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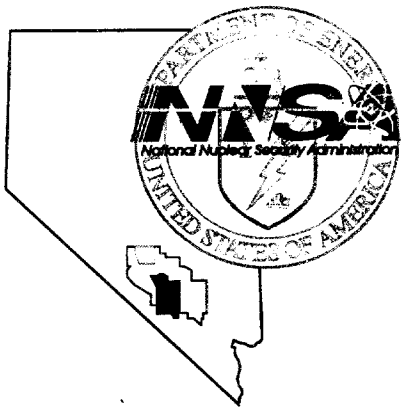

Closure Report for Corrective Action Unit 392: Spill Sites and Construction Materials, Nevada Test Site, Nevada

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Revision: 1

January 2002

Environmental Restoration
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U.S. Department of Energy, National Nuclear Security Administration
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CLOSURE REPORT FOR CORRECTIVE ACTION UNIT 392: SPILL SITES AND CONSTRUCTION MATERIALS, NEVADA TEST SITE, NEVADA

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

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Revision: 1

January 2002

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CLOSURE REPORT
FOR CORRECTIVE ACTION UNIT 392:
SPILL SITES AND CONSTRUCTION MATERIALS,
NEVADA TEST SITE, NEVADA

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

Date: 1-28-02

Approved by: Runore Wycoff
Runore C. Wycoff, Director
Nevada Environmental Restoration Project

Date: 1-28-02

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ACRONYMS AND ABBREVIATIONS

BN	Bechtel Nevada
CAS	Corrective Action Site(s)
CAU	Corrective Action Unit
cm	centimeter(s)
DOE/NV	U.S. Department of Energy, Nevada Operations Office
EPA	U.S. Environmental Protection Agency
ft	foot (feet)
FFACO	Federal Facility Agreement and Consent Order
gal	gallon(s)
in	inche(s)
L	liter(s)
m	meter(s)
m^3	cubic meter(s)
mg/kg	milligram(s) per kilogram
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NAC	Nevada Administrative Code
NDEP	Nevada Division of Environmental Protection
NNSA/NV	U.S. Department of Energy, National Nuclear Security Administration Nevada Operations Office
NTS	Nevada Test Site
PRG	Preliminary Remediation Goal(s)

ACRONYMS AND ABBREVIATIONS (continued)

QA	Quality Assurance
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
TCLP	Toxicity Characteristic Leaching Procedure
SVOC	Semivolatile Organic Compound(s)
TPH	Total petroleum hydrocarbons
VOC	Volatile Organic Compound(s)
yd^3	cubic yard(s)

1.0 INTRODUCTION

This Closure Report documents the closure activities that were conducted to close Corrective Action Unit (CAU) 392 - Spill Sites and Construction Materials located on the Nevada Test Site (NTS). CAU 392 is listed on in Appendix III of the Federal Facility Agreement and Consent Order (FFACO) (FFACO, 1996) and consists of the following six Corrective Action Sites (CASs) located in Areas 5 and 6 of the NTS (Figure 1, Figure 2, and Figure 3):

- CAS 05-17-02 Construction Materials/Lead Bricks
- CAS 06-17-03 Cement Mud Pit
- CAS 06-19-01 Cable Pile; Powder Piles (3)
- CAS 06-44-02 Paint Spill
- CAS 06-44-03 Plaster Spill
- CAS 06-44-04 Cutting Fluid Discharge Ditch

Closure activities were performed in two phases. Phase 1 activities consisted of collecting waste characterization samples of soil and material present on-site, and where appropriate, performing radiological screening of debris at the six CASs. Results were used to determine how waste generated during closure activities would be handled and disposed of, i.e., as nonhazardous sanitary or hazardous waste, etc. Phase 2 activities consisted of closing each CAS by removing debris and/or soil, disposing of the generated waste, and verifying that each CAS was clean closed by visual inspection and/or by the collecting soil verification samples for laboratory analysis.

Copies of the analytical results for the site verification samples are included in Appendix A. Copies of the Sectored Housekeeping Site Closure Verification Form for each of the six CASs are included in Appendix B. Appendix C contains a copy of the Bechtel Nevada (BN) On-site Waste Transport Manifest for the hazardous waste generated during closure of CAS 06-44-02.

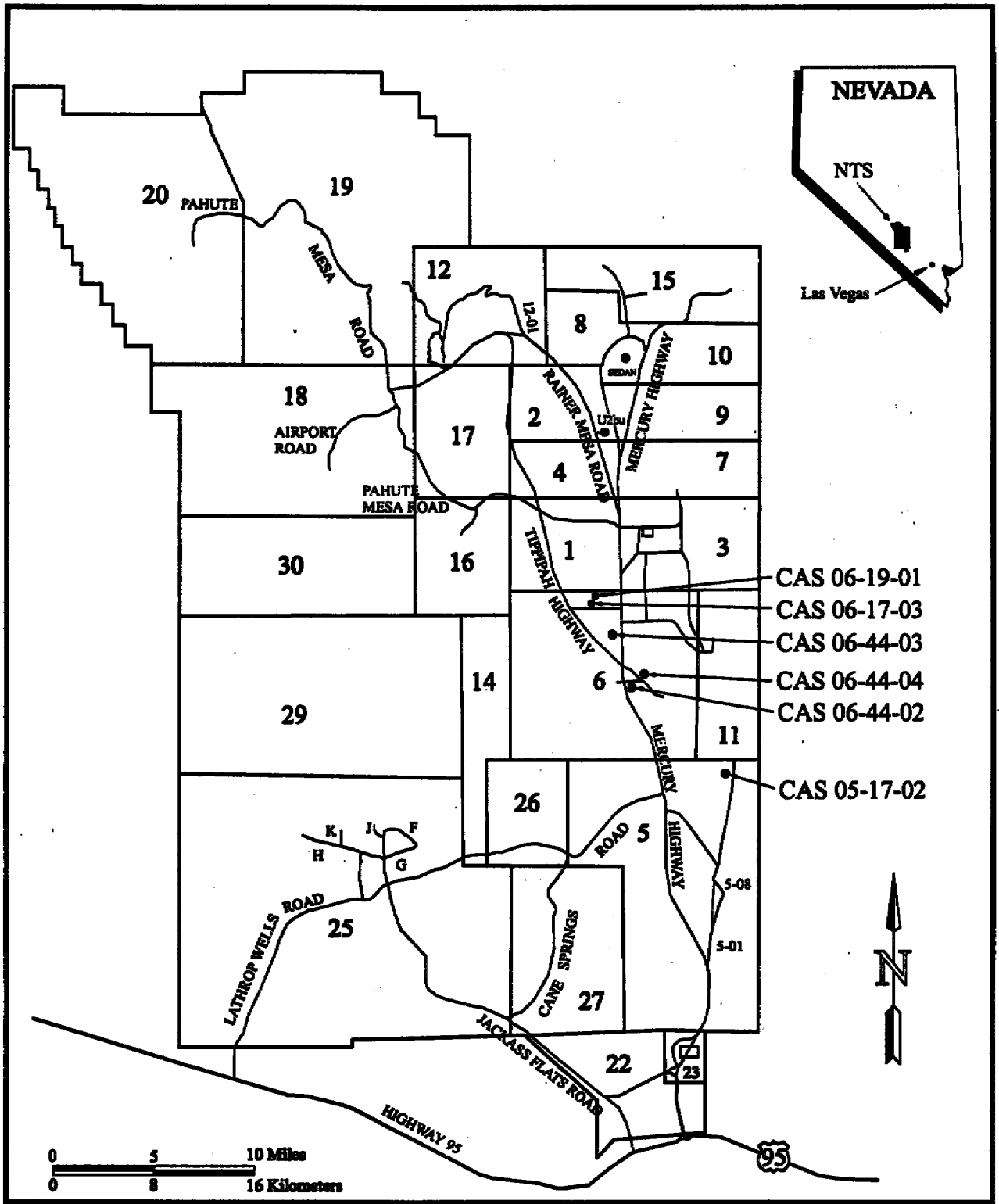


FIGURE 1
LOCATION MAP OF CAU 392
CORRECTIVE ACTION SITES

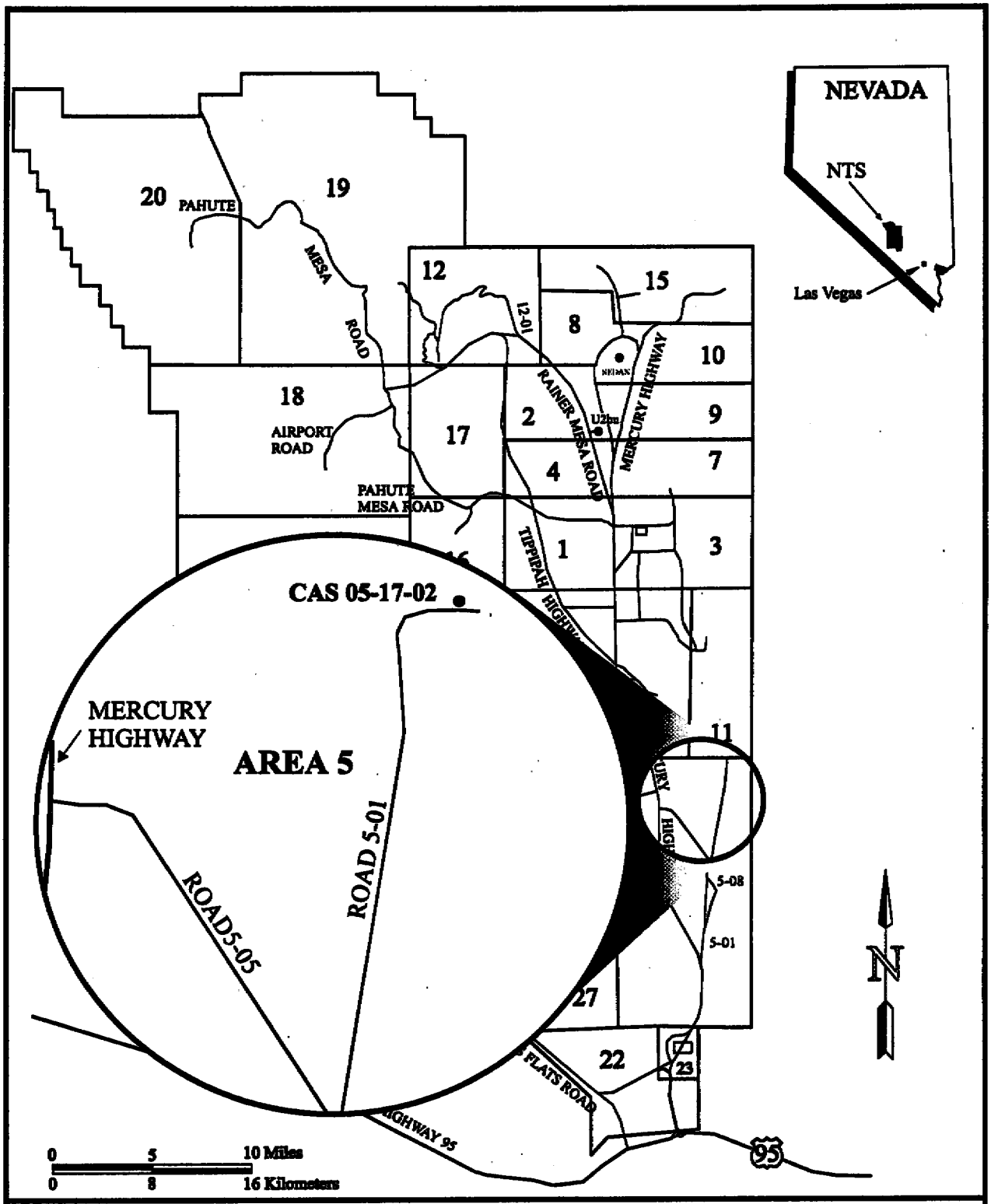


FIGURE 2
LOCATION MAP OF CAU 392
AREA 5 CAS 05-17-02

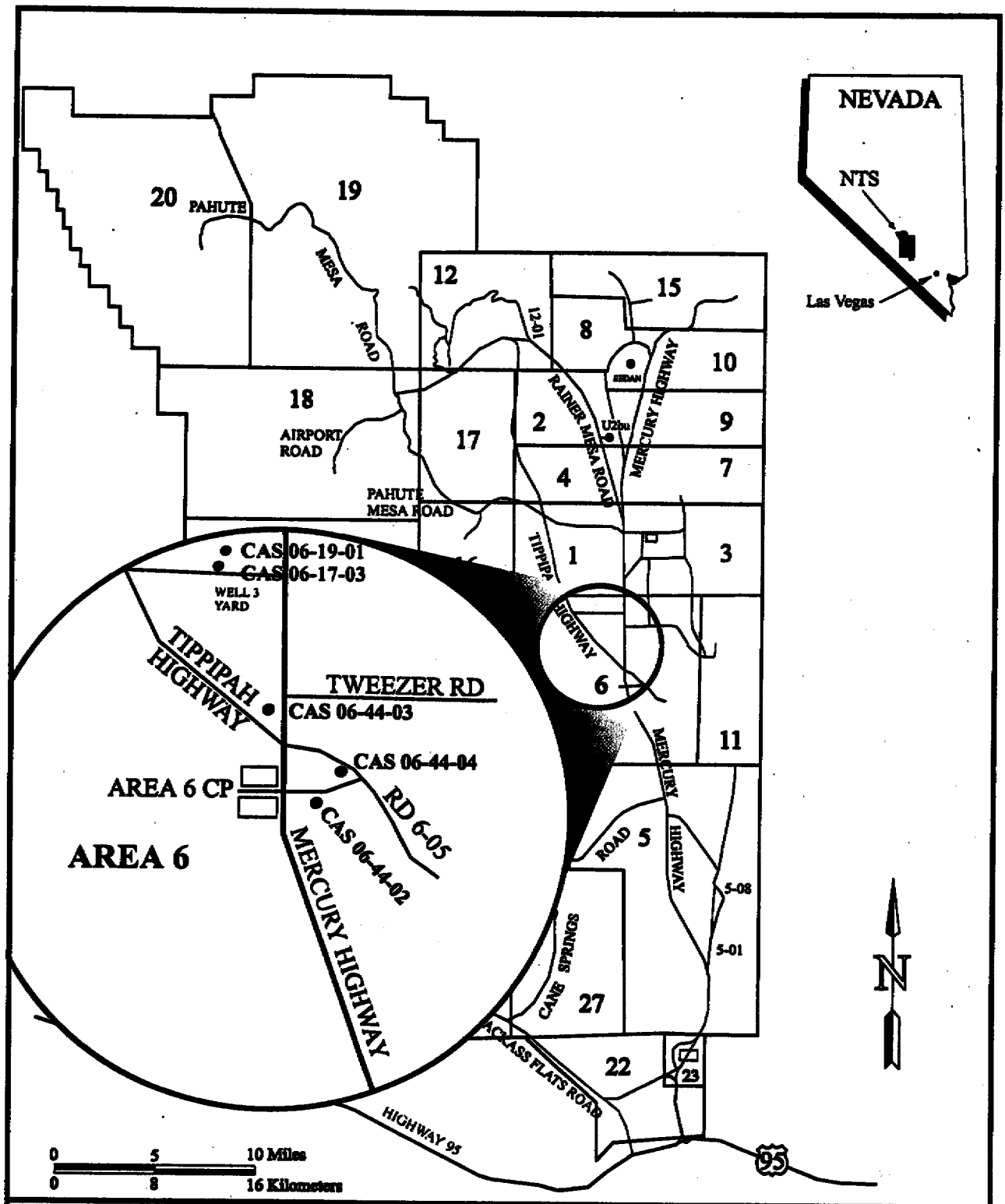


FIGURE 3
LOCATION MAP OF CAU 392
AREA 6 CASs

2.0 CLOSURE ACTIVITIES

This section details the specific corrective action activities completed during the closure of CAU 392 Spill Sites and Construction Materials. Copies of the analytical data reports for all verification samples collected are included in Appendix A, and copies of the Sectored Housekeeping Site Closure Verification Forms for the six CASs are included in Appendix B. A copy of the BN On-site Waste Transport Manifest for the hazardous waste generated at CAS 06-44-02, the paint spill, is included in Appendix C.

2.1 DESCRIPTION OF CLOSURE ACTIVITIES

2.1.1 Preplanning and Site Preparation

Planning documents prepared prior to beginning CAU 392 closure activities include the Sectored Clean-up Work Plan For Housekeeping Category Waste Sites (U.S. Department of Energy, Nevada Operations Office [DOE/NV], 2000), Generic Field Management Plan for Housekeeping Category Waste Sites (BN, 2000), Site-Specific Health and Safety Plan (BN, 2001), Site Maintenance Work Packages, two excavation permits, and a DOE/NV Real Estate/Operations Permit (#BN-0160-00). In addition, a National Environmental Policy Act checklist was prepared (#NV-00-060) and a pre-activity site survey was performed by a BN biologist. The survey confirmed the absence of sensitive animal or plant species at all six CASs. A Readiness Review was held on July 17, 2001, by BN Environmental Restoration. A pre-job field briefing was held on July 18, 2001, by BN Environmental Restoration and BN Site Maintenance personnel prior to the start of site closure field activities.

2.2 WASTE CHARACTERIZATION ACTIVITIES

At five of the six CASs, samples of soil and/or material were collected and analyzed to characterize the waste expected to be generated during site closure activities. At CAS 5-17-02, only radiological screening was performed to characterize the expected waste. Table 1 presents the analyses that were done for waste characterization samples, the results of these analyses, and the resulting waste classification.

2.2.1 CAS 05-17-02 Waste Characterization

Waste generated at this site included wooden debris only. The lead bricks and shielding identified during the 1990 site survey were no longer present on-site. Three wooden pallets at this site were radiologically screened using an Electra hand-held meter and a Tennelec to count material swipes. The levels of radioactivity detected were less than background levels. Therefore, the waste was free-released as sanitary debris (Table 1).

TABLE 1 - SUMMARY OF ANALYTICAL RESULTS FOR WASTE CHARACTERIZATION SAMPLES

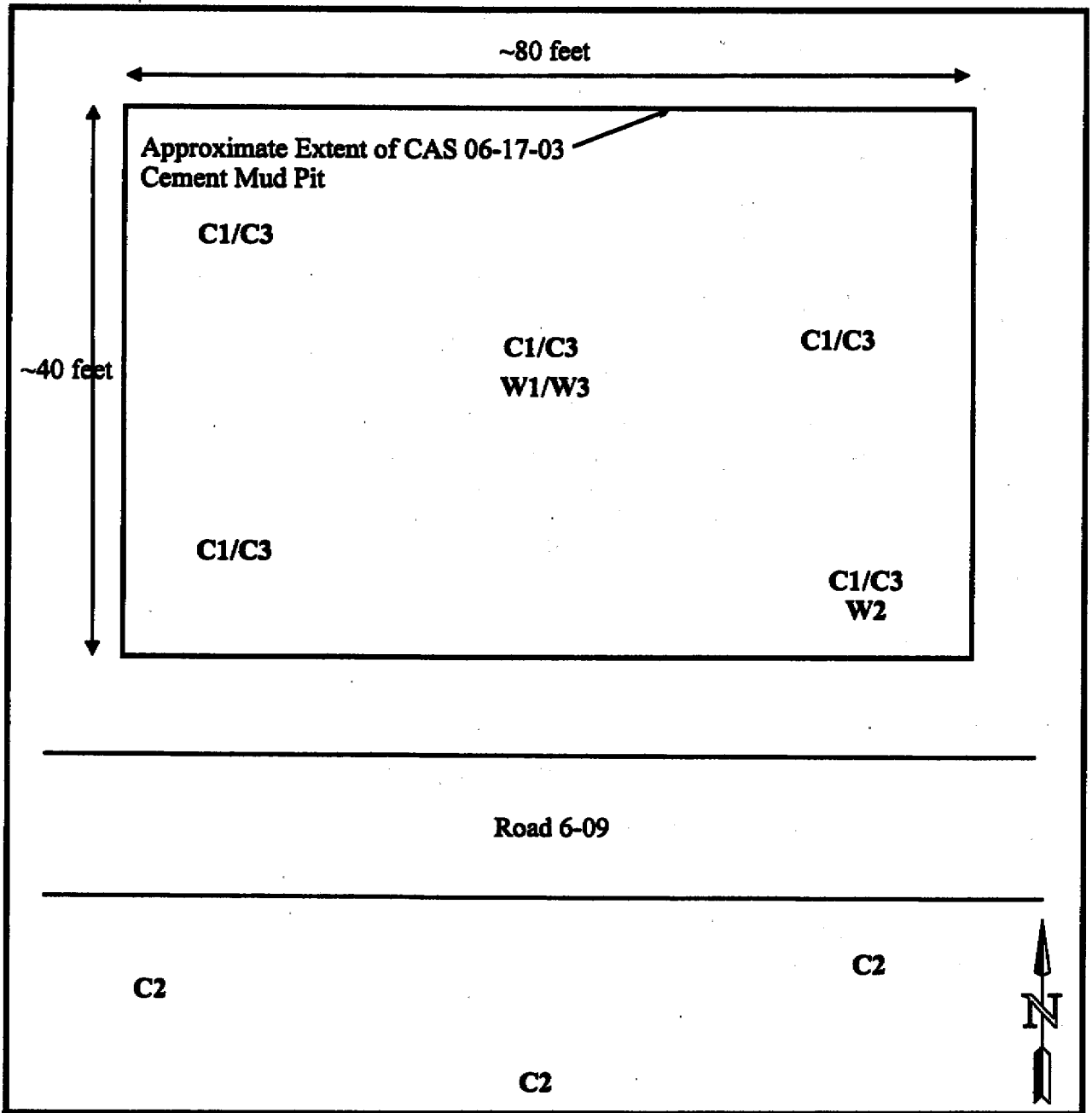
CAS	SAMPLE TYPE	ANALYSIS DONE	ANALYTICAL RESULTS	WASTE TYPE
05-17-02	Debris	Radiological Screening	Less than background levels	Sanitary
06-17-03	Soil	Total RCRA Metals[A] VOCs[B] SVOCs[C] Herbicides[D] Pesticides[E] TPH full scan[F]	Total Barium, Chromium, Lead greater than RCRA TCLP levels. All others less than Action Levels	Potentially Hazardous[H]
06-17-03	Soil	TCLP Metals[G]	Less than RCRA TCLP levels.	Sanitary
06-19-01	Soil	Total RCRA Metals VOCs SVOCs Herbicides Pesticides TPH full scan	Less than RCRA TCLP levels. Less than Action Levels.	Sanitary
06-19-01	Debris	Radiological Screening	Less than background levels.	Sanitary
06-44-02	Paint/Soil	Total RCRA Metals VOCs SVOCs	Chromium greater than RCRA TCLP levels.	Hazardous
06-44-03	Soil/Plaster	Total RCRA Metals VOCs SVOCs	Less than Action Levels.	Sanitary
06-44-04	Soil	Total RCRA Metals VOCs SVOCs TPH full scan	Greater than TPH Action Level only.	Petroleum Hydrocarbon

Notes:
Radiological screening performed using an Electra hand-held meter and a Tennelec to count material swipes.
A - Resource Conservation and Recovery Act (RCRA) metals analysis done by U.S. Environmental Protection Agency (EPA) Method SW-846 6010,7471A (EPA, 1996b).
B - Volatile Organic Compounds (VOC) analysis by EPA Method SW-846 8260B (EPA, 1996b). See analytical reports in Appendix A for detection limits.
C - Semivolatile Organic Compounds (SVOC) analysis by EPA Method SW-846 8270C (EPA, 1996b). See analytical reports in Appendix A for detection limits.
D - Herbicide analysis by EPA Method SW-846 8151 (EPA, 1996b). See analytical reports in Appendix A for detection limits.
E - Pesticide analysis by EPA Method SW-846 8181A (EPA, 1996b). See analytical reports in Appendix A for detection limits.
F - Total Petroleum Hydrocarbons (TPH) analysis by EPA Method SW-846 8015M (EPA, 1996b). See analytical reports in Appendix A for detection limits.
G - Toxicity Characteristic Leaching Procedure (TCLP) metal sample preparation and analysis by EPA SW-846 1311 and 6010 (EPA, 1996b).
H - Results for TCLP Barium showed the potentially hazardous waste to be nonhazardous.

2.2.2 CAS 06-17-03 Waste Characterization

Waste generated at CAS 06-17-03 Cement Mud Pit consisted of soil excavated from the bottom of an existing cement mud pit. Prior to removing any soil from the mud pit, two biased waste characterization and one quality assurance samples were collected on June 7, 2001, and analyzed for total Resource Conservation and Recovery Act (RCRA) metals using U.S. Environmental Protection Agency (EPA) Methods 6010 and 7470A (EPA, 1996b). Sample CAS061703-W1 was collected from the approximate center of the pit (Figure 4). Sample CAS061703-W2 was collected from the southeast corner of the pit from a stained area of soil (Figure 4). Sample CAS061703-W3 was a field duplicate of sample W1 and was collected at the same time and location as CAS061703-W1. All three samples were collected by hand using clean-sampling equipment from 0 - 15 centimeters (cm) (0 - 6 inches [in]) below the bottom of the existing pit. Results for the samples showed barium, chromium, and lead present in elevated concentrations (Table 2). A common method of approximating the RCRA Toxicity Characteristic Leaching Procedure (TCLP) results is to divide the total metal result by 20. The total metal concentrations for barium, chromium, and lead were divided by 20 and compared to the Maximum Concentration of Contaminants for Toxicity Characteristic provided in Title 40 Code of Federal Regulation, Part 261.24 (EPA, 1996c). This calculation showed that the maximum concentration of leachable barium within the soil would theoretically exceed the RCRA TCLP limit of 100 mg/kg. Based on these results, soil removed from the cement mud pit would be classified as hazardous waste.

Because soils at the NTS have a high barium background concentration, three additional composite soil samples were collected from the site on July 16, 2001, to verify the waste characteristics for this CAS. Two of the three samples were analyzed for TCLP barium, and the third background sample, for total RCRA metals. These composite soil samples were used to determine if the soil in the mud pit exceeded the TCLP barium concentration. Sample CAS061703-C1 was composited from five locations from the bottom of the existing pit (Figure 4). Sample CAS061703-C2 was collected as a background sample from three locations outside of the pit and approximately 9 to 12 meters (m) (30 to 40 feet [ft]) south of Road 6-09 (Figure 4). Sample CAS061703-C3 was a field duplicate of sample C1 and was collected at the same time and locations as CAS061703-C1. All three samples were composited from soil collected by hand using clean-sampling equipment from 0 - 15 cm (0 - 6 in) below the ground surface. Samples CAS061703-C1 and CAS061703-C3 were analyzed for TCLP barium using EPA Method 1211/6010 (EPA, 1996b). Sample CAS061703-C2 was analyzed for total RCRA metals by EPA Methods 6010 and 7470A (EPA, 1996b). TCLP barium results for the two composite samples taken from the bottom of the pit showed leachable barium concentrations less than the method detection limit of 1 milligram per liter, well below the RCRA TCLP barium level for hazardous waste (Table 2). Therefore, the soil excavated from the bottom of CAS 06-17-03 mud pit was classified as sanitary waste and disposed of in the Area 9 U10c sanitary landfill (Table 1). Background sample CAS061703-C2 showed elevated concentrations of barium as expected for NTS soils (Table 2).



NOTES:
Sample locations are designated as W1, C1, etc., and are approximate. For example, sample CAS061703-C1 and -C3 were composited from the five locations designated as C1/C3 on the figure. Figure is not to scale.
Samples CAS061703-W1, -W2, and -W3 were collected on June 6, 2001.
Samples CAS061703-C1, -C2, and -C3 were collected on July 16, 2001.

FIGURE 4
CAS 06-17-03 WASTE CHARACTERIZATION SAMPLE LOCATIONS

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS FOR CAS 06-17-03 WASTE CHARACTERIZATION SAMPLES

SAMPLE IDENTIFICATION	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	MERCURY	SELENIUM	SILVER
RCRA[1] TCLP[2] REGULATORY LIMIT (mg/L)[3]	5	100	1	5	5	0.2	1	5
CAS061703-W1 (mg/kg)[4]	nd[5]	5,100	0.65	25	6.6	nd	nd	nd
CAS061703-W2 (mg/kg)	nd	1,700	nd	14	11	nd	nd	nd
CAS061603-W3 (mg/kg)	nd	5,100	0.56	25	4.7	nd	nd	nd
CAS061703-C1 (mg/L)	-	< 1.0	-	-	-	-	-	-
CAS061703-C2 (mg/kg)	nd	450	nd	11	12	nd	nd	nd
CAS061703-C3 (mg/L)	-	< 1.0	-	-	-	-	-	-

Notes:
All samples analyzed by U.S. Environmental Protection Agency (EPA) method SW-846 6010, 7471 (EPA, 1996b). Toxicity Characteristic Leaching Procedure (TCLP) samples prepared by EPA Test Method 1311 (EPA, 1996b). Total metal results given in milligrams per kilogram. TCLP metal results given in milligrams per liter.
1 - RCRA = Resource Conservation and Recovery Act.
2 - TCLP = Toxicity Characteristic Leaching Procedure.
3 - mg/L = Milligrams per liter.
4 - mg/kg = Milligrams per kilogram.
5 - nd = Not detected at the reporting limit.

2.2.3 CAS 06-19-01 Waste Characterization

Waste generated at CAS 06-19-01 included wood, metal cable, iron, and glass debris; dried white powdery cement/grout material; and a small amount of fine dark black sand and soil. The debris was radiologically screened using an Electra hand-held meter and a Tennelec to count material swipes. No radioactivity above background levels was detected. The debris was free-released as sanitary waste.

Two composite waste characterization samples were collected from the piles of white material and the piles of black sand. One composite sample (CAS061903-W1) was taken from the two piles of black sand and soil, and one composite sample (CAS061903-W2) was taken from the three piles of white powdery material. The composite samples were analyzed for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), herbicides, pesticides, and total RCRA metals by EPA Methods 8260, 8270, 8081, 6010, and 7470A, respectively (EPA, 1996b). All analytical results were below the RCRA levels for hazardous waste. Therefore, the piles of white powder and black sand were categorized as nonhazardous waste (Table 1).

2.2.4 CAS 06-44-02 Waste Characterization

Waste generated at CAS 06-44-02 included dried yellow paint chips and soil and cobbles stained by paint. Radiological screening of the paint chips using an Electra meter and a Tennelec to count material swipes detected no radioactivity above background levels. Two waste characterization samples of the paint were collected (CAS064402-W1 and CAS064402-W2) and analyzed for VOCs, SVOCs, and total RCRA metals. Results for the RCRA metals chromium and lead were greater than the RCRA TCLP levels for hazardous waste. Estimating the maximum leachable amount of these elements by dividing the total metal results by 20 resulted in concentrations greater than RCRA TCLP hazardous waste concentrations. Therefore, the paint waste was declared hazardous waste.

2.2.5 CAS 06-44-03 Waste Characterization

Waste generated at CAS 06-44-03 included small chips of plaster-like material and wooden debris. Radiological screening of the wood debris using an Electra hand-held meter and a Tennelec to count material swipes detected no radioactivity above background levels. One waste characterization sample of the plaster/cement-like material was collected (CAS064403-W1) and analyzed for VOCs, SVOCs, and total RCRA metals. Results showed no constituents of concern above RCRA TCLP hazardous waste levels. The waste was declared sanitary waste.

2.2.6 CAS 06-44-04 Waste Characterization

Waste generated at CAS 06-44-04 included soil excavated from a shallow depression that was used as a dumping site for machine cutting fluids/oils. Radiological screening of the soil using an Electra hand-held meter and a Tennelec detected no radioactivity above background levels. Two waste characterization soil samples (CAS064404-W1 and CAS064404-W2) were collected and analyzed for VOCs, SVOCs, total petroleum hydrocarbons (TPH), and total RCRA metals (EPA, 1996b). Results showed TPH levels above the Nevada Action Level of 100 milligrams per kilogram (mg/kg) (Nevada Administrative Code [NAC], 2000). The waste generated from closure of this CAS was categorized as TPH contaminated waste.

2.3 SITE CLOSURE ACTIVITIES

2.3.1 CAS 05-17-02 Construction Materials/Lead Bricks Closure

Four wooden pallets were collected from this site on July 17, 2001. The four wooden pallets were placed in the back of an end dump and taken to NTS U9-10C Area 9 U10c Sanitary Landfill for disposal. Closure activities were documented with photographs. Clean closure of this CAS
was verified by visual inspection; no verification samples were required or collected. No further actions is required at this site.

2.3.2 CAS 06-17-03 Cement Mud Pit Closure

On July 27, 2001, approximately 21.5 cubic meters (m^3) (28 cubic yards [yd^3]) of soil were removed from the bottom of the existing cement mud pit using a front-end loader. The excavation measured approximately 7.6 by 9.5 by 0.3 meters (m) (25 by 31 by 1 feet [ft]). The soil was placed in an end dump and taken to the NTS Area 9 U10c Landfill for disposal. Seven soil verification samples (CAS061703-V1, CAS061703-V2, etc.) were collected from the bottom of the excavation and analyzed for total RCRA metals by EPA Methods 6010 and 7470A (EPA, 1996b). Results for all samples showed RCRA metal concentrations less than the EPA Region IX Preliminary Remediation Goals (PRGs) for Industrial Soil (EPA, 1996a), verifying that the site was clean closed. Analytical results for the verification samples are given in Table 3. All closure activities were documented with photographs and field notes. No further actions is required at this site.

2.3.3 CAS 06-19-01 Cable Pile; Powder Piles (3) Closure

On July 17, 2001, the scarp metal cable, wood and metal debris, three small piles of white powdery material, and two piles of black sand and soil were placed into an end dump using a

TABLE 3 - SUMMARY OF ANALYTICAL RESULTS FOR RCRA METALS IN VERIFICATION SAMPLES

SAMPLE IDENTIFICATION	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	MERCURY	SELENIUM	SLIVER
EPA INDUSTRIAL PRG[1] (mg/kg)[2]	440	100,000	810	450	750	610	10,000	10,000
CAS 06-17-03								
CAS061703-V1	13	400	nd	14	10	nd	nd	nd
CAS061703-V2	nd[4]	1,500	nd	11	7	nd	nd	nd
CAS061703-V3	nd	2,400	nd	13	79	nd	nd	nd
CAS061703-V4 (MS/MSD[3] sample)	nd	59	nd	15	7.1	Nd	nd	nd
CAS061703-V5	9.1	2,300	nd	12	6.8	nd	nd	nd
CAS061703-V6	nd	1,600	nd	11	6.1	nd	nd	nd
CAS061703-V7 (CAS061703-V1 dup.)	14	410	nd	16	8.1	nd	nd	nd
CAS 06-44-02								
CAS064402-V1	nd	110	nd	15	43	nd	nd	nd
CAS064402-V2	nd	120	nd	59	220	nd	nd	nd
CAS064402-V3	nd	120	nd	22	76	nd	nd	nd
CAS064402-V4	nd	130	nd	31	110	nd	nd	nd

Notes:

All samples analyzed by U. S. Environmental Protection Agency (EPA) Method SW-846 6010, 7471A (EPA. 1996b). See Appendix analytical reports in Appendix A for detection limits.

1 - EPA Region IX Preliminary Remediation Goals (PRGs) for industrial soils (EPA, 1996c).

2 - mg/kg = milligrams per kilogram

3 - Analytical results for blank and matrix spike/matrix spike duplicate (MS/MSD), and Quality Assurance (QA)/Quality Control (QC) samples are not shown. See Appendix A for these results.

4 - nd = Not detected at the reporting limit. See Appendix A for reporting limits.

front-end loader. A total of two loads of scrap, debris, and soil were taken to the NTS Area 9 U10c Landfill for disposal. All closure activities were documented with photographs and field notes. Clean closure of the CAS 06-19-01 was verified by visual inspection; no verification samples were required or collected. No further action is required at this site.

2.3.4 CAS 06-44-02 Paint Spill Closure

On August 6, 2001, chips and flakes of dried paint and stained cobbles and soil were shoveled by hand into a 208-liter (L) (55-gallon [gal]) drum. Waste was removed from an area measuring approximately 3 by 2.4 m (10 by 8 ft) to a depth of approximately 2.5 cm (1 in). The drum contained approximately 189 L (50 gal) of waste and was placed on a wooden pallet, labeled as hazardous waste, and securely closed with a drum lock. A Satellite Accumulation Area (#NTS0101) was established for the drum until it could be transported to the NTS Area 5 Hazardous Waste Pad. Four soil verification samples (CAS064402-V1, CAS064402-V2, CAS064402-V3, and CAS064402-V4) were collected and analyzed for total RCRA metals by EPA Methods 6010 and 7470 (EPA, 1996b). Results for all samples showed RCRA metal concentration less than EPA Region IX PRGs for Industrial Soil (EPA, 1996a), verifying that the CAS 06-44-02 was clean closed. Analytical results for the verification samples are given in Table 3. All closure activities were documented with photographs and field notes. No further action is required at this site.

On August 21, 2001, the 208-L (55-gal) drum of hazardous waste was transported to the NTS Area 5 Hazardous Waste Pad. A copy of the On-site Waste Transport Manifest is included in Appendix C. The drum was then shipped off-site to an approved permitted hazardous waste treatment, storage, and disposal facility for disposal.

2.3.5 CAS 06-44-03 Plaster Spill

On July 17, 2001, three small piles of plaster chips, each measuring approximately 0.3 by 0.3 m (1 by 1 ft), and some wooden debris were removed from the site. Approximately 11 L (3 gal) of plaster chips were shoveled by hand into a 19-L (5-gal) plastic bucket and, subsequently, placed in the end dump along with the wood debris and transported to the NTS Area 9 U10c Landfill for disposal. Closure activities were documented with photographs and field notes. Clean closure of the CAS was verified by visual inspection; no verification samples were required or collected at this site. No further action is required at this site.

2.3.6 CAS 06-44-04 Cutting Fluid Discharge Ditch

On August 3 and 10, 2001, approximately 22 m^3 (29 yd^3) of TPH-impacted soil were excavated from CAS 06-44-04. The excavation measured approximately 15 by 2 by 0.8 m (50 by 6.5 by 2.5 ft). The horizontal and vertical extent of the excavation was guided by TPH field screening (PetroFLAG™) results. The excavated soil was transported by end dump to the Area 6 Hydrocarbon Landfill. Seventeen soil verification samples were collected from the excavation and submitted for full scan TPH analysis. The samples were collected from the center and both

walls of the bottom of the excavation. The analytical results verify that petroleum hydrocarbons remaining in the ground are below the Nevada State Action Level for TPH (100 mg/kg) (NAC, 2000), verifying that the site was clean closed (Table 4).

On August 29, 2001, the excavation was backfilled with clean fill, wheel-compacted, and graded to the approximate original contours using a front-end loader. The barbed wire fence removed prior to excavation work was re-strung. All closure activities were documented with photographs and field notes. No further action is required at this site.

TABLE 4 - SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN VERIFICATION SAMPLES

SAMPLE IDENTIFICATION	GASOLINE RANGE (C8-C12)	DIESEL RANGE (C12-C22)	OIL RANGE (C22-C34)	TOTAL PETROLEUM HYDROCARBONS
NDEP[1] Action Level (mg/kg)[2]	100	100	100	100
CAS 06-44-04				
CAS064404-V01	nd[3]	nd	nd	d
CAS064404-V02	nd	23	nd	23
CAS064404-V03	nd	50	nd	50
CAS064404-V04	nd	22	nd	22
CAS064404-V05	nd	nd	nd	nd
CAS064404-V06	nd	nd	nd	nd
CAS064404-V07	nd	nd	nd	nd
CAS064404-V08	nd	nd	94	94
CAS064404-V09	nd	49	nd	49
CAS064404-V10	nd	41	nd	41
CAS064404-V11	nd	24	nd	24
CAS064404-V12	nd	nd	nd	nd
CAS064404-V13	nd	nd	nd	nd
CAS064404-V14	nd	nd	nd	nd
CAS064404-V15	nd	nd	nd	nd
CAS064404-V16	nd	nd	nd	nd
CAS064404-V17 (CAS064404-V16 dup.)	nd	22	nd	22

Notes:
Hydrocarbon analysis by EPA Method SW-846 8015M (EPA, 1996b). See analytical reports in Appendix A for detection limits. Analytical results for blanks, MS/MSD, and QA/QC samples are not shown. See Appendix A for these results.
1 - NDEP = Nevada Department of Environmental Protections
2 - mg/kg = milligrams per kilogram
3 - nd = Not detected at the laboratory reporting limit.

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3.0 WASTE DISPOSITION

Wastes generated during the closure of CAU 392 - Spill Sites and Construction Materials were disposed of as follows:

- From CAS 05-17-02, four wooden pallets were disposed of as sanitary waste in the NTS Area 9 U10c Landfill.
- From CAS 06-17-02, approximately 21.5 m^3 (28 yd^3) of soil was disposed of as sanitary waste in the NTS Area 9 U10c Landfill.
- From CAS 06-19-01, approximately 19 m^3 (25 yd^3) of scrap metal, wood and glass debris, and small piles of white powdery material and black sands were disposed of as sanitary waste in the NTS Area 9 U10c Landfill.
- From CAS 06-44-02, approximately 189 L (50 gal) of spilled dried paint and stained soil and cobbles were staged on site in a Satellite Accumulation Area (#NTS0101) and subsequently moved to the NTS Area 5 Hazardous Waste Pad for storage. The waste was then shipped off-site as hazardous waste to an approved treatment, storage, and disposal facility. A copy of the Off-site Waste Transport Manifest is presented in Appendix C.
- From CAS 06-44-03, approximately 11 L (3 gal) of plaster/cement chips and soil and four pieces of scrap wood were disposed of as sanitary waste in the NTS Area 9 U10c Landfill.
- From CAS 06-44-04, approximately 22 m^3 (29 yd^3) of TPH-impacted soil were disposed of in the NTS Area 6 Hydrocarbon Landfill.

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4.0 CLOSURE VERIFICATION RESULTS

4.1 VERIFICATION SAMPLE ANALYSES

Three of the CASs required verification soil sampling, CAS 06-17-03, CAS 06-44-02, and CAS 06-44-04. Samples were collected from 28 locations after the excavations reached boundaries determined by field screening, and/or no visible staining was observed. The samples were collected with clean disposable plastic scoops and placed in labeled sample containers secured with custody seals. The sample containers were placed on ice in a cooler, transported under chain-of-custody to the BN Sample Management group in Mercury, Nevada, and then shipped to an off-site laboratory for analysis. Samples from 11 locations were analyzed for total RCRA metals (EPA, 1996b). Samples from 17 locations were analyzed for TPH (EPA, 1996b).

The analytical results verify that RCRA metals and petroleum hydrocarbons remaining in the ground at the three sites are below EPA Region IX PRGs for Industrial Soil (EPA, 1996a), and the Nevada State Action Level for TPH (100 mg/kg) (NAC, 2000). The analytical results for metals and petroleum hydrocarbons are summarized in Tables 3 and 4, respectively, and the analytical reports are included in Appendix A.

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5.0 SUMMARY AND RECOMMENDATIONS

5.1 SUMMARY

The following site closure activities were performed at the six CAS comprising CAU 392 and are documented in the report:

- All wood, metal cable, scrap metal, and glass were removed from the sites and disposed of in the NTS Area 9 U10c Landfill.
- All dried paint and paint stained soil and cobbles were removed and disposed of as hazardous waste to a BN-approved off-site permitted hazardous waste treatment, storage, and disposal facility. (See Appendix C for a copy of the Off-site Waste Transport Manifest.)
- All soil containing TPH levels at or above the Nevada State TPH Action Level (100 mg/kg) (NAC, 2000) were removed and disposed of in the NTS Area 6 Hydrocarbon Landfill.
- Approximately 21.5 m^3 (28 yd^3) of soil high in barium were removed from the bottom of an existing mud pit and disposed of in the NTS Area 9 Landfill. The barium concentration for the soil left in place is less than the EPA Region IX PRG for Industrial Soil (EPA, 1996a).

5.2 RECOMMENDATIONS

Since the closure activities for CAU 392 have been completed following the Nevada Division of Environmental Protection (NDEP)-approved Sectored Clean-up Work Plan for Housekeeping Category Waste Sites (DOE/NV, 2000) as documented in this report, the U.S. Department of Energy, National Nuclear Security Administration Nevada Operations Office (NNSA/NV) requests:

- A Notice of Completion be provided by the NDEP to the NNSA/NV for the closure of CAU 392 (CAS 05-17-02, CAS 06-17-03, CAS 06-19-01, CAS 06-44-02, CAS 06-44-03, and CAS 06-44-04).
- CAU 392 be moved from Appendix III to Appendix IV of the FFACO "Closed Corrective Action Units" (FFACO, 1996).

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6.0 REFERENCES

BN, see Bechtel Nevada.

Bechtel Nevada, 2000. Field Management Plan for Housekeeping Category Waste Sites, Las Vegas, NV.

Bechtel Nevada, 2001. Site-Specific Health and Safety Plan for Corrective Action Unit 392: Areas 5 and 6 Spill Sites and Construction Material, Nevada Test Site, Nevada, Las Vegas, NV.

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.

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

NAC, see Nevada Administrative Code.

Nevada Administrative Code, 2000. Section 445A.2272, "Contamination of soil: Establishment of action levels," As adopted by the Nevada Environmental Commission, Carson City, NV.

U.S. Department of Energy, Nevada Operations Office, 2000. Sectored Clean-up Work Plan For Housekeeping Category Waste Sites, Rev 0, DOE/NV–579, Las Vegas, NV.

U.S. Environmental Protection Agency, 1996a. Region IX Preliminary Remediation Goals (PRGs), San Francisco, CA.

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

U.S. Environmental Protection Agency, 1996c. Title 40 Code of Federal Regulations 261.24, "Toxicity Characteristic," Washington, D.C.

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APPENDIX A

VERIFICATION SAMPLE ANALYTICAL RESULTS

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NEL LABORATORIES
Reno • Las Vegas
Phoenix • Boise

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: V1220
PROJECT NUMBER: 23081 NEL ID: L0107295

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 7/30/01.

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:
C Sample concentration is at least 5 times greater than spike contribution. Spike recovery criteria do not apply. –

REPORT NARRATIVE:
The dilution factor shown for the metals on Order ID L0107295 samples 01 through 07 is actually a preparation factor as defined by the method. The Barium result on samples 03, 04 and 05 were diluted to bring the results within the calibration range of the instrument.

Stan Van Wagenen
Laboratory Manager

12/10/01 re-issue
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California		Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605	Idaho	Certified	Certified	
California	1707	2002	2264	Montana	Certified	Certified	
US Army Corps of Engineers	Certified	Certified		Nevada	NV033	NV052	CA084
				L.A.C.S.D.			10228

CLIENT:	Bechtel Nevada	CLIENT ID:	CAS061703-V1
PROJECT ID:	V1220	DATE SAMPLED:	7/26/01
PROJECT #:	23081	NEL SAMPLE ID:	L0107295-01
TEST:	RCRA-8 GROUP		
MATRIX:	Solid	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	13	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Barium	400	0.25 mg/kg	50	EPA 6010	7/31/01	8/1/01
Cadmium	ND	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Chromium	14	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Lead	10	2.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Mercury	ND	0.1 mg/kg	500	EPA 7471A	8/3/01	8/3/01
Selenium	ND	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Silver	ND	1. mg/kg	50	EPA 6010	7/31/01	8/1/01

D.F. - Dilution Factor

ND - Not Detected

CLIENT:	Bechtel Nevada	CLIENT ID:	CAS061703-V2
PROJECT ID:	V1220	DATE SAMPLED:	7/26/01
PROJECT #:	23081	NEL SAMPLE ID:	L0107295-02
TEST:	RCRA-8 GROUP		
MATRIX:	Solid	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Barium	1500	0.25 mg/kg	50	EPA 6010	7/31/01	8/1/01
Cadmium	ND	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Chromium	11	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Lead	7.0	2.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Mercury	ND	0.1 mg/kg	500	EPA 7471A	8/3/01	8/3/01
Selenium	ND	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Silver	ND	1. mg/kg	50	EPA 6010	7/31/01	8/1/01

D.F. - Dilution Factor

ND - Not Detected

CLIENT:	Bechtel Nevada	CLIENT ID:	CAS061703-V3
PROJECT ID:	V1220	DATE SAMPLED:	7/26/01
PROJECT #:	23081	NEL SAMPLE ID:	L0107295-03
TEST:	RCRA-8 GROUP		
MATRIX:	Solid	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D.F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Barium	2400	2.5 mg/kg	500	EPA 6010	7/31/01	8/1/01
Cadmium	ND	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Chromium	13	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Lead	79	2.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Mercury	ND	0.1 mg/kg	500	EPA 7471A	8/3/01	8/3/01
Selenium	ND	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Silver	ND	1. mg/kg	50	EPA 6010	7/31/01	8/1/01

D.F. - Dilution Factor

ND - Not Detected

CLIENT:	Bechtel Nevada	CLIENT ID:	CAS061703-V4
PROJECT ID:	V1220	DATE SAMPLED:	7/26/01
PROJECT #:	23081	NEL SAMPLE ID:	L0107295-04
TEST:	RCRA-8 GROUP		
MATRIX:	Solid	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Barium	59	0.5 mg/kg	100	EPA 6010	7/31/01	8/1/01
Cadmium	ND	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Chromium	15	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Lead	7.1	2.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Mercury	ND	0.1 mg/kg	500	EPA 7471A	8/3/01	8/3/01
Selenium	ND	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Silver	ND	1. mg/kg	50	EPA 6010	7/31/01	8/1/01

D.F. - Dilution Factor

ND - Not Detected

CLIENT:	Bechtel Nevada	CLIENT ID:	CAS061703-V5
PROJECT ID:	V1220	DATE SAMPLED:	7/26/01
PROJECT #:	23081	NEL SAMPLE ID:	L0107295-05
TEST:	RCRA-8 GROUP		
MATRIX:	Solid	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	9.1	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Barium	2300	25. mg/kg	5000	EPA 6010	7/31/01	8/1/01
Cadmium	ND	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Chromium	12	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Lead	6.8	2.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Mercury	ND	0.1 mg/kg	500	EPA 7471A	8/3/01	8/3/01
Selenium	ND	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Silver	ND	1. mg/kg	50	EPA 6010	7/31/01	8/1/01

D.F. - Dilution Factor

ND - Not Detected

CLIENT:	Bechtel Nevada	CLIENT ID:	CAS061703-V6
PROJECT ID:	V1220	DATE SAMPLED:	7/26/01
PROJECT #:	23081	NEL SAMPLE ID:	L0107295-06
TEST:	RCRA-8 GROUP		
MATRIX:	Solid	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Barium	1600	0.25 mg/kg	50	EPA 6010	7/31/01	8/1/01
Cadmium	ND	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Chromium	11	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Lead	6.1	2.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Mercury	ND	0.1 mg/kg	500	EPA 7471A	8/3/01	8/3/01
Selenium	ND	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Silver	ND	1. mg/kg	50	EPA 6010	7/31/01	8/1/01

D.F. - Dilution Factor

ND - Not Detected

CLIENT:	Bechtel Nevada	CLIENT ID:	CAS061703-V7
PROJECT ID:	V1220	DATE SAMPLED:	7/26/01
PROJECT #:	23081	NEL SAMPLE ID:	L0107295-07
TEST:	RCRA-8 GROUP		
MATRIX:	Solid	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	14	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Barium	410	0.25 mg/kg	50	EPA 6010	7/31/01	8/1/01
Cadmium	ND	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Chromium	16	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Lead	8.1	2.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Mercury	ND	0.1 mg/kg	500	EPA 7471A	8/3/01	8/3/01
Selenium	ND	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Silver	ND	1. mg/kg	50	EPA 6010	7/31/01	8/1/01

D.F. - Dilution Factor

ND - Not Detected

CLIENT:	Bechtel Nevada	CLIENT ID:	Method Blank
PROJECT ID:	V1220	DATE SAMPLED:	NA
PROJECT #:	23081	NEL SAMPLE ID:	0731-4.1-BLK
TEST:	RCRA-8 GROUP		

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Barium	ND	0.25 mg/kg	50	EPA 6010	7/31/01	8/1/01
Cadmium	ND	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Chromium	ND	0.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Lead	ND	2.5 mg/kg	50	EPA 6010	7/31/01	8/1/01
Selenium	ND	5. mg/kg	50	EPA 6010	7/31/01	8/1/01
Silver	ND	1. mg/kg	50	EPA 6010	7/31/01	8/1/01

D.F. - Dilution Factor

ND - Not Detected

CLIENT:	Bechtel Nevada	CLIENT ID:	Method Blank
PROJECT ID:	V1220	DATE SAMPLED:	NA
PROJECT #:	23081	NEL SAMPLE ID:	L7295HGS-BLK
TEST:	RCRA-8 GROUP		

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.1 mg/kg	500	EPA 7471A	8/3/01	8/3/01

D.F. - Dilution Factor

ND - Not Detected

LEVEL 4 8/6 L0107-L95

Bechtel Nevada

ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/ CLIENT INFORMATION

Project: CAU 392 BN Org#:
Charge No.: C0J27011 ASL Prog.:
Project Manager: Wayne Johnson
Phone: 295-0573 Fax: 295-7761 M/S: NTS 306

REPORT INFORMATION

Send Report to: Brad Jackson
Phone: 295-0331 Fax: 295-7761 M/S: NTS 306
Turnaround: ( ) Standard - 30 days Non-rad, 60 Days Rad, Other: ______ (X) Rush Preliminary by: 8/13/2001 Final by: ______
Final report format: ( ) Standard ( ) NTS-WAC ( ) Other: ______

SAMPLE INFORMATION

Sampling Site: CAU 392 / CAS 06-17-03
The samples submitted contain (check): ( ) Hazardous ( ) Radioactive (X) Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

LAB USE ONLY

Rad SGD: Non-Rad SDG: V1220
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: ______

ANALYSES & METHOD: Total RCRA Metals (6010, 7470); Run Total RCRA 8 7-30-01

SAMPLE RECEIPT INFORMATION

Are all sample containers received intact (X) Yes ( ) No
Comments:
Do the labels agree with this form? (X) Yes ( ) No
Comments:
Was a Material Clearance Tag submitted? (X) Yes ( ) No
Comments:

	ITEM	ID / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	Total RCRA Metals (6010, 7470)	COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)
01	0	CAS061703-V1	7/26/01	1451	Soil	X	250 ml
02	1	CAS061703-V2	↓	1454	↓	X	250 ml
03	2	CAS061703-V3	↓	1455	↓	X	250 ml
04	3	CAS061703-V4	↓	1456	↓	X	250 ml x 2 MS/MSD
05	4	CAS061703-V5	↓	1456	↓	X	250 ml
06	5	CAS061703-V6	↓	1500	↓	X	250 ml
07	6	CAS061703-V7	↓	1603	↓	X	250 ml
08	7						
09	8						
10	9						

Custody Seal Intact (Y) N None Temp. 6° C
Condition when received: (Good)

Transfer of samples submitted for analyses

Sampled/Relinquished (Signature/Organization)	DATE / TIME	Received by (Signature/Organization)
K. Campbell BN ER	7/30/01 0900	CD Castaneda

Complete for samples shipped to an OFF-SITE Subcontract Laboratory NEL

Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)
CD Castaneda	7/30/01 1300	BN Courier
Relinquished (Courier & Tracking Info.)	**DATE / TIME**	**Received (1st tier Subcontractor Rep)**
Via Courier	7-30-01 / 1545	[signature] NEL
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)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Boise

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: NA/23081
PROJECT NUMBER: 23081

NEL ORDER ID: L0108051

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 8/7/01.

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

The dilution factor shown for the metals on Order ID L0108051 samples 01 through 04 is actually a preparation factor as defined by the method.

Stan Van Wagenen
Laboratory Manager

12/10/01 RE-ISSUE
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

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064402-V1**
PROJECT ID:	NA/23081	DATE SAMPLED:	8/6/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108051-01
TEST:	**RCRA-8 GROUP**		
MATRIX:	Solid	ANALYST:	FIF - Division

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	5. mg/kg	50	EPA 6010	8/8/01	8/9/01
Barium	110	0.25 mg/kg	50	EPA 6010	8/8/01	8/9/01
Cadmium	ND	0.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Chromium	15	0.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Lead	43	2.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Mercury	ND	0.1 mg/kg	500	EPA 7471A	8/10/01	8/10/01
Selenium	ND	5. mg/kg	50	EPA 6010	8/8/01	8/9/01
Silver	ND	1. mg/kg	50	EPA 6010	8/8/01	8/9/01

D.F. - Dilution Factor

ND - Not Detected

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064402-V2**
PROJECT ID:	NA/23081	DATE SAMPLED:	8/6/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108051-02
TEST:	**RCRA-8 GROUP**		
MATRIX:	Solid	ANALYST:	FIF - Division

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	5. mg/kg	50	EPA 6010	8/8/01	8/9/01
Barium	120	0.25 mg/kg	50	EPA 6010	8/8/01	8/9/01
Cadmium	ND	0.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Chromium	59	0.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Lead	220	2.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Mercury	ND	0.1 mg/kg	500	EPA 7471A	8/10/01	8/10/01
Selenium	ND	5. mg/kg	50	EPA 6010	8/8/01	8/9/01
Silver	ND	1. mg/kg	50	EPA 6010	8/8/01	8/9/01

D.F. - Dilution Factor

ND - Not Detected

CLIENT: Bechtel Nevada
PROJECT ID: NA/23081
PROJECT #: 23081

CLIENT ID: **CAS064402-V3**
DATE SAMPLED: 8/6/01
NEL SAMPLE ID: L0108051-03

TEST: **RCRA-8 GROUP**
MATRIX: Solid

ANALYST: FIF - Division

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	5. mg/kg	50	EPA 6010	8/8/01	8/9/01
Barium	120	0.25 mg/kg	50	EPA 6010	8/8/01	8/9/01
Cadmium	ND	0.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Chromium	22	0.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Lead	76	2.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Mercury	ND	0.1 mg/kg	500	EPA 7471A	8/10/01	8/10/01
Selenium	ND	5. mg/kg	50	EPA 6010	8/8/01	8/9/01
Silver	ND	1. mg/kg	50	EPA 6010	8/8/01	8/9/01

D.F. - Dilution Factor

ND - Not Detected

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064402-V4**
PROJECT ID:	NA/23081	DATE SAMPLED:	8/6/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108051-04
TEST:	**RCRA-8 GROUP**		
MATRIX:	Solid	ANALYST:	FIF - Division

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	5. mg/kg	50	EPA 6010	8/8/01	8/9/01
Barium	130	0.25 mg/kg	50	EPA 6010	8/8/01	8/9/01
Cadmium	ND	0.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Chromium	31	0.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Lead	110	2.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Mercury	ND	0.1 mg/kg	500	EPA 7471A	8/10/01	8/10/01
Selenium	ND	5. mg/kg	50	EPA 6010	8/8/01	8/9/01
Silver	ND	1. mg/kg	50	EPA 6010	8/8/01	8/9/01

D.F. - Dilution Factor

ND - Not Detected

CLIENT: Bechtel Nevada
PROJECT ID: NA/23081
PROJECT #: 23081

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 0808-5.1-BLK

TEST: **RCRA-8 GROUP**

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	5. mg/kg	50	EPA 6010	8/8/01	8/9/01
Barium	ND	0.25 mg/kg	50	EPA 6010	8/8/01	8/9/01
Cadmium	ND	0.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Chromium	ND	0.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Lead	ND	2.5 mg/kg	50	EPA 6010	8/8/01	8/9/01
Selenium	ND	5. mg/kg	50	EPA 6010	8/8/01	8/9/01
Silver	ND	1. mg/kg	50	EPA 6010	8/8/01	8/9/01

D.F. - Dilution Factor

ND - Not Detected

CLIENT:	Bechtel Nevada	CLIENT ID:	**Method Blank**
PROJECT ID:	NA/23081	DATE SAMPLED:	NA
PROJECT #:	23081	NEL SAMPLE ID:	L8051HGS-BLK
TEST:	**RCRA-8 GROUP**		

PARAMETER	RESULT mg/kg	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.1 mg/kg	500	EPA 7471A	8/10/01	8/10/01

D.F. - Dilution Factor

ND - Not Detected

LEVEL II 2010805! 8/17

Bechtel Nevada

ANALYTICAL SERVICES LABORATORY

SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/ CLIENT INFORMATION

Project: CAU 392 BN Org#: 2156
Charge No.: CØJ27D11 ASL Prog.:
Project Manager: Wayne Johnson
Phone: 295-0573 Fax: 295-7761 M/S: NTS 306

REPORT INFORMATION

Send Report to: Brad Jackson
Phone: 295-0531 Fax: 295-7761 M/S: NTS 306
Turnaround: ( ) Standard - 30 days Non-rad, 60 Days Rad, Other: ____ (X) Rush Preliminary by: 7 Days Final by: ____
Final report format: (X) Standard ( ) NTS-WAC ( ) Other: ____

SAMPLE INFORMATION

Sampling Site: CAS 06-44-02 Area 6
The samples submitted contain (check): ( ) Hazardous ( ) Radioactive (X) Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

LAB USE ONLY

Rad SGD: Non-Rad SDG: V1230
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: ____

SAMPLE RECEIPT INFORMATION

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:

ANALYSES & METHOD

	ITEM	ID / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	Total RCRA Metals 4.26	COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)
01	0	CAS064402-V1	8/6/01		soil	X	1x250 ml clear glass jar
02	1.	CAS064402-V2	↓		↓	X	↓
03	2.	CAS064402-V3	↓		↓	X	↓
04	3.	CAS064402-V4	↓		↓	X	↓
	4						Run RCRA 8 per Bruce
	5						C 8-7-01 1545
	6						Samples are free of rad.
	7						Collected from a non rad.
	8						area.
	9						

Custody Seal Intact? (Y) N None Temp. 3°C
Condition when received (good)

Transfer of samples submitted for analyses

Sampled/Relinquished (Signature/Organization)	DATE / TIME	Received by (Signature/Organization)
[signature] BNER	08/07/01 1045	[signature]
[signature]	8/7/01 1150	[signature]
[signature]	8/7/01 1525	[signature]

Complete for samples shipped to an OFF-SITE Subcontract Laboratory

Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)
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

BN-0732 (02/98)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Boise

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: V1237
PROJECT NUMBER: 23081

NEL ORDER ID: L0108130

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 8/14/01.

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

8/24/01
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:	**CAS064404-V01**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-01
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	**Result**	**Reporting Limit**
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:

Surrogate	**% Recovery**	**Acceptable Range**
Octacosane	105	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V02**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-02

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

METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	Result		Reporting Limit
Gasoline Range (C8-C12)	ND		10. mg/kg
Diesel Range (C12-C22)	23	mg/kg	10. mg/kg
Oil Range (C22-C34)	ND		50. mg/kg
Total	23	mg/kg	10. mg/kg

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
Octacosane	89	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V03**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-03
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

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

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
Octacosane	94	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V04**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-04
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	**Result**		**Reporting Limit**
Gasoline Range (C8-C12)	ND		10. mg/kg
Diesel Range (C12-C22)	22	mg/kg	10. mg/kg
Oil Range (C22-C34)	ND		50. mg/kg
Total	22	mg/kg	10. mg/kg

QUALITY CONTROL DATA:

Surrogate	**% Recovery**	**Acceptable Range**
Octacosane	99	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V05**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-05
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	**Result**	**Reporting Limit**
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:

Surrogate	**% Recovery**	**Acceptable Range**
Octacosane	88	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V06**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-06

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

METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	Result	Reporting Limit
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:

Surrogate	% Recovery	Acceptable Range
Octacosane	97	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V07**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-07
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	**Result**	**Reporting Limit**
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:

Surrogate	**% Recovery**	**Acceptable Range**
Octacosane	97	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V08**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-08

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

METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	Result		Reporting Limit
Gasoline Range (C8-C12)	ND		10. mg/kg
Diesel Range (C12-C22)	ND		10. mg/kg
Oil Range (C22-C34)	94	mg/kg	50. mg/kg
Total	94	mg/kg	10. mg/kg

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
Octacosane	90	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	CAS064404-V09
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-09

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

METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	Result		Reporting Limit
Gasoline Range (C8-C12)	ND		10. mg/kg
Diesel Range (C12-C22)	49	mg/kg	10. mg/kg
Oil Range (C22-C34)	ND		50. mg/kg
Total	49	mg/kg	10. mg/kg

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
Octacosane	88	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V10**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-10
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	**Result**		**Reporting Limit**
Gasoline Range (C8-C12)	ND		10. mg/kg
Diesel Range (C12-C22)	41	mg/kg	10. mg/kg
Oil Range (C22-C34)	ND		50. mg/kg
Total	41	mg/kg	10. mg/kg

QUALITY CONTROL DATA:

Surrogate	**% Recovery**	**Acceptable Range**
Octacosane	90	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V11**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-11
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	Result		Reporting Limit
Gasoline Range (C8-C12)	ND		10. mg/kg
Diesel Range (C12-C22)	24	mg/kg	10. mg/kg
Oil Range (C22-C34)	ND		50. mg/kg
Total	24	mg/kg	10. mg/kg

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
Octacosane	93	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V12**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-12
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	**Result**	**Reporting Limit**
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:

Surrogate	**% Recovery**	**Acceptable Range**
Octacosane	67	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V13**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-13
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	**Result**	**Reporting Limit**
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:

Surrogate	**% Recovery**	**Acceptable Range**
Octacosane	77	54 - 130

ND - Not Detected

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V14**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-14
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	Result	Reporting Limit
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:

Surrogate	% Recovery	Acceptable Range
Octacosane	86	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V15**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-15
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	**Result**	**Reporting Limit**
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:

Surrogate	**% Recovery**	**Acceptable Range**
Octacosane	92	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V16**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-16
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	**Result**	**Reporting Limit**
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:

Surrogate	**% Recovery**	**Acceptable Range**
Octacosane	84	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**CAS064404-V17**
PROJECT ID:	V1237	DATE SAMPLED:	8/10/01
PROJECT #:	23081	NEL SAMPLE ID:	L0108130-17
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
DILUTION:	1	ANALYZED:	8/22/01

PARAMETER	**Result**		**Reporting Limit**
Gasoline Range (C8-C12)	ND		10. mg/kg
Diesel Range (C12-C22)	22	mg/kg	10. mg/kg
Oil Range (C22-C34)	ND		50. mg/kg
Total	22	mg/kg	10. mg/kg

QUALITY CONTROL DATA:

Surrogate	**% Recovery**	**Acceptable Range**
Octacosane	92	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	**Method Blank**
PROJECT ID:	V1237	DATE SAMPLED:	NA
PROJECT #:	23081	NEL SAMPLE ID:	010816TPHS-2-BLK
TEST:	**Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**		
METHOD:	EPA 8015M	ANALYST:	PXC - Division
MATRIX:	Solid	EXTRACTED:	8/22/01
		ANALYZED:	8/22/01

PARAMETER	Result	Reporting Limit
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:

Surrogate	% Recovery	Acceptable Range
Octacosane	105	54 - 130

ND - Not Detected

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1237
PROJECT #: 23081
TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Diesel Range (C12-C22)	010816TPHS-2-LCS	166.7	88	53	53 - 91	
Diesel Range (C12-C22)	010816TPHS-2-LCSD	166.7	98	59	53 - 91	10.8
Diesel Range (C12-C22)	L0108130-01-MS	166.7	111	67	34 - 114	
Diesel Range (C12-C22)	L0108130-01-MSD	166.7	103	62	34 - 114	7.5
Total	010816TPHS-2-LCS	166.7	114	68	53 - 91	
Total	010816TPHS-2-LCSD	166.7	119	71	53 - 91	4.3
Total	L0108130-01-MS	166.7	111	67	34 - 114	
Total	L0108130-01-MSD	166.7	103	62	34 - 114	7.5

ND - Not Detected

L-NO.'1 3-2 O' L0100130

Bechtel Nevada

ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/ CLIENT INFORMATION

Project: CAU 392 BN Org#: 2156
Charge No.: CØJ27D11 ASL Prog.:
Project Manager: Wayne Johnson
Phone: 295-0573 Fax: 295-7761 M/S: NTS 306

REPORT INFORMATION

Send Report to: Brad Jackson
Phone: 295-0331 Fax: 295-7751 M/S: NTS 306
Turnaround: ( ) Standard - 30 days Non-rad, 60 Days Rad, Other: ______ (X) Rush Preliminary by: 7 day Final by: ______
Final report format: (X) Standard ( ) NTS-WAC ( ) Other: ______

SAMPLE INFORMATION

Sampling Site: CAU 392 - CAS 06-44-04
The samples submitted contain (check): ( ) Hazardous ( ) Radioactive (X) Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

LAB USE ONLY

Rad SGD: Non-Rad SDG: V1237
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: ______

SAMPLE RECEIPT INFORMATION

Are all sample containers received intact (X) Yes ( ) No
Comments:
Do the labels agree with this form? (X) Yes ( ) No
Comments:
Was a Material Clearance Tag submitted? (X) Yes ( ) No
Comments:

	ITEM	ID / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	TPH FULL SCAN (GAS, DIESEL, waste oil)	PAY ITEM: 10.19, 10.21	COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)
01	0	CAS064404-V01	8/10/01	1338	soil	X		1 X 250 ml clear glass
02	1	CAS064404-V02		1341		X		
03	2	CAS064404-V03		1344		X		
04	3	CAS064404-V04		1347		X		
05	4	CAS064404-V05		1348		X		
06	5	CAS064404-V06		1349		X		
07	6	CAS064404-V07		1350		X		
08	7	CAS064404-V08		1400		X		
09	8	CAS064404-V09		1359		X		
10	9	CAS064404-V10		1401		X		

All samples from non-rad area. No rad present

Custody Seal Intact? (Y) N None Temp. 4°C
Condition when received (good)

Transfer of samples submitted for analyses

Sampled/Relinquished (Signature/Organization)	DATE / TIME	Received by (Signature/Organization)
K B Campbell BNER	8/13/01 1320	C D Castaneda

Complete for samples shipped to an OFF-SITE Subcontract Laboratory NEL

Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)
C D Castaneda	8/14/01/1300	BN Courier
Relinquished (Courier & Tracking Info.)	**DATE / TIME**	**Received (1st tier Subcontractor Rep)**
Via Courier	8/15/01/1035	[signature]
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)

Level 4 8-21-01 C0108130

Bechtel Nevada

ANALYTICAL SERVICES LABORATORY

SERVICES REQUEST & CHAIN OF CUSTODY RECORD

Page 2 of 2

PROJECT/ CLIENT INFORMATION

Project: CAU 392 BN Org#: 2156
Charge No.: CDJ27D11 ASL Prog.:
Project Manager: Wayne Johnson
Phone: 295-0573 Fax: 295-7761 M/S: NTS 306

REPORT INFORMATION

Send Report to: Brad Jackson
Phone: 295-0331 Fax: 295-7761 M/S: NTS 306
Turnaround: ( ) Standard - 30 days Non-rad, 60 Days Rad, Other:
(X) Rush Preliminary by: 7 day Final by:
Final report format: ( ) Standard ( ) NTS-WAC ( ) Other:

SAMPLE INFORMATION

Sampling Site: CAU 392 CR 06-44-04
The samples submitted contain (check);
( ) Hazardous ( ) Radioactive (X) Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

LAB USE ONLY

Rad SGD: Non-Rad SDG: V1237
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:

ANALYSES & METHOD

ITEM	ID / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	TPH Full Scan (Gas, Diesel, Waste Oil)	PAH ITEM: 10.19, 10.21
11 0	CAS064404-V11	8/10/01	1402	soil	X	
12 1	CAS064404-V12		1413		X	
13 2	CAS064404-V13		1410		X	
14 3	CAS064404-V14		1406		X	
15 4	CAS064404-V15		1412		X	
16 5	CAS064404-V16		1417		X	
17 6	CAS064404-V17	↓	1417	↓	X	
7						
8	Last / Time					
9						

Custody Seal Intact? (Y) N None
Condition when received (good)

SAMPLE RECEIPT INFORMATION

Are all sample containers received intact (X) Yes ( ) No
Comments:

Do the labels agree with this form? (X) Yes ( ) No
Comments:

Was a Material Clearance Tag submitted? (X) Yes ( ) No
Comments:

COMMENTS
(Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)

1 x 250 ml clear glass

Temp. 4°C

Samples from non-rad area
No rad present

Transfer of samples submitted for analyses

Sampled/Relinquished (Signature/Organization)	DATE / TIME	Received by (Signature/Organization)
K. B. Campbell BNER	8/13/01 1320	CD Castaneda

Complete for samples shipped to an OFF-SITE Subcontract Laboratory NEL

	DATE / TIME	
Relinquished (BN Representative Signature)		Received (Courier & Tracking Info.)
CD Castaneda	8/14/01 1300	BAI Couriers
Relinquished (Courier & Tracking Info.)	DATE / TIME	Received (1st tier Subcontractor Rep)
NEL Courier	8/14/01 1600	
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 samplers

BN-0732 (02/98)

APPENDIX B

SECTORED HOUSEKEEPING SITE CLOSURE VERIFICATION FORMS

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Sectored Housekeeping Site Closure Verification Form

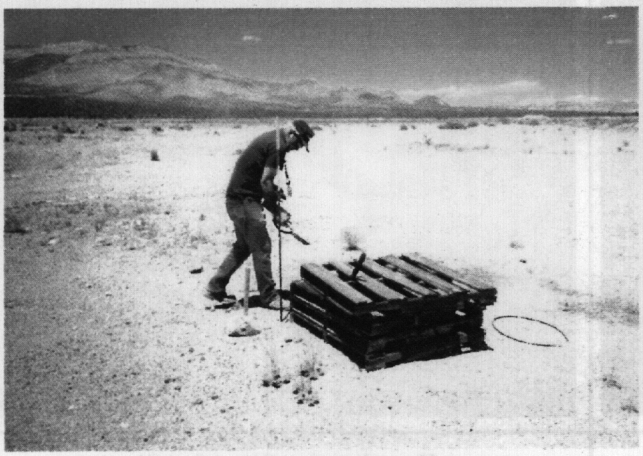
Closure Verification Date: 07/17/2001
CAS Number (if applicable): 05-17-02
CAU Number (if applicable): 392
Sector Designation: C
Housekeeping Site General Location: NTS Area 5, SE of U11c
Elevation: 1,249 meters (m)
Northing: 4,081,344 m (UTM Zone 11) **Latitude:** 36 52 30.240
Easting: 595,362 m (UTM Zone 11) **Longitude:** 115 55 48.060

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: Take Mercury Highway north to 5-01 Road. Turn right (north) on 5-01 Road. Travel to Radioactive Waste Management Site. Turn left (west) on dirt road just north of Building 5-19. Proceed to just past Transuranic building (blue building). Turn left (south) and go 0.4 mile. Turn right (west), proceed for 0.8 mile to the fork in the road, take left fork. Continue for 0.5 mile to the fork in the road, take right fork. Proceed 0.8 mile to 5-01 Road, cross 5-01 Road and proceed 1.2 miles. Turn right (south) and look for line of site tower.

Waste Item(s) Originally at Site	Apparent Waste Type*
Wooden debris - pallets	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other



Housekeeping Site Before Closure
(taken 06/07/2001)

Housekeeping Site After Closure
(taken 07/17/2001)

Current Site Description/Observations: This site was first identified by Reynolds Electrical & Engineering Co., Inc., staff during 1990. International Technology Corp. staff did a preliminary site assessment on 06/30/1999 and noted that much of the original material and debris had been removed. The remaining wood debris was removed by Bechtel Nevada staff on 07/17/2001. The current state of Corrective Action Site 05-17-02 is clean closed.

X **No Further Action Required at Housekeeping Site**

Kevin B. Campbell Kevin B. Campbell 10/22/2001
Corrective Action Coordinator/Designee **Signature** **Date**

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 07/26/2001
CAS Number (if applicable): 06-17-03
CAU Number (if applicable): 392
Sector Designation: C
Housekeeping Site General Location: NTS Area 6, west of Well 3 Yard
Elevation: 1,182 meters (m)
Northing: 4,094,588 m (UTM Zone 11) **Latitude:** 36 59 44.148
Easting: 583,100 m (UTM Zone 11) **Longitude:** 116 03 58.080

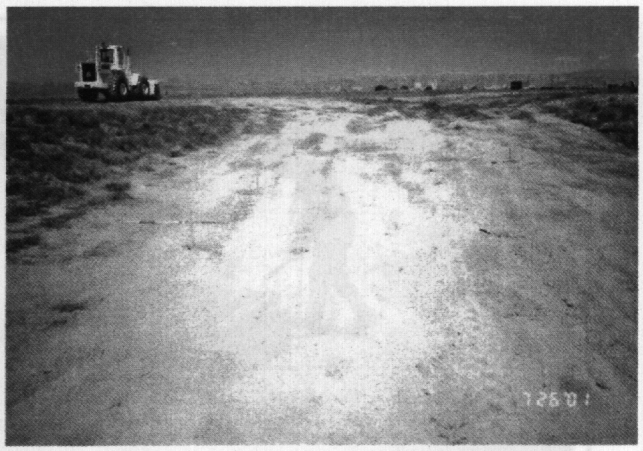
Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: Proceed on Mercury Highway north to Well 3 Road (6-09 Road), which is approximately 0.1 mile south of substation 6-4. Then turn left (west) and proceed for 0.8 mile. Site is on the right (north) side of the road, approximately 6 m (20 feet) north of the road.

Waste Item(s) Originally at Site	Apparent Waste Type*
Cement and soil	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

Housekeeping Site Before Closure
(taken 06/07/2001)



Housekeeping Site After Closure
(taken 07/26/2001)

Current Site Description/Observations: This site was first identified by Reynolds Electrical & Engineering Co., Inc., staff during a 1990 site visit. International Technology Corp. staff did a preliminary site assessment on 7/16/1998 and noted that much of the original cement/mud had been removed. The remaining cement/mud was removed by Bechtel Nevada staff on 7/26/2001. Analytical results for soil verification samples show that Corrective Action Site 06-17-03 has been clean closed.

_X_ No Further Action Required at Housekeeping Site

Kevin B. Campbell	Kevin B. Campbell	10/22/2001
Corrective Action Coordinator/Designee	**Signature**	**Date**

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 07/26/2001
CAS Number (if applicable): 06-19-01
CAU Number (if applicable): 392
Sector Designation: C
Housekeeping Site General Location: NTS Area 6, west of Well 3 Yard
Elevation: 1,210 meters (m)
Northing: 4,094,729 m (UTM Zone 11) **Latitude:** 36 59 48.696
Easting: 583,113 m (UTM Zone 11) **Longitude:** 116 03 57.492

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: Take Mercury Highway north to Well 3 Road (6-09 Road), turn left (west). Travel approximately 0.8 mile from Mercury Highway. On foot, walk approximately 213 m (700 feet) to the north/northeast and look for site marker. Site is not visible from the road.

Waste Item(s) Originally at Site	Apparent Waste Type*
Debris - metal, wood, glass, soil	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

Housekeeping Site Before Closure
(taken 07/18/2001)

Housekeeping Site After Closure
(taken 07/26/2001)

Current Site Description/Observations: This site was identified by Reynolds Electrical & Engineering Co., Inc., staff, and a preliminary site assessment was performed by International Technology Corp. on 10/14/1993. The pile of metal cable, scrap metal, wood debris, three small piles of white powdered material, and two piles of black granular material were removed by Bechtel Nevada staff on 07/17/2001. Visual inspection of the area verified that Corrective Action Site 06-19-01 has been clean closed.

X **No Further Action Required at Housekeeping Site**

Kevin B. Campbell Kevin B. Campbell 10/22/2001
Corrective Action Coordinator/Designee **Signature** **Date**

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 08/06/2001
CAS Number (if applicable): 06-44-02
CAU Number (if applicable): 392
Sector Designation: C
Housekeeping Site General Location: NTS Area 6, Control Point helicopter pad
Elevation: 1,217 meters (m)
Northing: 4,087,915 m (UTM Zone 11) **Latitude:** 36 56 07.080
Easting: 584,703 m (UTM Zone 11) **Longitude:** 116 02 55.920

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: Take Mercury Highway north to Area 6 Control Point facility. Turn right (east) onto first road past the helicopter pad. Proceed for 0.07 mile from the Mercury Highway. Site is north of the road approximately 23 m (75 feet).

Waste Item(s) Originally at Site	Apparent Waste Type*
Dried paint and paint stained soil/cobbles.	Hazardous

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

Housekeeping Site Before Closure
(taken 07/18/2001)

Housekeeping Site After Closure
(taken 08/06/2001)

Current Site Description/Observations: This site was identified by International Technology Corp. staff and a preliminary site assessment was performed on 06/24/1998. The area (8 by 11 feet) of dried paint, stained soil and cobbles was placed in a 55 gallon drum and removed by Bechtel Nevada staff on 08/06/2001. Analytical results for soil verification samples confirm that Corrective Action Site 06-44-02 has been clean closed.

_X_ No Further Action Required at Housekeeping Site

Kevin B. Campbell	Kevin B. Campbell	10/22/2001
Corrective Action Coordinator/Designee	**Signature**	**Date**

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 07/18/2001
CAS Number (if applicable): 06-44-03
CAU Number (if applicable): 392
Sector Designation: C
Housekeeping Site General Location: NTS Area 6
Elevation: 1,199 meters (m)
Northing: 4,092,785 m (UTM Zone 11) **Latitude:** 36 58 25.860
Easting: 584,061 m (UTM Zone 11) **Longitude:** 116 03 20.160

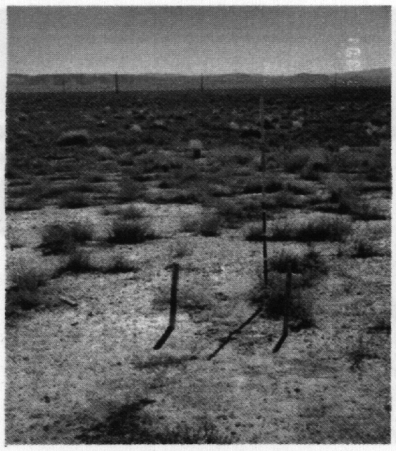
Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: Tale Mercury Highway north, and turn left (west) onto dirt road 0.4 mile south of Tweezer Road. Continue west for 0.2 mile to where the road bends to the north. Proceed north for 0.5 mile to site marker.

Waste Item(s) Originally at Site	Apparent Waste Type*
Small plaster chips and wood debris	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

Housekeeping Site Before Closure
(taken 07/18/2001)



Housekeeping Site After Closure
(taken 07/18/2001)

Current Site Description/Observations: This site was identified and investigated by International Technology Corp. staff on 08/24/1993. The site consisted of three small piles of plaster-like material. The three piles and miscellaneous wood debris were removed by Bechtel Nevada staff on 07/18/2001. Visual inspection of the site confirmed that Corrective Action Site 06-44-03 has been clean closed.

X No Further Action Required at Housekeeping Site

Kevin B. Campbell	Kevin B. Campbell	10/22/2001
Corrective Action Coordinator/Designee	**Signature**	**Date**

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 09/13/2001
CAS Number (if applicable): 06-44-04
CAU Number (if applicable): 392
Sector Designation: C
Housekeeping Site General Location: NTS Area 6 Fleet Operation
Elevation: 1,212 meters (m)
Northing: 4,088,770 m (UTM Zone 11) **Latitude:** 36 56 34.620
Easting: 585,390 m (UTM Zone 11) **Longitude:** 116 02 27.780

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: Take Mercury Highway north to 6-01 Road and turn right (east). Proceed to 6-05 Road and turn left (north). Continue to the north side of Building 6-623 located on the left (west) side of the road. The site is located between the salvage yard and asphalt drive, in the drainage ditch.

Waste Item(s) Originally at Site	Apparent Waste Type*
Hydrocarbon-impacted soil	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

Housekeeping Site Before Closure
(taken 08/03/2001)

Housekeeping Site After Closure
(taken 09/13/2001)

Current Site Description/Observations: This site was identified and a preliminary site assessment performed by International Technology Corp. staff on 06/30/1999. The site was a shallow drainage ditch used for dispose of cutting oils/fluids. The area of the ditch was excavated and the hydrocarbon-impacted soil disposed of in the NTS Area 6 Hydrocarbon Landfill. Closure was completed by backfilling the excavation with clean fill by Bechtel Nevada staff on 08/29/2001. Analytical results for soil verification samples confirmed that Corrective Action Site 06-44-04 has been clean closed.

X No Further Action Required at Housekeeping Site

Kevin B. Campbell Kevin B. Campbell 10/22/2001
Corrective Action Coordinator/Designee **Signature** **Date**

APPENDIX C

OFF-SITE WASTE TRANSPORT MANIFEST

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ase print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NV3890090001
Manifest Document No.: 02003
2. Page 1 of 7
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
4. Generator's Phone ( ) 702 295-8400

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: TRIAD Transport, Inc
6. US EPA ID Number: OKD981588791
C. State Transporter's ID
D. Transporter's Phone 800-324-1139

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

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
G. State Facility's ID 602-258-6155
H. Facility's Phone

11.	HM	US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ Waste Adhesives, 3, UN1133, III (D001)	1	DM	179	P	D001
b.	X	RQ Waste Flammable liquids, n.o.s. (mineral spirits), 3, UN1993, III (D001)	1	DM	425	P	D001
c.	X	RQ Waste Flammable liquids, n.o.s. (mineral spirits), 3, UN1993, II (D001)	1	DM	185	P	D001
d.	X	Waste Consumer commodity, ORM-D	1	DM	20	P	D001, D005, D008, D035, U154

J. Additional Descriptions for Materials Listed Above
A: ERG128; 01-0122; NVBNS-3015122
B: ERG128; 01-0212; NVBNS-~~3015123~~ 3013407
C: ERG128; 01-0239; NVBNS-~~3016123~~ 3013407
D: ERG171; 01-0095; NVBNS-3015124

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24-hour emergency contact # (702) 295-8400 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: Shannon Parsons-DePry | Signature: Shannon M. Parsons-DePry | Month Day Year: 12 03 01

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: BOB STEVENSON | Signature: B Stevenson | Month Day Year: 12 03 01

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

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.
Printed/Typed Name: SAMPSON TAWE | Signature: Sampson | Month Day Year: 12 04 01

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator's US EPA ID No.: NV3890090001
Manifest Document No.: 02003
22. Page 2 of 7
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
702-295-6400

L. State Manifest Document Number

M. State Generator's ID

24. Transporter ___ Company Name: TRIAD Transport, Inc.
25. US EPA ID Number: OKD981588791

N. State Transporter's ID

O. Transporter's Phone: 800-324-4430

26. Transporter ___ Company Name
27. US EPA ID Number

P. State Transporter's ID

Q. Transporter's Phone

	HM	28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	29. Containers No.	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.	X	Waste Consumer commodity, ORM-D	1	DM	160	P	D001, D005, D008, D018, D035, D040
b.	X	Waste Flammable liquids, n.o.s. (methanol, isopropyl alcohol), 3, UN1993, II	1	DM	52	P	D001, F003
c.	X	Waste Flammable liquids, n.o.s. (ethyl acetate), 3, UN1993, II	1	DM	132	P	D001, F003
d.	X	Waste Flammable liquids, n.o.s. (isopropyl alcohol), 3, UN1993, II	2	DM	130	P	D001
e.	X	RQ Waste Petroleum products, n.o.s. (benzene), 3, UN1268, II (D001)	2	DM	740	P	D001, D018
f.	X	RQ Waste Petroleum products, n.o.s. (benzene, toluene), 3, UN1268, III (D001)	1	DM	406	P	D001, D018
g.	X	Waste Combustible liquid, n.o.s. (ethyl benzene, toluene), NA1993, III	1	DM	127	P	D018
h.	X	RQ Waste Fuel, aviation, turbine engine, 3, UN1863, III (D001)	1	DM	419	P	D001, D018
i.	X	Waste Fuel, aviation, turbine engine, 3, UN1863, III	1	DM	270	P	D001, D018

S. Additional Descriptions for Materials Listed Above
A: ERG171; 02-0003; NVBNS-3015124; addl. codes U019, U075, U121, U154, U220, U228, U239
B: ERG128; 01-0115; NVBNS-3015128
C: ERG128; 01-0119; NVBNS-3015128
D: ERG128; 01-0219, 01-0220; NVBNS-3015128
E: ERG128; 01-0128, 01-0129; NVBNS-3015127

T. Handling Codes for Wastes Listed Above

32. Special Handling Instructions and Additional Information
F: ERG128; 01-0110; NVBNS-3015127
G: ERG128; 01-0130; NVBNS-~~3015127~~ D1 C9 [illegible] 12/11/01
H: ERG128; 01-0147; NVBNS-3015127
I: ERG128; 01-0131; NVBNS-3015198
24-hour emergency contact # (702) 295-6400 Certificate of destruction is required

33. Transporter ___ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

34. Transporter ___ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

35. Discrepancy Indication Space

ase print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039.

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID No. NV3890090001	Manifest Document No. 02003	22. Page 3 of 7	Information in the shaded areas is not required by Federal law.

. Generator's Name
Bechtel Nevada for U.S. DOE
P.O. Box 98521
Las Vegas, NV 89193
702-295-6400

L. State Manifest Document Number

M. State Generator's ID

24. Transporter Company Name: TRIAD Transport, Inc.
25. US EPA ID Number: OKD981588791
N. State Transporter's ID
O. Transporter's Phone 800-324-1139

. Transporter Company Name
27. US EPA ID Number
P. State Transporter's ID
Q. Transporter's Phone

	HM	US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	29. Containers No.	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.	X	Waste Isopropyl alcohol solution, 3, UN1219, II	1	DF	90	P	D001
b.	X	Hazardous waste, liquid, n.o.s. (silver), 9, NA3082, III	12	DF	498	P	D011
c.	X	Waste Flammable liquid, n.o.s. (acetone, methyl ethyl ketone), 3, UN1993, II	1	DM	409	P	D001, D007, D008, D019, D035
d.	X	Waste Combustible liquid, n.o.s., (aliphatic hydrocarbon, terpenes), NA1993, III	1	DF	106	P	D006, D021, D022, D027
e.	X	Waste Combustible liquid, n.o.s., (aliphatic hydrocarbon), NA1993, III	2	DM	438	P	D006, D007, D008
f.	X	Waste Carbon, activated, 4.2, UN1362, III	1	DF	16	P	D001
g.	X	Hazardous waste, liquid, n.o.s. (cadmium), 9, NA3082, III	1	DF	81	P	D006
h.	X	Hazardous waste, liquid, n.o.s. (chromium), 9, NA3082, III	4	DM	1903	P	D007
i.	X	Hazardous waste, liquid, n.o.s. (cadmium), 9, NA3082, III	2	DM	528	P	D006

S. Additional Descriptions for Materials Listed Above
A: ERG129; 01-0225; NVBNS-3015142
B: ERG171; 01-0124, 01-0125, 01-0240, 0241, 0242, 0243, 0244, 0245, 0246, 0247, 0248, 0249; NVBNS-3015140
C: ERG128; 01-0154; NVBNS-3015142
D: ERG128; 01-0135; NVBNS-3015143
E: ERG128; 01-0213, 01-0215; NVBNS-3015143

T. Handling Codes for Wastes Listed Above

Special Handling Instructions and Additional Information
F: ERG138; 01-0227; NVBNS-3999L
G: ERG171; 01-0143; NVBNS-3015194
H: ERG171; 01-0136, 0137, 0138; 0140; NVBNS3015194
I: ERG171; 01-0142, 01-0211; NVBNS-3015194
24-hour emergency contact # (702) 295-6400 Certificate of destruction is required

33. Transporter ____ Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

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Printed/Typed Name | Signature | Date Month Day Year

35. Discrepancy Indication Space

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	NV3890090001	02003	4 of 7	

23. Generator's Name
Bechtel Nevada for U.S. DOE
P.O. Box 93521
Las Vegas, NV 89193
702-295-8400

L. State Manifest Document Number

M. State Generator's ID

24. Transporter Company Name: TRIAD Transport, Inc.

25. US EPA ID Number: ~~OKD981588791~~

N. State Transporter's ID

O. Transporter's Phone

26. Transporter Company Name

27. US EPA ID Number

P. State Transporter's ID: ~~800-321-1139~~

Q. Transporter's Phone

	28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	29. Containers No.	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.	Hazardous waste, liquid, n.o.s. (cadmium, lead), 9, NA3082, III	X	1	DM	424	P	D006, D008
b.	Hazardous waste, liquid, n.o.s. (cadmium, chromium, lead), 9, NA3082, III	X	1	DM	412	P	D006, D007, D008
c.	RQ Waste Alcohols, flammable, toxic, n.o.s. (ethanol, methanol), 3, 6.1, UN1988, II (D001)	X	3	DM	1200	P	D001
c.	RQ Waste Alcohols, flammable, toxic, n.o.s. (ethanol, methanol), 3, 6.1, UN1986, III (D001)	X	1	DM	225	P	D001
e.	Hazardous waste, liquid, n.o.s. (lead), 9, NA3082, III	X	1	DF	530	P	D008
f.	Hazardous waste, liquid, n.o.s. (tetrachloroethene), 9, NA3082, III	X	3	DM	1050	P	F002
g.	Hazardous waste, liquid, n.o.s. (arsenic), 9, NA3082, III	X	1	DM	62	P	D004
h.	Hazardous waste, solid, n.o.s. (methylene chloride, chromium), 9, NA3077, III	X	2	DF	43	P	D007, F002, F005
i.	Hazardous waste, solid, n.o.s. (methyl ethyl ketone, toluene), 9, NA3077, III	X	1	DF	46	P	D018, F003, F005

S. Additional Descriptions for Materials Listed Above

A: ERG171; 01-0139; NVBNS-3015194
B: ERG171; 01-0198; NVBNS-3015194
C: ERG131; 01-0149; 01-0150; 01-0151; NVBNS-3015139
D: ERG131; 01-0152; NVBNS-3015189
E: ERG171; 01-0198; NVBNS-3015184

T. Handling Codes for Wastes Listed Above

32. Special Handling Instructions and Additional Information

F: ERG171; 01-0236, 01-0237, 01-0238; NVBNS-3015195
G: ERG171; 01-0220; NVBNS-3015183
H: ERG171, 01-0148, 01-0155; NVBNS-3015128
I: ERG171; 01-0210; NVBNS-3015128
24-hour emergency contact # (702) 295-8400 Certificate of destruction is required

33. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

34. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

35. Discrepancy Indication Space

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UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID No. NV3890090001	Manifest Document No. 02003	22. Page 5 of 7	Information in the shaded areas is not required by Federal law.

Generator's Name
Bechtel Nevada for U.S. DOE
P.O. Box 98521
Las Vegas, NV 89193
702-295-6400

L. State Manifest Document Number
M. State Generator's ID

24. Transporter Company Name: TRIAD Transport, Inc
25. US EPA ID Number: CKD981533791
N. State Transporter's ID
O. Transporter's Phone 909-324-1139
Transporter Company Name
27. US EPA ID Number
P. State Transporter's ID
Q. Transporter's Phone

	GEN	US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	29. Containers No.	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.	X	Hazardous waste, solid, n.o.s. (methylene chloride, xylene), 9, NA3077, III	1	DF	58	P	D007, F002, F003, F005
b.	X	Hazardous waste, solid, n.o.s. (benzene), 9, NA3077, III	4	DF	244	P	D018
	X	Hazardous waste, solid, n.o.s. (methyl ethyl ketone, toluene), 9, NA3077, III	2	DM	193	P	D007, D018, F002, F003, F005
	X	Hazardous waste, solid, n.o.s. (methyl ethyl ketone, toluene), 9, NA3077, III	1	DM	96	P	D018, F003, F005
	X	Hazardous waste, solid, n.o.s. (cadmium, chromium), 9, NA3077, III	4	DF	181	P	D006, D007
	X	Hazardous waste, solid, n.o.s. (chromium, lead), 9, NA3077, III	1	DF	34	P	D007, D008
	X	Hazardous waste, solid, n.o.s. (lead), 9, NA3077, III	1	DM	14	P	D008
	X	Waste Calcium carbide, 4.3, UN1402, II	1	DM	24	P	D003
	X	Hazardous waste, solid, n.o.s. (benzene), 9, NA3077, III	2	DF	44	P	D018

S. Additional Descriptions for Materials Listed Above
A: ERG171; 01-0214; NVBNS-3015128
B: ERG171; 01-0112, 01-0114, 01-0208, 01-0252; NVBNS-3015128
C: ERG171; 01-0109, 01-0253; NVBNS-3015128
D: ERG171; 01-0148; NVBNS-3015128
E: ERG171; 01-0132, 01-0133, 01-0250, 01-0251; NVBNS-3015130

T. Handling Codes for Wastes Listed Above

Special Handling Instructions and Additional Information
F: ERG171; 01-0208; NVBNS-3015130
G: ERG171; 01-0105; NVBNS-3015138
H: ERG138; 01-0092; NVBNS-3015186
I: ERG171; 01-0197, 01-0126; NVBNS-3015190
24-hour emergency contact # (702) 295-6400 Certificate of destruction is required

33. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

34. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

35. Discrepancy Indication Space

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Form Approved. OMB No. 2050-0039.

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID No. NV3890090001	Manifest Document No. 02003	22. Page 6 of 7	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
702-295-8400

L. State Manifest Document Number

M. State Generator's ID

24. Transporter Company Name: TRIAD Transport, Inc.

25. US EPA ID Number: OKD981588731

N. State Transporter's ID

O. Transporter's Phone: 800-324-1138

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 No.	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.	X	Hazardous waste, solid, n.o.s. (benzene), 9, NA3077, III	2	DM	140	P	D018
b.	X	Hazardous waste, solid, n.o.s. (cadmium), 9, NA3077, III	1	DF	9	P	D006
c.	X	Hazardous waste, solid, n.o.s. (chromium, lead, selenium), 9, NA3077, III	1	DM	700	P	D007, D008, D010
d.	X	Waste Oxidizing solid, corrosive, n.o.s. (chromic acid), 5.1, 8, UN3085, II	1	DF	3	P	D001, D007
e.	X	Hazardous waste, solid, n.o.s. (cadmium), 9, NA3077, III	1	DF	1	P	D006
f.	X	Hazardous waste, liquid, n.o.s. (lead), 9, NA3082, III	1	DM	2	P	D008
g.	X	Hazardous waste, solid, n.o.s. (lead), 9, NA3077, III	1	DM	300	P	D008
h.	X	Hazardous waste, solid, n.o.s. (chromium oxide), 9, NA3077, III	1	DF	11	P	D007
i.	X	Hazardous waste, solid, n.o.s. (tetrachloroethene), 9, NA3077, III	2	DM	488	P	F002

S. Additional Descriptions for Materials Listed Above
A: ERG171; 01-0144; 01-0145; NVBNS-3015190
B: ERG171; 01-0141; NVBNS-3015193
C: ERG171; 01-0207; NVBNS-3015193
D: ERG140; 01-0153; NVBNS-3015187
E: ERG171; 01-0157; NVBNS-3015185

T. Handling Codes for Wastes Listed Above

32. Special Handling Instructions and Additional Information
F: ERG171; 01-0221; NVBNS-3015191
G: ERG171; 01-0254; NVBNS-3015192
H: ERG171; 01-0098; NVBNS-3015183
I: ERG171; 01-0223, 01-0224; NVBNS-3015198
24-hour emergency contact # (702) 295-6400 Certificate of destruction is required

33. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

34. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

35. Discrepancy Indication Space

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Form Approved. OMB No. 2050-0039.

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID No. NV3890090001	Manifest Document No. 02003	22. Page 7 of 7	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
702-295-6400

L. State Manifest Document Number

M. State Generator's ID

24. Transporter Company Name: TRIAD Transport, Inc.
25. US EPA ID Number: OKD981588791

N. State Transporter's ID

O. Transporter's Phone 800-324-1133

26. Transporter Company Name
27. US EPA ID Number

P. State Transporter's ID

Q. Transporter's Phone

	HM	28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	29. Containers No.	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.	X	Waste Flammable liquids, n.o.s., 3, UN1993, I	1	DM	112	P	D001, D018, D019, D021, D022, D028
b.	X	Hazardous waste, liquid, n.o.s. (nitroglycerin solution), 9, NA3082, III	1	DF	15	P	P081
c.	X	Waste Toxic liquids, organic, n.o.s., 6.1, UN2810, II	1	DF	21	P	D005, D007, D008, D018, D019, D022
d.	X	Waste Flammable liquids, n.o.s., 3, UN1993, II	1	DM	95	P	D001
e.	X	Hazardous waste, liquid, n.o.s. 9, NA3082, III	1	DF	2	P	U069, U120, U121
f.	X	Waste Flammable liquids, toxic, n.o.s., 3, 6.1, UN1992, II	1	DF	2	P	D001, D013, D019, D022, D028, D039
g.							
h.							
i.							

S. Additional Descriptions for Materials Listed Above
A: ERG128; 01-0232; NVBNS-9999L; addl codes: D029, D035, D036, D039, D040, U002, U019, U037, U055, U076, U078, U079, U083, U154, U159, U220, U239
B: ERG171; 01-0107; NVBNS-9999L
C: ERG153; 02-0010; NVBNS-9999L; addl codes: D023, D025, D027, D036, D039, D040, U028, U044, U070, U071, U072, U080, U209, U210, U211, U225, U226, U227, U228

T. Handling Codes for Wastes Listed Above

32. Special Handling Instructions and Additional Information
D: ERG128; 01-0233; NVBNS-9999L
E: ERG171; 01-0230; NVBNS-9999L
F: ERG131; 01-0229; NVBNS-9999L; addl codes: U042, U077

24-hour emergency contact # (702) 295-6400 Certificate of destruction is required

33. Transporter ____ Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

34. Transporter ____ Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

35. Discrepancy Indication Space

GENERATOR / TRANSPORTER / FACILITY

APPENDIX D

NDEP DOCUMENT COMMENT REVIEW FORM

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NEVADA ENVIRONMENTAL RESTORATION PROJECT
DOCUMENT REVIEW SHEET

1. Document Title/Number Closure Report for Corrective Action Unit 392: Spill Sites and Construction Materials, Nevada Test Site, Nevada / DOE/NV--778
2. Document Date October 2001
3. Revision Number 0
4. Originator/Organization Bechtel Nevada ER
5. Responsible DOE/NV ERP Project Mgr. Appenzeller-Wing
6. Date Comments Due 01/09/02
7. Review Criteria FFACO
8. Reviewer/Organization/Phone No. John Wong, NDEP
9. Reviewer's Signature

10. Comment Number/ Location	11. Type[a]	12. Comment	13. Comment Response	14. Accept
P. 7 Section 2.2.2	M	Please revise/modify this section and include details pertaining to the locations (i.e., depths) and results for samples CAS061703-W1, -W2, -W3, -C1, -C2, and C3. The representativeness of the collected samples and corresponding results is not clear to NDEP (i.e., what do the samples represent, the excavated soil, the "bottom" of the pit, ...). The section should contain sufficient detail to provide justification and rationale for disposing fo the soil in the Area 9 U10C crater.	The text of section 2.2.2 has been modified to clarify where waste characterization samples were collected and the results. Table 2 showing the analytical results for the waste characterization samples and Figure 4 showing the approximate locations of the samples have been added to the Closure Report.	Yes
Appendix C	M	Please provide manifest for CAS 06-44-02 waste in Appendix C.	A complete copy of the off-sites Uniform Hazardous Waste Manifest for the shipping of the CAS 06-44-02 hazardous waste has been included in Appendix C.	Yes

[a] - Comment Types: M = Mandatory, S = Suggested.

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