	1.

ND - Not Detected

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6.1D Level 1 LC1C02.FE

Bechtel Nevada

ANALYTICAL SERVICES LABORATORY SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/CLIENT INFORMATION		REPORT INFORMATION			SAMPLE INFORMATION
Project: CAU398	BN Org#: 2152	Send Report to: DAN TORBIASON			Sampling Site: CAU398
Charge No.: C7J33E11	ASL Prog.:	Phone: 5-6167	Fax: 5-7761	M/S: NTSJDL	The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input checked="" type="checkbox"/> 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: WAYNE JOHNSON		Turnaround: <input type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: <input checked="" type="checkbox"/> Rush Preliminary by 4/27/05 Final by: _____			
Phone: 5-0573	Fax: 5-7761	M/S: NTSJDL	Final report format: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other: _____		

LAB USE ONLY		ANALYSES & METHOD					SAMPLE RECEIPT INFORMATION																									
Rad SGD:	Non-Rad SGD: V1122	<table border="1"> <tr><td>TCMP METALS 6016</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td></tr> <tr><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td></tr> <tr><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td></tr> <tr><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td><td>TPH FULL SCAN 3015M</td></tr> </table>					TCMP METALS 6016	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____	
TCMP METALS 6016	TPH FULL SCAN 3015M						TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M																						
TPH FULL SCAN 3015M	TPH FULL SCAN 3015M						TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M																						
TPH FULL SCAN 3015M	TPH FULL SCAN 3015M						TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M																						
TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M																											
Rad Packet:	Non-Rad Packet:	Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____																														
Client Services Representative:		Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____																														
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation _____ CSR initials indicating review and approval: _____ Date: _____		COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)																														

ITEM	ID / DESCRIPTION	SAMPLING		MATRIX	TCMP METALS 6016	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M	TPH FULL SCAN 3015M
		DATE	TIME										
01	0 254401-1-0	5/24	0916	SOIL	X								
02	1 254401-2-0	5/24	0915	SOIL	X								
03	2 254401-3-0	5/24	0920	SOIL	X								
04	3 254404-1-0	5/24	1015	SOIL			X						
05	4 254404-2-0	5/24	1020	SOIL			X						
06	5 254404-3-0	5/24	1025	SOIL			X						
07	6 254404-4-0	5/24	1030	SOIL			X						
08	7 252503-1-0	5/24	1155	SOIL	X								
09	8 252503-2-0	5/24	1200	SOIL	X								
10	9 252503-1-1	5/24	1215	SOIL	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)	Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)
W. JOHNSON BND ER	5/24/05	CD Castaneda	CD Castaneda	5/29/05	BN COURIER
			Relinquished (Courier & Tracking Info.)	DATE / TIME	Received (1st tier Subcontractor Rep)
			VICE COURIER	5/29/05	AT FURCED
			Relinquished (1st tier Subcontractor Rep)	DATE / TIME	Received (2nd tier Subcontractor Rep)

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

610 6614 60105275



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

PROJECT/CLIENT INFORMATION		REPORT INFORMATION		SAMPLE INFORMATION	
Project: CAY 398	BN Orig#: 2/52	Send Report to: DAN DOBIASON	MIS: MS306	Sampling Site: CAY 398	The samples submitted contain (check):
Charge No.: CTJBBE11	ASL Prog: 5-669	Phone: 5-669	Fax: 5-7361	() Hazardous	() Radioactive
Project Manager: WAYNE DOBSON	Turnaround: 30 days	Final by: 14 DAYS		() Unknown	Identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.
Phone: 5-0573	Fax: 5-7761	Final report format: <input checked="" type="checkbox"/> Standard () NTS-WAC () Other:			
LAB USE ONLY		ANALYSES & METHOD			
Rad SGD: V1122	Non-Rad SGD:	TPH FULL SCAN 20/5TM	TCF METALS 6010, 7470	PCB: 8082	PAY ITCM
Rad Packet:	Non-Rad Packet:	TCF METALS 6010, 7470	TCF METALS 6010, 7470	TCF METALS 6010, 7470	TCF METALS 6010, 7470
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	COMMENTS	
0 252503-2-1	5/24/00	1220	SOIL	4% PCB 250000 JAR	
1 254403-1-0	5/24/00	1345	SOIL	4% PCB 250000 JAR	
2 254403-2-0	5/24/00	1350	SOIL	PERSONAL	
3 254403-3-0	5/24/00	1355	SOIL	4% PCB 250000 JAR	
4 254403-4-0	5/24/00	1400	SOIL	PERSONAL	
5 254403-6-0	5/24/00	1430	SOIL	PERSONAL	
6 252503-3-1	5/24/00	1220	SOIL	PERSONAL	
7					
8					
9					
Transfer of samples submitted for analyses					
Sampled/Relinquished (Signature/Organization)		DATE / TIME	Received by (Signature/Organization)	DATE / TIME	Received (Courier & Tracking Info.)
<i>[Signature]</i>		5/24/00	<i>[Signature]</i>	5/29/00	BN COURIER
				5/24/00	Received (1st tier Subcontractor Rep)
				5/24/00	Received (2nd tier Subcontractor Rep)

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

CLOSURE REPORT - CAU 398
Section: Appendix B
Revision: 1
Date: April 2003

SAMPLE DELIVERY GROUP

V1123

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CHAIN
OF
CUSTODY

43010K

PROJECT/CLIENT INFORMATION			REPORT INFORMATION			SAMPLE INFORMATION		
Project: <u>CAU 398</u>	BN Org#: <u>2152</u>	Send Report to: <u>DAN TORRES</u>	Phone: <u>5-6169</u>	Fax: <u>5-7761</u>	M/S: <u>NTS306</u>	Sampling Site: <u>CAU 398</u>		
Charge No.: <u>C7533E11</u>	ASL Prog.:	Turnaround: () Standard - 30 days Non-rad, 60 Days Rad, Other: _____	Final report format: <input checked="" type="checkbox"/> Standard () NTS-WAC () Other: _____			The samples submitted contain (check); () Hazardous () Radioactive <input checked="" type="checkbox"/> 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: <u>WAYNE JOHNSON</u>			Rush Preliminary by: <u>YADAMS</u>			Final by: _____		
Phone: <u>5-0573</u>	Fax: <u>5-7761</u>	M/S: <u>NTS306</u>						

LAB USE ONLY					ANALYSES & METHOD										SAMPLE RECEIPT INFORMATION				
Rad SGD: <u>V1123</u>	Non-Rad SGD:				20100111 PAY ITEM GAHHA - NGS-A-002														Are all sample containers received intact <input checked="" type="checkbox"/> Yes () No Comments: _____
Rad Packet:	Non-Rad Packet:																		Do the labels agree with this form? <input checked="" type="checkbox"/> Yes () No Comments: _____
Client Services Representative:																			Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes () No Comments: _____
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															
0	254401-3-0	5/24	0920	SOIL	X														
1	254404-2-0	5/24	1010	SOIL	X														
2	252503-2-0	5/24	1200	SOIL	X														
3	254403-1-0	5/24	1345	SOIL	X														
4																			
5																			
6																			
7																			
8																			
9																			

Transfer of samples submitted for analyses				Complete for samples shipped to an OFF-SITE Subcontract Laboratory <u>GEL</u>			
Sampled/Relinquished (Signature/Organization)	DATE / TIME	Received by (Signature/Organization)	Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)		
<u>Dan SFL BNER</u>	<u>5-24/01</u>	<u>CD Castaneda</u>	<u>CD Castaneda</u>	<u>5/29/01</u>	<u>1B PFD 817152673135</u>		
		<u>Daniel SFL 5/26/01</u>	Relinquished (Courier & Tracking Info.)	DATE / TIME	Received (1st tier Subcontractor Rep)		
			Relinquished (1st tier Subcontractor Rep)	DATE / TIME	Received (2nd tier Subcontractor Rep)		

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

2

COOLER
RECEIPT
CHECKLIST

SAMPLE RECEIPT REVIEW

Date 5-30-01

Client Becthel

Received by Justin Kendall

SAMPLE REVIEW CRITERIA		YES	NO	NA	COMMENTS/QUALIFIERS
1	Were shipping containers received intact and sealed? If no, notify the Project Manager	✓			
2	Were chain of custody documents included?	✓			
3	Shipping container temperature(s) checked:	✓			
4	Is temperature documented on Chain of Custody			✓	
5	Was shipping container temperature within specifications (4 +/- 2 C) If no, notify Project Manager	✓			5.2
6	Are any of the samples identified by the client as radioactive? If yes, complete radioactive receipt form			✓	
	Any samples not identified by the client as radioactive must be screened for radioactivity.			70	observed background CPM
	If screening results indicate > x2 background inform the RSO.			40	observed sample CPM
7	Were chain of custody documents completed correctly? (Ink, signed, match containers)	✓			
8	Were sample containers received intact and sealed? If no, notify the Project Manager	✓			
9	Were all sample containers properly labeled?	✓			
10	Were correct sample containers received?	✓			
11	Preserved samples checked for pH?			✓	nil
12	Were samples preserved correctly? If no, notify Project Manager			✓	
13	Were samples received within holding times? If No, notify Project Manager	✓			
14	Were VOA vials free of headspace?			✓	
15	ARCOC#				
16	SDG#				

PM(A) Review: _____

Date Reviewed: _____

Additional Comments:

RADIOLOGICAL
ANALYSIS

CASE
NARRATIVE

**Radiochemistry Case Narrative
Bechtel Nevada Corp. (NEVA)
SDG V1123**

Method/Analysis Information

Batch Number: 80749
Procedure: Determination of Gamma Isotopes in Water and Soil
Analytical Method: DOE EML HASL 300

Sample ID	Client ID
43010001	254401-3-0
43010002	254404-2-0
43010003	252503-2-0
43010004	254403-1-0
1200013917	MB for batch 80749
1200013918	254402-1-0(42918001DUP)
1200013919	LCS for batch 80749

SOP Reference

Procedures for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, Inc. as Standard Operating Procedures (SOP). The data discussed in this narrative has been prepared and analyzed in accordance with GL-RAD-A-013.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume(s) in this batch.

Designated QC

The following sample(s) was used for QC: 42918001.

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

No NCR were generated for the preparation or analysis of this sample set.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

K-40 is being reported in all samples in this batch.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Booby Christopher Date: 6/7/01



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company: Bechtel Nevada Corp.
 Address: 2621 Losee Road
 North Las Vegas, NV 89030-4134

Report Date: June 7, 2001

Contact: Ted Redding
 Project: Environmental Rad Services

Page 1 of 1

Client Sample ID: 254401-3-0
 Sample ID: 43010001
 Matrix: Soil
 Collect Date: 24-MAY-01
 Receive Date: 30-MAY-01
 Collector: Client
 Project: NEVA102000
 Client ID: NEVA001

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec												
<i>Gammascpec, Gamma, solid</i>												
Americium-241	U	0.0811	+/-0.0392	0.0846	0.0392	0.200						
Cesium-137		0.157	+/-0.0432	0.0267	0.0432	1.00						
Potassium-40		1.65	+/-0.350	0.230	0.350	0.500						
Uranium-235		0.901	+/-0.290	0.256	0.290	0.200						
Uranium-238		6.89	+/-2.04	0.731	2.04	2.00						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep RAD A-021,A-021B,A-026	CCM1	05/31/01	1534	80663

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300

Notes:

The Qualifiers in this report are defined as follows :

- ** Indicates the analyte is a surrogate compound.
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- > Actual result is greater than amount reported
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- U Indicates the compound was analyzed for but not detected above the detection limit

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Stacy L. Griffin at 843-556-8171 Ext. 4264.

Reviewed by



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company: Bechtel Nevada Corp.
Address: 2621 Losee Road
North Las Vegas, NV 89030-4134

Report Date: June 7, 2001

Contact: Ted Redding
Project: Environmental Rad Services

Page 1 of 1

Client Sample ID: 254404-2-0
Sample ID: 43010002
Matrix: Soil
Collect Date: 24-MAY-01
Receive Date: 30-MAY-01
Collector: Client

Project: NEVA102000
Client ID: NEVA001

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec												
<i>Gammascpec, Gamma, solid</i>												
Americium-241	U	0.000845	+/-0.0474	0.0899	0.0474	0.200		CRB	06/04/01	2233	80749	1
Cesium-137		0.0464	+/-0.030	0.0249	0.030	1.00						
Potassium-40		31.0	+/-3.42	0.217	3.42	0.500						
Uranium-235	U	0.142	+/-0.143	0.162	0.143	0.200						
Uranium-238		0.970	+/-0.815	0.771	0.815	2.00						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep RAD A-021,A-021B,A-026	CCM1	05/31/01	1534	80663

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300

Notes:

The Qualifiers in this report are defined as follows :

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Certificate of Analysis

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 Address: 2621 Losee Road
 North Las Vegas, NV 89030-4134

Report Date: June 7, 2001

Contact: Ted Redding
 Project: Environmental Rad Services

Page 1 of 1

Client Sample ID: 252503-2-0
 Sample ID: 43010003
 Matrix: Soil
 Collect Date: 24-MAY-01
 Receive Date: 30-MAY-01
 Collector: Client

Project: NEVA102000
 Client ID: NEVA001

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec												
<i>GammaSpec, Gamma, solid</i>												
Americium-241	U	-0.0145	+/-0.0401	0.0703	0.0401	0.200		CRB	06/05/01	0057	80749	1
Cesium-137	U	0.0095	+/-0.0276	0.0488	0.0276	1.00						
Potassium-40		36.3	+/-3.88	0.465	3.88	0.500						
Uranium-235	U	0.112	+/-0.194	0.223	0.194	0.200						
Uranium-238		2.08	+/-0.948	0.680	0.948	2.00						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep RAD A-021,A-021B,A-026	CCM1	05/31/01	1534	80663

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300

Notes:

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Reviewed by _____

[Handwritten Signature]



GENERAL ENGINEERING LABORATORIES

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Certificate of Analysis

Company: Bechtel Nevada Corp.
 Address: 2621 Losee Road
 North Las Vegas, NV 89030-4134

Report Date: June 7, 2001

Contact: Ted Redding
 Project: Environmental Rad Services

Page 1 of 1

Client Sample ID: 254403-1-0
 Sample ID: 43010004
 Matrix: Soil
 Collect Date: 24-MAY-01
 Receive Date: 30-MAY-01
 Collector: Client

Project: NEVA102000
 Client ID: NEVA001

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec												
<i>Gamma spec, Gamma, solid</i>												
Americium-241	U	0.0796	+/-0.121	0.161	0.121	0.200	pCi/g	CRB	06/04/01	1144	80749	1
Cesium-137		0.188	+/-0.0538	0.0318	0.0538	1.00	pCi/g					
Potassium-40		30.6	+/-3.68	0.308	3.68	0.500	pCi/g					
Uranium-235	U	0.000765	+/-0.144	0.214	0.144	0.200	pCi/g					
Uranium-238	U	0.772	+/-1.50	1.42	1.50	2.00	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep RAD A-021,A-021B,A-026	CCM1	05/31/01	1534	80663

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300

Notes:

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Reviewed by _____




GENERAL ENGINEERING LABORATORIES

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QC Summary

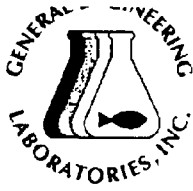
Report Date: June 7, 2001
Page 1 of 2

Client : Bechtel Nevada Corp.
2621 Losee Road
North Las Vegas, NV 89030-4134
Contact: Ted Redding
Workorder: 43010

Parname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gamma Spec Batch 80749									
QC1200013918 42918001 DUP Americium-241	U	-0.00041	U 0.0291	pCi/g	N/A		(+/-0.200)	CRB	06/05/01 01:04
		Uncert: +/-0.0574	+/-0.115						
		TPU: 0.0574	0.115						
Cesium-137		0.048	0.0378	pCi/g	24 ^		(+/-1.00)		
		Uncert: +/-0.023	+/-0.0292						
		TPU: 0.023	0.0292						
Potassium-40		35.2	35.6	pCi/g	1				
		Uncert: +/-3.91	+/-4.21						
		TPU: 3.91	4.21						
Uranium-235	U	0.0615	U 0.056	pCi/g	10 ^		(+/-0.200)		
		Uncert: +/-0.159	+/-0.172						
		TPU: 0.159	0.172						
Uranium-238	U	0.752	1.90	pCi/g	87 ^		(+/-2.00)		
		Uncert: +/-0.975	+/-1.56						
		TPU: 0.975	1.56						
QC1200013919 LCS Americium-241			1220	pCi/g					06/05/01 07:09
		Uncert: +/-132	132						
		TPU: 441	486	pCi/g		110	(75%-125%)		
Cesium-137		Uncert: +/-61.1	61.1						
		TPU: 61.1							
Potassium-40	U	-0.383	pCi/g						
		Uncert: +/-2.19	2.19						
		TPU: 2.19							
Uranium-235	U	0.744	pCi/g						
		Uncert: +/-1.81	1.81						
		TPU: 1.81							
Uranium-238	U	-1.93	pCi/g						
		Uncert: +/-6.52	6.52						
		TPU: 6.52							
QC1200013917 MB Americium-241			0.030	pCi/g					06/05/01 07:08
		Uncert: +/-0.0852	0.0852						
		TPU: 0.0211							
Cesium-137	U	0.0211	pCi/g						
		Uncert: +/-0.0117	0.0117						
		TPU: 0.0117							
Potassium-40	U	0.253	pCi/g						
		Uncert: +/-0.181	0.181						
		TPU: 0.181							
Uranium-235	U	0.0501	pCi/g						
		Uncert: +/-0.102							

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GENERAL ENGINEERING LABORATORIES

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QC Summary

Workorder: 43010

Page 2 of 2

Paramname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	80749									
Uranium-238		TPU:		0.102						
			U	0.919	pCi/g					
		Uncert:		+/-0.650						
		TPU:		0.650						

Notes:

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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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SAMPLE DELIVERY GROUP

V1139

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CHAIN
OF
CUSTODY

43345%

PROJECT/CLIENT INFORMATION				REPORT INFORMATION				SAMPLE INFORMATION				
Project: <u>CAU 378</u>		BN Org#: <u>2152</u>		Send Report to: <u>DAN TOBIASSEN</u>		Sampling Site: <u>CAU 378</u>		The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input checked="" type="checkbox"/> 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>C7J3E11</u>		ASL Prog.:		Phone: <u>5-6169</u>		Fax: <u>5-7761</u>						M/S: <u>NDJ06</u>
Project Manager: <u>WAYNE JOHNSON</u>				Turnaround: <input type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: _____				SAMPLE RECEIPT INFORMATION Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____ Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____ Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____ COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) <u>4cc @ SWM. Ndy...</u> <u>per sample</u>				
Phone: <u>5-0573</u>		Fax: <u>5-7761</u>		M/S: <u>NDJ06</u>		Final report format: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other: _____						
LAB USE ONLY				ANALYSES & METHOD								
Rad SGD: <u>V1139</u>		Non-Rad SGD:		20 min Gamma 90i.1 PMM ITEM GAMMA-NGS-A-002								
Rad Packet:		Non-Rad Packet:										
Client Services Representative:												
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO												
If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A												
If not, identify the variation _____												
CSR initials indicating review and approval: _____ Date _____												
I T E M	ID / DESCRIPTION	SAMPLING		MATRIX								
		DATE	TIME									
0	252506-3-0	5/31/01	1128	SOIL	X							
1	252506-6-0		1140		X							
2	252517-1-1		1312		X							
3	252502-1-1		1402		X							
4												
5												
6												
7												
8												
9												

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

COOLER
RECEIPT
CHECKLIST

SAMPLE RECEIPT REVIEW

Date: 6-3-01
 Client: Bechtel NW
 Received by: MK

SAMPLE REVIEW CRITERIA		YES	NO	N/A	COMMENT/SQUALIFIERS
1	Were shipping containers received intact and sealed? If no, notify the Project Manager	<input checked="" type="checkbox"/>			
2	Were chain of custody documents included?	<input checked="" type="checkbox"/>			
3	Shipping container temperature(s) checked:	<input checked="" type="checkbox"/>			20°
4	Is temperature documented on Chain of Custody	<input checked="" type="checkbox"/>			
5	Was shipping container temperature within specifications (4 +/- 2 C) If no, notify Project Manager	<input checked="" type="checkbox"/>			
6	Are any of the samples identified by the client as radioactive? If yes, complete radioactive receipt form	<input checked="" type="checkbox"/>			
	Any samples not identified by the client as radioactive must be screened for radioactivity.				
	If screening results indicate > x2 background inform the RSO.				
7	Were chain of custody documents completed correctly? (Ink, signed, match containers)	<input checked="" type="checkbox"/>			
8	Were sample containers received intact and sealed? If no, notify the Project Manager	<input checked="" type="checkbox"/>			
9	Were all sample containers properly labeled?	<input checked="" type="checkbox"/>			
10	Were correct sample containers received?	<input checked="" type="checkbox"/>			
11	Preserved samples checked for pH?	<input checked="" type="checkbox"/>			
12	Were samples preserved correctly? If no, notify Project Manager	<input checked="" type="checkbox"/>			
13	Were samples received within holding time? If No, notify Project Manager	<input checked="" type="checkbox"/>			
14	Were VOA vials free of headspace?	<input checked="" type="checkbox"/>			
15	ARCO#				
16	SDG#				

PM(A) Review: _____

Date Reviewed: _____

Additional Comments:

FED EX # 8279 1415 4653

DATA REVIEW
QUALIFIER FLAG
DEFINITION SHEET

General Engineering Laboratories, Inc.

DATA QUALIFIERS FOR INORGANIC ANALYSES

Data Qualifiers used on Form 1s or Certificates of Analysis (C Of A) follow the specifications set forth in the technical specifications of the most current CLP Statement of Work and are defined as follows.

Section	Explanation	Location
E	The qualifier that is used when the percent difference between the parent sample and its serial dilution's concentrations exceeds 10%. The sample's concentration must be greater than 50 times the IDL/MDL for ICP (6010B/ILMO 3.0) or 100 times the absolute value of the preparation blank's concentration (6020). However, if analyzing ILMO 4.0 (ICP-MS), the parent sample's concentration must be 20 times the CRDL before the "E" flag is applied.	Form 1, and EDD
*	The qualifier that is used to indicate that the duplicate sample analysis for an analyte is out of control.	Form 1, and EDD
+	Correlation coefficient the Method of Standard Addition (MSA) is less than 0.095.	Form 2, and EDD
B	The qualifier is used to indicate that the reported result fell above the IDL/MDL but below the CRDL.	Form 1, and EDD
M	The qualifier is used to indicate that the replicate injection readings of the GFAA sample analysis do not agree within 20% relative standard deviation (RSD) or coefficient of variation (CV).	Form 1, and EDD
N	This qualifier is used to indicate that the matrix or pre-digested spike sample recovery for an analyte is not within the specified control limit.	Form 1, and EDD
S	The reported value was determined by the Method of Standard Addition (MSA).	Form 1, and EDD
U	The analyte's result was less than the IDL/MDL.	C of A, Form 1, and EDD
W	Post-digestion spike for GFAA analysis is out of control limits (85%-115%), while sample results are less than 50% of the spike absorbance.	EDD, and Form 5, part 2
X	Other reporting flag as defined in report narrative.	Form 1, and EDD
**	This qualifier is used to indicate that the Laboratory Control Sample (LCS) recovery for an analyte is outside of the specified limits.	QC Summary Report

All surrogate recoveries and acceptance ranges are reported at the bottom of Form 2 or C of A.
 Any recoveries falling outside the acceptance range will be flagged with a "**".
 All flags do not apply to QC Summary and Certificate of Analysis packages.

RADIOLOGICAL ANALYSIS

CASE
NARRATIVE

**Radiochemistry Case Narrative
Bechtel Nevada Corp. (NEVA)
SDG V1139**

Method/Analysis Information

Batch Number: 82420
Procedure: Determination of Gamma Isotopes in Water and Soil
Analytical Method: DOE EML HASL 300

Sample ID	Client ID
43345001	252506-3-0
43345002	252506-6-0
43345003	252517-1-1
43345004	252502-1-1
1200018241	MB for batch 82420
1200018242	252506-3-0(43345001DUP)
1200018243	LCS for batch 82420

SOP Reference

Procedures for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, Inc. as Standard Operating Procedures (SOP). The data discussed in this narrative has been prepared and analyzed in accordance with GL-RAD-A-013.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume(s) in this batch.

Designated QC

The following sample(s) was used for QC: 43345001.

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

No NCR were generated for the preparation or analysis of this sample set.

Manual Integration

No manual integrations were performed on data in this batch.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: *D. Moore* Date: 12 Jul 2001



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company : Bechtel Nevada Corp.
 Address : 2621 Losee Road
 North Las Vegas, NV 89030-4134

Report Date: June 20, 2001

Contact: Ted Redding
 Project: Environmental Rad Services

Page 1 of 1

Client Sample ID: 252506-3-0
 Sample ID: 43345001
 Matrix: Soil
 Collect Date: 31-MAY-01
 Receive Date: 05-JUN-01
 Collector: Client
 Project: NEVA102000
 Client ID: NEVA001

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Gamma Spec										
<i>Gamma spec, Gamma, solid</i>										
Americium-241	U	0.235	+/-0.283	0.295	0.283	0.200		CRB 06/14/01	0741	82420 1
Cesium-137		0.0542	+/-0.0469	0.0417	0.0469	1.00				
Potassium-40		38.4	+/-4.66	0.363	4.66					
Uranium-235	U	0.129	+/-0.214	0.256	0.214	0.200				
Uranium-238	U	0.951	+/-2.08	2.23	2.08	2.00				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep RAD A-021,A-021B,A-026	WEO	06/06/01	1126	81601

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL 300

Notes:

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Contact: Ted Redding
 Project: Environmental Rad Services

Page 1 of 1

Client Sample ID: 252506-6-0
 Sample ID: 43345002
 Matrix: Soil
 Collect Date: 31-MAY-01
 Receive Date: 05-JUN-01
 Collector: Client

Project: NEVA102000
 Client ID: NEVA001

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Gamma Spec											
<i>GammaSpec, Gamma, solid</i>											
Americium-241	U	0.0681	+/-0.0855	0.093	0.0855	0.200	pCi/g	CRB	06/14/01	0742	82420 1
Cesium-137	U	-0.023	+/-0.0327	0.0565	0.0327	1.00	pCi/g				
Potassium-40		34.8	+/-1.47	0.385	1.48		pCi/g				
Uranium-235	U	0.172	+/-0.256	0.299	0.256	0.200	pCi/g				
Uranium-238		2.20	+/-1.13	0.908	1.13	2.00	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep RAD A-021,A-021B,A-026	WEO	06/06/01	1126	81601

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL 300

Notes:

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Reviewed by 



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Certificate of Analysis

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 Address: 2621 Losee Road
 North Las Vegas, NV 89030-4134

Report Date: June 20, 2001

Contact: Ted Redding
 Project: Environmental Rad Services

Page 1 of 1

Client Sample ID: 252517-1-1
 Sample ID: 43345003
 Matrix: Soil
 Collect Date: 31-MAY-01
 Receive Date: 05-JUN-01
 Collector: Client

Project: NEVA102000
 Client ID: NEVA001

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec												
<i>GammaSpec, Gamma, solid</i>												
Americium-241	U	0.00649	+/-0.0389	0.0686	0.0389	0.200						
Cesium-137	U	-0.00384	+/-0.0288	0.0495	0.0288	1.00						
Potassium-40		29.4	+/-3.17	0.385	3.17							
Uranium-235	U	0.0621	+/-0.238	0.236	0.238	0.200						
Uranium-238		1.45	+/-0.873	0.666	0.873	2.00						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep RAD A-021,A-021B,A-026	WEO	06/06/01	1126	81601

The following Analytical Methods were performed

Method	Description
I	DOE EML HASL 300

Notes:

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- U Indicates the compound was analyzed for but not detected above the detection limit

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Stacy L. Griffin at 843-556-8171 Ext. 4264.

M. Moore

Reviewed by



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company : Bechtel Nevada Corp.
 Address : 2621 Losee Road
 North Las Vegas, NV 89030-4134

Report Date: June 20, 2001

Contact: Ted Redding
 Project: Environmental Rad Services

Page 1 of 1

Client Sample ID: 252502-1-1
 Sample ID: 43345004
 Matrix: Soil
 Collect Date: 31-MAY-01
 Receive Date: 05-JUN-01
 Collector: Client

Project: NEVA102000
 Client ID: NEVA001

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec												
<i>GammaSpec, Gamma, solid</i>												
Americium-241	U	-0.031	+/-0.077	0.140	0.077	0.200						
Cesium-137		0.110	+/-0.0239	0.0229	0.0239	1.00						
Potassium-40		21.3	+/-2.57	0.233	2.57							
Uranium-235	U	0.0434	+/-0.123	0.172	0.123	0.200						
Uranium-238	U	0.731	+/-1.08	1.15	1.08	2.00						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep RAD A-021,A-021B,A-026	WEO	06/06/01	1126	81601

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300

Notes:

The Qualifiers in this report are defined as follows :

- ** Indicates the analyte is a surrogate compound.
- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the compound was analyzed for but not detected above the detection limit

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Stacy L. Griffin at 843-556-8171 Ext. 4264.

Reviewed by _____




GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

QC Summary

Report Date: July 12, 2001

Page 1 of 2

Client : Bechtel Nevada Corp.
 2621 Losee Road
 North Las Vegas, NV 89030-4134
 Contact: Ted Redding
 Workorder: 43345

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch 82420											
QC1200018242 43345001 DUP											
Americium-241		U	0.235	U	0.0596	pCi/g	119 ^	(+/-0.200)	CRB	06/14/01	13:52
		Uncert:	+/-0.283		+/-0.120						
		TPU:	0.283		0.120						
Cesium-137			0.0542	U	0.0269	pCi/g	67 ^	(+/-1.00)			
		Uncert:	+/-0.0469		+/-0.0251						
		TPU:	0.0469		0.0251						
Potassium-40			38.4		38.6	pCi/g	1				
		Uncert:	+/-4.66		+/-4.55						
		TPU:	4.66		4.55						
Uranium-235		U	0.129	U	0.00889	pCi/g	174 ^	(+/-0.200)			
		Uncert:	+/-0.214		+/-0.133						
		TPU:	0.214		0.133						
Uranium-238		U	0.951		1.93	pCi/g	68 ^	(+/-2.00)			
		Uncert:	+/-2.08		+/-1.69						
		TPU:	2.08		1.69						
QC1200018243 LCS											
Americium-241					1250	pCi/g				06/14/01	13:53
		Uncert:			+/-135						
		TPU:			135						
Cesium-137		441			487	pCi/g	110	(75%-125%)			
		Uncert:			+/-61.1						
		TPU:			61.1						
Potassium-40				U	0.923	pCi/g					
		Uncert:			+/-1.55						
		TPU:			1.55						
Uranium-235				U	0.966	pCi/g					
		Uncert:			+/-1.29						
		TPU:			1.29						
Uranium-238				U	-1.17	pCi/g					
		Uncert:			+/-4.64						
		TPU:			4.64						
QC1200018241 MB											
Americium-241				U	-0.00539	pCi/g				06/14/01	09:33
		Uncert:			+/-0.0369						
		TPU:			0.0369						
Cesium-137				U	0.00704	pCi/g					
		Uncert:			+/-0.012						
		TPU:			0.012						
Potassium-40				U	0.0295	pCi/g					
		Uncert:			+/-0.234						
		TPU:			0.234						
Uranium-235				U	0.038	pCi/g					
		Uncert:			+/-0.140						

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

QC Summary

Workorder: 43345

Page 2 of 2

Parname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	82420									
Uranium-238		TPU:	0.140							
		U	0.0446	pCi/g						
		Uncert:	+/-0.651							
		TPU:	0.651							

Notes:

The Qualifiers in this report are defined as follows:

- ** Indicates the analyte is a surrogate compound.
- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the compound was analyzed for but not detected above the detection limit

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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SAMPLE DELIVERY GROUP

V1140

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NEL LABORATORIES

Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 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

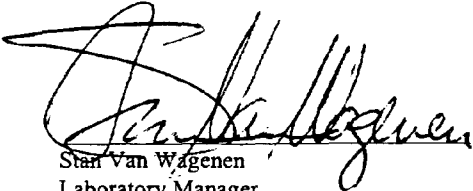
PROJECT NAME: V1140
PROJECT NUMBER: 23081

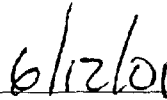
NEL ORDER ID: L0106022

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 6/4/01.

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


Stan Van Wagenen
Laboratory Manager


Date

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

CLIENT: Bechtel Nevada
PROJECT ID: V1140
PROJECT #: 23081

CLIENT ID: 252506-1-0
DATE SAMPLED: 5/31/01
NEL SAMPLE ID: L0106022-01

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: CCS - Las Vegas Division
EXTRACTED: 6/5/01
ANALYZED: 6/6/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	72	54 - 130

ND - Not Detected

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

CLIENT: Bechtel Nevada
PROJECT ID: V1140
PROJECT #: 23081

CLIENT ID: 252506-2-0
DATE SAMPLED: 5/31/01
NEL SAMPLE ID: L0106022-02

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: CCS - Las Vegas Division
EXTRACTED: 6/5/01
ANALYZED: 6/6/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	79	54 - 130

ND - Not Detected

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CLIENT: Bechtel Nevada
PROJECT ID: V1140
PROJECT #: 23081

CLIENT ID: 252506-3-0
DATE SAMPLED: 5/31/01
NEL SAMPLE ID: L0106022-03

TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: CCS - Las Vegas Division
EXTRACTED: 6/5/01
ANALYZED: 6/6/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	84	54 - 130

ND - Not Detected

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CLIENT: Bechtel Nevada
PROJECT ID: V1140
PROJECT #: 23081

CLIENT ID: 252506-4-0
DATE SAMPLED: 5/31/01
NEL SAMPLE ID: L0106022-04

TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: CCS - Las Vegas Division
EXTRACTED: 6/5/01
ANALYZED: 6/6/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	83	54 - 130

ND - Not Detected

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CLIENT: Bechtel Nevada
PROJECT ID: V1140
PROJECT #: 23081

CLIENT ID: 252506-5-0
DATE SAMPLED: 5/31/01
NEL SAMPLE ID: L0106022-05

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: CCS - Las Vegas Division
EXTRACTED: 6/5/01
ANALYZED: 6/6/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	83	54 - 130

ND - Not Detected

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CLIENT: Bechtel Nevada
PROJECT ID: V1140
PROJECT #: 23081

CLIENT ID: 252506-6-0
DATE SAMPLED: 5/31/01
NEL SAMPLE ID: L0106022-06

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: CCS - Las Vegas Division
EXTRACTED: 6/5/01
ANALYZED: 6/6/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	79	54 - 130

ND - Not Detected

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

CLIENT: Bechtel Nevada
PROJECT ID: V1140
PROJECT #: 23081

CLIENT ID: 252506-7-0
DATE SAMPLED: 5/31/01
NEL SAMPLE ID: L0106022-07

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: CCS - Las Vegas Division
EXTRACTED: 6/5/01
ANALYZED: 6/6/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	84	54 - 130

ND - Not Detected

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

CLIENT: Bechtel Nevada
PROJECT ID: V1140
PROJECT #: 23081

CLIENT ID: 252506-8-0
DATE SAMPLED: 5/31/01
NEL SAMPLE ID: L0106022-08

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: CCS - Las Vegas Division
EXTRACTED: 6/5/01
ANALYZED: 6/6/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	77	54 - 130

ND - Not Detected

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

CLIENT: Bechtel Nevada
PROJECT ID: V1140
PROJECT #: 23081

CLIENT ID: 252506-9-0
DATE SAMPLED: 5/31/01
NEL SAMPLE ID: L0106022-09

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M ANALYST: CCS - Las Vegas Division
MATRIX: Solid EXTRACTED: 6/5/01
DILUTION: 1 ANALYZED: 6/5/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	89	54 - 130

ND - Not Detected

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

CLIENT: Bechtel Nevada
PROJECT ID: V1140
PROJECT #: 23081

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010605TPHS-FP1-BLK

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid

ANALYST: CCS - Las Vegas Division
EXTRACTED: 6/5/01
ANALYZED: 6/5/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	93	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1140
PROJECT #: 23081
TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Diesel Range (C12-C22)	010605TPHS-FP1-LCS	166.7	154	92	53 - 91	
Diesel Range (C12-C22)	010605TPHS-FP1-LCSD	166.7	160	96	53 - 91	3.8
Total	010605TPHS-FP1-LCS	166.7	154	92	53 - 91	
Total	010605TPHS-FP1-LCSD	166.7	160	96	53 - 91	3.8

ND - Not Detected

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

Bechtel Nevada

ANALYTICAL SERVICES LABORATORY SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT / CLIENT INFORMATION			REPORT INFORMATION			SAMPLE INFORMATION		
Project: <u>CAN 398</u>	BN Org#: <u>2152</u>	Send Report to: <u>DAN TORIBARON</u>	Phone: <u>5-6169</u>	Fax: <u>5-7761</u>	M/S: <u>NTS 306</u>	Sampling Site: <u>CAN 398</u>		
Charge No.: <u>C753JE11</u>	ASL Prog.:	Turnaround: <input type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: _____				The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input checked="" type="checkbox"/> 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: <u>WAYNE JOHNSON</u>	Final report format: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other: _____							
Phone: <u>5-0573</u>	Fax: <u>5-7764</u>	M/S: <u>NTS 306</u>						

LAB USE ONLY				ANALYSES & METHOD								SAMPLE RECEIPT INFORMATION	
Rad SGD:	Non-Rad SGD: <u>V1140</u>			<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> TPH FULL SCAN 3015M TPH ITEM TPH - 10.19.10.21 </div>								Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____	
Rad Packet:	Non-Rad Packet:											Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____	
Client Services Representative:												Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____	
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation _____ CSR initials indicating review and approval: _____ Date: _____												COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)	

ITEM	ID / DESCRIPTION	SAMPLING		MATRIX															
		DATE	TIME																
01	252506-1-0	5/31/07	1120	SOIL	X														
02	252506-2-0		1125		X														
03	252506-3-0		1128		X														
04	252506-4-0		1130		X														
05	252506-5-0		1155		X														
06	252506-6-0		1140		X														
07	252506-7-0		1145		X														
08	252506-8-0		1200		X														
09	252506-9-0		1200		X														
	LAST ITEM																		

Transfer of samples submitted for analyses				Complete for samples shipped to an OFF-SITE Subcontract Laboratory <u>NIEL</u>			
Sampled/Relinquished (Signature/Organization)	DATE / TIME	Received by (Signature/Organization)	Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)	Relinquished (Courier & Tracking Info.)	Received (1st tier Subcontractor Rep)
<u>D. S. R. B. / ER</u>	<u>5/31/07 11:47</u>	<u>CA Castaneda</u>	<u>CA Castaneda</u>	<u>6/4/07 13:00</u>	<u>BN COURIER</u>	<u>VIC COURIER</u>	<u>6/19/07 15:00</u>

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

BN-0732 (02/98)

NEL LABORATORIES

Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 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: V1140
PROJECT NUMBER: 23081

NEL ORDER ID: L0106023

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 6/4/01.

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:

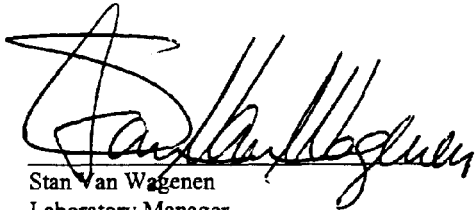
Di - Results reported from analysis at a higher dilution.

Some QA results have been flagged as follows:

C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.

Some surrogate results have been flagged as follows:

D - Sample required dilution. Sample QC results were diluted outside the calibrated range.



Stan Van Wagenen
Laboratory Manager

6/22/01
Date

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: V1140
 PROJECT #: 23081

CLIENT ID: 252517-1-1
 DATE SAMPLED: 5/31/01
 NEL SAMPLE ID: L0106023-01

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996

METHOD: EPA 8082
 MATRIX: Solid
 DILUTION: 1

ANALYST: JRW - Las Vegas Division
 EXTRACTED: 6/18/01
 ANALYZED: 6/7/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	39 µg/kg	20. µg/kg
Aroclor-1260	39 µg/kg	20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	75	46 - 155
Tetrachloro-m-xylene	75	49 - 140

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 252517-2-1
PROJECT ID: V1140	DATE SAMPLED: 5/31/01
PROJECT #: 23081	NEL SAMPLE ID: L0106023-02

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996	
METHOD: EPA 8082	ANALYST: JRW - Las Vegas Division
MATRIX: Solid	EXTRACTED: 6/18/01
DILUTION: 1	ANALYZED: 6/7/01

PARAMETER	Result	Reporting Limit
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	310 µg/kg	20. µg/kg
Aroclor-1260	310 µg/kg	20. µg/kg

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
Decachlorobiphenyl	90	46 - 155
Tetrachloro-m-xylene	105	49 - 140

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 252517-3-1
PROJECT ID: V1140	DATE SAMPLED: 5/31/01
PROJECT #: 23081	NEL SAMPLE ID: L0106023-03

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996	ANALYST: JRW - Las Vegas Division
METHOD: EPA 8082	EXTRACTED: 6/18/01
MATRIX: Solid	ANALYZED: 6/7/01
DILUTION: 1	

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	55 µg/kg	20. µg/kg
Aroclor-1260	55 µg/kg	20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	77	46 - 155
Tetrachloro-m-xylene	91	49 - 140

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	252502-1-1
PROJECT ID:	V1140	DATE SAMPLED:	5/31/01
PROJECT #:	23081	NEL SAMPLE ID:	L0106023-04
TEST:	PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996		
METHOD:	EPA 8082	ANALYST:	JRW - Las Vegas Division
MATRIX:	Solid	EXTRACTED:	6/18/01
DILUTION:	1	ANALYZED:	6/7/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	2850 Di µg/kg	100. µg/kg
Aroclor-1260	2850 Di µg/kg	100. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	71	46 - 155
Tetrachloro-m-xylene	66	49 - 140

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	252502-2-1 MS/MSD
PROJECT ID:	V1140	DATE SAMPLED:	5/31/01
PROJECT #:	23081	NEL SAMPLE ID:	L0106023-05
TEST:	PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996		
METHOD:	EPA 8082	ANALYST:	JRW - Las Vegas Division
MATRIX:	Solid	EXTRACTED:	6/18/01
DILUTION:	1	ANALYZED:	6/7/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	4600 Di µg/kg	200. µg/kg
Aroclor-1260	4600 Di µg/kg	200. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	98	46 - 155
Tetrachloro-m-xylene	83	49 - 140

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 252502-3-1
PROJECT ID: V1140	DATE SAMPLED: 5/31/01
PROJECT #: 23081	NEL SAMPLE ID: L0106023-06

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996	
METHOD: EPA 8082	ANALYST: JRW - Las Vegas Division
MATRIX: Solid	EXTRACTED: 6/18/01
DILUTION: 1	ANALYZED: 6/7/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	1700 Di µg/kg	100. µg/kg
Aroclor-1260	1700 Di µg/kg	100. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	99	46 - 155
Tetrachloro-m-xylene	72	49 - 140

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 252517-1-1
PROJECT ID: V1140	DATE SAMPLED: 5/31/01
PROJECT #: 23081	NEL SAMPLE ID: L0106023-01
TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992	
METHOD: EPA 8015M	ANALYST: CCS - Las Vegas Division
MATRIX: Solid	EXTRACTED: 6/6/01
DILUTION: 1	ANALYZED: 6/8/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	47 mg/kg	10. mg/kg
Oil Range (C12-C34)	600 mg/kg	50. mg/kg
Total	647 mg/kg	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	63	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 252517-2-1
PROJECT ID: V1140	DATE SAMPLED: 5/31/01
PROJECT #: 23081	NEL SAMPLE ID: L0106023-02
TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992	
METHOD: EPA 8015M	ANALYST: CCS - Las Vegas Division
MATRIX: Solid	EXTRACTED: 6/6/01
DILUTION: 1	ANALYZED: 6/8/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	530 mg/kg	50. mg/kg
Total	530 mg/kg	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	77	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	252517-3-1
PROJECT ID:	V1140	DATE SAMPLED:	5/31/01
PROJECT #:	23081	NEL SAMPLE ID:	L0106023-03
TEST:	Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992		
METHOD:	EPA 8015M	ANALYST:	CCS - Las Vegas Division
MATRIX:	Solid	EXTRACTED:	6/6/01
DILUTION:	1	ANALYZED:	6/8/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	25 mg/kg	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	25 mg/kg	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	75	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	252502-1-1
PROJECT ID:	V1140	DATE SAMPLED:	5/31/01
PROJECT #:	23081	NEL SAMPLE ID:	L0106023-04
TEST:	Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992		
METHOD:	EPA 8015M	ANALYST:	CCS - Las Vegas Division
MATRIX:	Solid	EXTRACTED:	6/6/01
DILUTION:	1	ANALYZED:	6/8/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	56 mg/kg	10. mg/kg
Oil Range (C12-C34)	510 mg/kg	50. mg/kg
Total	566 mg/kg	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	77	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 252502-2-1 MS/MSD
PROJECT ID: V1140	DATE SAMPLED: 5/31/01
PROJECT #: 23081	NEL SAMPLE ID: L0106023-05
TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992	
METHOD: EPA 8015M	ANALYST: CCS - Las Vegas Division
MATRIX: Solid	EXTRACTED: 6/6/01
DILUTION: 2	ANALYZED: 6/8/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	20. mg/kg
Diesel Range (C12-C22)	350 mg/kg	20. mg/kg
Oil Range (C12-C34)	1600 mg/kg	100. mg/kg
Total	1950 mg/kg	20. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	D	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081

CLIENT ID: **252502-3-1**
 DATE SAMPLED: 5/31/01
 NEL SAMPLE ID: L0106023-06

TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
 METHOD: EPA 8015M
 ANALYST: CCS - Las Vegas Division
 MATRIX: Solid
 EXTRACTED: 6/6/01
 DILUTION: 5
 ANALYZED: 6/8/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	50. mg/kg
Diesel Range (C12-C22)	640 mg/kg	50. mg/kg
Oil Range (C12-C34)	2800 mg/kg	250. mg/kg
Total	3440 mg/kg	50. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	D	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada CLIENT ID: Method Blank
 PROJECT ID: V1140 DATE SAMPLED: NA
 PROJECT #: 23081 NEL SAMPLE ID: 010605PCBS-BLK

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996
 METHOD: EPA 8082 ANALYST: JRW - Las Vegas Division
 MATRIX: Solid EXTRACTED: 6/18/01
 ANALYZED: 6/7/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	ND	20. µg/kg
Aroclor-1260	ND	20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	83	46 - 155
Tetrachloro-m-xylene	87	49 - 140

ND - Not Detected

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CLIENT: Bechtel Nevada CLIENT ID: Method Blank
 PROJECT ID: V1140 DATE SAMPLED: NA
 PROJECT #: 23081 NEL SAMPLE ID: 010606TPHS-FP-BLK

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
 METHOD: EPA 8015M ANALYST: CCS - Las Vegas Division
 MATRIX: Solid EXTRACTED: 6/6/01
 ANALYZED: 6/8/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C12-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	80	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081

CLIENT ID: 252502-1-1
 DATE SAMPLED: 5/31/01
 NEL SAMPLE ID: L0106023-04

TEST: TCLP-8 Metals
 MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Barium	ND	1. mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Cadmium	0.029	0.01 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Chromium	ND	0.01 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Lead	3.5	0.05 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Mercury	ND	0.002 mg/L	10	EPA 7470A	6/6/01	6/7/01	6/7/01
Selenium	ND	0.1 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Silver	ND	0.02 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081

CLIENT ID: 252502-2-1 MS/MSD
 DATE SAMPLED: 5/31/01
 NEL SAMPLE ID: L0106023-05

TEST: TCLP-8 Metals
 MATRIX: Solid

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>TCLP/STLC</u> <u>EXTRACTION</u>		
					<u>DATE</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Arsenic	ND	0.1 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Barium	ND	1. mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Cadmium	0.017	0.01 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Chromium	0.015	0.01 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Lead	0.11	0.05 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Mercury	ND	0.002 mg/L	10	EPA 7470A	6/6/01	6/7/01	6/7/01
Selenium	ND	0.1 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Silver	ND	0.02 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081

CLIENT ID: 252502-3-1
 DATE SAMPLED: 5/31/01
 NEL SAMPLE ID: L0106023-06

TEST: TCLP-8 Metals
 MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Barium	ND	1. mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Cadmium	0.024	0.01 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Chromium	0.013	0.01 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Lead	0.38	0.05 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Mercury	ND	0.002 mg/L	10	EPA 7470A	6/6/01	6/7/01	6/7/01
Selenium	ND	0.1 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Silver	ND	0.02 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081

CLIENT ID: Method Blank
 DATE SAMPLED: NA
 NEL SAMPLE ID: L06016-THg-BLK

TEST: TCLP by EPA 1311, July 1992 & Mercury by EPA 7470A, July 1992
 MATRIX: TCLP Extract

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>TCLP/STLC EXTRACTION</u>			
				<u>METHOD</u>	<u>DATE</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Mercury	ND	0.002 mg/L	10	EPA 7470A	6/6/01	6/7/01	6/7/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081

CLIENT ID: Method Blank
 DATE SAMPLED: NA
 NEL SAMPLE ID: L60161-BLK

TEST: TCLP by EPA 1311, July 1992 & 7 Metals by EPA 6010A, July 1992
 MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING		TCLP/STLC EXTRACTION			
		LIMIT	D. F.	METHOD	DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Barium	ND	1. mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Cadmium	ND	0.01 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Chromium	ND	0.01 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Lead	ND	0.05 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Selenium	ND	0.1 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01
Silver	ND	0.02 mg/L	1	EPA 6010	6/6/01	6/7/01	6/8/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081

CLIENT ID: 252502-1-1
 DATE SAMPLED: 5/31/01
 NEL SAMPLE ID: L0106023-04

TEST: TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996
 METHOD: EPA 8270
 MATRIX: Solid
 DILUTION: 1

TCLP EXTRACT DATE: 6/6/01
 EXTRACTED: 6/15/01
 ANALYZED: 6/19/01

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	36	0 - 161
2-Fluorobiphenyl	19	16 - 127
2-Fluorophenol	18	0 - 88
Nitrobenzene-d5	23	9 - 132
p-Terphenyl-d14	34	16 - 163
Phenol-d5	14	0 - 63

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081

CLIENT ID: 252502-2-1 MS/MSD
 DATE SAMPLED: 5/31/01
 NEL SAMPLE ID: L0106023-05

TEST: TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996
 METHOD: EPA 8270
 MATRIX: Solid
 DILUTION: 1

TCLP EXTRACT DATE: 6/6/01
 EXTRACTED: 6/15/01
 ANALYZED: 6/19/01

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	44	0 - 161
2-Fluorobiphenyl	22	16 - 127
2-Fluorophenol	18	0 - 88
Nitrobenzene-d5	24	9 - 132
p-Terphenyl-d14	32	16 - 163
Phenol-d5	16	0 - 63

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081

CLIENT ID: 252502-3-1
 DATE SAMPLED: 5/31/01
 NEL SAMPLE ID: L0106023-06

TEST: TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996
 METHOD: EPA 8270
 MATRIX: Solid
 DILUTION: 1

TCLP EXTRACT DATE: 6/6/01
 EXTRACTED: 6/15/01
 ANALYZED: 6/19/01

<u>PARAMETER</u>	<u>Result mg/L</u>	<u>Reporting Limit</u>
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
2,4,6-Tribromophenol	47	0 - 161
2-Fluorobiphenyl	22	16 - 127
2-Fluorophenol	19	0 - 88
Nitrobenzene-d5	24	9 - 132
p-Terphenyl-d14	32	16 - 163
Phenol-d5	17	0 - 63

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: Method Blank
PROJECT ID: V1140	DATE SAMPLED: NA
PROJECT #: 23081	NEL SAMPLE ID: 0615E1 TCLP8270-BLK
TEST: TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996	
METHOD: EPA 8270	TCLP EXTRACT DATE: 6/6/01
MATRIX: TCLP Extract	EXTRACTED: 6/15/01
	ANALYZED: 6/19/01

<u>PARAMETER</u>	<u>Result</u> <u>mg/L</u>	<u>Reporting</u> <u>Limit</u>
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
2,4,6-Tribromophenol	32	0 - 161
2-Fluorobiphenyl	18	16 - 127
2-Fluorophenol	20	0 - 88
Nitrobenzene-d5	22	9 - 132
p-Terphenyl-d14	30	16 - 163
Phenol-d5	16	0 - 63

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081
 TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996
 MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Aroclor-1016	010605PCBS-LCS	333	283	85	63 - 127	
Aroclor-1016	010605PCBS-LCSD	333	226	68	63 - 127	22.4
Aroclor-1016	L0106023-06-MS	333	355	107	55 - 142	
Aroclor-1016	L0106023-06-MSD	333	306	92	55 - 142	14.8
Aroclor-1260	010605PCBS-LCS	333	332	100	57 - 138	
Aroclor-1260	010605PCBS-LCSD	333	264	79	57 - 138	22.8
Aroclor-1260	L0106023-06-MS	333	1810	33 C	48 - 129	
Aroclor-1260	L0106023-06-MSD	333	2040	102 C	48 - 129	102.2

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081
 TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
 MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Diesel Range (C12-C22)	010606TPHS-FP-LCS	166.7	138	83	53 - 91	
Diesel Range (C12-C22)	010606TPHS-FP-LCSD	166.7	145	87	53 - 91	4.9
Total	010606TPHS-FP-LCS	166.7	138	83	53 - 91	
Total	010606TPHS-FP-LCSD	166.7	145	87	53 - 91	4.9

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081
 TEST: TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996
 MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Pyridine	0615E1 TCLP8270-LCS	80	56.5	71	10 - 130	
Pyridine	0615E1 TCLP8270-LCSD	80	72.8	91	10 - 130	25.2
Pyridine	L0106023-04-MS	80	61.8	77	10 - 130	
1,4-Dichlorobenzene (p-DCB)	0615E1 TCLP8270-LCS	80	67.4	84	7 - 105	
1,4-Dichlorobenzene (p-DCB)	0615E1 TCLP8270-LCSD	80	74.5	93	7 - 105	10.
1,4-Dichlorobenzene (p-DCB)	L0106023-04-MS	80	56	70	7 - 105	
Hexachloroethane	0615E1 TCLP8270-LCS	80	50.6	63	43 - 104	
Hexachloroethane	0615E1 TCLP8270-LCSD	80	54	68	43 - 104	6.5
Hexachloroethane	L0106023-04-MS	80	43.5	54	43 - 104	
Nitrobenzene	0615E1 TCLP8270-LCS	80	96.4	121	28 - 124	
Nitrobenzene	0615E1 TCLP8270-LCSD	80	82.9	104	28 - 124	15.1
Nitrobenzene	L0106023-04-MS	80	84.4	106	28 - 124	
Hexachlorobutadiene	0615E1 TCLP8270-LCS	80	53	66	39 - 111	
Hexachlorobutadiene	0615E1 TCLP8270-LCSD	80	57	71	39 - 111	7.3
Hexachlorobutadiene	L0106023-04-MS	80	46.6	58	39 - 111	
2-Methylphenol	0615E1 TCLP8270-LCS	80	76.8	96	30 - 130	
2-Methylphenol	0615E1 TCLP8270-LCSD	80	82.9	104	30 - 130	7.6
2-Methylphenol	L0106023-04-MS	80	64.5	81	30 - 130	
3,4-Methylphenol (isomeric pair)	0615E1 TCLP8270-LCS	80	67.6	85	30 - 130	
3,4-Methylphenol (isomeric pair)	0615E1 TCLP8270-LCSD	80	71.8	90	30 - 130	6.
3,4-Methylphenol (isomeric pair)	L0106023-04-MS	80	56.3	70	30 - 130	
2,4,6-Trichlorophenol	0615E1 TCLP8270-LCS	80	102.7	128	43 - 110	
2,4,6-Trichlorophenol	0615E1 TCLP8270-LCSD	80	93.8	117	43 - 110	9.1
2,4,6-Trichlorophenol	L0106023-04-MS	80	88.4	111	43 - 110	
2,4,5-Trichlorophenol	0615E1 TCLP8270-LCS	80	70.1	88	30 - 130	
2,4,5-Trichlorophenol	0615E1 TCLP8270-LCSD	80	97.5	122	30 - 130	32.7
2,4,5-Trichlorophenol	L0106023-04-MS	80	97.4	122	30 - 130	
2,4-Dinitrotoluene (DNT)	0615E1 TCLP8270-LCS	80	101.8	127	50 - 111	
2,4-Dinitrotoluene (DNT)	0615E1 TCLP8270-LCSD	80	95.8	120	50 - 111	6.1
2,4-Dinitrotoluene (DNT)	L0106023-04-MS	80	86.1	108	50 - 111	
Hexachlorobenzene	0615E1 TCLP8270-LCS	80	96.7	121	41 - 125	
Hexachlorobenzene	0615E1 TCLP8270-LCSD	80	92.1	115	41 - 125	4.9
Hexachlorobenzene	L0106023-04-MS	80	76.8	96	41 - 125	
Pentachlorophenol	0615E1 TCLP8270-LCS	80	63.1	79	47 - 127	
Pentachlorophenol	0615E1 TCLP8270-LCSD	80	73.1	91	47 - 127	14.7
Pentachlorophenol	L0106023-04-MS	80	67.7	85	47 - 127	

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081
 TEST: TCLP/STLC Metals
 MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Mercury	L06016-THg-LCS	0.05	0.0495	99	85 - 115	
Mercury	L0106016-01-MS	0.05	0.045	90	75 - 125	
Mercury	L0106016-01-MSD	0.05	0.0453	91	75 - 125	0.7

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1140
 PROJECT #: 23081
 TEST: TCLP/STLC Metals
 MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Arsenic	L6016I-LCS	0.5	0.498	100	85 - 115	
Arsenic	L0106016-01-MS	0.5	0.505	101	75 - 125	
Arsenic	L0106016-01-MSD	0.5	0.508	102	75 - 125	0.6
Silver	L6016I-LCS	0.5	0.45	90	85 - 115	
Silver	L0106016-01-MSD	0.5	0.466	93	75 - 125	22.2
Barium	L6016I-LCS	1	0.991	99	85 - 115	
Barium	L0106016-01-MS	1	0.97	-43	75 - 125	
Barium	L0106016-01-MSD	1	2.91	151	75 - 125	359.3
Cadmium	L6016I-LCS	0.5	0.504	101	85 - 115	
Cadmium	L0106016-01-MS	0.5	0.587	87	75 - 125	
Cadmium	L0106016-01-MSD	0.5	0.58	86	75 - 125	1.6
Chromium	L6016I-LCS	0.5	0.496	99	85 - 115	
Chromium	L0106016-01-MS	0.5	0.554	99	75 - 125	
Chromium	L0106016-01-MSD	0.5	0.551	98	75 - 125	0.6
Lead	L6016I-LCS	1	1.03	103	85 - 115	
Lead	L0106016-01-MS	1	1.65	104	75 - 125	
Lead	L0106016-01-MSD	1	1.67	106	75 - 125	1.9
Selenium	L6016I-LCS	0.5	0.553	111	85 - 115	
Selenium	L0106016-01-MS	0.5	0.463	93	75 - 125	
Selenium	L0106016-01-MSD	0.5	0.417	83	75 - 125	10.5

ND - Not Detected

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6/11 20106023

PROJECT/CLIENT INFORMATION			REPORT INFORMATION			SAMPLE INFORMATION		
Project: <u>CAU 378</u>	BN Org#: <u>2152</u>	Send Report to: <u>DAN TORRISON</u>	Phone: <u>5-6169</u>	Fax: <u>5-7761</u>	M/S: <u>NTS 206</u>	Sampling Site: <u>CAU 378</u>		
Charge No.: <u>C7J3E11</u>	ASL Prog.:	Turnaround: <input type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: <u>W Rush Preliminary by: M D X S</u>	Final report format: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other:			The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input checked="" type="checkbox"/> 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: <u>WAYNE JOHNSON</u>			Final by:					
Phone: <u>5-0573</u>	Fax: <u>5-7761</u>	M/S: <u>NTS 206</u>						

LAB USE ONLY				ANALYSES & METHOD								SAMPLE RECEIPT INFORMATION				
Rad SGD:	Non-Rad SGD: <u>V1140</u>			TCP FULL-SCAN PDSM	PCBS SDBZ	TCP SEM-VOLATILES	TCP METALS	TCP ITCM	TCP H-10,19,10,21	TCP ITCM	TCP B-8.1	TCP ITCM	TCP SVDC-7.3	TCP METALS-9.23	Are all sample containers received intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments:	
Rad Packet:	Non-Rad Packet:														Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments:	
Client Services Representative:															Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments:	
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation _____ CSR initials indicating review and approval: _____ Date _____																

ITEM	ID / DESCRIPTION	SAMPLING		MATRIX									COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)		
		DATE	TIME												
01	252517-1-1	5/21/01	1312	Soil	X	X									400-20 250ml glass jar
02	252517-2-1		1335		X	X									per sample
03	252517-3-1		1339		X	X									
04	252502-1-1		1402		X	X	X	X							2 @ 250ml, 1 @ 500ml jar per sample
05	252502-2-1 MS/MSD		1420		X	X	X	X							MS/MSD ON SEM VOLATILES
06	252502-3-1		1420		X	X	X	X							
6															
7															
8															
9															

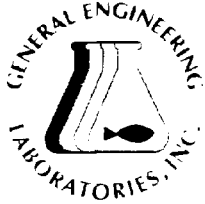
Transfer of samples submitted for analyses				Complete for samples shipped to an OFF-SITE Subcontract Laboratory <u>NEL</u>			
Sampled/Relinquished (Signature/Organization)	DATE / TIME	Received by (Signature/Organization)	Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)		
<u>Del SAL - BN/FER</u>	<u>5/21/01 1427</u>	<u>CD Cantanada</u>	<u>CD Cantanada</u>	<u>6/4/01 1330</u>	<u>BNI COURIER</u>		
			Relinquished (Courier & Tracking Info.)	DATE / TIME	Received (1st tier Subcontractor Rep)		
			<u>BNI COURIER</u>	<u>6/10/01 0805</u>	<u>[Signature]</u>		
			Relinquished (1st tier Subcontractor Rep)	DATE / TIME	Received (2nd tier Subcontractor Rep)		

SAMPLE DELIVERY GROUP

V1169

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GENERAL
NARRATIVE



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow

**CASE NARRATIVE
for
Bechtel Nevada
Clark County, Nevada
SDG# V1169**

July 21, 2001

Laboratory Identification:

General Engineering Laboratories, Inc. (GEL)

Mailing Address:

P.O. Box 30712
Charleston, SC 29414

Express Mail Delivery and Shipping Address:

2040 Savage Road
Charleston, SC 29414

Telephone Number:

(843) 556-8171

Summary:


Sample Receipt

The sample for SDG# V1169 arrived at GEL located in Charleston, South Carolina on June 22, 2001 for environmental analyses. The sample containers arrived without any visible signs of tampering or breakage. The samples were delivered with chain of custody documentation and signatures.

The laboratory received the following samples:

<u>Laboratory Identification</u>	<u>Sample Description</u>
44601001	252507-1-0
44601002	252507-2-0
44601003	252507-3-0
44601004	252508-1-0
44601005	252508-2-0

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

 Printed on recycled paper.

Case Narrative

Sample analyses were conducted using methodology as outlined in GEL Standard Operating Procedures. Any technical or administrative problems during analysis, data review and reduction are listed by analytical parameter in the applicable case narrative.

Internal Chain of Custody:

Custody was maintained for all samples.

Items of Note:

There are no items of note.

Data Package:

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Review Definition Sheet, and Radiological parameters.

This data package, to the best of my knowledge, is in compliance with technical and administrative requirements.



Stacy L. Griffin
Project Manager

GENERAL ENGINEERING LABORATORIES

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178



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3

CHAIN
OF
CUSTODY

PROJECT/CLIENT INFORMATION			REPORT INFORMATION			SAMPLE INFORMATION		
Project: <u>CAU 398</u>	BN Org#: <u>2156</u>	Send Report to: <u>DAN TOBIASO</u>	Sampling Site: <u>CAU 398</u>	The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input checked="" type="checkbox"/> 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>C7J33E11</u>	ASL Prog.:	Phone: <u>5-6169</u>	Fax: <u>5-7761</u>	M/S: <u>NTS306</u>				
Project Manager: <u>WAYNE JOHNSON</u>			Turnaround: <input type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: <input checked="" type="checkbox"/> Rush Preliminary by: <u>14 APR</u> Final by: _____					
Phone: <u>5-0573</u>	Fax: <u>5-7761</u>	M/S: <u>NTS306</u>	Final report format: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other: _____					

LAB USE ONLY				ANALYSES & METHOD												SAMPLE RECEIPT INFORMATION	
Rad SGD: <u>V1169</u>		Non-Rad SGD:		<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> not for release - 20 MAR 09 09:11 Pay. Item NGS-A-002 </div>												Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Rad Packet:		Non-Rad Packet:														Comments: _____	
Client Services Representative:																Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation _____ CSR initials indicating review and approval: _____ Date: _____																Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

I T E M	ID / DESCRIPTION	SAMPLING		MATRIX	X	ANALYSES & METHOD												COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)
		DATE	TIME															
0	252507-1-0	6/21/09	0905	SOIL	X													40% 10 500ml Nalgene see sample
1	252507-2-0	}	0905	SOIL	X													
2	252507-3-0		0920	SOIL	X													
3	252508-1-0		0945	SOIL	X													
4	252508-2-0	↓	0945	SOIL	X													
5	-----																	
6	LAST ITEM																	
7																		
8																		
9																		

Transfer of samples submitted for analyses						Complete for samples shipped to an OFF-SITE Subcontract Laboratory <u>GEL</u>					
Sampled/Relinquished (Signature/Organization)		DATE / TIME		Received by (Signature/Organization)		Relinquished (BN Representative Signature)		DATE / TIME		Received (Courier & Tracking Info)	
<u>D. S. L. - G. I. E. C.</u>		<u>6/21/09 12:50</u>		<u>Elizabeth Burns</u>		<u>Continued for EB</u>		<u>06/21/09 1300</u>		<u>F.D. Ex 827914154561</u>	
				<u>Mike Johnson</u>		Relinquished (Courier & Tracking Info.)		DATE / TIME		Received (1st tier Subcontractor Rep)	
						Relinquished (1st tier Subcontractor Rep)		DATE / TIME		Received (2nd tier Subcontractor Rep)	

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

COOLER
RECEIPT
CHECKLIST

SAMPLE RECEIPT REVIEW

Date 6-22-01

Client Bechtel Nev

Received by mk

SAMPLE REVIEW CRITERIA		YES	NO	NA	COMMENTS/QUALIFIERS
1	Were shipping containers received intact and sealed? If no, notify the Project Manager	<input checked="" type="checkbox"/>			
2	Were chain of custody documents included?	<input checked="" type="checkbox"/>			
3	Shipping container temperature(s) checked:	<input checked="" type="checkbox"/>			6°
4	Is temperature documented on Chain of Custody		<input checked="" type="checkbox"/>		
5	Was shipping container temperature within specifications (4 +/- 2 C) If no, notify Project Manager	<input checked="" type="checkbox"/>			
6	Are any of the samples identified by the client as radioactive? If yes, complete radioactive receipt form		<input checked="" type="checkbox"/>		
	Any samples not identified by the client as radioactive must be screened for radioactivity.			40	observed background CPM
	If screening results indicate > x2 background inform the RSO.			40	observed sample CPM
7	Were chain of custody documents completed correctly? (Ink, signed, match containers)	<input checked="" type="checkbox"/>			
8	Were sample containers received intact and sealed? If no, notify the Project Manager	<input checked="" type="checkbox"/>			
9	Were all sample containers properly labeled?	<input checked="" type="checkbox"/>			
10	Were correct sample containers received?	<input checked="" type="checkbox"/>			
11	Preserved samples checked for pH?			<input checked="" type="checkbox"/>	seals
12	Were samples preserved correctly? If no, notify Project Manager			<input checked="" type="checkbox"/>	
13	Were samples received within holding time? If No, notify Project Manager	<input checked="" type="checkbox"/>			
14	Were VOA vials free of headspace?			<input checked="" type="checkbox"/>	
15	ARCOC#				
16	SDG#				

PM(A) Review: _____

Date Reviewed: _____

Additional Comments:

F.O.D. PX# 8279 1415 4561

DATA REVIEW
QUALIFIER FLAG
DEFINITION SHEET

General Engineering Laboratories, Inc.

DATA QUALIFIERS FOR INORGANIC ANALYSES

Data Qualifiers used on Form 1s or Certificates of Analysis (C of A) follow the specifications set forth in the technical specifications of the most current CLP Statement of Work and are defined as follows.

Section	Explanation	Location
E	The qualifier that is used when the percent difference between the parent sample and its serial dilution's concentrations exceeds 10%. The sample's concentration must be greater than 50 times the IDL/MDL for ICP (6010B/ILMO 3.0) or 100 times the absolute value of the preparation blank's concentration (6020). However, if analyzing ILMO 4.0 (ICP-MS), the parent sample's concentration must be 20 times the CRDL before the "E" flag is applied.	Form 1, and EDD
*	The qualifier that is used to indicate that the duplicate sample analysis for an analyte is out of control.	Form 1, and EDD
+	Correlation coefficient the Method of Standard Addition (MSA) is less than 0.095.	Form 2, and EDD
B	The qualifier is used to indicate that the reported result fell above the IDL/MDL but below the CRDL.	Form 1, and EDD
M	The qualifier is used to indicate that the replicate injection readings of the GFAA sample analysis do not agree within 20% relative standard deviation (RSD) or coefficient of variation (CV).	Form 1, and EDD
N	This qualifier is used to indicate that the matrix or pre-digested spike sample recovery for an analyte is not within the specified control limit.	Form 1, and EDD
S	The reported value was determined by the Method of Standard Addition (MSA).	Form 1, and EDD
U	The analyte's result was less than the IDL/MDL.	C of A, Form 1, and EDD
W	Post-digestion spike for GFAA analysis is out of control limits (85%-115%), while sample results are less than 50% of the spike absorbance.	EDD, and Form 5, part 2
X	Other reporting flag as defined in report narrative.	Form 1, and EDD
**	This qualifier is used to indicate that the Laboratory Control Sample (LCS) recovery for an analyte is outside of the specified limits.	QC Summary Report

All surrogate recoveries and acceptance ranges are reported at the bottom of Form 2 or C of A.

Any recoveries falling outside the acceptance range will be flagged with a "**".

All flags do not apply to QC Summary and Certificate of Analysis packages.

RADIOLOGICAL ANALYSIS

CASE
NARRATIVE

**Radiochemistry Case Narrative
Bechtel Nevada (NEVA)
SDG V1169**

Method/Analysis Information

Batch Number: 86288
Procedure: Determination of Gamma Isotopes in Water and Soil
Analytical Method: DOE EML HASL 300

Sample ID	Client ID
44601001	252507-1-0
44601002	252507-2-0
44601003	252507-3-0
44601004	252508-1-0
44601005	252508-2-0
1200027924	MB for batch 86288
1200027925	044403-0-1(44379001DUP)
1200027926	LCS for batch 86288

SOP Reference

Procedures for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, Inc. as Standard Operating Procedures (SOP). The data discussed in this narrative has been prepared and analyzed in accordance with GL-RAD-A-013.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume(s) in this batch.

Designated QC

The following sample(s) was used for QC: 44379001.

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

No NCR were generated for the preparation or analysis of this sample set.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

The following data was rejected due to low abundance:

Sample 1200027924; U-238.

The following data was rejected due to no valid peak:

Sample 1200027924; U-235,

Sample 44601003; U-235.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: _____

D. Moore

Date: _____

20 Jul 2001



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow

Certificate of Analysis

Company : Bechtel Nevada
Address : 2621 Losee Road

Contact: North Las Vegas, Nevada 89030-4129
Theodore Redding
Project: Environmental Rad Analysis

Report Date: July 20, 2001

Page 1 of 1

Client Sample ID:	252507-1-0	Project:	NEVA00101
Sample ID:	44601001	Client ID:	NEVA002
Matrix:	Soil		
Collect Date:	20-JUN-01		
Receive Date:	22-JUN-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec												
<i>GammaSpec, Gamma, solid</i>												
Americium-241	U	-0.0144	+/-0.135	0.243	0.135	0.200		CRB	06/29/01	1222	86288	1
Cesium-137	U	0.023	+/-0.0192	0.0462	0.0192	0.050						
Potassium-40		27.9	+/-3.26	0.332	3.26							
Uranium-235	U	0.054	+/-0.130	0.237	0.130	0.200						
Uranium-238		2.20	+/-1.89	1.92	1.89	1.00						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep RAD A-021,A-021B,A-026	WEO	06/25/01	1110	85627

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300

Notes:

The Qualifiers in this report are defined as follows :

- ** Indicates the analyte is a surrogate compound.
- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the compound was analyzed for but not detected above the detection limit

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Stacy Griffin.

Stacy Griffin

Reviewed by



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company : Bechtel Nevada
Address : 2621 Losee Road

Contact: North Las Vegas, Nevada 89030-4129
Theodore Redding
Project: Environmental Rad Analysis

Report Date: July 20, 2001

Page 1 of 1

Client Sample ID: 252507-2-0
Sample ID: 44601002
Matrix: Soil
Collect Date: 20-JUN-01
Receive Date: 22-JUN-01
Collector: Client

Project: NEVA00101
Client ID: NEVA002

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Gamma Spec										
<i>Gamma spec, Gamma, solid</i>										
Americium-241	U	0.0515	+/-0.040	0.0675	0.040	0.200		CRB 06/28/01	2352	86288 1
Cesium-137	U	0.0144	+/-0.0265	0.0423	0.0265	0.050				
Potassium-40		26.0	+/-1.07	0.370	1.09					
Uranium-235	U	0.0143	+/-0.186	0.212	0.186	0.200				
Uranium-238		1.26	+/-0.814	0.641	0.814	1.00				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep RAD A-021,A-021B,A-026	WEO	06/25/01	1110	85627

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300

Notes:

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Reviewed by

Stacy Griffin



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Certificate of Analysis

Company : Bechtel Nevada
Address : 2621 Losee Road

North Las Vegas, Nevada 89030-4129
Contact: Theodore Redding
Project: Environmental Rad Analysis

Report Date: July 20, 2001

Page 1 of 1

Client Sample ID: 252507-3-0
Sample ID: 44601003
Matrix: Soil
Collect Date: 20-JUN-01
Receive Date: 22-JUN-01
Collector: Client

Project: NEVA00101
Client ID: NEVA002

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec												
<i>Gammasec. Gamma, solid</i>												
Americium-241	U	0.000859	+/-0.0298	0.0502	0.0298	0.200		CRB	06/28/01	2349	86288	1
Cesium-137	U	0.0282	+/-0.0267	0.0388	0.0267	0.050						
Potassium-40		18.7	+/-2.09	0.384	2.09							
Uranium-235	U	0.00	+/-0.272	0.170	0.272	0.200						
Uranium-238		1.20	+/-0.638	0.488	0.638	1.00						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep RAD A-021,A-021B,A-026	WEO	06/25/01	1110	85627

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300

Notes:

The Qualifiers in this report are defined as follows :

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- U Indicates the compound was analyzed for but not detected above the detection limit

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M. Moore
Reviewed by



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Certificate of Analysis

Company : Bechtel Nevada
Address : 2621 Losee Road

Contact: North Las Vegas, Nevada 89030-4129
Theodore Redding
Project: Environmental Rad Analysis

Report Date: July 20, 2001

Page 1 of 1

Client Sample ID: 252508-1-0
Sample ID: 44601004
Matrix: Soil
Collect Date: 20-JUN-01
Receive Date: 22-JUN-01
Collector: Client

Project: NEVA00101
Client ID: NEVA002

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	AnalystDate	Time	Batch Mid.
Rad Gamma Spec										
<i>GammaSpec, Gamma, solid</i>										
Americium-241	U	0.0159	+/-0.0898	0.169	0.0898	0.200		CRB 07/01/01	2202	86288 1
Cesium-137	U	-0.00148	+/-0.0181	0.0278	0.0181	0.050				
Potassium-40		21.1	+/-2.41	0.252	2.41					
Uranium-235		0.182	+/-0.173	0.164	0.173	0.200				
Uranium-238		1.76	+/-1.12	1.28	1.12	1.00				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep RAD A-021,A-021B,A-026	WEO	06/25/01	1110	85627

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300

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Stacy Griffin

Reviewed by



GENERAL ENGINEERING LABORATORIES

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Certificate of Analysis

Company : Bechtel Nevada
Address : 2621 Losee Road

Contact: North Las Vegas, Nevada 89030-4129
Theodore Redding
Project: Environmental Rad Analysis

Report Date: July 20, 2001

Page 1 of 1

Client Sample ID: 252508-2-0
Sample ID: 44601005
Matrix: Soil
Collect Date: 20-JUN-01
Receive Date: 22-JUN-01
Collector: Client

Project: NEVA00101
Client ID: NEVA002

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Gamma Spec										
<i>Gammaspac, Gamma, solid</i>										
Americium-241	U	0.0551	+/-0.0962	0.176	0.0962	0.200		CRB 07/07/01	1718	86288 1
Cesium-137	U	-0.00905	+/-0.021	0.0305	0.021	0.050				
Potassium-40		21.2	+/-2.67	0.233	2.67					
Uranium-235	U	0.0477	+/-0.0998	0.175	0.0998	0.200				
Uranium-238	U	1.19	+/-1.27	1.34	1.27	1.00				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep RAD A-021,A-021B,A-026	WEO	06/25/01	1110	85627

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300

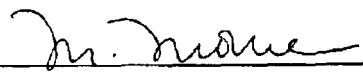
Notes:

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This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Stacy Griffin.

Reviewed by 

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GENERAL ENGINEERING LABORATORIES

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QC Summary

Report Date: July 20, 2001
Page 1 of 2

Client : Bechtel Nevada
2621 Losee Road

North Las Vegas, Nevada
Contact: Theodore Redding
Workorder: 44601

Partname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gamma Spec Batch 86288									
QC1200027925 44379001 DUP									
Americium-241	U	0.0157	U	0.0548	pCi/g	111 ^	(+/-0.200)	CRB	06/30/01 14:49
	Uncert:	+/-0.105		+/-0.0717					
	TPU:	0.105		0.0717					
Cesium-137	U	0.0266	U	0.0133	pCi/g	67 ^	(+/-0.050)		
	Uncert:	+/-0.0243		+/-0.0237					
	TPU:	0.0243		0.0237					
Potassium-40		14.7		16.0	pCi/g	8			
	Uncert:	+/-1.85		+/-1.93					
	TPU:	1.85		1.93					
Uranium-235	U	-0.0239	U	0.008	pCi/g	N/A	(+/-0.200)		
	Uncert:	+/-0.106		+/-0.114					
	TPU:	0.106		0.114					
Uranium-238	U	1.04	U	0.286	pCi/g	114 ^	(+/-1.00)		
	Uncert:	+/-1.26		+/-0.905					
	TPU:	1.26		0.905					
QC1200027926 LCS									
Americium-241				1260	pCi/g				07/03/01 08:52
	Uncert:			+/-135					
	TPU:			135					
Cesium-137	44]			485	pCi/g	110	(75%-125%)		
	Uncert:			+/-61.0					
	TPU:			61.0					
Potassium-40			U	1.12	pCi/g				
	Uncert:			+/-2.00					
	TPU:			2.00					
Uranium-235			U	0.254	pCi/g				
	Uncert:			+/-1.46					
	TPU:			1.46					
Uranium-238			U	-0.20	pCi/g				
	Uncert:			+/-5.32					
	TPU:			5.32					
QC1200027924 MB									
Americium-241			U	0.0164	pCi/g				06/30/01 14:48
	Uncert:			+/-0.0224					
	TPU:			0.0224					
Cesium-137			U	0.0296	pCi/g				
	Uncert:			+/-0.0234					
	TPU:			0.0234					
Potassium-40			U	0.0829	pCi/g				
	Uncert:			+/-0.305					
	TPU:			0.305					
Uranium-235			U	0.00	pCi/g				

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GENERAL ENGINEERING LABORATORIES

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QC Summary

Workorder: 44601

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	86288									
			Uncert:							
			TPU:							
Uranium-238		U		0.00						pCi/g
			Uncert:							
			TPU:							

Notes:

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- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the compound was analyzed for but not detected above the detection limit

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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SAMPLE DELIVERY GROUP

V1170

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NEL LABORATORIES

Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 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: V1170
PROJECT NUMBER: 23081

NEL ORDER ID: L0106266

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 6/21/01.

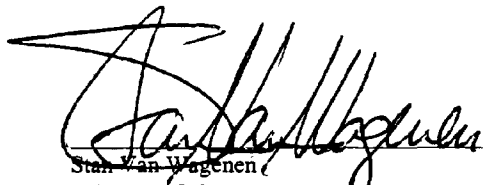
Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

Some results have been flagged as follows:

Jc - This concentration may be biased because the continuing calibration verification (CCV) standard did not meet QC requirements for this analyte. However, overall CCV standard recoveries meet method requirements and analytical results are in control.

Some surrogate results have been flagged as follows:

D - Sample required dilution. Sample QC results were diluted outside the calibrated range.


Stan Van Wageningen
Laboratory Manager

7/5/01
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	CLIENT ID: 252507-1-0
PROJECT ID: V1170	DATE SAMPLED: 6/20/01
PROJECT #: 23081	NEL SAMPLE ID: L0106266-01

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996	
METHOD: EPA 8082	ANALYST: JRW - Las Vegas Division
MATRIX: Solid	EXTRACTED: 6/22/01
DILUTION: 1	ANALYZED: 6/25/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	ND	20. µg/kg
Aroclor-1260	ND Jc	20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	68	46 - 155
Tetrachloro-m-xylene	87	49 - 140

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 252507-2-0
PROJECT ID: V1170	DATE SAMPLED: 6/20/01
PROJECT #: 23081	NEL SAMPLE ID: L0106266-02

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996	
METHOD: EPA 8082	ANALYST: JRW - Las Vegas Division
MATRIX: Solid	EXTRACTED: 6/22/01
DILUTION: 1	ANALYZED: 6/25/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	ND	20. µg/kg
Aroclor-1260	ND Jc	20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	65	46 - 155
Tetrachloro-m-xylene	85	49 - 140

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1170
 PROJECT #: 23081

CLIENT ID: **252507-3-0**
 DATE SAMPLED: 6/20/01
 NEL SAMPLE ID: L0106266-03

TEST: **PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996**
 METHOD: EPA 8082
 MATRIX: Solid
 DILUTION: 1

ANALYST: JRW - Las Vegas Division
 EXTRACTED: 6/22/01
 ANALYZED: 6/25/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	ND	20. µg/kg
Aroclor-1260	ND Jc	20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	73	46 - 155
Tetrachloro-m-xylene	102	49 - 140

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 252508-1-0
PROJECT ID: V1170	DATE SAMPLED: 6/20/01
PROJECT #: 23081	NEL SAMPLE ID: L0106266-04

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996	ANALYST: JRW - Las Vegas Division
METHOD: EPA 8082	EXTRACTED: 6/22/01
MATRIX: Solid	ANALYZED: 6/25/01
DILUTION: 1	

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	ND	20. µg/kg
Aroclor-1260	ND Jc	20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	49	46 - 155
Tetrachloro-m-xylene	65	49 - 140

ND - Not Detected

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

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	252508-2-0
PROJECT ID:	V1170	DATE SAMPLED:	6/20/01
PROJECT #:	23081	NEL SAMPLE ID:	L0106266-05
TEST:	PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996		
METHOD:	EPA 8082	ANALYST:	JRW - Las Vegas Division
MATRIX:	Solid	EXTRACTED:	6/22/01
DILUTION:	1	ANALYZED:	6/25/01

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	ND	20. µg/kg
Aroclor-1260	ND Jc	20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	64	46 - 155
Tetrachloro-m-xylene	72	49 - 140

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	252507-1-0
PROJECT ID:	V1170	DATE SAMPLED:	6/20/01
PROJECT #:	23081	NEL SAMPLE ID:	L0106266-01
TEST:	Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992		
METHOD:	EPA 8015M	ANALYST:	CCS - Las Vegas Division
MATRIX:	Solid	EXTRACTED:	6/22/01
DILUTION:	50	ANALYZED:	6/27/01

<u>PARAMETER</u>	<u>Result</u>	<u>MDL</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND		500. mg/kg
Diesel Range (C12-C22)	1300 mg/kg		500. mg/kg
Oil Range (C22-C34)	34000 mg/kg		2500. mg/kg
Total	35300 mg/kg		500. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	D	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1170
 PROJECT #: 23081

CLIENT ID: 252507-2-0
 DATE SAMPLED: 6/20/01
 NEL SAMPLE ID: L0106266-02

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
 METHOD: EPA 8015M
 MATRIX: Solid
 DILUTION: 50

ANALYST: CCS - Las Vegas Division
 EXTRACTED: 6/22/01
 ANALYZED: 6/27/01

<u>PARAMETER</u>	<u>Result</u>	<u>MDL</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND		500. mg/kg
Diesel Range (C12-C22)	1500 mg/kg		500. mg/kg
Oil Range (C22-C34)	30000 mg/kg		2500. mg/kg
Total	31500 mg/kg		500. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	D	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1170
 PROJECT #: 23081

CLIENT ID: 252507-3-0
 DATE SAMPLED: 6/20/01
 NEL SAMPLE ID: L0106266-03

TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
 METHOD: EPA 8015M
 MATRIX: Solid
 DILUTION: 100

ANALYST: CCS - Las Vegas Division
 EXTRACTED: 6/22/01
 ANALYZED: 6/27/01

<u>PARAMETER</u>	<u>Result</u>	<u>MDL</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND		1000. mg/kg
Diesel Range (C12-C22)	5000 mg/kg		1000. mg/kg
Oil Range (C22-C34)	100000 mg/kg		5000. mg/kg
Total	105000 mg/kg		1000. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	D	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1170
 PROJECT #: 23081

CLIENT ID: 252508-1-0
 DATE SAMPLED: 6/20/01
 NEL SAMPLE ID: L0106266-04

TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
 METHOD: EPA 8015M
 MATRIX: Solid
 DILUTION: 100

ANALYST: CCS - Las Vegas Division
 EXTRACTED: 6/22/01
 ANALYZED: 6/27/01

<u>PARAMETER</u>	<u>Result</u>	<u>MDL</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND		1000. mg/kg
Diesel Range (C12-C22)	9500 mg/kg		1000. mg/kg
Oil Range (C22-C34)	110000 mg/kg		5000. mg/kg
Total	119500 mg/kg		1000. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	D	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1170
 PROJECT #: 23081

CLIENT ID: **252508-2-0**
 DATE SAMPLED: 6/20/01
 NEL SAMPLE ID: L0106266-05

TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
 METHOD: EPA 8015M
 MATRIX: Solid
 DILUTION: 100

ANALYST: CCS - Las Vegas Division
 EXTRACTED: 6/22/01
 ANALYZED: 6/27/01

<u>PARAMETER</u>	<u>Result</u>	<u>MDL</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND		1000. mg/kg
Diesel Range (C12-C22)	10000 mg/kg		1000. mg/kg
Oil Range (C22-C34)	130000 mg/kg		5000. mg/kg
Total	140000 mg/kg		1000. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	D	54 - 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: V1170
 PROJECT #: 23081

CLIENT ID: 254402-1-0
 DATE SAMPLED: 6/20/01
 NEL SAMPLE ID: L0106266-06

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
 METHOD: EPA 8015M
 MATRIX: Solid
 DILUTION: 1

ANALYST: CCS - Las Vegas Division
 EXTRACTED: 6/22/01
 ANALYZED: 6/27/01

<u>PARAMETER</u>	<u>Result</u>	<u>MDL</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND		10. mg/kg
Diesel Range (C12-C22)	1300 mg/kg		10. mg/kg
Oil Range (C22-C34)	690 mg/kg		50. mg/kg
Total	1990 mg/kg		10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	104	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada	CLIENT ID: 254401-4-0
PROJECT ID: V1170	DATE SAMPLED: 6/20/01
PROJECT #: 23081	NEL SAMPLE ID: L0106266-07
TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992	
METHOD: EPA 8015M	ANALYST: CCS - Las Vegas Division
MATRIX: Solid	EXTRACTED: 6/22/01
DILUTION: 1	ANALYZED: 6/27/01

<u>PARAMETER</u>	<u>Result</u>	<u>MDL</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND		10. mg/kg
Diesel Range (C12-C22)	ND		10. mg/kg
Oil Range (C22-C34)	ND		50. mg/kg
Total	ND		10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	86	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1170
 PROJECT #: 23081

CLIENT ID: 254401-5-0
 DATE SAMPLED: 6/20/01
 NEL SAMPLE ID: L0106266-08

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
 METHOD: EPA 8015M
 MATRIX: Solid
 DILUTION: 1

ANALYST: CCS - Las Vegas Division
 EXTRACTED: 6/22/01
 ANALYZED: 6/27/01

<u>PARAMETER</u>	<u>Result</u>	<u>MDL</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND		10. mg/kg
Diesel Range (C12-C22)	ND		10. mg/kg
Oil Range (C22-C34)	ND		50. mg/kg
Total	ND		10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	80	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1170
 PROJECT #: 23081

CLIENT ID: 254401-6-0
 DATE SAMPLED: 6/20/01
 NEL SAMPLE ID: L0106266-09

TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
 METHOD: EPA 8015M
 MATRIX: Solid
 DILUTION: 1

ANALYST: CCS - Las Vegas Division
 EXTRACTED: 6/22/01
 ANALYZED: 6/27/01

<u>PARAMETER</u>	<u>Result</u>	<u>MDL</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND		10. mg/kg
Diesel Range (C12-C22)	ND		10. mg/kg
Oil Range (C22-C34)	ND		50. mg/kg
Total	ND		10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	79	54 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	Method Blank
PROJECT ID:	V1170	DATE SAMPLED:	NA
PROJECT #:	23081	NEL SAMPLE ID:	010622PCBS-BLK

TEST:	PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996	ANALYST:	JRW - Las Vegas Division
METHOD:	EPA 8082	EXTRACTED:	6/22/01
MATRIX:	Solid	ANALYZED:	6/25/01

<u>PARAMETER</u>	<u>Result</u>	<u>MDL</u>	<u>Reporting Limit</u>
Aroclor-1016	ND		20. µg/kg
Aroclor-1221	ND		20. µg/kg
Aroclor-1232	ND		20. µg/kg
Aroclor-1242	ND		20. µg/kg
Aroclor-1248	ND		20. µg/kg
Aroclor-1254	ND		20. µg/kg
Aroclor-1260	ND		20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	112	46 - 155
Tetrachloro-m-xylene	109	49 - 140

ND - Not Detected

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

CLIENT:	Bechtel Nevada	CLIENT ID:	Method Blank
PROJECT ID:	V1170	DATE SAMPLED:	NA
PROJECT #:	23081	NEL SAMPLE ID:	010622TPHS-FP-BLK

TEST:	Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992	ANALYST:	CCS - Las Vegas Division
METHOD:	EPA 8015M	EXTRACTED:	6/22/01
MATRIX:	Solid	ANALYZED:	6/27/01

<u>PARAMETER</u>	<u>Result</u>	<u>MDL</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND		10. mg/kg
Diesel Range (C12-C22)	ND		10. mg/kg
Total	ND		10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	64	54 - 130

ND - Not Detected

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30.06 RFS 16, 205 CLK 4

Bechtel Nevada

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

PROJECT/CLIENT INFORMATION			REPORT INFORMATION			SAMPLE INFORMATION		
Project: CAM 398	BN Org#: 2156	Send Report to: DAN TROIA (S)	Phone: 5-6169	Fax: 5-7761	M/S: NTS 306	Sampling Site: CAM 398	The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input checked="" type="checkbox"/> 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.: C7333EH	ASL Prog.:	Turnaround: <input type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: _____ <input checked="" type="checkbox"/> Rush Preliminary by: 14 DPA Final by: _____	Final report format: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other: _____					
Project Manager: WAYNE JOHNSON	Phone: 5-0573	Fax: 5-7761	M/S: NTS 306					

LAB USE ONLY			ANALYSES & METHOD										SAMPLE RECEIPT INFORMATION	
Rad SGD: Non-Rad SGD: VI170	Pay items 10, 19, 40, 21 TRM FULL SCAN 3055A Pay item 8.1 AC-Bs 3032										Are all sample containers received intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____			
Rad Packet: Non-Rad Packet:											Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____			
Client Services Representative:											Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____			
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation _____ Date: _____ CSR initials indicating review and approval: _____ Date: _____														

ITEM	ID / DESCRIPTION	SAMPLING		MATRIX											COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)		
		DATE	TIME														
01	252507-1-0	6/40	0905	SOIL	X	X											4" 2 @ 250ml glass jar per sample
02	252507-2-0		0905	SOIL	X	X											jar per sample
03	252507-3-0		0920	SOIL	X	X											
04	252508-1-0		0945	SOIL	X	X											
05	252508-2-0		0945	SOIL	X	X											
06	254402-1-0		1050	SOIL	X												4" 1 @ 250ml glass jar per sample
07	254401-4-0		1115	SOIL	X												jar per sample
08	254401-5-0		1120	SOIL	X												
09	254401-6-0		1120	SOIL	X												
9	LAST ITEM																

Transfer of samples submitted for analyses				Complete for samples shipped to an OFF-SITE Subcontract Laboratory NEL			
Sampled/Relinquished (Signature/Organization)	DATE / TIME	Received by (Signature/Organization)	Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info)		
D. Schmitt - GNIER	6/21/12	Elizabeth	CD Costa	6/21/12	BN Courier		
			Relinquished (Courier & Tracking Info)	DATE / TIME	Received (1st tier Subcontractor Rep)		
			VIA COURIER	6-21-12			
			Relinquished (1st tier Subcontractor Rep)	DATE / TIME	Received (2nd tier Subcontractor Rep)		

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

BN-0732 (02/98)

SAMPLE DELIVERY GROUP

V1565

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NEL LABORATORIES

Reno • Las Vegas
Phoenix • Burbank

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
TEL: 702-295-7220

RE Project: V1565

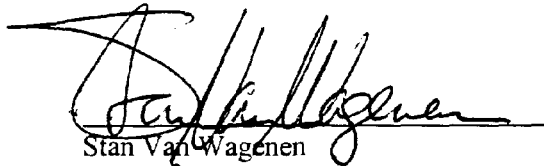
Order No.: L0204394

Dear Ted Redding:

NEL Laboratories, Las Vegas received 5 samples on 4/25/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.


Stan Van Wageningen
Laboratory Manager

5/8/02
Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified
US Army Corps of Engineers		Certified

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1565
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252503-1
DATE SAMPLED: 4/24/02
NEL SAMPLE ID: L0204394-001A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Total TPH	ND	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Surr: n-Octacosane	60.1	%REC	55-130	1	SW8015Ext	04/25/02	04/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1565
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252503-2
DATE SAMPLED: 4/24/02
NEL SAMPLE ID: L0204394-002A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Total TPH	ND	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Surr: n-Octacosane	68.1	%REC	55-130	1	SW8015Ext	04/25/02	04/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1565
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252503-3
DATE SAMPLED: 4 24 02
NEL SAMPLE ID: L0204394-003A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Total TPH	ND	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Surr: n-Octacosane	62.1	%REC	55-130	1	SW8015Ext	04/25/02	04/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1565
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252503-4
DATE SAMPLED: 4/24/02
NEL SAMPLE ID: L0204394-004A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Total TPH	ND	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Surr: n-Octacosane	71.1	%REC	55-130	1	SW8015Ext	04/25/02	04/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1565
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252503-5
DATE SAMPLED: 4/24/02
NEL SAMPLE ID: L0204394-005A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Diesel Range Organics (C12-C22)	57	mg/Kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Oil Range Organics (C22-C34)	530	mg/kg	50	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Total TPH	590	mg/kg	10	1	SW8015Ext	04/25/02	04/30/02	PXC-LV
Surr: n-Octacosane	66.1	%REC	55-130	1	SW8015Ext	04/25/02	04/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
Work Order: L0204394
Project: V1565

ANALYTICAL QC SUMMARY REPORT

8015FFP_S

Test Method: SW8015Ext

Sample ID: LCS-324	SampType: LCS	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 4/25/02	Run ID: L_FID-1_020430A						
	Batch ID: 324	TestNo: SW8015M		Analysis Date: 4/30/02	SeqNo: 23587						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual

Diesel Range Organics (C12-C22)	157.8	10	166.6	0	94.7	54	91	0	0	0	S
Surr: n-Octacosane	2.066	0.010	3.329	0	62.1	55	130	0	0		

Sample ID: LCS-324	SampType: LCS	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 4/25/02	Run ID: L_FID-1_020430B						
	Batch ID: 324	TestNo: SW8015M		Analysis Date: 4/30/02	SeqNo: 24144						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual

Diesel Range Organics (C12-C22)	157.8	10	166.6	0	94.7	54	91	0	0	0	S
Surr: n-Octacosane	2.066	0.010	3.329	0	62.1	55	130	0	0		

Sample ID: LCSD-324	SampType: LCSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 4/25/02	Run ID: L_FID-1_020430A						
	Batch ID: 324	TestNo: SW8015M		Analysis Date: 4/30/02	SeqNo: 23589						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual

Diesel Range Organics (C12-C22)	119.1	10	166.6	0	71.5	54	91	157.8	28.0	25	R
Surr: n-Octacosane	3.965	0.010	3.329	0	119	55	130	0	0	0	

Sample ID: LCSD-324	SampType: LCSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 4/25/02	Run ID: L_FID-1_020430B						
	Batch ID: 324	TestNo: SW8015M		Analysis Date: 4/30/02	SeqNo: 24146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual

Diesel Range Organics (C12-C22)	167.9	10	166.6	0	101	54	91	157.8	6.18	25	S
Surr: n-Octacosane	2.566	0.010	3.329	0	77.1	55	130	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit C - Unspiked sample >5 times the amount spiked B - Analyte detected in the associated Method Blank
 JI - MS or MSD outside acceptance limits. LCS acceptable. R - RPD outside accepted recovery limits
 J - This concentration is considered an estimate due to LCS failure.

PROJECT/CLIENT INFORMATION REPORT INFORMATION SAMPLE INFORMATION

Project: CAV 398 BN Org#: A 435 Send Report to: Daniel O. Kirkov Sampling Site: 25-25-03

Charge No.: 5B09H211 ASL Prog.: Phone: 295-5577 Fax: 295-7761 M/S: NTS 306

Project Manager: Jeff Smith Turnaround: Standard - 30 days Non-rad, 60 Days Rad, Other: 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.

Phone: 295-7775 Fax: 295-7761 M/S: NTS 306 Final report format: Standard NTS-WAC Other: Rush Preliminary by: May 2 2002 Final by:

LAB USE ONLY ANALYSES & METHOD SAMPLE RECEIPT INFORMATION

Rad SGD: Non-Rad SGD: V1565

Rad Packet: Non-Rad Packet:

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: _____

Are all sample containers received intact? Yes No
Comments: _____

Do the labels agree with this form? Yes No
Comments: _____

Was a Material Clearance Tag submitted? Yes No
Comments: _____

ITEM	ID / DESCRIPTION	SAMPLING		MATRIX	✓	ANALYSES & METHOD										COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)			
		DATE	TIME																
0	252503-1	4-24-02	3:54	Soil	✓														
1	252503-2		3:55		✓														
2	252503-3		3:57		✓														
3	252503-4		3:59		✓														
4	252503-5	✓	4:00	✓	✓														
5	Lost Item																		
6																			
7																			
8																			
9																			

Handwritten notes in table: "TPH 8C15 M", "NEC", "suspected RAD", "ZE", "NO"

Transfer of samples submitted for analyses Complete for samples shipped to an OFF-SITE Subcontract Laboratory NEC

Sampled/Relinquished (Signature/Organization)	DATE / TIME	Received by (Signature/Organization)	Relinquished (BN Representative Signature)	DATE / TIME	Received (Counter & Tracking Info.)
<u>Daniel O. Kirkov / BNER</u>	<u>4/24/02 16:00</u>	<u>Sample Recd</u>	<u>Ken B. Campbell / BNER</u>	<u>4/25/02 15:30</u>	<u>BN Courier</u>
<u>Ken B. Campbell / BNER</u>	<u>4/25/02 8:30</u>	<u>Lois Larson</u>	Relinquished (Counter & Tracking Info.)	DATE / TIME	Received (1st tier Subcontractor Rep)
			<u>CA COURIER</u>	<u>4/25/02 15:30</u>	
			Relinquished (1st tier Subcontractor Rep)	DATE / TIME	Received (2nd tier Subcontractor Rep)

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

BN-0732 (02/98)

CLOSURE REPORT - CAU 398
Section: Appendix B
Revision: 1
Date: April 2003

SAMPLE DELIVERY GROUP

V1580

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Lionville Laboratory, Inc.

GAS RANGE ORGANICS

Report Date: 05/23/02 15:06

RFW Batch Number: 02051638

Client: BECHTEL NEVADA V1580

Work Order: 60052001001 Page: 1

16

	Cust ID:	252516-1	252516-2	252516-3	252516-4	252516-5	254403-1
Sample Information	RFW#:	001	002	003	004	005	006
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
	2,5-Dibromotoluene	141 %	80 %	99 %	122 %	73 %	91 %
	Gasoline Range Organics (GRO)	30 U	30 U	30 U	33 U	33 U	33 U

	Cust ID:	254403-2	254403-3	254403-4	254403-5	254403-6	254403-7
Sample Information	RFW#:	007	008	009	010	011	012
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
	2,5-Dibromotoluene	96 %	122 %	126 %	90 %	88 %	113 %
	Gasoline Range Organics (GRO)	33 U	30 U	29 U	29 U	28 U	33 U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

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Lionville Laboratory, Inc.
 GAS RANGE ORGANICS

Report Date: 05/23/02 15:06

RFW Batch Number: 0205L638

Client: BECHTEL NEVADA V1580

Work Order: 60052001001 Page: 2

17

	Cust ID:	254403-7	254403-7	TBLKEG	TBLKEG BS	TBLKEG BSD	TBLKDY
Sample Information	RFW#:	012 MS	012 MSD	02LVJ520-MB1	02LVJ520-MB1	02LVJ520-MB1	02LVJ516-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
2,5-Dibromotoluene		122 %	92 %	121 %	116 %	109 %	127 %
Gasoline Range Organics (GRO)		84 %	86 %	30 U	99 %	99 %	30 U

Cust ID: TBLKDY BS

Sample Information RFW#: 02LVJ516-MB1
 Matrix: SOIL
 D.F.: 1.00
 Units: UG/KG

2,5-Dibromotoluene		124 %
Gasoline Range Organics (GRO)		103 %

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Handwritten signature

Lionville Laboratory, Inc.

DIESEL RANGE ORGANICS BY GC

Report Date: 05/23/02 15:52

RFW Batch Number: 0205L638

Client: BECHTEL NEVADA V1580

Work Order: 60052001001 Page: 1

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	Cust ID:	252516-1	252516-2	252516-3	252516-4	252516-5	254403-1
Sample Information	RFW#:	001	002	003	004	005	006
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	p-Terphenyl	90 %	85 %	72 %	85 %	80 %	88 %
		=====fl=====	=====fl=====	=====fl=====	=====fl=====	=====fl=====	=====fl=====
	Diesel Range Organics	12.6 U	12.6 U	17	16	12.5 U	12.1 U
	Motor Oil	12.6 U	12.6 U	12.4 U	12.6 U	14	12.1 U

	Cust ID:	254403-2	254403-3	254403-4	254403-5	254403-6	254403-7
Sample Information	RFW#:	007	008	009	010	011	012
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	p-Terphenyl	81 %	90 %	90 %	98 %	90 %	90 %
		=====fl=====	=====fl=====	=====fl=====	=====fl=====	=====fl=====	=====fl=====
	Diesel Range Organics	12.1 U	12.3 U	12.3 U	12.2 U	12.2 U	12.4 U
	Motor Oil	12.1 U	12.3 U	12.3 U	12.2 U	12.2 U	12.4 U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Handwritten signature

Lionville Laboratory, Inc.

DIESEL RANGE ORGANICS BY GC

Report Date: 05/23/02 15:52

RFW Batch Number: 0205L638

Client: BECHTEL NEVADA V1580

Work Order: 60052001001 Page: 2

	Cust ID:	254403-7	254403-7	BLK	BLK BS
Sample Information	RFW#:	012 MS	012 MSD	02LE0542-MB1	02LE0542-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00
	Units:	mg/kg	mg/kg	mg/kg	mg/kg
	p-Terphenyl	85 %	92 %	79 %	80 %
	Diesel Range Organics	61 %	62 %	12.0 U	55 %
	Motor Oil	12.4 U	12.4 U	12.0 U	12.0 U

16

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Handwritten signature

SAMPLE DELIVERY GROUP

V1581

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NEL LABORATORIES

Corporate Headquarters /

Reno Laboratory

4750 Longley Lane, Suite 106
Reno, NV 89502
Phone: 775.348.2522
Fax: 775.348.2546

Las Vegas Laboratory

4208 Arcata Way, Suite A
Las Vegas, NV 89030
Phone: 702.657.1010
Fax: 702.657.1577

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
TEL: 702-295-7220

RE Project: **V1581**

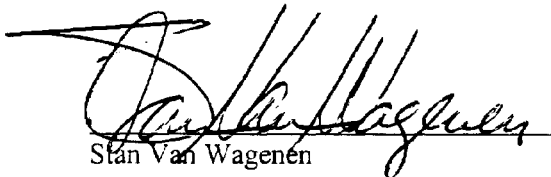
Order No.: **L0205125**

Dear Ted Redding:

NEL Laboratories, Las Vegas received 20 samples on 5/9/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.


Stan Van Wagenen
Laboratory Manager


Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified
US Army Corps of Engineers		Certified

Albuquerque
866.360.5726

Boise
800.200.2952

Las Vegas
888.368.3282

Phoenix
888.238.2514

Reno
800.368.5221

Sacramento
800.368.5221

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 25-2505-1
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-001A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Surr: n-Octacosane	80.1	%REC	55-130	1	SW8015Ext	05/13/02	05/15/02	PXC-LV

ND - Not Detected at the Reporting Limit
 DF - Dilution Factor

B - Analyte detected in the associated Method Blank
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range

Date: 16-May-02

Page 1 of 46

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252505-2
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-002A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Oil Range Organics (C22-C34)	68	mg/Kg	50	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Total Petroleum Hydrocarbons	68	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Surr: n-Octacosane	94.1	%REC	55-130	1	SW8015Ext	05/13/02	05/14/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252505-3
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-003A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Surr: n-Octacosane	86.1	%REC	55-130	1	SW8015Ext	05/13/02	05/15/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252505-4
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-004A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Surr: n-Octacosane	75.1	%REC	55-130	1	SW8015Ext	05/13/02	05/14/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 4 of 46

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252505-5
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-005A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	46	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Total Petroleum Hydrocarbons	46	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Surr: n-Octacosane	83.1	%REC	55-130	1	SW8015Ext	05/13/02	05/14/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252505-5
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-005B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Cadmium	ND	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 6 of 46

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252505-6
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-006A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Surr: n-Octacosane	83.1	%REC	55-130	1	SW8015Ext	05/13/02	05/15/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252505-6
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-006B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Cadmium	ND	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252505-7
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-007A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Surr: n-Octacosane	57.1	%REC	55-130	1	SW8015Ext	05/13/02	05/14/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252505-7
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-007B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Cadmium	ND	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252505-8
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-008A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Surr: n-Octacosane	77.1	%REC	55-130	1	SW8015Ext	05/13/02	05/14/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252505-8
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-008B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Cadmium	ND	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252505-9
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-009A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Surr: n-Octacosane	85.1	%REC	55-130	1	SW8015Ext	05/13/02	05/14/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252505-9
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-009B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Cadmium	ND	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252505-10
DATE SAMPLED: 5/7/02
NEL SAMPLE ID: L0205125-010A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Surr: n-Octacosane	78.1	%REC	55-130	1	SW8015Ext	05/13/02	05/14/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252505-10
DATE SAMPLED: 5-7-02
NEL SAMPLE ID: L0205125-010B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Cadmium	ND	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-1W
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-011A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Surr: n-Octacosane	92.1	%REC	55-130	1	SW8015Ext	05/13/02	05/14/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-1W
DATE SAMPLED: 5 2 02
NEL SAMPLE ID: L0205125-011B

Parameter	Result	Unit	Reporting			Prep Date	Analyzed	Analyst
			Limit	DF	Method			
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Decachlorobiphenyl	109	%REC	45-149	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Tetrachloro-m-xylene	102	%REC	48-136	1	SW8082	05/13/02	05/14/02	JRW-LV

ND - Not Detected at the Reporting Limit
 DF - Dilution Factor

B - Analyte detected in the associated Method Blank
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range

Date: 16-May-02

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252504-1W
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-011C

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Cadmium	ND	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno
Lead	ND	mg/L	0.050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-2W
DATE SAMPLED: 5 2 02
NEL SAMPLE ID: L0205125-012A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Surr: n-Octacosane	83.1	%REC	55-130	1	SW8015Ext	05/13/02	05/14/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-2W
DATE SAMPLED: 5 2 02
NEL SAMPLE ID: L0205125-012B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Decachlorobiphenyl	111	%REC	45-149	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Tetrachloro-m-xylene	107	%REC	48-136	1	SW8082	05/13/02	05/14/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252504-2W
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-012C

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Cadmium	ND	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno
Lead	ND	mg/L	0.050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada

CLIENT ID: 252504-3W

PROJECT ID: V1581

DATE SAMPLED: 5/2/02

PROJECT #: 30033

NEL SAMPLE ID: L0205125-013A

MATRIX: SOLID

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Surr: n-Octacosane	92.1	%REC	55-130	1	SW8015Ext	05/13/02	05/14/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-3W
DATE SAMPLED: 5 2 02
NEL SAMPLE ID: L0205125-013B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1260	45	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Decachlorobiphenyl	116	%REC	45-149	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Tetrachloro-m-xylene	120	%REC	48-136	1	SW8082	05/13/02	05/14/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252504-3W
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-013C

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Cadmium	ND	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno
Lead	ND	mg/L	0.050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-4W
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-014A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Surr: n-Octacosane	72.1	%REC	55-130	1	SW8015Ext	05/13/02	05/14/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-4W
DATE SAMPLED: 5 2 02
NEL SAMPLE ID: L0205125-014B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Decachlorobiphenyl	95.5	%REC	45-149	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Tetrachloro-m-xylene	96.0	%REC	48-136	1	SW8082	05/13/02	05/14/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252504-4W
DATE SAMPLED: 5 2 02
NEL SAMPLE ID: L0205125-014C

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>						
Cadmium	ND	mg/L	0.0050		1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno
Lead	ND	mg/L	0.050		1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-5W
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-015A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Surr: n-Octacosane	94.1	%REC	55-130	1	SW8015Ext	05/13/02	05/14/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-5W
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-015B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Decachlorobiphenyl	105	%REC	45-149	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Tetrachloro-m-xylene	103	%REC	48-136	1	SW8082	05/13/02	05/14/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252504-5W
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-015C

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Cadmium	ND	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno
Lead	ND	mg/L	0.050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-1E
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-016A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/14/02	PXC-LV
Surr: n-Octacosane	80.1	%REC	55-130	1	SW8015Ext	05/13/02	05/14/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-1E
DATE SAMPLED: 5 2 02
NEL SAMPLE ID: L0205125-016B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Decachlorobiphenyl	117	%REC	45-149	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Tetrachloro-m-xylenc	116	%REC	48-136	1	SW8082	05/13/02	05/14/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252504-1E
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-016C

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Cadmium	0.012	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno
Lead	ND	mg/L	0.050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-2E
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-017A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PNC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PNC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/15/02	PNC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PNC-LV
Surr: n-Octacosane	88.1	%REC	55-130	1	SW8015Ext	05/13/02	05/15/02	PNC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-2E
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-017B

Parameter	Result	Unit	Reporting			Prep Date	Analyzed	Analyst
			Limit	DF	Method			
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1242	29	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Decachlorobiphenyl	105	%REC	45-149	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Tetrachloro-m-xylene	101	%REC	48-136	1	SW8082	05/13/02	05/14/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252504-2E
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-017C

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Cadmium	ND	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno
Lead	ND	mg/L	0.050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-3E
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-018A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Surr: n-Octacosane	75.1	%REC	55-130	1	SW8015Ext	05/13/02	05/15/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-3E
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-01SB

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Decachlorobiphenyl	104	%REC	45-149	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Tetrachloro-m-xylene	110	%REC	48-136	1	SW8082	05/13/02	05/14/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252504-3E
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-018C

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Cadmium	0.012	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno
Lead	ND	mg/L	0.050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-4E
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-019A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Surr: n-Octacosane	89.1	%REC	55-130	1	SW8015Ext	05/13/02	05/15/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-4E
DATE SAMPLED: 5 2 02
NEL SAMPLE ID: L0205125-019B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Decachlorobiphenyl	95.5	%REC	45-149	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Tetrachloro-m-xylene	99.0	%REC	48-136	1	SW8082	05/13/02	05/14/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252504-4E
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-019C

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Cadmium	ND	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno
Lead	ND	mg/L	0.050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-5E
DATE SAMPLED: 5 2 02
NEL SAMPLE ID: L0205125-020A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/13/02	05/15/02	PXC-LV
Surr: n-Octacosane	79.1	%REC	55-130	1	SW8015Ext	05/13/02	05/15/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252504-5E
DATE SAMPLED: 5 2 02
NEL SAMPLE ID: L0205125-020B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Decachlorobiphenyl	95.0	%REC	45-149	1	SW8082	05/13/02	05/14/02	JRW-LV
Surr: Tetrachloro-m-xylene	94.0	%REC	48-136	1	SW8082	05/13/02	05/14/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1581
PROJECT #: 30033
MATRIX: SOLID (TCLP)

CLIENT ID: 252504-5E
DATE SAMPLED: 5/2/02
NEL SAMPLE ID: L0205125-020C

<u>Parameter</u>	<u>Result</u> <u>Unit</u>		<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Cadmium	ND	mg/L	0.0050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno
Lead	ND	mg/L	0.050	1	SW 6010B-To	05/14/02	05/14/02	FIF-Reno

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 16-May-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

CLIENT: Bechtel Nevada
 Work Order: L0205125
 Project: V1581

ANALYTICAL QC SUMMARY REPORT

BatchID: 383

Sample ID: 020513PCB-MB		SampType: MBLK		TestCode: 8082_S		Units: µg/Kg		Prep Date: 5/13/02		Run ID: L_ECD-1_020514B	
Batch ID: 383		TestNo: SW8082		Analysis Date: 5/14/02		SeqNo: 29214					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual
Aroclor 1016	ND	20	0	0	0	0	0	0	0	0	
Aroclor 1221	ND	20	0	0	0	0	0	0	0	0	
Aroclor 1232	ND	20	0	0	0	0	0	0	0	0	
Aroclor 1242	ND	20	0	0	0	0	0	0	0	0	
Aroclor 1248	ND	20	0	0	0	0	0	0	0	0	
Aroclor 1254	ND	20	0	0	0	0	0	0	0	0	
Aroclor 1260	ND	20	0	0	0	0	0	0	0	0	
Surr: Tetrachloro-m-xylene	71.67	0.10	66.7	0	107	48	136	0	0	0	
Surr: Decachlorobiphenyl	73	0.10	66.7	0	109	45	149	0	0	0	

Sample ID: 020513PCB-LCS		SampType: LCS		TestCode: 8082_S		Units: µg/Kg		Prep Date: 5/13/02		Run ID: L_ECD-1_020514B	
Batch ID: 383		TestNo: SW8082		Analysis Date: 5/14/02		SeqNo: 29216					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual
Aroclor 1016	302.7	20	333.3	0	90.8	60	140	0	0	0	
Aroclor 1260	277.3	20	333.3	0	83.2	60	140	0	0	0	
Surr: Tetrachloro-m-xylene	67.67	0.10	66.77	0	101	48	136	0	0	0	
Surr: Decachlorobiphenyl	69.33	0.10	66.77	0	104	45	149	0	0	0	

Sample ID: 020513PCB-LCSD		SampType: LCSD		TestCode: 8082_S		Units: µg/Kg		Prep Date: 5/13/02		Run ID: L_ECD-1_020514B	
Batch ID: 383		TestNo: SW8082		Analysis Date: 5/14/02		SeqNo: 29215					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual
Aroclor 1016	305	20	333.1	0	91.6	60	140	302.7	0.768	25	
Aroclor 1260	280.7	20	333.1	0	84.3	60	140	277.3	1.19	28	
Surr: Tetrachloro-m-xylene	66.67	0.10	66.72	0	99.9	48	136	0	0	0	
Surr: Decachlorobiphenyl	66.67	0.10	66.72	0	99.9	45	149	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Bechtel Nevada
Work Order: L0205125
Project: V1581

ANALYTICAL QC SUMMARY REPORT

BatchID: 383

Sample ID: L.0205125-018BMS	SampType: MS	TestCode: 8082_S	Units: µg/Kg	Prep Date: 5/13/02	Run ID: L_ECD-1_020514B						
	Batch ID: 383	TestNo: SW8082		Analysis Date: 5/14/02	SeqNo: 29848						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDI limit	Qual

Aroclor 1016	325.5	20	333.6	0	97.6	60	140	0	0		
Aroclor 1260	289.1	20	333.6	0	86.7	60	140	0	0		
Surr: Tetrachloro-m-xylene	68.45	0.10	66.81	0	102	48	136	0	0		
Surr: Decachlorobiphenyl	67.45	0.10	66.81	0	101	45	149	0	0		

Sample ID: L.0205125-018BMS	SampType: MSD	TestCode: 8082_S	Units: µg/Kg	Prep Date: 5/13/02	Run ID: L_ECD-1_020514B						
	Batch ID: 383	TestNo: SW8082		Analysis Date: 5/14/02	SeqNo: 29849						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDI limit	Qual

Aroclor 1016	308.5	20	333.6	0	92.5	60	140	325.5	5.37	25	
Aroclor 1260	271.1	20	333.6	0	81.3	60	140	289.1	6.44	25	
Surr: Tetrachloro-m-xylene	69.78	0.10	66.81	0	104	48	136	0	0	0	
Surr: Decachlorobiphenyl	64.11	0.10	66.81	0	96	45	149	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Bechtel Nevada
Work Order: L0205125
Project: V1581

ANALYTICAL QC SUMMARY REPORT

BatchID: 385

Sample ID: 020513TPHS-MB	SampType: MBLK	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 5/13/02	Run ID: L_FID-1_020514B						
	Batch ID: 385	TestNo: SW8015M		Analysis Date: 5/14/02	SeqNo: 29570						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDI limit	Qual

Gasoline Range Organics (C8-C12)	ND	10									
Diesel Range Organics (C12-C22)	ND	10									
Oil Range Organics (C22-C34)	ND	50									
Total Petroleum Hydrocarbons	ND	10									
Surr: n-Octacosane	2.734	0.010	3.331	0	82.1	55	130	0	0		

Sample ID: 020513TPHS-LCS	SampType: LCS	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 5/13/02	Run ID: L_FID-1_020514B						
	Batch ID: 385	TestNo: SW8015M		Analysis Date: 5/14/02	SeqNo: 29594						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low limit	High limit	RPD Ref Val	%RPD	RPDI limit	Qual

Diesel Range Organics (C12-C22)	127.8	10	166.8	0	76.6	54	91	0	0		
Surr: n-Octacosane	2.668	0.010	3.331	0	80.1	55	130	0	0		

Sample ID: 020513TPHS-LCSD	SampType: LCSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 5/13/02	Run ID: L_FID-1_020514B						
	Batch ID: 385	TestNo: SW8015M		Analysis Date: 5/14/02	SeqNo: 29623						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDI limit	Qual

Diesel Range Organics (C12-C22)	129.6	10	166.9	0	77.6	54	91	127.8	1.40	25	
Surr: n-Octacosane	2.704	0.010	3.334	0	81.1	55	130	0	0		

Sample ID: L0205125-002A	SampType: MS	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 5/13/02	Run ID: L_FID-1_020514B						
	Batch ID: 385	TestNo: SW8015M		Analysis Date: 5/14/02	SeqNo: 29831						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low limit	High limit	RPD Ref Val	%RPD	RPDI limit	Qual

Diesel Range Organics (C12-C22)	125.1	10	166.9	0	74.9	54	91	0	0		
Surr: n-Octacosane	3.071	0.010	3.334	0	92.1	55	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Bechtel Nevada
Work Order: L0205125
Project: V1581

ANALYTICAL QC SUMMARY REPORT

BatchID: 385

Sample ID: L0205125-002AMSD	SampType: MSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 5/13/02	Run ID: L_FID-1_020514B	SeqNo: 29619					
	Batch ID: 385	TestNo: SW8015M1		Analysis Date: 5/14/02							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low limit	High limit	RPD Ref Val	%RPD	RPDI limit	Qual
Diesel Range Organics (C12-C22)	119	10	166.6	0	71.4	54	91	0	0	0	25
Surr: n-Octacosane	2.966	0.010	3.329	0	89.1	55	130	0	0	0	0

Qualifiers: NID - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits *Page 4 of 5*

CLIENT: Bechtel Nevada
Work Order: I.0205125
Project: V1581

ANALYTICAL QC SUMMARY REPORT

BatchID: R_986

Sample ID: MB-986	SampType: MBLK	TestCode: 6010W_T	Units: mg/L	Prep Date: 5/14/02	Run ID: SUB-2314						
	Batch ID: R_986	TestNo: SW6010B		Analysis Date: 5/14/02	SeqNo: 29660						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDI limit	Qual

Cadmium	ND	0.0050									
Lead	ND	0.050									

Sample ID: LCS-986	SampType: LCS	TestCode: 6010W_T	Units: mg/L	Prep Date: 5/14/02	Run ID: SUB-2314						
	Batch ID: R_986	TestNo: SW6010B		Analysis Date: 5/14/02	SeqNo: 29659						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDI limit	Qual

Cadmium	0.5239	0.0050	0.5	0	105	85	115	0	0		
Lead	1.024	0.050	1	0	102	85	115	0	0		

Sample ID: I.0205145-001B	SampType: MS	TestCode: 6010W_T	Units: mg/L	Prep Date: 5/14/02	Run ID: SUB-2314						
	Batch ID: R_986	TestNo: SW6010B		Analysis Date: 5/14/02	SeqNo: 29661						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDI limit	Qual

Cadmium	0.5172	0.0050	0.5	0	103	75	125	0	0		
Lead	1.005	0.050	1	0	101	75	125	0	0		

Sample ID: I.0205145-001B	SampType: MSD	TestCode: 6010W_T	Units: mg/L	Prep Date: 5/14/02	Run ID: SUB-2314						
	Batch ID: R_986	TestNo: SW6010B		Analysis Date: 5/14/02	SeqNo: 29662						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDI limit	Qual

Cadmium	0.5116	0.0050	0.5	0	102			0	0		
Lead	1	0.050	1	0	100			0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

PROJECT/CLIENT INFORMATION		REPORT INFORMATION			SAMPLE INFORMATION	
Project: <u>CAU398</u>	BN Org#: <u>A435</u>	Send Report to: <u>Daniel D. Kirker</u>				Sampling Site: <u>25-25-05</u>
Charge No.: <u>5B09HZ21</u>	ASL Prog.:	Phone: <u>295-3577</u>	Fax: <u>295-7761</u>	M/S: <u>NTS306</u>		The samples submitted contain (check); <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input type="checkbox"/> 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: <u>Jeff Smith</u>		Turnaround: <input type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: <input checked="" type="checkbox"/> Rush Preliminary by: <u>Fday</u> Final by: _____				
Phone: <u>295-7775</u>	Fax: <u>295-7761</u>	M/S: <u>NTS306</u>		Final report format: <input type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other: _____		

LAB USE ONLY			ANALYSES & METHOD					SAMPLE RECEIPT INFORMATION	
Rad SGD: Non-Rad SGD: <u>V1581</u>	Rad Packet:	Non-Rad Packet:	<u>PIA 8015 M 10:19</u> <u>1311</u> <u>TCIP Metals 6010 748</u> <u>P.I. 9.33</u>					Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____	
Client Services Representative:								Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____	
Will these analyses be performed under a signed SOW? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation: _____ CSR initials indicating review and approval: _____ Date: _____								Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____	
COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)									

ITEM	ID / DESCRIPTION	SAMPLING		MATRIX	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		DATE	TIME																
<u>01</u> 0	<u>25-2505-1</u>	<u>5-7-02</u>	<u>9:10</u>	<u>Soil</u>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
<u>02</u> 1	<u>252505-2</u>		<u>9:11</u>		✓														
<u>07</u> 2	<u>252505-3</u>		<u>9:12</u>		✓														<u>no suspected RAD</u>
<u>04</u> 3	<u>252505-4</u>		<u>9:14</u>		✓														
<u>05</u> 4	<u>252505-5</u>		<u>9:14</u>		✓	✓													
<u>06</u> 5	<u>252505-6</u>		<u>9:15</u>		✓	✓													
<u>07</u> 6	<u>252505-7</u>		<u>9:16</u>		✓	✓													
<u>08</u> 7	<u>252505-8</u>		<u>9:17</u>		✓	✓													
<u>09</u> 8	<u>252505-9</u>		<u>9:18</u>		✓	✓													
<u>10</u> 9	<u>252505-10</u>		<u>9:18</u>		✓	✓													

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)	Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)
<u>Daniel D. Kirker</u>	<u>5/8/02 1047</u>	<u>C. Castaneda</u>	<u>C. Castaneda</u>	<u>5/9/02 1302</u>	<u>BAI COURIER</u>
			Relinquished (Courier & Tracking Info.)	DATE / TIME	Received (1st tier Subcontractor Rep)
			<u>VACOURN</u>	<u>5/9/02 1615</u>	<u>[Signature]</u>
			Relinquished (1st tier Subcontractor Rep)	DATE / TIME	Received (2nd tier Subcontractor Rep)

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

S/16

CO205125

LEVELEY

PROJECT/CLIENT INFORMATION				REPORT INFORMATION				SAMPLE INFORMATION					
Project: CAU 395		BN Org#: A4135		Send Report to: Daniel J. Kirkner				Sampling Site: 25-25-C4					
Charge No.: 5B094221		ASL Prog.:		Phone: 295-5577		Fax: 295-7761		M/S: NTS 306					
Project Manager: Jeff Smith				Turnaround: <input checked="" type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: _____ <input checked="" type="checkbox"/> Rush Preliminary by: 7 day Final by: _____				The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input type="checkbox"/> 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.					
Phone: 295-7775		Fax: 295-7761		M/S: NTS 306		Final report format: <input type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other: _____							
LAB USE ONLY				ANALYSES & METHOD				SAMPLE RECEIPT INFORMATION					
Rad SGD:		Non-Rad SGD: V1587		TCEP-PI 2.23/511 CA, 16 METALS GALS, 7-10-04 PCBs 8082 P.I. TPH 8015 M/100				Are all sample containers received intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____					
Rad Packet:		Non-Rad Packet:						Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____					
Client Services Representative:								Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____					
Will these analyses be performed under a signed SOW? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation _____ CSR initials indicating review and approval: _____ Date: _____								COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)					
ITEM	ID / DESCRIPTION	SAMPLING DATE	TIME	MATRIX	TCEP-PI	PCBs	TPH						
01	252504-1W	5-2-02	10:20	SOIL	✓	✓	✓						
12	252504-2W		10:22		✓	✓	✓						
13	252504-3W		10:24		✓	✓	✓						
14	25-2504-4W		10:26		✓	✓	✓						
15	252504-5W		10:28		✓	✓	✓						
16	252504-1E		10:30		✓	✓	✓						
17	252504-2E		10:32		✓	✓	✓						
18	252504-3E		10:33		✓	✓	✓						
19	252504-4E		10:34		✓	✓	✓						
20	252504-5E		10:35		✓	✓	✓						
Transfer of samples submitted for analyses						Complete for samples shipped to an OFF-SITE Subcontract Laboratory <u>NEL</u>							
Sampled/Relinquished (Signature/Organization)		DATE / TIME		Received by (Signature/Organization)		Relinquished (BN Representative Signature)		DATE / TIME		Received (Courier & Tracking Info.)			
<i>Daniel J. Kirkner</i>		5/30/02		<i>[Signature]</i>		<i>CD Castorena</i>		5/9/02-130		<i>BAI COURIER</i>			
<i>[Signature]</i>		5/6/02		<i>Daniel J. Kirkner</i>		Relinquished (Courier & Tracking Info.)		DATE / TIME		Received (1st tier Subcontractor Rep)			
<i>[Signature]</i>		10:47/5802		<i>CD Castorena</i>		<i>BAI COURIER</i>		5-9-02 141		Received (2nd tier Subcontractor Rep)			

NO
 Suspected
 Rad 2E

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

CLOSURE REPORT - CAU 398
Section: Appendix B
Revision: 1
Date: April 2003

SAMPLE DELIVERY GROUP

V1596

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NEL LABORATORIES

**Corporate Headquarters /
Reno Laboratory**
4750 Longley Lane, Suite 106
Reno, NV 89502
Phone: 775.348.2522
Fax: 775.348.2546

Las Vegas Laboratory
4208 Arcata Way, Suite A
Las Vegas, NV 89030
Phone: 702.657.1010
Fax: 702.657.1577

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
TEL: 702-295-7220

RE Project: v1596

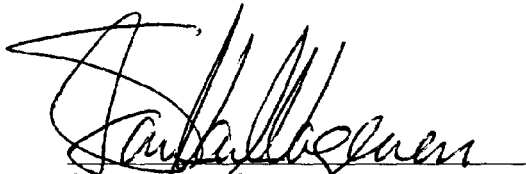
Order No.: L0205290

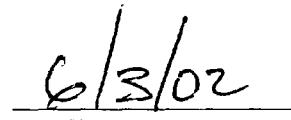
Dear Ted Redding:

NEL Laboratories, Las Vegas received 12 samples on 5/22/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.


Stan Van Wageningen
Laboratory Manager


Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified

Albuquerque
866.360.5726

Boise
800.200.2952

Las Vegas
888.368.3282

Phoenix
888.238.2514

Reno
800.368.5221

Sacramento
800.368.5221

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 254402-1
DATE SAMPLED: 5/20/02
NEL SAMPLE ID: L0205290-001A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/31/02	05/31/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/31/02	05/31/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/31/02	05/31/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/31/02	05/31/02	PXC-LV
Surr: n-Octacosane	64.1	%REC	55-130	1	SW8015Ext	05/31/02	05/31/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 254402-2
DATE SAMPLED: 5/20/02
NEL SAMPLE ID: L0205290-002A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Surr: n-Octacosane	65.1	%REC	55-130	1	SW8015Ext	05/24/02	05/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 254402-3
DATE SAMPLED: 5/20/02
NEL SAMPLE ID: L0205290-003A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/31/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/31/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/24/02	05/31/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/31/02	PXC-LV
Surr: n-Octacosane	71.1	%REC	55-130	1	SW8015Ext	05/24/02	05/31/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 254402-4
DATE SAMPLED: 5/20/02
NEL SAMPLE ID: L0205290-004A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Surr: n-Octacosane	84.1	%REC	55-130	1	SW8015Ext	05/24/02	05/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 254402-5
DATE SAMPLED: 5 20 02
NEL SAMPLE ID: L0205290-005A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Surr: n-Octacosane	75.1	%REC	55-130	1	SW8015Ext	05/24/02	05/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 254402-6
DATE SAMPLED: 5/20/02
NEL SAMPLE ID: L0205290-006A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Surr: n-Octacosane	80.1	%REC	55-130	1	SW8015Ext	05/24/02	05/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252503-1
DATE SAMPLED: 5.20.02
NEL SAMPLE ID: L0205290-007A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/31/02	06/01/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/31/02	06/01/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/31/02	06/01/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/31/02	06/01/02	PXC-LV
Surr: n-Octacosane	67.1	%REC	55-130	1	SW8015Ext	05/31/02	06/01/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252502-1
DATE SAMPLED: 5/21/02
NEL SAMPLE ID: L0205290-008A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Surr: n-Octacosane	66.1	%REC	55-130	1	SW8015Ext	05/24/02	05/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252502-1
DATE SAMPLED: 5/21/02
NEL SAMPLE ID: L0205290-008B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>	
			<u>Limit</u>	<u>DF</u>	<u>Method</u>				
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV	
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV	
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV	
Aroclor 1242	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV	
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV	
Aroclor 1254	870	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV	
Aroclor 1260	630	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV	
Surr: Decachlorobiphenyl	150	%REC	S	45-149	1	SW8082	05/28/02	05/31/02	JRW-LV
Surr: Tetrachloro-m-xylene	125	%REC		48-136	1	SW8082	05/28/02	05/31/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252502-2
DATE SAMPLED: 5/21/02
NEL SAMPLE ID: L0205290-009A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Surr: n-Octacosane	65.1	%REC	55-130	1	SW8015Ext	05/24/02	05/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02'

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252502-2
DATE SAMPLED: 5/21/02
NEL SAMPLE ID: L0205290-009B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1254	2600	µg/Kg	100	5	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Surr: Decachlorobiphenyl	161	%REC	45-149	1	SW8082	05/28/02	05/31/02	JRW-LV
Surr: Tetrachloro-m-xylene	130	%REC	48-136	1	SW8082	05/28/02	05/31/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v 1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252502-3
DATE SAMPLED: 5/21/02
NEL SAMPLE ID: L0205290-010A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Surr: n-Octacosane	75.1	%REC	55-130	1	SW8015Ext	05/24/02	05/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252502-3
DATE SAMPLED: 5/21/02
NEL SAMPLE ID: L0205290-010B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Aroclor 1016	ND	µg/Kg	2000	100	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1221	ND	µg/Kg	2000	100	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1232	ND	µg/Kg	2000	100	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1242	ND	µg/Kg	2000	100	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1248	ND	µg/Kg	2000	100	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1254	54000	µg/Kg	2000	100	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1260	ND	µg/Kg	2000	100	SW8082	05/28/02	05/31/02	JRW-LV
Surr: Decachlorobiphenyl	0	%REC	D 45-149	100	SW8082	05/28/02	05/31/02	JRW-LV
Surr: Tetrachloro-m-xylene	0	%REC	D 48-136	100	SW8082	05/28/02	05/31/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252502-4
DATE SAMPLED: 5/21/02
NEL SAMPLE ID: L0205290-011A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Surr: n-Octacosane	81.1	%REC	55-130	1	SW8015Ext	05/24/02	05/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252502-4
DATE SAMPLED: 5/21/02
NEL SAMPLE ID: L0205290-011B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1254	190	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1260	140	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Surr: Decachlorobiphenyl	148	%REC	45-149	1	SW8082	05/28/02	05/31/02	JRW-LV
Surr: Tetrachloro-m-xylene	125	%REC	48-136	1	SW8082	05/28/02	05/31/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252502-5
DATE SAMPLED: 5/21/02
NEL SAMPLE ID: L0205290-012A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	20	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	20	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	100	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	20	1	SW8015Ext	05/24/02	05/30/02	PXC-LV
Surr: n-Octacosane	83.1	%REC	55-130	1	SW8015Ext	05/24/02	05/30/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: v1596
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252502-5
DATE SAMPLED: 5/21/02
NEL SAMPLE ID: L0205290-012B

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Aroclor 1016	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1254	120	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Aroclor 1260	240	µg/Kg	20	1	SW8082	05/28/02	05/31/02	JRW-LV
Surr: Decachlorobiphenyl	124	%REC	45-149	1	SW8082	05/28/02	05/31/02	JRW-LV
Surr: Tetrachloro-m-xylene	103	%REC	48-136	1	SW8082	05/28/02	05/31/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 03-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

CLIENT: Bechtel Nevada
 Work Order: L0205290
 Project: v1596

ANALYTICAL QC SUMMARY REPORT

BatchID: 430

Sample ID: 020528PCBS-MB	SampType: MBLK	TestCode: 8082_S	Units: µg/Kg	Prep Date: 5/28/02	Run ID: L_ECD-1_020531A						
	Batch ID: 430	TestNo: SW8082		Analysis Date: 5/31/02	SeqNo: 34019						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual

Aroclor 1016	ND	20									
Aroclor 1221	ND	20									
Aroclor 1232	ND	20									
Aroclor 1242	ND	20									
Aroclor 1248	ND	20									
Aroclor 1254	ND	20									
Aroclor 1260	ND	20									
Surr: Tetrachloro-m-xylene	74.98	0.10	66.68	0	112	48	136	0	0		
Surr: Decachlorobiphenyl	94.3	0.10	66.68	0	141	45	149	0	0		

Sample ID: 020528PCBS-LCS	SampType: LCS	TestCode: 8082_S	Units: µg/Kg	Prep Date: 5/28/02	Run ID: L_ECD-1_020531A						
	Batch ID: 430	TestNo: SW8082		Analysis Date: 5/31/02	SeqNo: 34021						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual

Aroclor 1016	341.6	20	332.9	0	103	60	140	0	0		
Aroclor 1260	356.9	20	332.9	0	107	60	140	0	0		
Surr: Tetrachloro-m-xylene	75.97	0.10	66.68	0	114	48	136	0	0		
Surr: Decachlorobiphenyl	96.63	0.10	66.68	0	145	45	149	0	0		

Sample ID: 020528PCBS-LCSD	SampType: LCSD	TestCode: 8082_S	Units: µg/Kg	Prep Date: 5/28/02	Run ID: L_ECD-1_020531A						
	Batch ID: 430	TestNo: SW8082		Analysis Date: 5/31/02	SeqNo: 34020						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual

Aroclor 1016	313.2	20	332.9	0	94.1	60	140	341.6	8.65	25	
Aroclor 1260	324.9	20	332.9	0	97.6	60	140	356.9	9.38	28	
Surr: Tetrachloro-m-xylene	63.31	0.10	66.68	0	95	48	136	0	0	0	
Surr: Decachlorobiphenyl	81.31	0.10	66.68	0	122	45	149	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Bechtel Nevada
Work Order: L0205290
Project: v1596

ANALYTICAL QC SUMMARY REPORT

BatchID: 430

Sample ID: 1.0205290-011BMS	SampType: MS	TestCode: 8082_S	Units: µg/Kg	Prep Date: 5/28/02	Run ID: 1_EC-D-1_020531A						
	Batch ID: 430	TestNo: SW8082		Analysis Date: 5/31/02	SeqNo: 34028						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDI limit	Qual

Aroclor 1016	305.3	20	333	0	91.7	60	140	0	0		
Aroclor 1260	448.3	20	333	135.3	94	60	140	0	0		
Surr: Tetrachloro-m-xylene	77.33	0.10	66.7	0	116	48	136	0	0		
Surr: Decachlorobiphenyl	100.7	0.10	66.7	0	151	45	149	0	0		S

Sample ID: 1.0205290-011BMS	SampType: MSD	TestCode: 8082_S	Units: µg/Kg	Prep Date: 5/28/02	Run ID: 1_EC-D-1_020531A						
	Batch ID: 430	TestNo: SW8082		Analysis Date: 5/31/02	SeqNo: 34029						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	High limit	RPD Ref Val	%RPD	RPDI limit	Qual

Aroclor 1016	315.3	20	333	0	94.7	60	140	305.3	3.22	25	
Aroclor 1260	626	20	333	135.3	147	60	140	448.3	33.1	25	SR
Surr: Tetrachloro-m-xylene	69	0.10	66.7	0	103	48	136	0	0	0	
Surr: Decachlorobiphenyl	92.67	0.10	66.7	0	139	45	149	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Bechtel Nevada
Work Order: L0205290
Project: v1596

ANALYTICAL QC SUMMARY REPORT

BatchID: 440

Sample ID: 020524TPHS-MB	SampType: MBLK	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 5/24/02	Run ID: L_FID-1_020530B						
	Batch ID: 440	TestNo: SW8015M		Analysis Date: 5/30/02	SeqNo: 34034						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual

Gasoline Range Organics (C8-C12)	ND	10									
Diesel Range Organics (C12-C22)	ND	10									
Oil Range Organics (C22-C34)	ND	50									
Total Petroleum Hydrocarbons	ND	10									
Surr: n-Octacosane	2.003	0.010	3.336	0	60.1	55	130	0	0		

Sample ID: 020524TPHS-LCSD	SampType: LCSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 5/24/02	Run ID: L_FID-1_020530B						
	Batch ID: 440	TestNo: SW8015M		Analysis Date: 5/30/02	SeqNo: 34033						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual

Diesel Range Organics (C12-C22)	128.6	10	166.6	0	77.2	54	91	0	0		
Surr: n-Octacosane	2.698	0.010	3.328	0	81.1	55	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Bechtel Nevada
Work Order: L0205290
Project: v1596

ANALYTICAL QC SUMMARY REPORT

BatchID: 441

Sample ID: 020531TPHS-MB	SampType: MBLK	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 5/31/02	Run ID: L_FID-1_020531A						
	Batch ID: 441	TestNo: SW8015M		Analysis Date: 5/31/02	SeqNo: 33980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (C8-C12)	ND	10									
Diesel Range Organics (C12-C22)	ND	10									
Oil Range Organics (C22-C34)	ND	50									
Total Petroleum Hydrocarbons	ND	10									
Surr: n-Octacosane	2.067	0.010	3.33	0	62.1	55	130	0	0		

Sample ID: 020531TPHS-LCS	SampType: LCS	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 5/31/02	Run ID: L_FID-1_020531A						
	Batch ID: 441	TestNo: SW8015M		Analysis Date: 6/1/02	SeqNo: 33978						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C12-C22)	120.5	10	166.6	0	72.3	54	91	0	0		
Surr: n-Octacosane	2.6	0.010	3.329	0	78.1	55	130	0	0		

Sample ID: 020531TPHS-LCSD	SampType: LCSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 5/31/02	Run ID: L_FID-1_020531A						
	Batch ID: 441	TestNo: SW8015M		Analysis Date: 5/31/02	SeqNo: 33979						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C12-C22)	96.43	10	166.6	0	57.9	54	91	120.5	22.2	25	
Surr: n-Octacosane	2.6	0.010	3.329	0	78.1	55	130	0	0	0	

Sample ID: L0205290-001A	SampType: MS	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 5/31/02	Run ID: L_FID-1_020530B						
	Batch ID: 441	TestNo: SW8015M		Analysis Date: 5/30/02	SeqNo: 34045						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C12-C22)	112.4	10	166.5	0	67.5	54	91	0	0		
Surr: n-Octacosane	2.164	0.010	3.326	0	65.1	55	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Bechtel Nevada
Work Order: L0205290
Project: v1596

ANALYTICAL QC SUMMARY REPORT

BatchID: 441

Sample ID: L0205290-001A	SampType: MSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 5/31/02	Run ID: L_FID-I_020530B						
	Batch ID: 441	TestNo: SW8015M		Analysis Date: 5/30/02	SeqNo: 34044						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDI limit	Qual
Diesel Range Organics (C12-C22)	116.7	10	166.5	0	70.1	54	91	112.4	3.81	25	
Surr: n-Octacosane	2.197	0.010	3.326	0	66.1	55	130	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

L. J. V. L. Y

(5131)

L0205290

Bechtel Nevada

ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/CLIENT INFORMATION		REPORT INFORMATION			SAMPLE INFORMATION	
Project: CAV 398	BN Org#: A435	Send Report to: Daniel D. Kirker			Sampling Site: 25-44-02, 25-25-03	
Charge No.: 5 B094821	ASL Prog.:	Phone: 295-5577	Fax: 295-7761	MS: NTS 306	The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input type="checkbox"/> 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: Jeff Smith		Turnaround: <input checked="" type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: <input type="checkbox"/> Rush Preliminary by: _____ Final by: _____				
Phone: 295-7775	Fax: 295-7761	MS: NTS 306	Final report format: <input type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other:			

LAB USE ONLY		ANALYSES & METHOD						SAMPLE RECEIPT INFORMATION																																									
Rad SGD:	Non-Rad SGD: V1596	<table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																																														Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____	
Rad Packet:	Non-Rad Packet:	Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____																																															
Client Services Representative:		Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____																																															
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation CSR initials indicating review and approval: _____ Date: _____																																																	

01.
02.
03.
04.
05.
06.
07.

I T E M	ID / DESCRIPTION	SAMPLING		MATRIX	Y	N	None	Temp.	Condition when received	Comments
		DATE	TIME							
0	254402-1	5-20-02	1:20	Soil				10°C	good	250 ml containers
1	254402-2		1:21							
2	254402-3		1:22							
3	254402-4	5-20	1:23							
4	254402-5		3:15							
5	254402-6		1:24							
6	252503-1		4:45							
7	LAST ITEM									Suspected
8										
9										

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)	Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)
<i>[Signature]</i>	5/22/02 0800	CA Contract	<i>[Signature]</i>	5/22/02 1300	PHI COURIER
			Relinquished (Courier & Tracking Info.)	DATE / TIME	Received (1st tier Subcontractor Rep)
			<i>[Signature]</i>	5-22-02	
			Relinquished (1st tier Subcontractor Rep)	DATE / TIME	Received (2nd tier Subcontractor Rep)

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

LEVEL 4

(5/31)

L0205290

Bechtel Nevada

ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT / CLIENT INFORMATION		REPORT INFORMATION			SAMPLE INFORMATION	
Project: CAV 398	BN Org#: A435	Send Report to: Daniel D. Kirker			Sampling Site: 25-25-02	
Charge No.: 5609H221	ASL Prog.:	Phone: 295-5577	Fax: 295-7761	M/S: NTS 306	The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input type="checkbox"/> 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: Jeff Smith		Turnaround: <input checked="" type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: <input type="checkbox"/> Rush Preliminary by: _____ Final by: _____				
Phone: 295-7775	Fax: 295-7761	Final report format: <input type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other:				

LAB USE ONLY		ANALYSES & METHOD						SAMPLE RECEIPT INFORMATION	
Rad SGD:	Non-Rad SGD: V1596	APL ITEM: 10, 19, 10, 21 TPA 8:15 M APL ITEM: 8, 1 Pc.B 8:08 Z	✓	✓					Are all sample containers received intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Rad Packet:	Non-Rad Packet:								Comments:
Client Services Representative:								Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation								Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CSR initials indicating review and approval: _____ Date: _____								Comments:	

08
09
10
11
12

ITEM	ID / DESCRIPTION	SAMPLING		MATRIX	✓	✓														COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)	
		DATE	TIME																		
0	252502-1	5/21/02	12:32	SOIL	✓	✓															250 mL containers
1	252502-2		12:38																		
2	252502-3		12:39																		
3	252502-4		12:40																		
4	252502-5		12:41																		
5	LAST ITEM																				
6																					
7																					
8																					
9																					

Custody Seal Intact? **Y** N None
Condition when received **Good**
Temp **10°C**
NO RAD
suspected

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)	Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)	
<i>[Signature]</i>	5/22/02	CA Castaneda	CA Castaneda	5/22/02	BAI Courier	
			Relinquished (Courier & Tracking Info.)	DATE / TIME	Received (1st tier Subcontractor Rep)	
			ITIA COURIER	5/22/02		
			Relinquished (1st tier Subcontractor Rep)	DATE / TIME	Received (2nd tier Subcontractor Rep)	

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

BN-0732 (02/98)

SAMPLE DELIVERY GROUP

V1609

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NEL LABORATORIES

Corporate Headquarters /

Reno Laboratory
4750 Longley Lane, Suite 106
Reno, NV 89502
Phone: 775.348.2522
Fax: 775.348.2546

Las Vegas Laboratory
4208 Arcata Way, Suite A
Las Vegas, NV 89030
Phone: 702.657.1010
Fax: 702.657.1577

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
TEL: 702-295-7220

RE Project: V1609

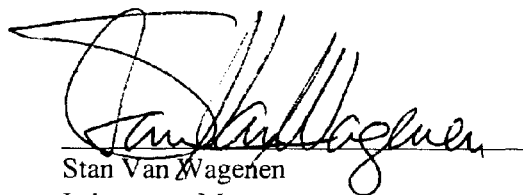
Order No.: L0206022

Dear Ted Redding:

NEL Laboratories, Las Vegas received 12 samples on 6/4/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.



Stan Van Wagenen
Laboratory Manager

6/14/02
Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified

Albuquerque
866.360.5726

Boise
800.200.2952

Las Vegas
888.368.3282

Phoenix
888.238.2514

Reno
800.368.5221

Sacramento
800.368.5221

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1609
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252504-1
DATE SAMPLED: 6/3/02
NEL SAMPLE ID: L0206022-001A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Surr: n-Octacosane	79.1	%REC	55-130	1	SW8015Ext	06/05/02	06/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 11-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1609
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252504-2
DATE SAMPLED: 6/3/02
NEL SAMPLE ID: L0206022-002A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Surr: n-Octacosane	89.1	%REC	55-130	1	SW8015Ext	06/05/02	06/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 11-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1609
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252504-3
DATE SAMPLED: 6/3/02
NEL SAMPLE ID: L0206022-003A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Surr: n-Octacosane	102	%REC	55-130	1	SW8015Ext	06/05/02	06/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 11-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1609
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252504-4
DATE SAMPLED: 6/3/02
NEL SAMPLE ID: L0206022-004A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Surr: n-Octacosane	125	%REC	55-130	1	SW8015Ext	06/05/02	06/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 11-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 4 of 12

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1609
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252504-5
DATE SAMPLED: 6/3/02
NEL SAMPLE ID: L0206022-005A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Surr: n-Octacosane	99.1	%REC	55-130	1	SW8015Ext	06/05/02	06/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 11-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 5 of 12

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1609
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252504-6
DATE SAMPLED: 6/3/02
NEL SAMPLE ID: L0206022-006A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Surr: n-Octacosane	98.1	%REC	55-130	1	SW8015Ext	06/05/02	06/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 11-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1609
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252504-7
DATE SAMPLED: 6/3/02
NEL SAMPLE ID: L0206022-007A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	Reporting			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Surr: n-Octacosane	85.1	%REC	55-130	1	SW8015Ext	06/05/02	06/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 11-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1609
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252504-8
DATE SAMPLED: 6/3/02
NEL SAMPLE ID: L0206022-008A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Surr: n-Octacosane	97.1	%REC	55-130	1	SW8015Ext	06/05/02	06/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 11-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1609
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252504-9
DATE SAMPLED: 6/3/02
NEL SAMPLE ID: L0206022-009A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Surr: n-Octacosane	70.1	%REC	55-130	1	SW8015Ext	06/05/02	06/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 11-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1609
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252504-10
DATE SAMPLED: 6/3/02
NEL SAMPLE ID: L0206022-010A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Surr: n-Octacosane	73.1	%REC	55-130	1	SW8015Ext	06/05/02	06/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 11-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1609
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252504-11
DATE SAMPLED: 6/3/02
NEL SAMPLE ID: L0206022-011A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Surr: n-Octacosane	81.1	%REC	55-130	1	SW8015Ext	06/05/02	06/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 11-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1609
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 252504-12
DATE SAMPLED: 6/3/02
NEL SAMPLE ID: L0206022-012A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/05/02	06/06/02	PXC-LV
Surr: n-Octacosane	74.1	%REC	55-130	1	SW8015Ext	06/05/02	06/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 11-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

CLIENT: Bechtel Nevada
 Work Order: L0206022
 Project: V1609

ANALYTICAL QC SUMMARY REPORT

BatchID: 454

Sample ID:	SampType:	TestCode:	Units:	Prep Date:	Run ID:						
020605TPHS-MB	MBLK	8015FFP_S	mg/Kg	6/5/02	L_FID-1_020605B						
	Batch ID: 454	TestNo: SW8015M		Analysis Date: 6/6/02	SeqNo: 35602						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (C8-C12)	ND	10									
Diesel Range Organics (C12-C22)	ND	10									
Oil Range Organics (C22-C34)	ND	50									
Total Petroleum Hydrocarbons	ND	10									
Surr: n-Octacosane	2.601	0.010	3.331	0	78.1	55	130	0	0		
Sample ID:	SampType:	TestCode:	Units:	Prep Date:	Run ID:						
020605TPHS-LCS	LCS	8015FFP_S	mg/Kg	6/5/02	L_FID-1_020605B						
	Batch ID: 454	TestNo: SW8015M		Analysis Date: 6/6/02	SeqNo: 35600						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C12-C22)	124.1	10	166.4	0	74.6	54	91	0	0		
Surr: n-Octacosane	2.762	0.010	3.324	0	83.1	55	130	0	0		
Sample ID:	SampType:	TestCode:	Units:	Prep Date:	Run ID:						
020605TPHS-LCSD	LCSD	8015FFP_S	mg/Kg	6/5/02	L_FID-1_020605B						
	Batch ID: 454	TestNo: SW8015M		Analysis Date: 6/6/02	SeqNo: 35601						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C12-C22)	122.7	10	166.5	0	73.7	54	91	124.1	1.13	25	
Surr: n-Octacosane	2.73	0.010	3.326	0	82.1	55	130	0	0	0	
Sample ID:	SampType:	TestCode:	Units:	Prep Date:	Run ID:						
L0206022-001A	MS	8015FFP_S	mg/Kg	6/5/02	L_FID-1_020605B						
	Batch ID: 454	TestNo: SW8015M		Analysis Date: 6/6/02	SeqNo: 36389						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C12-C22)	119	10	166.8	0	71.4	54	91	0	0		
Surr: n-Octacosane	2.434	0.010	3.331	0	73.1	55	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank.
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Bechtel Nevada
Work Order: L0206022
Project: V1609

ANALYTICAL QC SUMMARY REPORT

BatchID: 454

Sample ID: L0206022-001A	SampType: MSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 6/5/02	Run ID: L_FID-1_020605B						
	Batch ID: 454	TestNo: SW8015M		Analysis Date: 6/6/02	SeqNo: 36388						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual
Diesel Range Organics (C12-C22)	124.2	10	166.8	0	74.5	54	91	119	4.28	25	
Sum: n-Octacosane	2.568	0.010	3.331	0	77.1	55	130	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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Bechtel Nevada

ANALYTICAL SERVICES LABORATORY SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/CLIENT INFORMATION		REPORT INFORMATION			SAMPLE INFORMATION	
Project: CAV 398	BN Org#: A435	Send Report to: Daniel D. Kirkner	Phone: 295-5577	Fax: 295-7761	M/S: NTS 306	Sampling Site: 25-25-04
Charge No.:	ASL Prog.:	Turnaround: <input type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other:	<input checked="" type="checkbox"/> Rush Preliminary by: 7-11-02		Final by:	The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input type="checkbox"/> 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: Jeff Smith	Phone: 295-7775	Fax: 295-7761	M/S: NTS 306	Final report format: <input type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other:		

LAB USE ONLY		ANALYSES & METHOD						SAMPLE RECEIPT INFORMATION	
Rad SGD:	Non-Rad SGD: V1609	MS10M						Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments:	
Rad Packet:	Non-Rad Packet:							Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments:	
Client Services Representative:								Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments:	
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation CSR initials indicating review and approval: _____ Date: _____									

01
02
03
04
05
06
07
08
09
10

ITEM	ID / DESCRIPTION	SAMPLING		MATRIX	TPH	Custody Seal Intact? Y N None	Temp. Condition when received	Comments
		DATE	TIME					
0	252504-1	6-3-02	1:15	Soil	✓			40.250 mL
1	252504-2		1:16		✓			
2	252504-3		1:17		✓			
3	252504-4		1:18		✓			
4	252504-5		1:19		✓			
5	252504-6		1:20		✓			NO Suggested RAD
6	252504-7		1:21		✓			
7	252504-8		1:22		✓			
8	252504-9		1:23		✓			
9	252504-10		1:24		✓			

Transfer of samples submitted for analyses			Complete for samples shipped to an OFF-SITE Subcontract Laboratory NEL		
Sampled/Relinquished (Signature/Organization)	DATE / TIME	Received by (Signature/Organization)	Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)
<i>[Signature]</i>	6-4-02/1:22	<i>[Signature]</i>	<i>[Signature]</i>	6-4-02/13:00	<i>[Signature]</i>
			Relinquished (Courier & Tracking Info.)	DATE / TIME	Received (1st tier Subcontractor Rep)
			Via Courier	6-9-02/6:30	<i>[Signature]</i>
			Relinquished (1st tier Subcontractor Rep)	DATE / TIME	Received (2nd tier Subcontractor Rep)

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

LFUPL 4 4/11

L0206022

Bechtel Nevada		ANALYTICAL SERVICES LABORATORY SERVICES REQUEST & CHAIN OF CUSTODY RECORD				Page <u>2</u> of <u>2</u>
PROJECT/CLIENT INFORMATION			REPORT INFORMATION			SAMPLE INFORMATION
Project: <u>CAV398</u>	BN Org#: <u>A435</u>	Send Report to: <u>Daniel O. Kirkner</u>	Sampling Site: <u>25-25-04</u>			
Charge No.:	ASL Prog.:	Phone: <u>295-5577</u>	Fax: <u>295-7761</u>	M/S: <u>NTS 306</u>	The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input type="checkbox"/> 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: <u>Jeff Smith</u>		Turnaround: <input type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: <input checked="" type="checkbox"/> Rush Preliminary by: <u>7-11-02</u> Final by:			Final report format: <input type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other:	
Phone: <u>295-7775</u>	Fax: <u>295-7761</u>	M/S: <u>NTS 306</u>				
LAB USE ONLY			ANALYSES & METHOD			SAMPLE RECEIPT INFORMATION
Rad SGD: Non-Rad SGD: <u>V1609</u>	TPH 8015 M 8015 M			Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments:		
Rad Packet: Non-Rad Packet:				Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments:		
Client Services Representative:				Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments:		
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation CSR initials indicating review and approval: _____ Date: _____				COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)		
ITEM	ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	TPH	COMMENTS
11	0 252504-11	6-3-02	1:25	Soil	✓	250 ml
12	1 252504-12	6-3-02	1:26	Soil	✓	Temp. 48° good
2	LAST ITEM					NO suspected RAD
3	Custody Seal Intact? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N None Condition when received: <u>good</u>					
4						
5						
6						
7						
8						
9						
Transfer of samples submitted for analyses			Complete for samples shipped to an OFF-SITE Subcontract Laboratory <u>NEL</u>			
Sampled/Relinquished (Signature/Organization)	DATE / TIME	Received by (Signature/Organization)	Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)	
<u>Daniel O. Kirkner</u>	6-4-02/9:22	<u>CD Cantamada</u>	<u>CD Cantamada</u>	6-4-02/1300	<u>BN 0996122</u>	
			Relinquished (Carrier & Tracking Info.)	DATE / TIME	Received (1st tier Subcontractor Rep)	
			<u>VIA Courier</u>	6-4-02/1670	<u>for NTS-01</u>	
			Relinquished (1st tier Subcontractor Rep)	DATE / TIME	Received (2nd tier Subcontractor Rep)	

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

CLOSURE REPORT - CAU 398
Section: Appendix B
Revision: 1
Date: April 2003

SAMPLE DELIVERY GROUP

V1627

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NEL LABORATORIES

Corporate Headquarters /

Reno Laboratory
4750 Longley Lane, Suite 106
Reno, NV 89502
Phone: 775.348.2522
Fax: 775.348.2546

Las Vegas Laboratory
4208 Arcata Way, Suite A
Las Vegas, NV 89030
Phone: 702.657.1010
Fax: 702.657.1577

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
TEL: 702-295-7220

RE Project: V1627

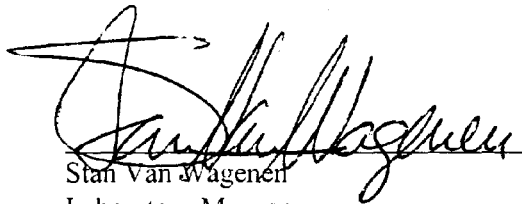
Order No.: L0206284

Dear Ted Redding:

NEL Laboratories, Las Vegas received 5 samples on 6/18/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.


Stan Van Wageningen
Laboratory Manager


Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified

Albuquerque
866.360.5726

Boise
800.200.2952

Las Vegas
888.368.3282

Phoenix
888.238.2514

Reno
800.368.5221

Sacramento
800.368.5221

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1627
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252502-1
DATE SAMPLED: 6/17/02
NEL SAMPLE ID: L0206284-001A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1254	960	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Surr: Decachlorobiphenyl	131	%REC	45-149	1	SW8082	06/20/02	06/24/02	JRW-LV
Surr: Tetrachloro-m-xylene	126	%REC	48-136	1	SW8082	06/20/02	06/24/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1627
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252502-2
DATE SAMPLED: 6/17/02
NEL SAMPLE ID: L0206284-002A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1254	430	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Surr: Decachlorobiphenyl	134	%REC	45-149	1	SW8082	06/20/02	06/24/02	JRW-LV
Surr: Tetrachloro-m-xylene	120	%REC	48-136	1	SW8082	06/20/02	06/24/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1627
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252502-3
DATE SAMPLED: 6-17/02
NEL SAMPLE ID: L0206284-003A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1260	64	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Surr: Decachlorobiphenyl	126	%REC	45-149	1	SW8082	06/20/02	06/24/02	JRW-LV
Surr: Tetrachloro-m-xylene	124	%REC	48-136	1	SW8082	06/20/02	06/24/02	JRW-LV

ND - Not Detected at the Reporting Limit
 DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1627
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252502-4
DATE SAMPLED: 6/17/02
NEL SAMPLE ID: L0206284-004A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>			<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>	<u>Method</u>			
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1260	590	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Surr: Decachlorobiphenyl	127	%REC	45-149	1	SW8082	06/20/02	06/24/02	JRW-LV
Surr: Tetrachloro-m-xylene	113	%REC	48-136	1	SW8082	06/20/02	06/24/02	JRW-LV

ND - Not Detected at the Reporting Limit
 DF - Dilution Factor

B - Analyte detected in the associated Method Blank
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range

Date: 26-Jun-02

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1627
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 252502-5
DATE SAMPLED: 6/17/02
NEL SAMPLE ID: L0206284-005A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Aroclor 1260	480	µg/Kg	20	1	SW8082	06/20/02	06/24/02	JRW-LV
Surr: Decachlorobiphenyl	126	%REC	45-149	1	SW8082	06/20/02	06/24/02	JRW-LV
Surr: Tetrachloro-m-xylene	113	%REC	48-136	1	SW8082	06/20/02	06/24/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 5 of 5

CLIENT: Bechtel Nevada
 Work Order: L0206284
 Project: V1627

ANALYTICAL QC SUMMARY REPORT

BatchID: 494

Sample ID: 020620PCBS-MB	SampType: MBLK	TestCode: 8082_S	Units: µg/Kg	Prep Date: 6/20/02	Run ID: I_ECD-I_020621A						
	Batch ID: 494	TestNo: SW8082		Analysis Date: 6/21/02	SeqNo: 40761						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	High limit	RPD Ref Val	%RPD	RPD limit	Qual

Aroclor 1016	ND	20									
Aroclor 1221	ND	20									
Aroclor 1232	ND	20									
Aroclor 1242	ND	20									
Aroclor 1248	ND	20									
Aroclor 1254	ND	20									
Aroclor 1260	ND	20									
Surr: Tetrachloro-m-xylene	67	0.10	66.74	0	100	48	136	0	0		
Surr: Decachlorobiphenyl	68.67	0.10	66.74	0	103	45	149	0	0		

Sample ID: 020620PCBS-LCS	SampType: LCS	TestCode: 8082_S	Units: µg/Kg	Prep Date: 6/20/02	Run ID: I_ECD-I_020621A						
	Batch ID: 494	TestNo: SW8082		Analysis Date: 6/21/02	SeqNo: 40762						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual

Aroclor 1016	370.5	20	333.1	0	111	60	140	0	0		
Aroclor 1260	370.1	20	333.1	0	111	60	140	0	0		
Surr: Tetrachloro-m-xylene	72.36	0.10	66.72	0	108	48	136	0	0		
Surr: Decachlorobiphenyl	77.69	0.10	66.72	0	116	45	149	0	0		

Sample ID: L0206245-010AMS	SampType: MS	TestCode: 8082_S	Units: µg/Kg	Prep Date: 6/20/02	Run ID: I_ECD-I_020621A						
	Batch ID: 494	TestNo: SW8082		Analysis Date: 6/21/02	SeqNo: 40774						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual

Aroclor 1016	348.9	20	333.2	0	105	60	140	0	0		
Aroclor 1260	335.2	20	333.2	0	101	60	140	0	0		
Surr: Tetrachloro-m-xylene	68.71	0.10	66.74	0	103	48	136	0	0		
Surr: Decachlorobiphenyl	71.71	0.10	66.74	0	107	45	149	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Bechtel Nevada

Work Order: L0206284

Project: V1627

ANALYTICAL QC SUMMARY REPORT

BatchID: 494

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual
Aroclor 1016	322.9	20	333.2	0	96.9	60	140	348.9	7.75	25	
Aroclor 1260	309.9	20	333.2	0	93	60	140	335.2	7.86	25	
Surr: Tetrachloro-m-xylene	62.04	0.10	66.74	0	93	48	136	0	0	0	
Surr: Decachlorobiphenyl	65.04	0.10	66.74	0	97.5	45	149	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Location 1

6/25

10206284

Bechtel Nevada ANALYTICAL LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD Page ___ of ___

PROJECT/CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION			SAMPLE INFORMATION	
Project: CAU 398	BN Org #: A435	Send Report to: Daniel D. Kirkner	Phone: 295-5577	Fax: 295-7761	M/S: NTS 306	Sampling Site: CAS 25-25-02
Charge Number: 5B09H221		Turnaround: <input checked="" type="checkbox"/> Standard - 14 days IH, 28 days Non-rad Env, 45 Days Rad Env, (IH)	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 14 (non-Rad Env)		The samples submitted contain (check):	
Project Manager: Jeff Smith		<input checked="" type="checkbox"/> Rush Preliminary by:	<input type="checkbox"/> 1 <input type="checkbox"/> 7 <input type="checkbox"/> 14 <input type="checkbox"/> 28 (Radiological Env)		<input checked="" type="checkbox"/> Hazardous (list) - PCBs <input type="checkbox"/> Radioactive (list) - <input checked="" type="checkbox"/> Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.	
Phone: 295-7775	Fax: 295-7761	M/S: NTS 306				
SAMPLE MANAGEMENT INFORMATION						Pay Item, Analysis, Method
SDG: _____ (IH) V1627 (Non-Rad Env) _____ (Rad Env)						8.1
Samples submitted are associated with a signed Project SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Analyses entered here agree with the SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A						
If not, identify the variation: _____						
Subcontract Lab(s) used for this work: _____						
ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	QC Est. Vol	Pres - Analysis as HCl - VOCs
01 252502-1	6-17-02	10:40	Soil	1 No 250		PCB
02 252502-2		10:41				40C
03 252502-3		10:42				Ice
04 252502-4		10:43				
05 252502-5		10:44				
LAST ITEM						
Custody Seal Intact? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N None						Temp. 30C
Condition when received good						
CUSTODY TRANSFER						
Sampled/Relinquished (print)	Signature	Date/Time	Received by (print)	Signature	Date/Time	
Daniel D. Kirkner	Daniel D. Kirkner	6/18/02	CD CASTAÑEDA	CD Castañeda	6/18/02	
CD CASTAÑEDA	CD Castañeda	6/18/02	BM COLLIER	BM COLLIER	6-18-02	
	UVA		T. Souding		6-18-02	

CLOSURE REPORT - CAU 398
Section: Appendix B
Revision: 1
Date: April 2003

SAMPLE DELIVERY GROUP

V1815

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PROJECT/CLIENT INFORMATION			REPORT & TURNAROUND INFORMATION			SAMPLE INFORMATION		
Project: CAU 398		BN Org #: B502	Send Report to: Brad Jackson			Sampling Site: CAU398		
Charge Number: 5 B09 HZ30			Phone: 702-295-831	Fax: 702-295-7761	M/S: NT5306	The samples submitted contain (check):		
Project Manager: Jeffrey Smith			Turnaround: <input type="checkbox"/> Standard - 14 days IH, 28 days Non-rad Env, 45 Days Rad Env, (IH)			<input type="checkbox"/> Hazardous (list) -		
Phone: 702-245-7775	Fax: 702-295-7761	M/S: NT5306	<input checked="" type="checkbox"/> Rush Preliminary by:			<input type="checkbox"/> Radioactive (list) -		
			<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 14 (non-Rad Env)			<input checked="" type="checkbox"/> Unknown contamination.		
			<input type="checkbox"/> 1 <input type="checkbox"/> 7 <input type="checkbox"/> 14 <input type="checkbox"/> 28 (Radiological Env)			If known, identify contaminants.		
						This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.		

SAMPLE MANAGEMENT INFORMATION					Pay Item, Analysis, Method																																												
SDG: _____ (IH) <u>V1815</u> (Non-Rad Env) _____ (Rad Env)					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td style="text-align: center;">9.9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Metals -</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Cd, Pb</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>															9.9										Total Metals -										Cd, Pb									
9.9																																																	
Total Metals -																																																	
Cd, Pb																																																	
Samples submitted are associated with a signed Project SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																	
Analyses entered here agree with the SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A																																																	
If not, identify the variation: _____																																																	
Subcontract Lab(s) used for this work: <u>Lionville</u>																																																	

ID/DESCRIPTION	SAMPLING		MATRIX	CONTAINER		QC			Pres - Analysis eg. HCl - VOCs	Total Metals - Cd, Pb
	DATE	TIME		#	Est. Vol	MD	MS	MSD		
✓ 252504-V1	12/13/02	8:45	soil	1	250 mL					X
✓ 252504-V11	12/13/02	8:45		1						X
✓ 252504-V2		9:10		1						X
✓ 252504-V3		9:20		1						X
✓ 252504-V4		9:40		1						X
✓ 252504-V5		10:15		1						X
✓ 252504-V6		10:00		1						X
✓ 252504-V7		10:25		1						X
✓ 252504-V8		10:30		1						X
✓ 252504-V9	✓	11:20	✓	1	✓					X

CUSTODY TRANSFER		Signature		Date/Time		Received by (print)		Signature		Date/Time	
Sampled/Relinquished (print)		Marcus Dixon		12/16/02 9:31a		C. CASTANEDA		C. Castaneda		12/16/02 6:0951	
C. CASTANEDA		C. Castaneda		12/16/02 1300		FED EX TRCN LGT		790163552110 790163552142		12/16/02 1300	
J. Smith		J. Smith		12-17-02 0950		J. Smith		J. Smith		12-17-02 0950	

PROJECT / CLIENT INFORMATION			REPORT & TURNAROUND INFORMATION			SAMPLE INFORMATION		
Project: CAU 398	BN Org#: B522	Send Report to: Brad Jackson	Phone: 702-295-0331	Fax: 702-295-7761	M/S: NTS306	Sampling Site: CAU 398	The samples submitted contain (check):	
Charge Number: 5809 HZ 30		Turnaround: () Standard - 14 days IH, 28 days Non-rad Env, 45 days Rad Env				() Hazardous - (list)		
Project Manager: Jeffrey Smith		(<input checked="" type="checkbox"/>) RUSH Preliminary by: _____ (IH)				() Radioactive - (list)		
Phone: 702-295-7775	Fax: 702-295-7761	M/S: NTS306				(<input checked="" type="checkbox"/>) Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.		

SAMPLE MANAGEMENT INFORMATION						Pay Item, Analysis, Method									
SDG: _____ (IH) <u>V1815</u> (Non-Rad Env) _____ (Rad Env)						9.9									
Samples submitted are associated with a signed Project SOW. (<input checked="" type="checkbox"/> YES () NO						Total Metals - Cd, Pb, 6010									
Analyses entered here agree with the SOW. (<input checked="" type="checkbox"/> YES () NO () N/A															
If not, identify the variation: _____															
Subcontract Lab(s) used for this work: <u>LIONVILLE</u>															
ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC MD	MS	MSD	Pres - Analysis eg. HCl - VOCs						
252504-V10	12/13/02	11:40	SOIL	1	250mL					X					
252505-V1		12:35		1						X					
252505-V2		12:35		1						X					
252505-V3		12:45		1						X					
252505-V4		13:00		1						X					
252505-V5		13:10		1						X					
252505-V6		13:20		1						X					
LAST ITEM															

CUSTODY TRANSFER					
Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
Marcus Dixon	Marcus Dixon	12/16/02 9:31am	CASTANEDA	CASTANEDA	12/16/02 0931
CASTANEDA	CASTANEDA	12/16/02 @ 1300	Fred Ex Jackson	79016355 2110 79016355 2142	12/16/02 @ 1300
Fred Ex		12-17-02 0950	D. Smith	[Signature]	12-17-02 0950

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 12/30/02

CLIENT: BECHTEL NEVADA V1815
 WORK ORDER: 60052-001-001-0001-00

LVL LOT #: 0212L358

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-----	-----	-----	-----	-----	-----	-----
-001	252504-V1	Cadmium, Total	0.04 u	MG/KG	0.04	1.0
		Lead, Total	5.1	MG/KG	0.24	1.0
-002	252504-V11	Cadmium, Total	0.05	MG/KG	0.04	1.0
		Lead, Total	5.8	MG/KG	0.24	1.0
-003	252504-V2	Cadmium, Total	0.04 u	MG/KG	0.04	1.0
		Lead, Total	3.6	MG/KG	0.24	1.0
-004	252504-V3	Cadmium, Total	0.04 u	MG/KG	0.04	1.0
		Lead, Total	4.0	MG/KG	0.23	1.0
-005	252504-V4	Cadmium, Total	0.04 u	MG/KG	0.04	1.0
		Lead, Total	4.7	MG/KG	0.24	1.0
-006	252504-V5	Cadmium, Total	0.04 u	MG/KG	0.04	1.0
		Lead, Total	4.1	MG/KG	0.24	1.0
-007	252504-V6	Cadmium, Total	0.04 u	MG/KG	0.04	1.0
		Lead, Total	4.8	MG/KG	0.23	1.0
-008	252504-V7	Cadmium, Total	0.04 u	MG/KG	0.04	1.0
		Lead, Total	3.5	MG/KG	0.24	1.0
-009	252504-V8	Cadmium, Total	0.04 u	MG/KG	0.04	1.0
		Lead, Total	4.5	MG/KG	0.24	1.0
-010	252504-V9	Cadmium, Total	0.04 u	MG/KG	0.04	1.0
		Lead, Total	4.1	MG/KG	0.22	1.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 12/30/02

CLIENT: BECHTEL NEVADA V1815
 WORK ORDER: 60052-001-001-0001-00

LVJ LOT #: 0212L358

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-----	-----	-----	-----	-----	-----	-----
-011	252504-V10	Cadmium, Total	0.04	MG/KG	0.04	1.0
		Lead, Total	4.6	MG/KG	0.23	1.0
-012	252505-V1	Cadmium, Total	0.04 u	MG/KG	0.04	1.0
		Lead, Total	4.6	MG/KG	0.24	1.0
-013	252505-V2	Cadmium, Total	0.05	MG/KG	0.04	1.0
		Lead, Total	5.3	MG/KG	0.23	1.0
-014	252505-V3	Cadmium, Total	0.04	MG/KG	0.04	1.0
		Lead, Total	4.6	MG/KG	0.21	1.0
-015	252505-V4	Cadmium, Total	0.04 u	MG/KG	0.04	1.0
		Lead, Total	4.3	MG/KG	0.22	1.0
-016	252505-V5	Cadmium, Total	0.04	MG/KG	0.04	1.0
		Lead, Total	5.1	MG/KG	0.23	1.0
-017	252505-V6	Cadmium, Total	0.09	MG/KG	0.04	1.0
		Lead, Total	4.8	MG/KG	0.25	1.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 12/30/02

CLIENT: BECHTEL NEVADA V1815
 WORK ORDER: 60052-001-001-0001-00

LVL LOT #: 0212L35e

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK1	0210749-MB1	Cadmium, Total	0.04	U MG/KG	0.04	1.0
		Lead, Total	0.24	U MG/KG	0.24	1.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 12/30/02

CLIENT: BECHTEL NEVADA V1815
 WORK ORDER: 60052-001-001-0001-00

LVL LOT # 0212L358

SAMPLE	SITE ID	ANALYTE	SPIKED	INITIAL	SPIKED		DILUTION
			SAMPLE	RESULT	AMOUNT	%RECOV	
-001	252504-V1	Cadmium, Total	4.9	0.04u	5.1	96.1	1.0
		Cadmium, Total MSD	4.7	0.04u	5.1	92.2	1.0
		Lead, Total	57.4	5.1	50.7	103.2	1.0
		Lead, Total MSD	53.0	5.1	51.3	93.4	1.0

Lionville Laboratory, Inc.

INORGANICS DUPLICATE SPIKE REPORT 12/30/02

CLIENT: BECHTEL NEVADA V1815
WORK ORDER: 60052-001-001-0001-00

LVL LOT #: 0212L358

SAMPLE	SITE ID	ANALYTE	SPIKE#1		SPIKE#2	
			%RECOV	%RECOV	%RECOV	%DIFF
-001	252504-V1	Cadmium, Total	96.1	92.2	4.2	
		Lead, Total	103.2	93.4	10	

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 12/30/02

CLIENT: BECHTEL NEVADA V1815
WORK ORDER: 60052-001-001-0001-00

LVL LOT #: 0212L358

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR (REP)
-001REP	2S2504-V1	Cadmium, Total	0.04u	0.04u	NC	1.0
		Lead, Total	5.1	5.0	2.0	1.0

Lionville Laboratory, Inc.

INORGANICS LABORATORY CONTROL STANDARDS REPORT 12/30/02

CLIENT: BECHTEL NEVADA V1815
WORK ORDER: 60052-001-001-0001-00

LVL LOT #: 0212L358

SAMPLE	SITE ID	ANALYTE	SPIKED		UNITS	%RECOV
			SAMPLE	AMOUNT		
LCS1	02L0749-LC1	Cadmium, LCS	24.1	25.0	MG/KG	96.4
		Lead, LCS	242	250	MG/KG	96.8

APPENDIX C

USE RESTRICTION INFORMATION

CLOSURE REPORT - CAU 398
Section: Appendix C
Revision: 1
Date: April 2003

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CAU Use Restriction Information

CAU Number/Description: CAU 398: Area 25 Spill Sites, Nevada Test Site, Nevada

Applicable CAS Numbers/Descriptions: CAS 25-25-07, Hydraulic Oil Spill(s);
CAS 25-25-08, Hydraulic Oil Spill(s) / Oil spill sites located inside X and Y Tunnels in area 25.

Contact (organization/project): NNSA/NV Industrial Sites Project Manager

Surveyed Area (UTM coordinates, Zone 11, NDA 27):

CAS 25-25-07, Hydraulic Oil Spill(s)

NW corner: 4,064,605.16 m N 560,087.66 m E
 NE corner: 4,064,611.77 m N 560,108.00 m E
 SW corner: 4,064,595.76 m N 560,091.00 m E
 SE corner: 4,064,603.28 m N 560,109.85 m E

CAS 25-25-08, Hydraulic Oil Spill(s)

NW corner: 4,064,454.75 m N, 560,310.32 m E
 NE corner: 4,064,449.82 m N 560,320.18 m E
 SW corner: 4,064,428.24 m N 560,301.13 m E
 SE corner: 4,064,425.16 m N 560,310.24 m E

Survey Date 8/15/2002 **Survey Method** GPS **Datum** NAD 1927 **Zone** UTM Zone 11

Site Monitoring Requirements: NONE

Monitoring Frequency (quarterly, annually?): N/A

Use Restrictions

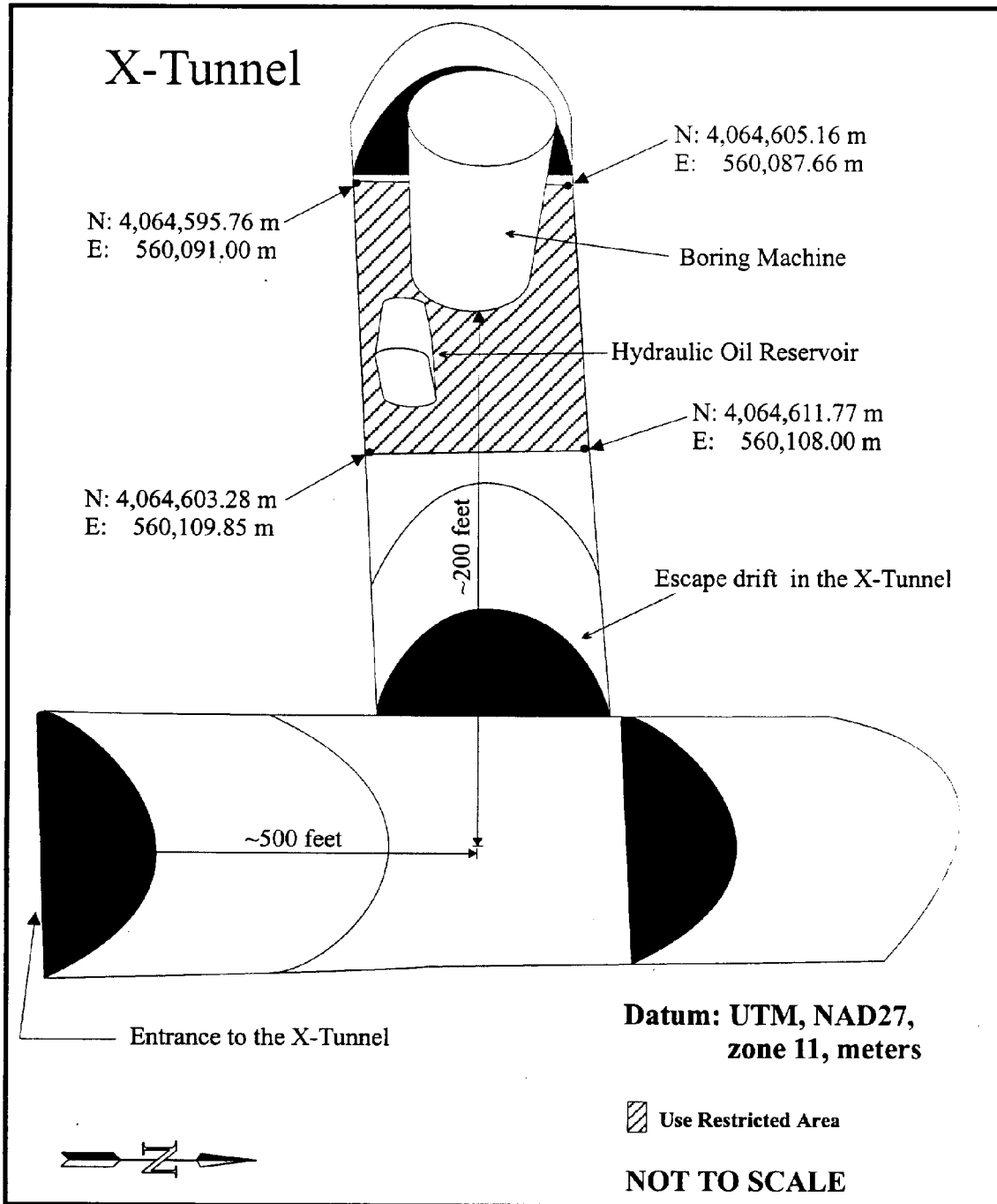
The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Comments: See the CAU 398 Closure Report (Document number DOE/NV-873, 2003) for additional information on the condition of the site and any monitoring and/or inspection requirements. Note, the spill sites are within the X and Y Tunnels. Use restrictions apply to the areas inside the tunnels only, not on the surface area above the tunnels.

Submitted By: Sabine Curtis **Date:** 1/23/03

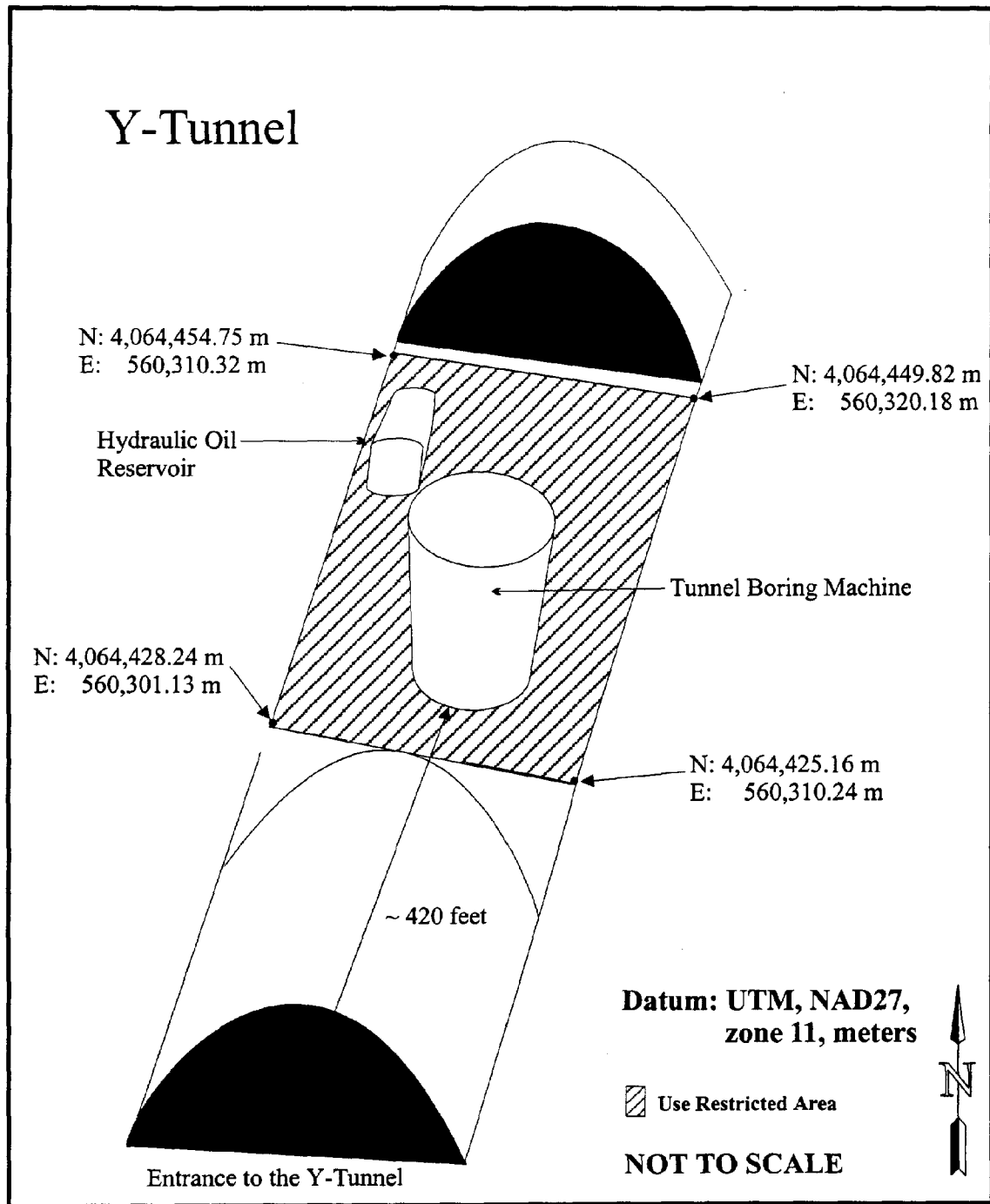
Attachments: Site Figures showing survey locations and coordinates for the X and Y Tunnel use restrictions (CAS252507_UR.cdr and CAS252508_UR.cdr).

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USE RESTRICTION INFORMATION
CAU 398: Area 25 Spill Sites, Nevada Test Site
CAS 25-25-07: Hydraulic Oil Spill(s)

Y-Tunnel



USE RESTRICTION INFORMATION
CAU 398: Area 25 Spill Sites, Nevada Test Site
CAS 25-25-08: Hydraulic Oil Spill(s)

CAU Use Restriction Information
--

CAU Number/Description: CAU 398: Area 25 Spill Sites, Nevada Test Site, Nevada

Applicable CAS Numbers/Descriptions: CAS 25-25-17, Subsurface Hydraulic Oil Spill

Contact (organization/project): NNSA/NV Industrial Sites Project Manager

Surveyed Area (UTM coordinates, Zone 11, NAD 27):

CAS 25-25-17, Subsurface Hydraulic Oil Spill

NW corner: 4,073,416.13 m N 562,107.74 m E

NE corner: 4,073,415.73 m N 562,110.74 m E

SE corner: 4,073,412.73 m N 562,110.14 m E

SW corner: 4,073,413.13 m N 562,107.14 m E

Survey Date 12/16/2002 **Survey Method** Transit **Datum** NAD 1927 **Zone** UTM Zone 11

Site Monitoring Requirements: NONE

Monitoring Frequency (quarterly, annually?): N/A

Use Restrictions

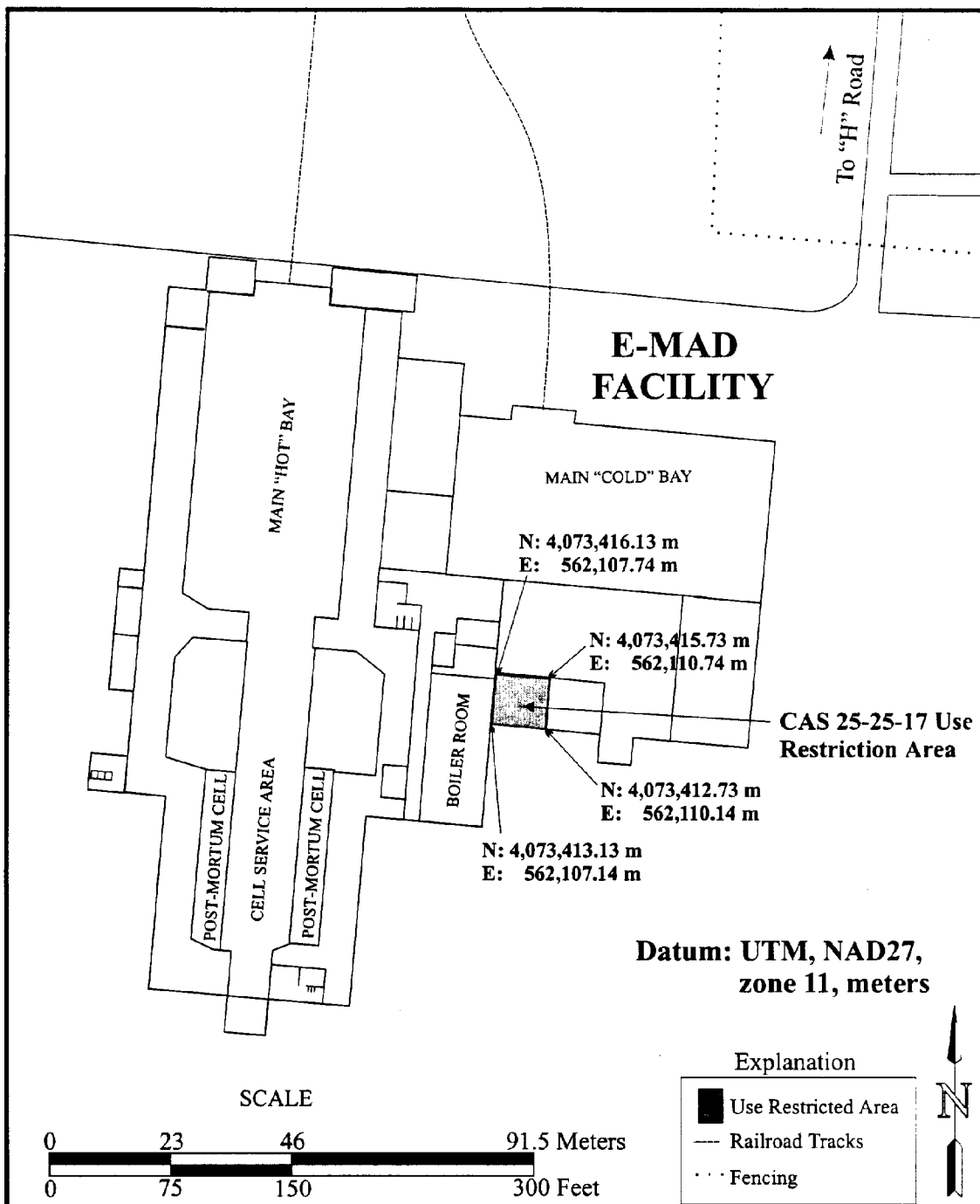
The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Comments: See the CAU 398 Closure Report (Document number DOE/NV- 873 , 2003) for additional information on the condition of the site and any monitoring and/or inspection requirements. Note, the spill site is within the Utility Corridor at E-MAD. Use restrictions apply to the area within the utility corridor.

Submitted By: Sabini Corti **Date:** 1/23/03

Attachments: Site Figure showing survey locations and coordinates (CAS252517_UR.cdr).

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USE RESTRICTION INFORMATION
CAU 398: Area 25 Spill Sites, Nevada Test Site
CAS 25-25-17: Subsurface Hydraulic Oil Spill

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APPENDIX D
WASTE DISPOSITION DOCUMENTATION

CLOSURE REPORT - CAU 398
Section: Appendix D
Revision: 1
Date: April 2003

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Request for Service

Project #: CAU 398

Environmental Operations/
Hazardous Waste Operations

FAX to 5-4815 or send to M/S NTS110

Date of Request: 6-20-02 Date Needed: 6/27/02 Charge #: 5B09HZ21
 Requester Name: Brad Jackson Phone Number: 5-0331 Org. Name/No.: A435
 Secondary Contact: Brian Konrad Phone Number: 5-1240 Mail Stop: NTS306
 EP Number: _____ Facility Owner or Designee: Jeff Smith

Section A - Services Requested

Check one: Used Oil Hazardous Unknown

Check Applicable: Sampling Characterization Pickup Transport only Recycling Disposal
 Delivery (i.e., empty packages) SAA 90-Day Storage UWCC Activate Deactivate
 Indicate SAA#, 90-Day#, or UWCC #, if applicable: NTS9009

Location of Pickup (Area, Bldg., exact directions are necessary, attach map if necessary):
Area 25, E-MAD Facility

Section B - General Waste Information (Use continuation sheet if necessary)

Waste Generation Date: 6/3/02 to 6/5/02 One Time Generation Routine Generation CAU/CAS if applicable: CAS 25-25-02
 Radiological Clearance provided: BN-0121, Clearance Sticker BN-0488, Green Tag BN-0002, Hazardous Waste Certification
 None
 Waste Amount (Gallons): _____ Type of Container (i.e., can, drum, carboy, tanker, etc.): 55 Metal
 Number of Containers: 4

Detailed Description/Process Knowledge (i.e., Liquid, Solid, Gas; Name of material; Physical description; How waste was generated, Suspected contaminants, etc.): (Attach applicable MSDSs.)
 Waste contains PCBs in soil. All waste is containerized in 55 gallon drums. Waste was generated when removing hydrocarbon impacted soil from CAS 25-25-02.

I certify under penalty of law, the above information is correct and additional information required is available as indicated. The material requested for pickup has only those materials described on this form. Contents will be verified by process knowledge of origin, MSDS, and/or sampling and analysis.

(specify) Generator Facility Owner Project Manager

Signature: [Signature]

Section C - Work Location Information

Facility Point of Contact (Name, Phone, Pager): <u>Jeff Smith, 5-7775, 4-5680</u>	Who will sign the Work Package Traveler? (Name, Phone, Pager): <u>Dan Kirker, 5-5577, 4-6075</u>
Facility Access Requirements: <u>EM-5 Key to enter E-MAD facility</u>	
Known hazards in the requested service area:	
Acceptable time period to conduct requested services: Hours (AM/PM): <u>7:00 AM to 4:00 PM</u> Day(s): <u>Mon-Thur</u>	

Section D - Services Completed

Waste characterized by: Process knowledge MSDS Sampling & Analysis Other: _____

Remarks (scheduling, pickup, disposition, etc.): Assign drums to Bu-NTS-02-0346 thru - 0347. Packages were shipped off site Monday 6/26/02.

Receiving Facility: Saint-Kleem, Phoenix AZ

Signature: [Signature] Date: 6/27/02

Bechtel Nevada

Project #: CAU 398

Date of Request: 5-06-02

Environmental Operations / Hazardous Waste Operations

FAX to EO/HWO at
702-295-4815 or send
to M/S NTS110

Date Needed: 5-23-02

Request for Service

Requester Name: Brad Jackson Phone Number: 5-0331
Secondary Contact: Brian Konrad Phone Number: 5-1240
Organization Name: Environmental Restoration Organization Number: A435
Charge Number: 5B09HZ21 Mail Stop: NTS306

An additional fee will be assessed for time expended when charge numbers are incorrect or are not open to Environmental Operations Org. numbers 2150 and above. If sampling is required the charge # must be open.

Section A - Services Requested (See instructions on page 2 or request assistance from EO/HWO personnel) Use continuation sheet if needed, page 3

Services required: (Check all that apply, put # needed) (Indicate removal date or if regular or new service in comments):	Check one: <input type="checkbox"/> Used Oil <input checked="" type="checkbox"/> Hazardous <input type="checkbox"/> Unknown <input type="checkbox"/> Sampling <input type="checkbox"/> Characterization <input checked="" type="checkbox"/> Pickup <input type="checkbox"/> Transportation only <input type="checkbox"/> Delivery <input type="checkbox"/> Recycling <input type="checkbox"/> Disposal <input type="checkbox"/> Activate <input type="checkbox"/> Deactivate <input type="checkbox"/> SAA <input type="checkbox"/> 90 Day <input type="checkbox"/> Universal Waste Indicate SAA, 90 Day, or UCC #, if applicable:
Location of Pickup; (Area, Bldg., exact directions are necessary, attach map if necessary):	Area 25, E-MAD facility Oil spill CASs 25-25-04 and 25-25-05.
Comments (Note any personnel hazards also):	Pick-up of 18 55 gallon drums containing TPH, PCB, Lead, and Cadmium impacted soil, for shipment off-site for disposal

Section B - General Waste Pickup Information (To be entered by waste generator, as applicable. See instructions for applicability.)

Waste Generation Date: 4/23 to 5/2 Radiological data provided, (see instructions on page 2)? Yes No Exempt
ER or historic cleanup?: Yes No If "Yes," describe (include CAU #): CAU 398 Area 25 Soil Sites
Waste Amount (Gallons): _____ Type of Container: 55 metal Number of Containers: 18

Description of Waste: (Liquid, Solid, Gas, Mix) Attach sheet as necessary. Indicate hazardous or non-hazardous, use one form BN-0766 for each type.

Waste contains TPH, PCBs, Lead and Cadmium in soil. All waste is containerized in 55 gallon drums

Waste origin statement (Use the continuation sheet, page 3, if necessary, and attach applicable information such as MSDS, analytical results, or SAA revisions.) Print, sign and deliver this request to EO/HWO.

Waste is from spills associated with CAU 398. All soil was excavated from the E-MAD facility in Area 25. Spills are from equipment leaking, and also from wastes being dumped in draining ditch after they finished using them.

Drum nos. BN-NTS-02-0203 thru BN-NTS-02-0206 are 55-G Dms of soil contaminated with DCO5
Drum nos. BN-NTS-02-0207 thru BN-NTS-02-0220 are 55-G Dms of soil contaminated with PCBs, DCO5, + DCO8.

I certify under penalty of law, the above information is correct and additional information required is available as indicated. The container requested for pickup has only those materials allowed by the acceptance criteria detailed on the instructions to this form. Contents will be verified by process or origin knowledge or sampling and analysis.

Generator Signature: [Signature]

Section C - HWO USE ONLY

Completed by (EO/HWO personnel initials): CCP Date Completed: 6/27/02

Receiving Facility: Safety-Kleen, Phoenix, AZ

EO/HWO Remarks (scheduling, pickup, container, exceptions, labels).

Drums were finally approved for release. All pickup was shipped off site via manifest to 02010 and 02011.

Conflict with HFD with release permits. Removal of E-MAD drums cancelled. CCP 5/23/02 5/23/02 5/23/02

Bechtel Nevada

TRAVELER

1. Work Package No.: HWO-HWSU-01-3S, Rev3 2. Work Package Type: 1 2 3
 (check one)

3. Organization: Hazardous Waste Operations

SECTION I - DESCRIPTION OF WORK (Prepared by work planner)

4. Description of work/activity to be performed: (circle applicable)
Delivery of empty packages for: Hazardous Waste/Universal Waste;
Retrieval of packages of: Hazardous Waste/Universal Waste. 5 - 7 in - 2 of Regulated PCBs

5. Area/Building: 25/ E-MAD Specific Location: #NTS9009

6. Requested Start Date: 3/11/2002 Forecast End Date: 9/7/2002

7. Do other employees in this facility need protection from the hazards of this work? Yes No
 If "YES," identify: _____

8. Permits Required? Yes No LOTO Required? Yes No

9. Permit Types: _____ None.

10. Other Requirements: _____ Notify prior to arrival.

11. Work Supervisor (Print Name/Sign): Carlos Gonzalez / [Signature]
 Phone/Pager: 5-6757/ 4-1784

SECTION II - WORK AUTHORIZATION (Completed by facility owner or designee)

12. Point of Contact: (Name/Phone/Pager No.) _____ DAN KIRKER 5-5577/4-6075

13. Access requirements have been met? Yes N/A

14. Pertinent hazards and controls for this work have been communicated to co-located work groups. Yes N/A

15. AUTHORIZATION TO PERMIT WORK - Work is within facility safety envelope and facility configuration determined.
 Work is authorized for these time periods, facility is ready to accept work, and work is deconflicted.

Start Date	Start Time	End Date	End Time	Print Facility Owner or Designee/Phone No.	Signature
6/27/02	0800	6/27/02	1000	Dan Kirker 5-5577/4-6075	[Signature]

16. Comments: Retrieve Hazardous & PCB Waste drums (22 each); to be shipped offsite via Manifest ##02010 & 02011.

SECTION III - FINAL STATUS/END OF WORK

17. Work is completed. Area is clean and safe. Post work verification is completed.
Carlos Gonzalez [Signature] 6/27/02
 Name (work supervisor or designee) Signature Date

18. Applicable activity/work is accepted and Traveler is closed.
 [Signature] 6-27-02
 Name (facility owner or designee) Signature Date

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NV3890090001		Manifest Document No. 02010		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.		
		3. Generator's Name and Mailing Address Bechtel Nevada for U.S. DOE P.O. Box 98521 Las Vegas, NV 89193 702 295-0311 Attn: Troy Belka M/S NTS110						A. State Manifest Document Number		B. State Generator's ID
4. Generator's Phone ()		5. Transporter 1 Company Name Safety-Kleen (TG), Inc.		6. US EPA ID Number SCR000074591		C. State Transporter's ID		D. Transporter's Phone 802-258-8155		
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone		G. State Facility's ID 801-323-8100		
9. Designated Facility Name and Site Address Safety-Kleen (Aragonite) 11600 North Aptus Road Aragonite, Utah 84029		10. US EPA ID Number UTD981552177		H. Facility's Phone						
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers		13. Total Quantity	14. Unit Wu/Vol	15. Waste No.		
	a. HM RQ Hazardous waste, solid, n.o.s. (D006, D008), 9, NA3077, III			14		DM	4155	K	D006 D008	
	b. Non-DOT Regulated PCB Soils			4		DM	1045	K	NONE	
	c.									
	d.									
J. Additional Descriptions for Materials Listed Above A: ERG171; BN-NTS-02-0207 thru 0220; AP3013446; Out of Service date: See attached inventory B: BN-NTS-02-0344 thru 0347; AP3013451; Out of Service date 08/05/02						K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information 24-hour emergency contact # (702) 295-0311 Collect Use Proper PPE when handling containers Certificate of Destruction is required										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name TROY S. BELKA				Signature <i>Troy S. Belka</i>			Month Day Year 06/27/02			
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>Oscar Ruiz</i>			Month Day Year 06/27/02		
	18. Transporter 2 Acknowledgement of Receipt of Materials				Signature			Month Day Year		
FACILITY	19. Discrepancy Indication Space									
	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.				Signature			Month Day Year		



ORIGINAL-RETURN TO GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NV3890090001	Manifest Document No. 02011	2. Page 1 of 2		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Bechtel Nevada for U.S. DOE P.O. Box 98521 Las Vegas, NV 89193 702 295-0311 Attn: Troy Belka M/S NTS110				A. State Manifest Document Number			
4. Generator's Phone ()				B. State Generator's ID			
5. Transporter 1 Company Name Safety-Kleen (TG), Inc.		6. US EPA ID Number SCR000074591		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 602-258-6155			
9. Designated Facility Name and Site Address Safety-Kleen Phoenix Service Center 1340 West Lincoln St. Phoenix, AZ 85007		10. US EPA ID Number AZD049318009		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility's ID 602-258-6155			
				H. Facility's Phone			
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
				No.	Type		
	a.	RQ	Hazardous waste, solid, n.o.s. (cadmium), 9, NA3077, III (D006)	4	DM	2230	P D006
	b.	X	Lithium Battery, 9, UN3090, II	1	DF	5	P NONE
	c.	X	Batteries, Wet, Non-Spillable, 8, UN2800, III	1	DF	39	P NONE
d.		Universal Waste - Fluorescent Lamps	48	DF	5478	P NONE	
J. Additional Descriptions for Materials Listed Above A: ERG171; BN-NTS-02-0203 through 0206; NVBNS-3015193 B: ERG138; BN-NTS-02-0244; NVBNS-0111 C: ERG154; BN-NTS-02-0264; NVBNS-3000669 D: See attached inventory; NVBNS-3000684				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information 24-hour emergency contact # (702) 295-0311 Collect Use Proper PPE when handling containers Certificate of Destruction is required							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name TROY S. BELKA				Signature <i>Troy S. Belka</i>		Month Day Year 10/6/27/02	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials						
	Printed/Typed Name Oscar Ruiz		Signature <i>Oscar Ruiz</i>		Month Day Year 10/6/27/02		
	18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year			
19. Discrepancy Indication Space							
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
	Printed/Typed Name				Signature		Month Day Year

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator's US EPA ID No.
NV3290090001

Manifest Document No.
02011

22. Page
2 of 2

Information in the shaded areas is not required by Federal law.

23. Generator's Name
Bechtel Nevada for U.S. DOE
P.O. Box 98521
Las Vegas, NV 89193
702-295-0311 Attn: Troy Belka MVS NTS110

L. State Manifest Document Number

M. State Generator's ID

24. Transporter Company Name

25. US EPA ID Number

N. State Transporter's ID

O. Transporter's Phone

26. Transporter Company Name

27. US EPA ID Number

P. State Transporter's ID

Q. Transporter's Phone

28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	29. Containers		30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
	No.	Type			

a. Universal Waste - Fluorescent Lamps	13	CF	135	P	NONE
--	----	----	-----	---	------

b. Universal Waste - Mercury Lamps	7	DF	238	P	NONE
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c. Universal Waste - Ni-Cd Batteries	3	DF	185	P	NONE
--------------------------------------	---	----	-----	---	------

d. Universal Waste - Crushed Fluorescent Lamps	1	DM	120	P	NONE
--	---	----	-----	---	------

e. Universal Waste - Crushed Fluorescent Lamps	1	DF	60	P	NONE
--	---	----	----	---	------

f.					
----	--	--	--	--	--

g.					
----	--	--	--	--	--

h.					
----	--	--	--	--	--

i.					
----	--	--	--	--	--

S. Additional Descriptions for Materials Listed Above
A: See attached inventory; NVBNS-3000634
B: See attached inventory; NVBNS-3000635
C: BN-NTS-02-0231, 0232, 0249; NVBNS-3000797
D: BN-NTS-02-0281; NVBNS-0063
E: BN-NTS-02-0306; NVBNS-0063

T. Handling Codes for Wastes Listed Above

32. Special Handling Instructions and Additional Information
G:
H:
I:
24-hour emergency contact # (702) 295-0311 Certificate of destruction is required

33. Transporter Acknowledgement of Receipt of Materials	Date
Printed/Typed Name	Signature
	Month Day Year

34. Transporter Acknowledgement of Receipt of Materials	Date
Printed/Typed Name	Signature
	Month Day Year

35. Discrepancy Indication Space

GENERATOR

TRANSPORTER

FACILITY

Waste Management System - [Sanitation Module]

Action Edit Block Field Record Query Window Help

SOLID WASTE TRACKING SYSTEM

Landfill IC	Date Of Receipt	Waste Category	Type Of Waste	EM or DP	Routine or Clean-up	Weight Pounds	Origin Of Waste		Comments
							Area No	Building No.	
AREA 6	21-MAY-2002	1	FFACO-ONSITE	EM	CLEAN-UP	46500	25	CAU 398	Comments
AREA 6	21-MAY-2002	1	FFACO-ONSITE	EM	CLEAN-UP	48000	25	CAU 398	Comments
AREA 6	21-MAY-2002	1	FFACO-ONSITE	EM	CLEAN-UP	48000	25	CAU 398	Comments
AREA 6	16-MAY-2002	1	FFACO-ONSITE	EM	CLEAN-UP	4600	25	CAU 398	Comments
AREA 6	07-MAY-2002	1	FFACO-ONSITE	EM	CLEAN-UP	23000	25	CAU 398	Comments
AREA 6	02-MAY-2002	1	FFACO-ONSITE	EM	CLEAN-UP	25000	25	CAU 398	Comments
AREA 6	30-APR-2002	1	FFACO-ONSITE	EM	CLEAN-UP	20000	25	CAU 398	Comments
AREA 6	29-APR-2002	1	FFACO-ONSITE	EM	CLEAN-UP	18000	25	CAU 398	Comments
AREA 6	24-APR-2002	1	FFACO-ONSITE	EM	CLEAN-UP	20000	25	CAU 398	Comments
AREA 9	24-APR-2002	1	FFACO-ONSITE	EM	CLEAN-UP	15000	25	CAU 398	Comments

If you see data records that have been changed, you will be asked to print to your default printer when you Exit.

Bechtel Nevada

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Query

Save

Exit

Bechtel Nevada

Count: 16

Waste Management System - [Sanitation Module]

Action Edit Block Field Record Query Window Help

SOLID WASTE TRACKING SYSTEM

Landfill ID	Date Of Receipt	Waste Category	Type Of Waste	EM or DP	Routine or Clean-up	Weight Pounds	Origin Of Waste		Comments
							Area No.	Building No.	
AREA 6	03-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	68000	25	CAU 398	Comments
AREA 6	30-MAY-2002	I	FFACO-ONSITE	EM	CLEAN-UP	80000	25	CAU 398	Comments
AREA 6	29-MAY-2002	I	FFACO-ONSITE	EM	CLEAN-UP	45000	25	CAU 398	Comments
AREA 6	29-MAY-2002	I	FFACO-ONSITE	EM	CLEAN-UP	46400	25	CAU 398	Comments
AREA 6	23-MAY-2002	I	FFACO-ONSITE	EM	CLEAN-UP	40000	25	CAU 398	Comments
AREA 6	22-MAY-2002	I	FFACO-ONSITE	EM	CLEAN-UP	48000	25	CAU 398	Comments
AREA 6	21-MAY-2002	I	FFACO-ONSITE	EM	CLEAN-UP	46500	25	CAU 398	Comments
AREA 6	21-MAY-2002	I	FFACO-ONSITE	EM	CLEAN-UP	48000	25	CAU 398	Comments
AREA 6	21-MAY-2002	I	FFACO-ONSITE	EM	CLEAN-UP	48000	25	CAU 398	Comments
AREA 6	16-MAY-2002	I	FFACO-ONSITE	EM	CLEAN-UP	4600	25	CAU 398	Comments

If you Save data, a report on records that have been changed today will be printed to your default printer when you Exit.

Bechtel Nevada

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Bechtel Nevada

SOLID WASTE TRACKING SYSTEM

Landfill ID	Date Of Receipt	Waste Category	Type Of Waste	EM or DP	Routine or Clean-up	Weight Pounds	Origin Of Waste		Comments
							Area No.	Building No.	
AREA 6	05-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	38000	25	CAU398	Comments
AREA 6	04-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	45000	25	CAU398	Comments
AREA 6	04-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	48000	25	CAU398	Comments
AREA 6	04-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	49000	25	CAU398	Comments
									Comments
									Comments
									Comments
									Comments
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									Comments

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SWO USE (Circle One Area) AREA 23 6 (9) LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Dan Kirker BYER Phone Number: 5-5577

Location / Origin: CAU 398 A-25 E-Mad

Waste Category: (check one)	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Industrial		
Waste Type: (check one)	<input type="checkbox"/> NTS	<input type="checkbox"/> Putrescible	<input checked="" type="checkbox"/> FFAO-onsite	<input type="checkbox"/> WAC Exception
	<input type="checkbox"/> Non-Putrescible	<input type="checkbox"/> Asbestos Containing Material	<input type="checkbox"/> FFAO-offsite	<input type="checkbox"/> Historic DOE/NV
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Environmental management	<input type="checkbox"/> Defense Projects		
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Clean-Up	<input type="checkbox"/> Routine		
Method of Characterization: (check one)	<input checked="" type="checkbox"/> Sampling & Analysis	<input type="checkbox"/> Process Knowledge	<input type="checkbox"/> Contents	

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels; and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses; Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill:	<input type="checkbox"/> Paper	<input checked="" type="checkbox"/> Rocks / unaltered geologic materials	<input type="checkbox"/> Empty containers		
<input type="checkbox"/> Asphalt	<input checked="" type="checkbox"/> Metal	<input type="checkbox"/> Wood	<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Rubber (excluding tires)	<input type="checkbox"/> Demolition debris
<input type="checkbox"/> Plastic	<input type="checkbox"/> Wire	<input type="checkbox"/> Cable	<input type="checkbox"/> Cloth	<input type="checkbox"/> Insulation (non-Asbestosform)	<input checked="" type="checkbox"/> Cement & concrete
<input type="checkbox"/> Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)					

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses
 Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:
 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:
 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters
 Plants Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: DK (if initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials that are allowed for disposal at this site. I have verified this through the waste characterization method identified above and a review of the above-mentioned prohibited and allowable waste items.

Print Name: Daniel D. Kirker
Signature: Daniel D. Kirker Date: 4-24-02

If applicable, place BN-0646, "Radiological Release Sticker" here. Onsite use only.

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY
Load Weight (net from scale or estimate) 19,000 Signature of Certifier: Wayne Lunde

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: BN Environmental Restoration - Dan Kiker Phone Number: 5-5577

Location / Origin: A-25 E-Mod CAU398 CAS 25-25-05

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFAO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFAO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers

Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris

Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete

Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses
 Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:
 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:
 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters
 Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only th site. I have verified this through the waste characterization method identifi prohibited and allowable waste items.

Print Name: Daniel D. Kiker
Signature: [Signature] Date: 4-27-02

Note: Food waste, office trash and/or animal carcasses are considered not to c require a radiological clearance.

Radiation Survey Release for Waste Disposal

RCT Initials

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: [Signature] DATE: 4/27/02
 BN-0640 (02/99)

SWO USE ONLY

Load Weight (net from scale or estimate): 30,000 Signature of Certifier: [Signature]

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: BN ER DAN KIRKER Phone Number: 5-5577

Location / Origin: A-25 E-Mad CAU 398

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decanned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters
 Plants SOIL Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: DK (If Initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials that are allowed for disposal at this site. I have verified this through the waste characterization method identified above and a review of the above-mentioned prohibited and allowable waste items.

Print Name: David D. Kirker
Signature: David D. Kirker Date: 7-29-02

If applicable, place BN-0646, "Radiological Release Sticker" here. Onsite use only.

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 18,000 Signature of Certifier: [Signature]

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: OWNER DAN KIRKER Phone Number: 5-5577
Location / Origin: A-25 Test Cell C CAU398

- Waste Category: (check one) Commercial Industrial
- Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV
- Pollution Prevention Category: (check one) Environmental management Defense Projects
- Pollution Prevention Category: (check one) Clean-Up Routine
- Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES
Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

- Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses
 Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:
 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decanned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:
 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters
 Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (if initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials that are allowed for disposal at this site. I have verified this through the waste characterization method identified above and a review of the above-mentioned prohibited and allowable waste items.

Print Name: Daniel D. Kirker
Signature: [Signature] Date: 4-30-02
Note: Food waste, office trash and/or animal carcasses are considered not to contain and require a radiological clearance.

Radiation Survey Release for Waste Disposal
RCT Initials
 This container/load is free of external radioactive contamination.
 This container/load is exempt from survey due to process knowledge and origin.
 This container/load is free of radioactive contamination based on radianalysis.
 SIGNATURE: [Signature] DATE: 4-30-02
 BN-0518 (09/00)

SWO USE ONLY

Load Weight (net from scale or estimate): 20,000 Signature of Certifier: [Signature]

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7698.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Dan Kirker BNER Phone Number: 5-7755

Location / Origin: A-25 E-Mud C#1398 C95 5/10/02

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses
 Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:
 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decconned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:
 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters
 Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Manage knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those mat site. I have verified this through the waste characterization method identified abc prohibited and allowable waste items.

Print Name: Daniel Kirker

Signature: [Signature] Date: 5-2-02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 25,000

Signature of Certifier: [Signature]

and to the best of my

Radiation Survey Release for Waste Disposal

RCT Initials

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: [Signature] DATE: 5-2-02

BN-0846 (08/99)

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: BY Environmental Restoration Day Kicker Phone Number: 5-5577

Location / Origin: A-25 ETS-1 CRW398

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception

Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels; and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses; Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete

Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters
 Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above prohibited and allowable waste items.

Print Name: Daniel P. Kicker

Signature: [Signature] Date: 5-6-02

Radiation Survey Release for Waste Disposal

RCT Initials

- This container/load is free of external radioactive contamination.
- This container/load is exempt from survey due to process knowledge and origin.
- This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: [Signature] DATE: 5/6/02
BN-0046 (08/99)

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 23,000 Signature of Certifier: Johnny Jones

(Waste definitions are available on page 2)

SWO USE (Circle One Area) AREA 23 6 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION
(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: _____ Phone Number: 295-5427

Location / Origin: Area 25, CAS 25-25-02 (TCA) Test cell "A" (AU 398)

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) TPH NTS Putrescible FFAO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFAO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES
Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decconned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-teme plated oil filters
 Plants Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials that are allowed for disposal at this site. I have verified this through the waste characterization method identified and prohibited and allowable waste items.

Print Name: David D. Kirkor

Signature: [Signature] Date: 5-16-02

Note: Food waste, office trash and/or animal carcasses are considered not to contain require a radiological clearance.

Radiation Survey Release for Waste Disposal

RCT Initials: _____

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: [Signature] DATE: 5/16

BN-0546 (05)

SWO USE ONLY

Load Weight (net from scale or estimate): 41600 Signature of Certifier: [Signature]

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: BN ER Dred Kicker Phone Number: 5-5577

Location / Origin: 4-25 CAU 398 Test cell A

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DCE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters
 Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above prohibited and allowable waste items.

Print Name: Daniel D. Kicker

Signature: [Signature] Date: 5-20-02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

Radiation Survey Release for Waste Disposal

RCT Initials

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: [Signature] DATE: 5-20-02

SWO USE ONLY

Load Weight (net from scale or estimate): 46500 Signature of Certifier: [Signature]

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: BA ER Dan Kiker Phone Number: 5-5577

Location / Origin: A-25 CAU 398 E MAD

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decanned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters
 Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above prohibited and allowable waste items.

Print Name: Daniel D Kiker

Signature: [Signature] Date: 5-21-02

Radiation Survey Release for Waste Disposal
RCT Initials
 This container/load is free of external radioactive contamination.
 This container/load is exempt from survey due to process knowledge and origin.
 This container/load is free of radioactive contamination based on radioanalysis.
SIGNATURE: [Signature] DATE: 5-21-02
EW-2848 (03/99)

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate) 48000 Signature of Certifier [Signature]

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: KR SR DAN KIRKER Phone Number: 5-5377

Location / Origin: A-25 CAU 398 EMAD

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decconned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters
 Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only tl site. I have verified this through the waste characterization method identi prohibited and allowable waste items.

Print Name: Daniel D Kirker

Signature: [Signature] Date: 5-21-02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

Radiation Survey Release for Waste Disposal RCT Initials

This container/load is free of external radioactive contamination.
 This container/load is exempt from survey due to process knowledge and origin.
 This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: [Signature] DATE: 5-21-02
BN-0845 (09/99)

SWO USE ONLY

Load Weight (net from scale or estimate): 48000 Signature of Certifier: [Signature]

SWO USE (Circle One Area) AREA 23 (6) 9 LAN.

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7896.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Baker ER Dan Kiker Phone Number: 5-557
Location / Origin: A-25 EAU 398 E med

Waste Category: (check one)	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Industrial		
Waste Type: (check one)	<input type="checkbox"/> NTS	<input type="checkbox"/> Putrescible	<input checked="" type="checkbox"/> FFACO-onsite	<input type="checkbox"/> WAC Exception
	<input type="checkbox"/> Non-Putrescible	<input type="checkbox"/> Asbestos Containing Material	<input type="checkbox"/> FFACO-offsite	<input type="checkbox"/> Historic DOE/NV
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Environmental management	<input type="checkbox"/> Defense Projects		
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Clean-Up	<input type="checkbox"/> Routine		
Method of Characterization: (check one)	<input checked="" type="checkbox"/> Sampling & Analysis	<input type="checkbox"/> Process Knowledge	<input type="checkbox"/> Contents	

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill:	<input type="checkbox"/> Paper	<input type="checkbox"/> Rocks / unaltered geologic materials	<input type="checkbox"/> Empty containers
<input type="checkbox"/> Asphalt	<input type="checkbox"/> Metal	<input type="checkbox"/> Wood	<input checked="" type="checkbox"/> Soil
<input type="checkbox"/> Plastic	<input type="checkbox"/> Wire	<input type="checkbox"/> Cable	<input type="checkbox"/> Cloth
<input type="checkbox"/> Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)	<input type="checkbox"/> Rubber (excluding tires)	<input type="checkbox"/> Insulation (non-Asbestosform)	<input type="checkbox"/> Demolition debris
	<input type="checkbox"/> Cement & concrete		

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses
 Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:
 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decconned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:
 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters
 Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If Initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials that are allowed for disposal at this site. I have verified this through the waste characterization method identified above and a review of the above-mentioned prohibited and allowable waste items.

Print Name: Daniel D. Kiker
Signature: Daniel D. Kiker Date: 5-21-02

Note: Food waste, office trash and/or animal carcasses are considered not to contain require a radiological clearance.

Radiation Survey Release for Waste Disposal

RCT Initials

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: Daniel D. Kiker DATE: 5-21-02

BN-0845 (09/00)

SWO USE ONLY

Load Weight (net from scale or estimate): 48000 Signature of Certifier: [Signature]

SWO USE (Circle One Area) **AREA 23** **(6)** **9** **LANDFILL**

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

Waste Generator: BNWER - JEREL NELSON (This form is for rollofs, dump trucks, and other onsite disposal of materials.) Phone Number: 5-1773

Location / Origin: AREA 25 E-MAD CAH 398

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFAO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFAO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decanned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terme plated oil filters
 Plants Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified as prohibited and allowable waste items.

Print Name: Don Cox
Signature: Don Cox for Jerel Nelson Date: 22 MAY 02

Radiation Survey Release for Waste Disposal

RCT Initials

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: Ken Watson DATE: 5-22-02
Asst. Per. M. Leroy 5-22-02

BN-0918 (09/00)

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 40000 Signature of Certifier: _____

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Bechtel Nevada

NTS Landfill Load Verification

(Waste definitions are available on page 2)

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: FER/BN Phone Number: 295-5577

Location / Origin: Area 25 / CU 398 FMA c

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses
 Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:
 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:
 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters
 Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above prohibited and allowable waste items.

Print Name: Daniel D. Kicker

Signature: [Signature] Date: 3-22-02

Radiation Survey Release for Waste Disposal

RCT Initials

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: [Signature] DATE: 3-22-02

BN-0640 (05/00)

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 46400 Signature of Certifier: [Signature]

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: BN/ER Phone Number: 295-5577

Location / Origin: E-MAD / CAU398

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite W/AC Exception

Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES
Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers

Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris

Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete

Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators

Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decconned Underground and Above Ground

Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters

Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Mani knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those n site. I have verified this through the waste characterization method identified a prohibited and allowable waste items.

Print Name: Daniel D. Kierker

Signature: [Signature] Date: 5-28-02

Radiation Survey Release for Waste Disposal

RCT Initials
 This container/load is free of external radioactive contamination.
 This container/load is exempt from survey due to process knowledge and origin.
 This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: [Signature] DATE: 5-29-02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 45,000 Signature of Certifier: [Signature]

NO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7895.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Generator: BN/ER Phone Number: 5-5522

Location / Origin: F-MAD / CAU398

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFAO-onsite WAC Exception

Waste Type: (check one) Non-Putrescible Asbestos Containing Material FFAO-offsite Historic DOE/NV

Waste Prevention Category: (check one) Environmental management Defense Projects

Waste Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers

Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris

Elastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete

Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators

Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decanned Underground and Above Ground

Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Sludges Rags Drained fuel filters (gas & diesel) Crushed non-teme plated oil filters

Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Signature: _____ (If Initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials that are allowed for disposal at this landfill. I have verified this through the waste characterization method identified at this landfill and allowable waste items.

Name: Daniel O. Kirker
Signature: [Signature] Date: 5-30-02

Additional notes: Food waste, office trash and/or animal carcasses are considered not to contain radiological clearance.

Radiation Survey Release for Waste Disposal RCT Initials

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radionalysis.

SIGNATURE: [Signature] DATE: 5-30-02

BN-0046 (10/99)

FOR USE ONLY

Weight (net from scale or estimate): 66,000 Signature of Certifier: JOHNNY JONES

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: BNIER

Phone Number: 5-5577

Location / Origin: E-MAD / CAU 398

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception

Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers

Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris

Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete

Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators

Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground

Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-teme plated oil filters

Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (if initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those mat site. I have verified this through the waste characterization method identified above prohibited and allowable waste items.

Print Name: Daniel D. Kirker
Signature: [Signature] Date: 5-30-02

Note: Food waste, office trash and/or animal carcasses are considered not to contain a require a radiological clearance.

Radiation Survey Release for Waste Disposal RCT Initials

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: [Signature] DATE: 5-30-02

SWO USE ONLY
Load Weight (net from scale or estimate): 80,000 Signature of Certifier: [Signature]

Bechtel Nevada

NTS Landfill Load Verification

(Waste definitions are available on page 2)

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: BN/ER Phone Number: 295-5577

Location / Origin: CAU398/E-MAD

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/IV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters
 Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those prohibited and allowable waste items.

Print Name: Daniel O. Kirker

Signature: [Signature] Date: 6-4-02

Note: Food waste, office trash and/or animal carcasses are considered not to contain require a radiological clearance.

Radiation Survey Release for Waste Disposal RCT Initials

This container/load is free of external radioactive contamination.
 This container/load is exempt from survey due to process knowledge and origin.
 This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: [Signature] DATE: 6-4-02

BN-0546 (09/99)

SWO USE ONLY

Load Weight (net from scale or estimate): 65' 38,000

Signature of Certifier: [Signature]

BN-0918 (09/00)

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: BN/ER Phone Number: 295-5577

Location / Origin: CAU 398 / E-MAD

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception

Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos at the Area 9 U10c Landfill:

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers

Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris

Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete

Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators

Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground

Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terne plated oil filters

Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials that are allowed for disposal at this site. I have verified this through the waste characterization method identified above and prohibited and allowable waste items.

Print Name: Daniel D. Kicker

Signature: [Signature] Date: 6-4-02

Note: Food waste, office trash and/or animal carcasses are considered not to contain require a radiological clearance.

Radiation Survey Release for Waste Disposal

RCT Initials
 This container/load is free of external radioactive contamination.
 This container/load is exempt from survey due to process knowledge and origin.
 This container/load is free of radioactive contamination based on radioanalysis.
SIGNATURE: [Signature] DATE: 6-4-02
BN-0540 (09/99)

SWO USE ONLY

Load Weight (net from scale or estimate): 49,600 Signature of Certifier: [Signature]

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: BN/ER Phone Number: 293-5872

Location / Origin: E-MAD / CAU398

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception

Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES
Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers

Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris

Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete

Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators

Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decanned Underground and Above Ground

Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terme plated oil filters

Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials that are allowed for disposal at this site. I have verified this through the waste characterization method identified above and a review of the above-mentioned prohibited and allowable waste items.

Print Name: David D. Kirker
Signature: [Signature] Date: 6-4-02

Note: Food waste, office trash and/or animal carcasses are considered not to contain acquire a radiological clearance.

Radiation Survey Release for Waste Dispo

RCT Initials

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: [Signature] DATE: 6-4-02

BN-0540

SWO USE ONLY

Load Weight (net from scale or estimate): 48007 Signature of Certifier: [Signature]

SWO USE (Circle One Area) AREA 23 (6) 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rollofts, dump trucks, and other onsite disposal of materials.)

Waste Generator: BN/ER Phone Number: 295-5577

Location / Origin: CAU 398 / E-MAD

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception

(check one) Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one) Environmental management Defense Projects

Pollution Prevention Category: (check one) Clean-Up Routine

Method of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers

Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris

Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete

Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses

Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators

Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground

Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-terme plated oil filters

Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (if initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials that are allowed for disposal at this site. I have verified this through the waste characterization method identified above and a review of the above-mentioned prohibited and allowable waste items.

Print Name: Daniel D. Kinker

Signature: [Signature] Date: 6-4-02

Note: Food waste, office trash and/or animal carcasses are considered not to contain & require a radiological clearance.

Radiation Survey Release for Waste Disposal

RCT Initials

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: [Signature] DATE: 6-4-02

BN-0545 (09/99)

SWO USE ONLY

Load Weight (net from scale or estimate): 45000 Signature of Certifier: [Signature]

CLOSURE REPORT - CAU 398
Section: Appendix E
Revision: 1
Date: April 2003

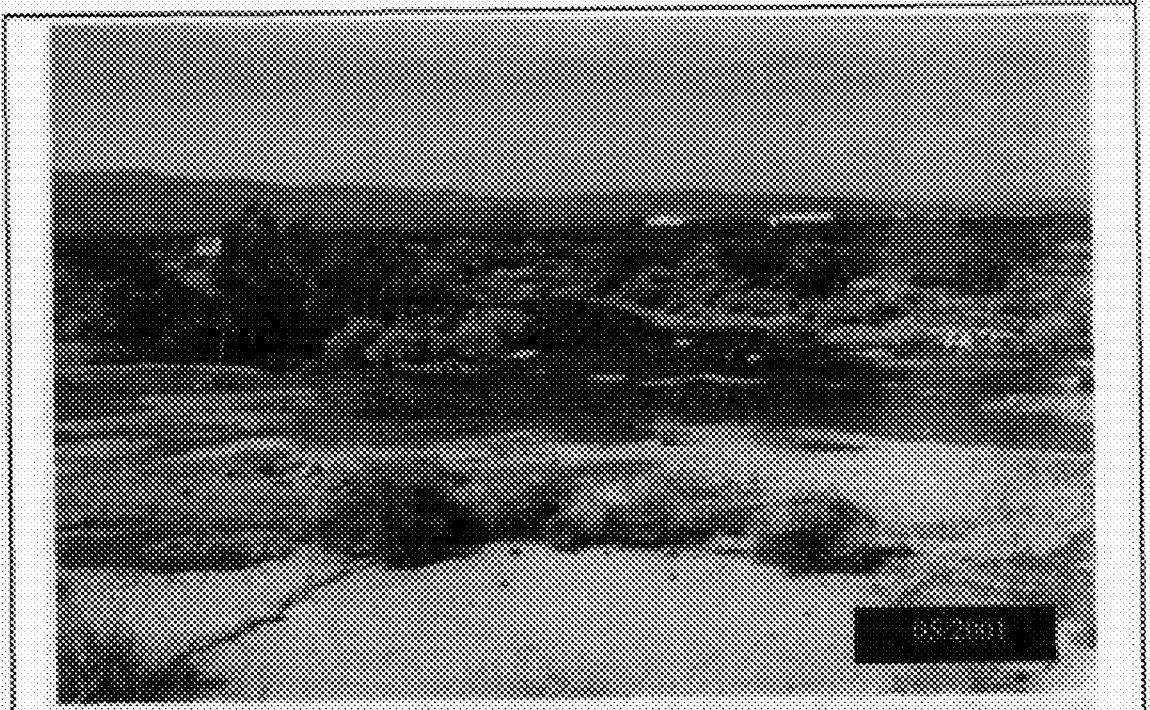
APPENDIX E
FIELD PHOTOGRAPHS

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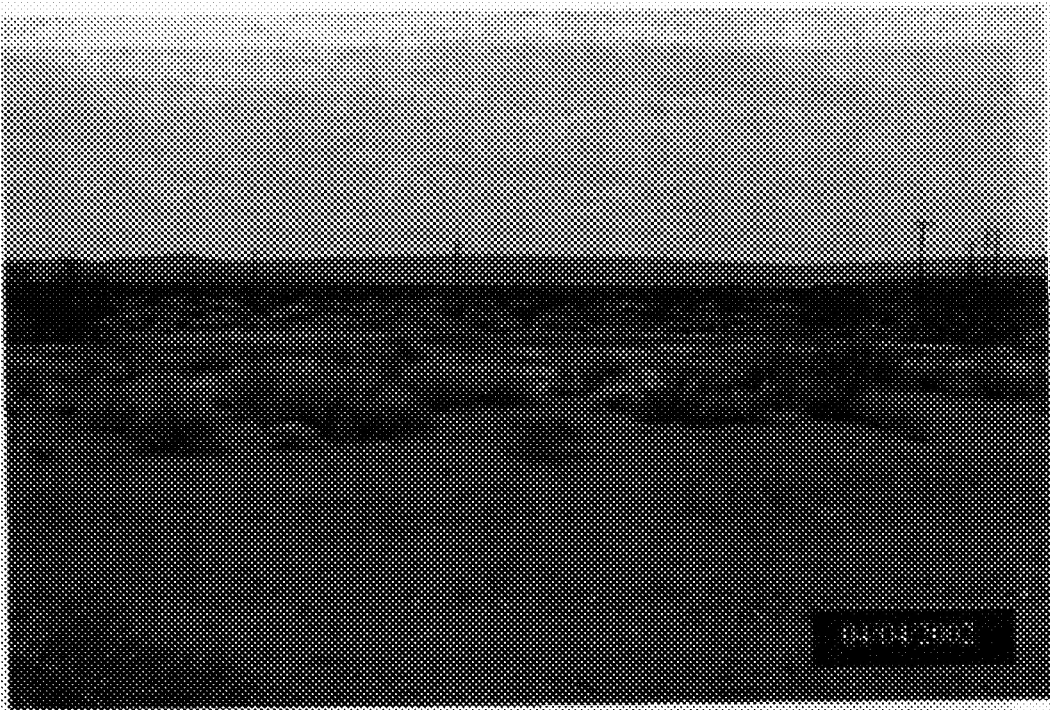
PHOTOGRAPH LOG

PHOTO NUMBER	DATE	DESCRIPTION
1	05/2001	CAS 25-44-01 before remediation
2	04/04/2002	CAS 25-44-01 after remediation
3	05/16/2002	CAS 25-44-02 during remediation
4	08/21/2002	CAS 25-44-02 after remediation
5	05/2001	CAS 25-44-03 before remediation
6	08/21/2002	CAS 25-44-03 after remediation
7	04/29/2002	CAS 25-25-02 during remediation
8	08/21/2002	CAS 25-25-02 after remediation
9	05/2001	CAS 25-25-03 before remediation
10	08/21/2002	CAS 25-25-03 after remediation
11	05/30/2002	CAS 25-25-04 during remediation
12	08/21/2002	CAS 25-25-04 after remediation
13	05/2001	CAS 25-25-05 before remediation
14	04/29/2002	CAS 25-25-05 during remediation
15	08/21/2002	CAS 25-25-05 after remediation
16	05/2001	CAS 25-25-16 (from CAS 25-01-02) before remediation
17	08/21/2002	CAS 25-25-16 (from CAS 25-01-02) after remediation

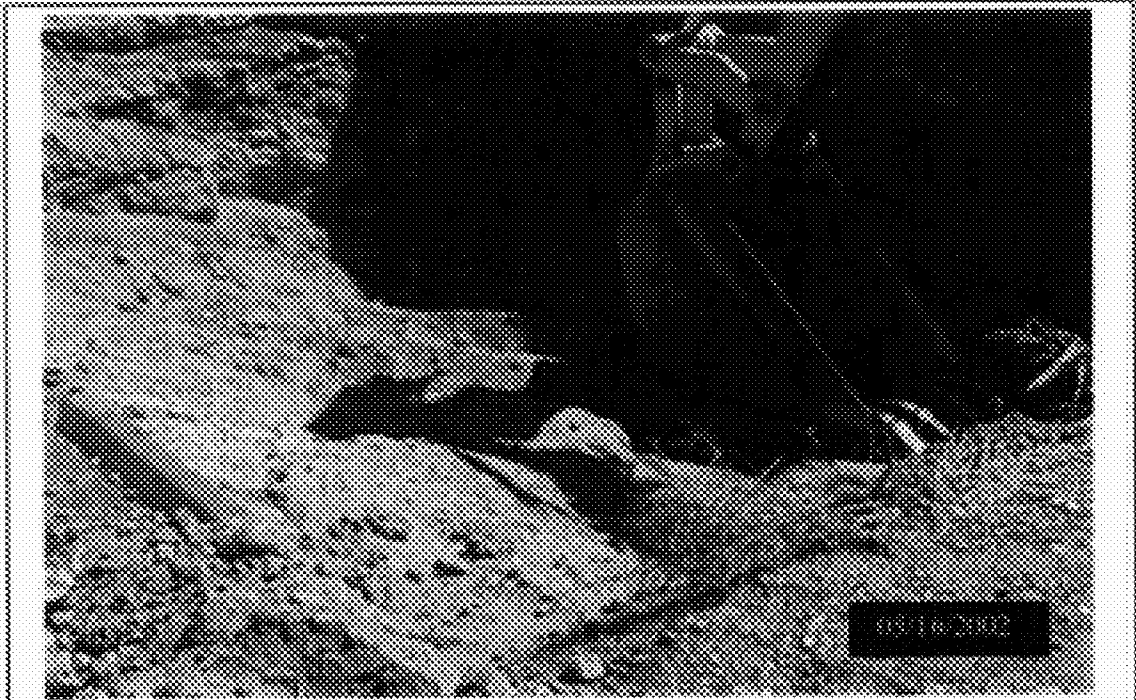
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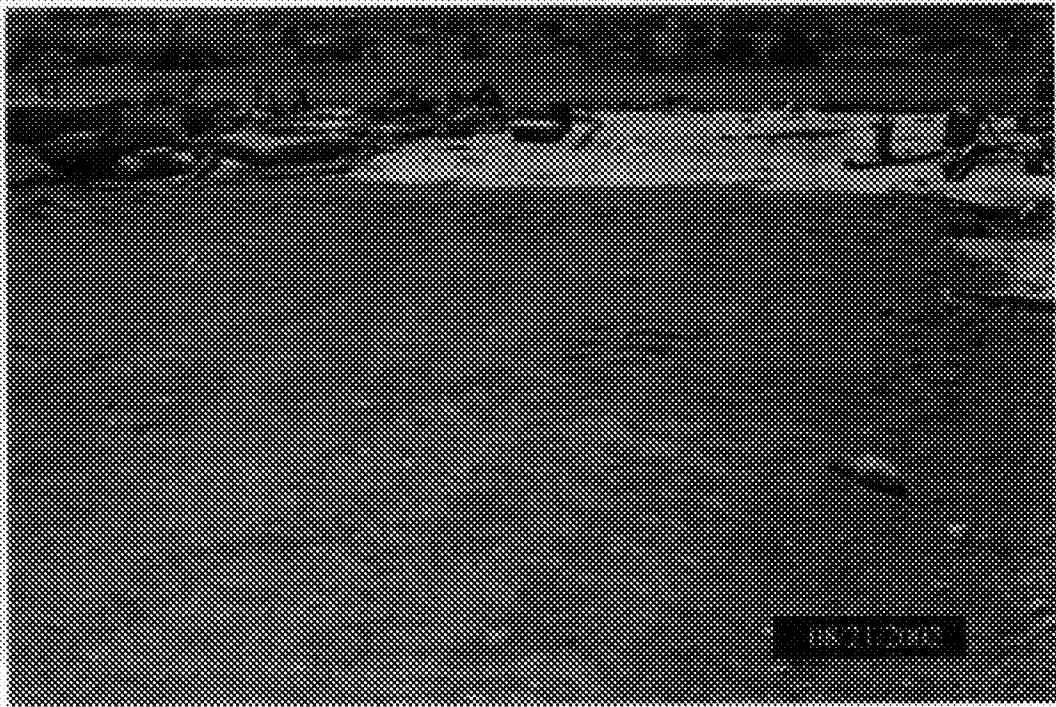
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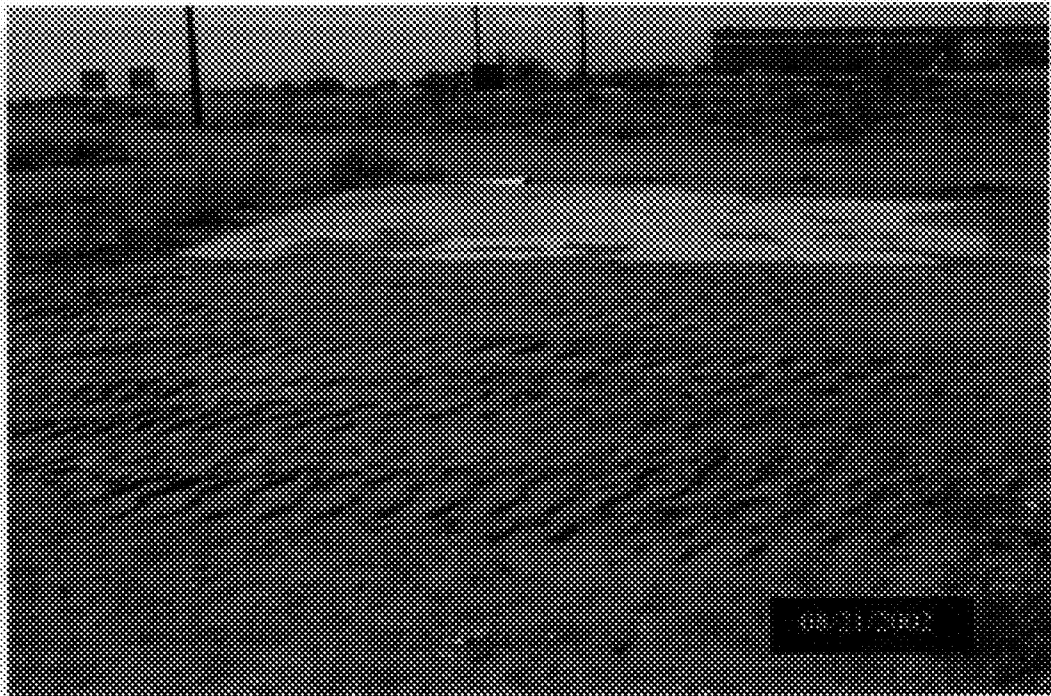
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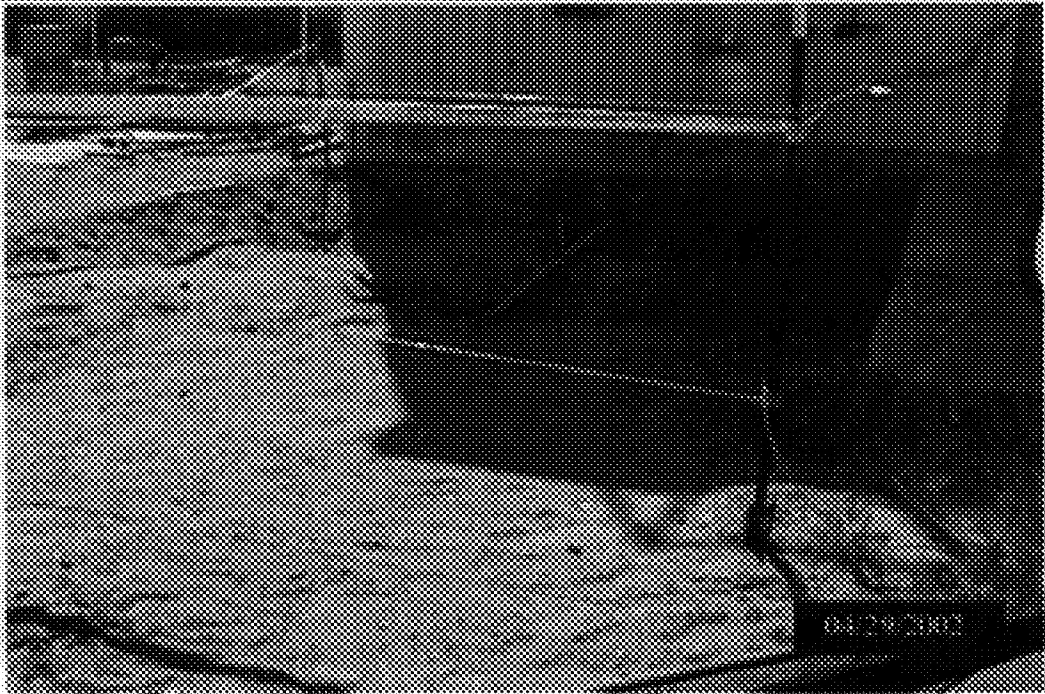
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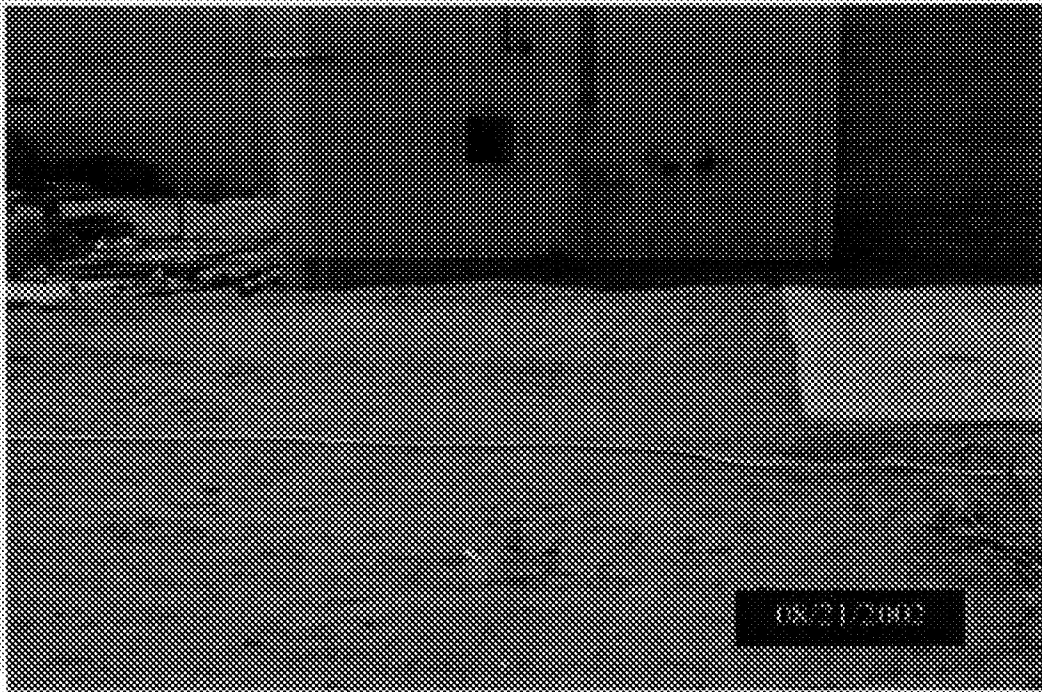
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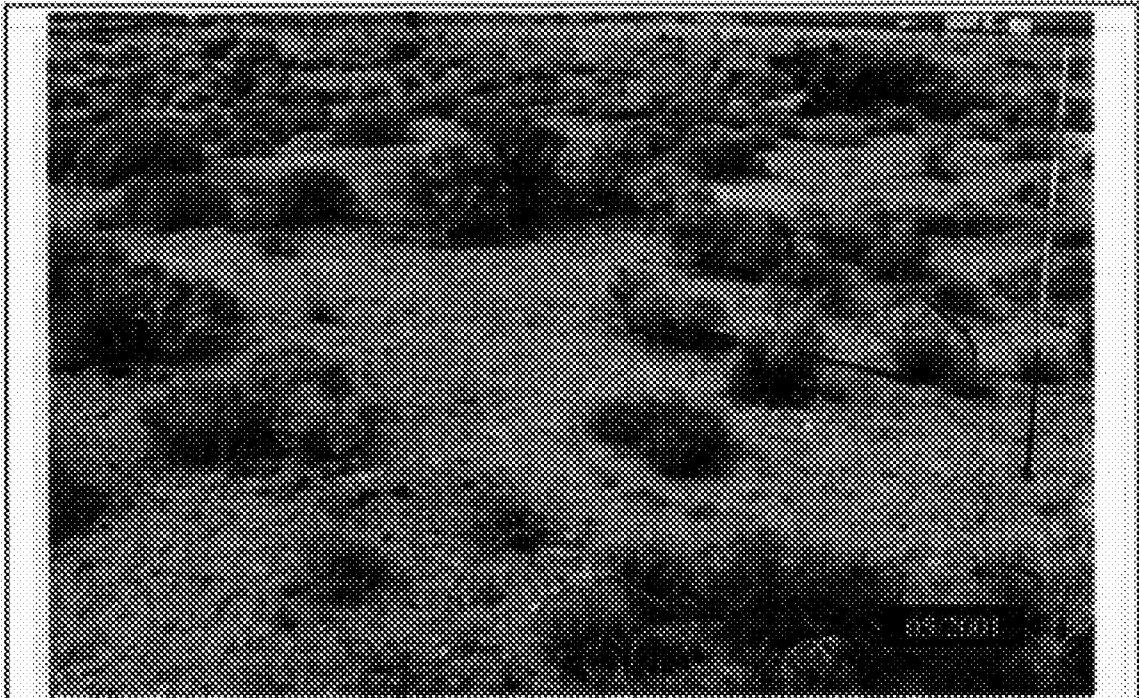
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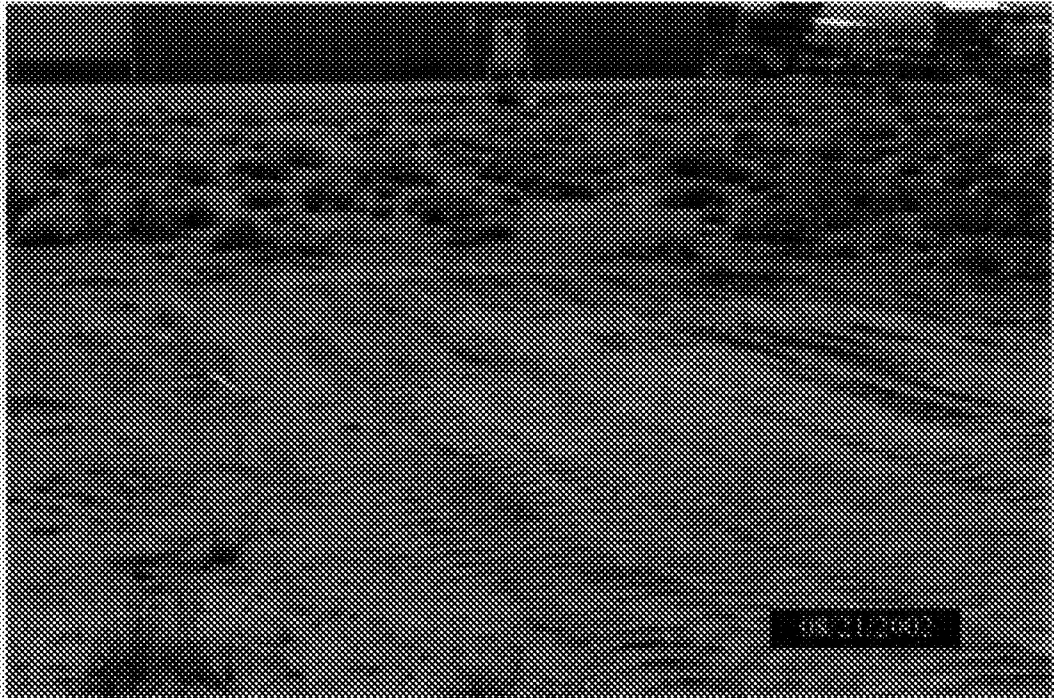
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8



9



10

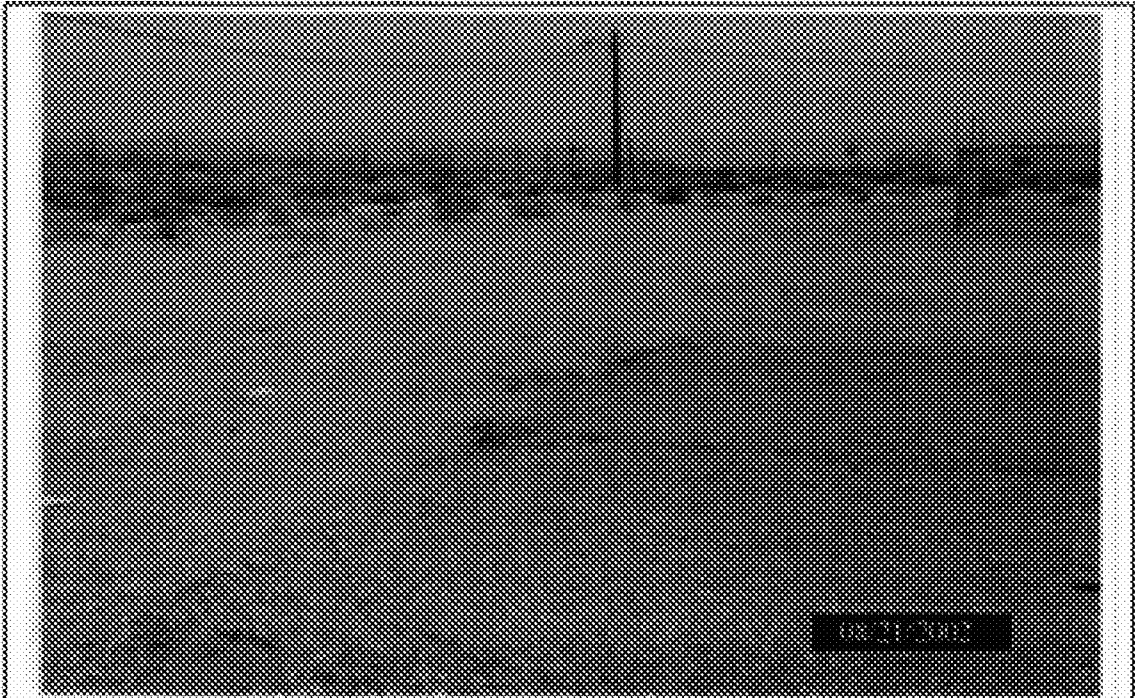




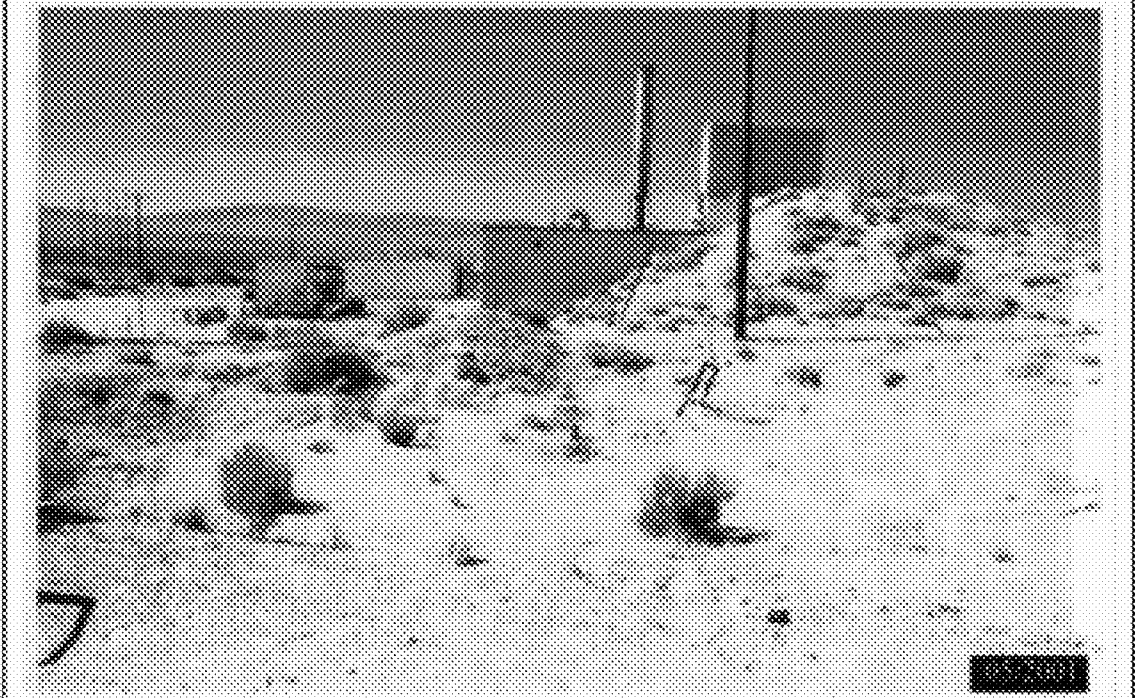
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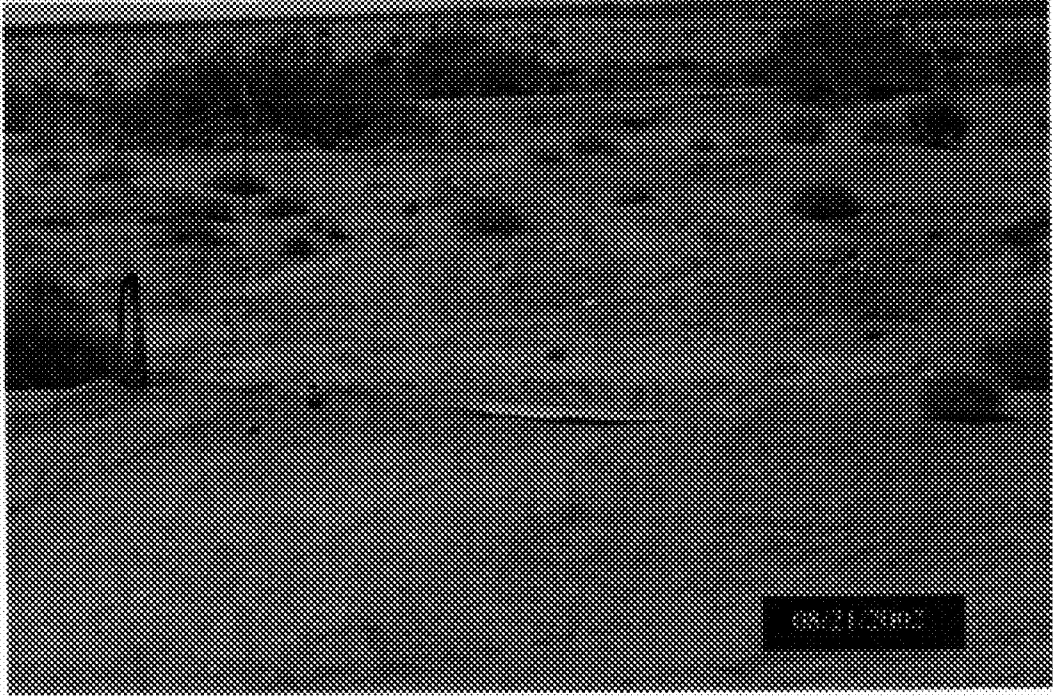
14



15



16



17

E-11

CLOSURE REPORT - CAU 398
Section: Appendix F
Revision: 1
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APPENDIX F

NEVADA ENVIRONMENTAL RESTORATION PROJECT DOCUMENT REVIEW SHEET

CLOSURE REPORT - CAU 398
Section: Appendix F
Revision: 1
Date: April 2003

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NEVADA ENVIRONMENTAL RESTORATION PROJECT DOCUMENT REVIEW SHEET

1. Document Title/Number: <u>Corrective Action Unit 398: Area 25 Spill Sites, Nevada Test Site, Nevada / DOE/NV--873</u>		2. Document Date: <u>February 2003</u>	
3. Revision Number: <u>1</u>		4. Originator/Organization: <u>Bechtel Nevada</u>	
5. Responsible NNSA/NV ERP Project Mgr.: <u>Janet Appenzeller-Wing</u>		6. Date Comments Due: <u>March 7, 2003</u>	
7. Review Criteria: <u>Full</u>		9. Reviewer's Signature: _____	
8. Reviewer/Organization/Phone No.: <u>Ted Zaferatos / NDEP / (702) 486-2856</u>			

10. Comment Number/ Location	11. Type ^a	12. Comment	13. Comment Response	14. Accept
1. pg. vi, Table of Contents	M	The reference to Figure 13 on page 28 should be to Figure 14 on page 28.	The Table of Contents has been corrected.	Yes
2. pg. 3, Section 1.2, 2 nd paragraph	M	The description of the seven CASs being discussed in the paragraph is inaccurate. The Closure Report demonstrates that four of the Corrective Action Sites (CASs), being discussed, contain Total Petroleum Hydrocarbons (TPH) as the only Contaminant of Concern (COC) present. One CAS contains TPH and Polychlorinated Biphenyls (PCBs) as COCs. One CAS contains TPH, PCBs, lead and cadmium as COCs. One CAS contains TPH and cadmium as COCs.	The first part of the 2 nd paragraph on page 3 and of the 4 th paragraph on page ix has been changed to read as follows: "Seven CASs were clean closed by removal of all impacted soil. At four CASs total petroleum hydrocarbons (TPH) was identified as the only COC present above action levels. At one CAS TPH and Polychlorinated Biphenyls (PCBs) were identified as COCs present above action levels. At one CAS TPH, PCBs, lead and cadmium were identified as COCs, and at a final CAS, TPH and cadmium were identified as COCs present above action levels."	Yes
3. pg. 27, Section 2.3, 1 st paragraph	M	The paragraph refers to Figure 13. The correct figure is Figure 14.	The reference to the Figure has been corrected.	Yes

^aComment Types: M = Mandatory, S = Suggested.

10. Comment Number/ Location	11. Type ^a	12. Comment	13. Comment Response	14. Accept
4. pg. 39, Section 5.1	M	The section describes site closure activities as eight of the CASs in the CAU, but does not mention or describe activities at the remaining five CASs in the CAU.	<p>Text describing the closure activities at the five CASs not previously mentioned has been added to Section 5.0 and the list reordered to list the CASs in numerical order. The following items have been added to the text list.</p> <ul style="list-style-type: none"> • CAS 25-25-06. No COC present, site was closed by taking no further action. • CAS 25-25-07. TPH was the only COC present and due to site location, limited access and safety risks, the site was closed in place with administrative controls instituted. • CAS 25-25-08. TPH was the only COC present and due to site location, access and safety risks, the site was closed in place with administrative controls instituted. • CAS 25-25-17. TPH was the only COC present and due to site conditions and limited access, the site was closed in place with administrative controls instituted. • CAS 25-44-04. No COC present, site was closed by taking no further action. 	Yes

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Section: Distribution List
Revision: 1
Date: April 2003

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