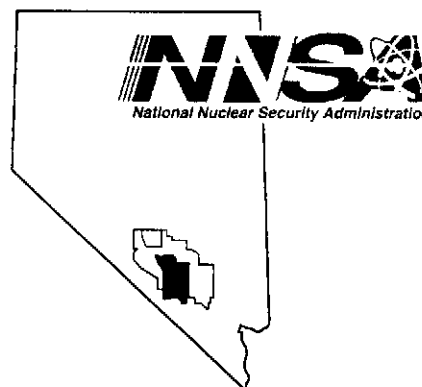


Nevada
Environmental
Restoration
Project

DOE/NV--907



Closure Report for Corrective
Action Unit 350: Miscellaneous
Housekeeping Sites, Nevada Test
Site, Nevada

UNCONTROLLED

Controlled Copy No.: _____

Revision: 0

May 2003

Environmental Restoration
Division

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

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**CLOSURE REPORT
FOR CORRECTIVE ACTION UNIT 350:
MISCELLANEOUS HOUSEKEEPING SITES,
NEVADA TEST SITE, NEVADA**

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

CONTROLLED

Controlled Copy No: _____

Revision: 0

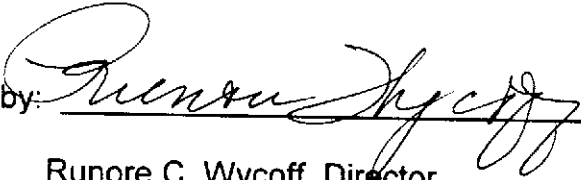
May 2003

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**CLOSURE REPORT
FOR CORRECTIVE ACTION UNIT 350:
MISCELLANEOUS HOUSEKEEPING SITES,
NEVADA TEST SITE, NEVADA**

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

Date: 5/21/03

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

Date: 5-21-03

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REVIEW SHEET

DISTRIBUTION LIST

ACRONYMS AND ABBREVIATIONS

BN	Bechtel Nevada
CAS(s)	Corrective Action Site(s)
CAU	Corrective Action Unit
COC(s)	Contaminant(s) of Concern
DOE/NV	U.S. Department of Energy, Nevada Operations Office
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration
FFACO	Federal Facility Agreement and Consent Order
mg/kg	milligram(s) per kilogram
NAC	Nevada Administrative Code
N/A	Not Applicable
NDEP	Nevada Division of Environmental Protection
NNSA/NSO	U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office
NTS	Nevada Test Site
PA	Preliminary Assessment
PCBs	polychlorinated biphenyls
PRG	Preliminary Remediation Goal
SDG	Sample Delivery Group
TPH	Total Petroleum Hydrocarbons

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EXECUTIVE SUMMARY

The eight Corrective Action Sites (CASs) included in Corrective Action Unit 350 were closed by the following actions:

- CAS 12-26-01: Clean-closed
- CAS 15-22-04: Clean-closed
- CAS 15-22-06: Clean-closed
- CAS 15-22-16: Clean-closed
- CAS 15-22-22: Clean-closed
- CAS 15-22-29: Clean-closed
- CAS 15-24-07: Clean-closed
- CAS 15-99-02: Clean-closed

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EXECUTIVE SUMMARY

The eight Corrective Action Sites (CASs) included in Corrective Action Unit 350 were closed by the following actions:

- CAS 12-26-01: Clean-closed
- CAS 15-22-04: Clean-closed
- CAS 15-22-06: Clean-closed
- CAS 15-22-16: Clean-closed
- CAS 15-22-22: Clean-closed
- CAS 15-22-29: Clean-closed
- CAS 15-24-07: Clean-closed
- CAS 15-99-02: Clean-closed

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1.0 INTRODUCTION

This Closure Report documents the closure activities conducted for Corrective Action Unit (CAU) 350: Miscellaneous Housekeeping Sites. CAU 350 is listed in Appendix III of the Federal Facility Agreement and Consent Order (FFACO) (FFACO, 1996) and consists of the following eight Corrective Action Sites (CASs) located in Areas 12 and 15 of the Nevada Test Site (NTS) (see Figure 1):

- CAS 12-26-01: Lead Shot
- CAS 15-22-04: Drums (2)
- CAS 15-22-06: Drums (10)
- CAS 15-22-16: Drums (3)
- CAS 15-22-22: Hydrocarbon Impacted Soil
- CAS 15-22-29: Drums (2)
- CAS 15-24-07: Batteries
- CAS 15-99-02: Gas Cylinder

Closure activities consisted of closing each CAS by removing debris and/or material, disposing of the generated waste, and verifying that each site was clean-closed by visual inspection and/or laboratory analysis of soil samples.

Copies of the analytical results for the site verification samples are included in Appendix A. Copies of the Sectored Housekeeping Site Closure Verification Forms for each of the eight CASs are included in Appendix B.

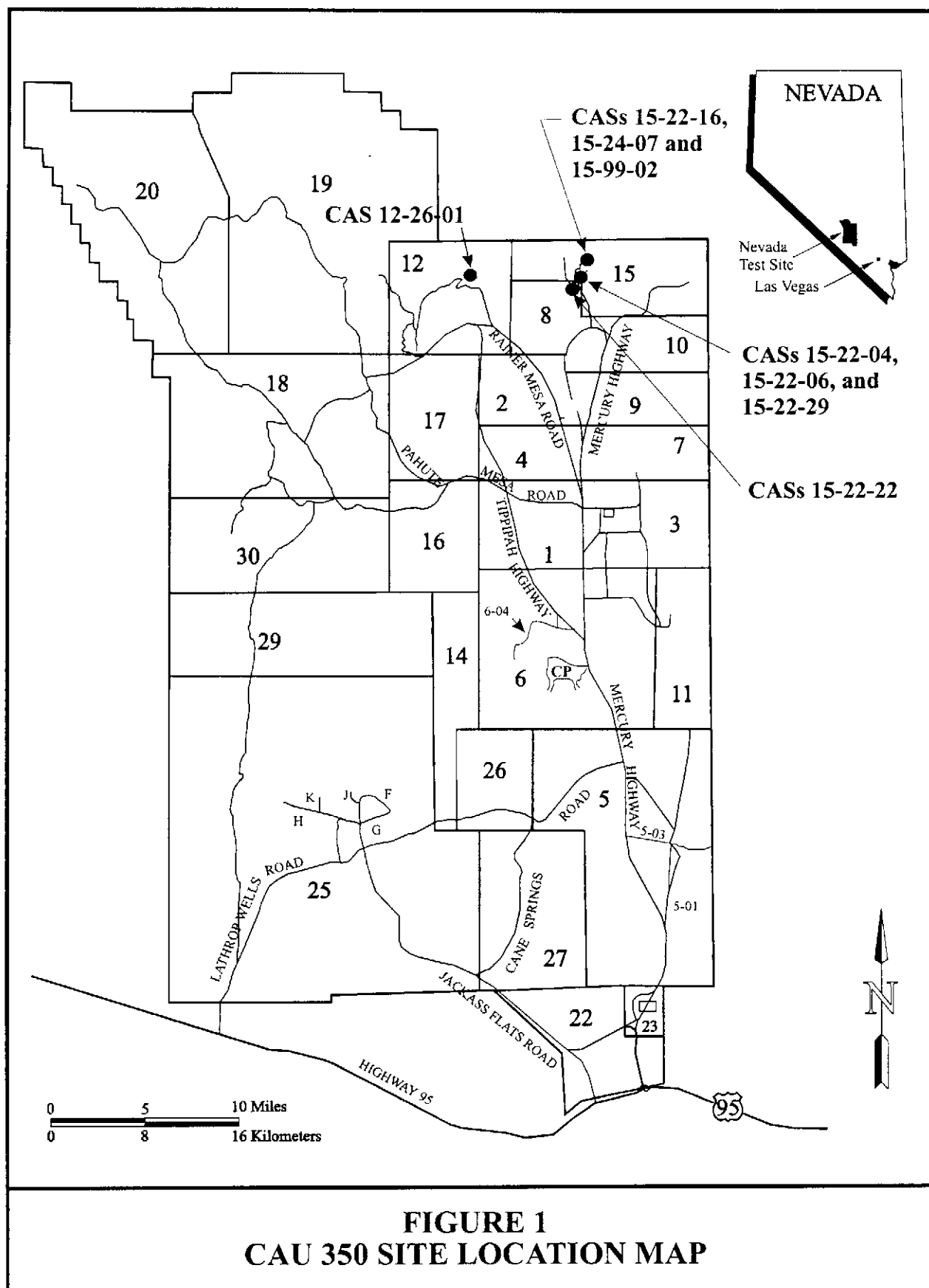


FIGURE 1
CAU 350 SITE LOCATION MAP

2.0 CLOSURE ACTIVITIES

This section details the specific corrective action activities completed during the closure of CAU 350: Miscellaneous Housekeeping Sites.

2.1 DESCRIPTION OF CLOSURE ACTIVITIES

2.1.1 Preplanning and Site Preparation

Planning documents prepared prior to the beginning of closure activities include the *Sectorized 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* (Bechtel Nevada [BN], 2000); *Site-Specific Health and Safety Plan for Corrective Action Units 176, 346, 350, 351, 352, & 523 Housekeeping Sites, Nevada Test Site, Nevada* (BN, 2003); *Site Maintenance Work Packages*; and *U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office (NNSA/NSO) Real Estate/Operation Permit*. In addition, a National Environmental Policy Act checklist was prepared. BN Environmental Restoration (ER) and Site Maintenance personnel held a pre-job field briefing on February 11, 2003 prior to the start of site-closure field activities.

2.2 WASTE CHARACTERIZATION ACTIVITIES

None of the CASs required waste characterization for disposal purposes.

2.3 SITE CLOSURE ACTIVITIES

2.3.1 CAS 12-26-01: Lead Shot

Lead shielding pellets were identified in and around a piece of equipment located near the U12k tunnel area. Seven stacked lead bricks and an intact automotive battery were located at the site. The lead materials were removed from the equipment and the ground surface and placed in 55-gallon drums for disposal as hazardous waste. The top three inches of soil were also removed and placed in a drum for disposal as hazardous waste. The battery was taken to BN Fleet Operations for recycling. Verification samples were collected from beneath the battery (122601-5), lead brick pile (122601-6), and the ground surface near the equipment where the lead pellets were located (122601-1, 122601-2, 122601-3, and 122601-4). All samples were analyzed for total lead. Analytical results indicated that total lead concentrations were below the U.S. Environmental Protection Agency (EPA) Region 9 Preliminary Remediation Goal (PRG) for industrial soils (EPA, 2002). Analytical results for the verification samples are provided in Table 1. All closure activities were documented with photographs and field notes. No further action is required at this site.

TABLE 1 - SUMMARY OF ANALYTICAL RESULTS FOR VERIFICATION SOIL SAMPLES

SAMPLE IDENTIFICATION	TOTAL LEAD	TPH DIESEL RANGE
Action Level (mg/kg)	750 ^a	100 ^b
CAS 12-26-01 - Lead Shot (Sample Delivery Group [SDG] - V1973)		
122601-1 (beneath lead brick)	8.4	N/A
122601-2 (beneath battery)	8.2	N/A
122601-3 (beneath lead shot)	7.0	N/A
122601-4 (beneath lead shot)	11.0	N/A
122601-5 (beneath lead shot)	54.4	N/A
122601-6 (beneath lead shot)	6.0	N/A
CAS 15-22-22 - Hydrocarbon Impacted Soil (SDG V1969)		
152222-1a	N/A	< 12.8
152222-1b	N/A	< 12.8

Note: All samples analyzed by U.S. Environmental Protection Agency (EPA) Method SW-846 8270 and 8260 (EPA, 1996).

See analytical reports in Appendix A for detection limits.

^aEPA Region 9 Industrial Preliminary Remediation Goals for 1996 (EPA, 2002)

^bState of Nevada Remediation Action Levels, (NAC, 2003)

N/A = Not Applicable - analysis did not apply to this sample.

mg/kg=milligram per kilogram.

TPH = Total Petroleum Hydrocarbons

2.3.2 CAS 15-22-04: Drums (2)

Several pieces of metal and wood debris were located in a depression near the Climax Hoist area. No empty drums or containers were present. The metal and wood debris were removed by BN Solid Waste Operations on February 20, 2003 and transported to the Area 9 U10c Landfill for disposal. All closure activities were documented with photographs and field notes. Clean closure of this site was verified by visual inspection; no verification samples were required or collected. No further actions are required at this site.

2.3.3 CAS 15-22-06: Drums (10)

Several pieces of metal and wood debris were located in a depression near the Climax Hoist area. No empty drums or containers were present. The metal and wood debris were removed by BN Solid Waste Operations on February 20, 2003 and transported to the Area 9 U10c Landfill for disposal. All closure activities were documented with photographs and field notes. Clean closure of this site was verified by visual inspection; no verification samples were required or collected. No further actions are required at this site.

2.3.4 CAS 15-22-16: Drums (3)

Three empty drums were located approximately 15 meters (50 feet) inside the old Climax Mine adit. The drums had been used to contain grout mix. One intact automotive battery was also located within the adit. The metal and wood debris were removed by BN Solid Waste Operations and transported to the Area 9 U10c Landfill for disposal on May 8, 2003. The battery was taken to BN Fleet Operations for recycling. All closure activities were documented with photographs and field notes. Clean closure of this site was verified by visual inspection; no verification samples were required or collected. No further action is required at this site.

2.3.5 CAS 15-22-22: Hydrocarbon Impacted Soil

Two empty cans were located at the site. Previous soil sampling results from the Preliminary Assessment (PA) indicated the presence of diesel range hydrocarbons above the Nevada State Action Level (NAC, 2003) (IT, 2002). The cans have been classified as historic materials and were not removed. However, less than one cubic yard of hydrocarbon impacted soil was removed from beneath one of the cans and was transported to the Area 6 Hydrocarbon Landfill for disposal on April 30, 2003. Samples of soil from the bottom of the excavation were field-screened for Total Petroleum Hydrocarbons (TPH) using a PetroFlag® kit. TPH field screening results indicated that hydrocarbon concentrations were less than 75 parts per million. Therefore, two verification samples (152222-1 and 152222-2) were collected and analyzed for TPH, diesel range. Analytical results from the soil samples did not exhibit TPH concentrations above the Nevada State Action Level of 100 milligrams per kilograms (mg/kg). Analytical results for the verification samples are provided in Table 1. All closure activities were documented with photographs and field notes. Clean closure of this site was verified by sample analytical results and visual inspection. No further actions are required at this site.

2.3.6 CAS 15-22-29: Drums (2)

One empty 35-gallon drum and one empty 5-gallon metal bucket were located near the Climax Hoist area. Previous soil sampling results from the PA did not indicate the presence of any Contaminants of Concern (COCs) (IT, 2002). The drums were removed by BN Solid Waste Operations on February 20, 2003 and transported to the Area 9 U10c Landfill for disposal. All closure activities were documented with photographs and field notes. Clean closure of this site was verified by visual inspection; no verification samples were required or collected. No further action is required at this site.

2.3.7 CAS 15-24-07: Batteries

Fragments of an alkaline dry cell battery pack were located outside the entrance to the old Climax Mine. The battery pieces were removed by BN Solid Waste Operations on February 20, 2003 and transported to the Area 9 U10c Landfill for disposal as non-hazardous waste. All closure activities were documented with photographs and field notes. Clean closure of this site was verified by visual inspection; no verification samples were required or collected. No further action is required at this site.

2.3.8 CAS 15-99-02: Gas Cylinder

One empty gas cylinder was located near the old Climax Mine access road. The cylinder was removed by BN Solid Waste Operations on February 20, 2003 and transported to the Area 9 U10c Landfill for disposal. All closure activities were documented with photographs and field notes. Clean closure of this site was verified by visual inspection; no verification samples were required or collected. No further action is required at this site.

3.0 WASTE DISPOSITION

Wastes generated during the closure of CAU 350: Miscellaneous Housekeeping Sites were disposed as follows:

- CAS 12-26-01: All lead shielding pellets in the equipment and on the ground and seven lead bricks were placed in two 55-gallon drums for disposal as hazardous waste.
- CAS 15-22-04: Metal and wood debris were disposed of as solid waste in the Area 9 U10c Landfill.
- CAS 15-22-06: Metal debris was disposed of as solid waste in the Area 9 U10c Landfill.
- CAS 15-22-16: Three empty drums were disposed of as solid waste in the Area 9 U10c Landfill. One intact automotive battery was taken to BN Fleet Operations for recycling.
- CAS 15-22-22: One bucket of hydrocarbon impacted soil was transported to the Area 6 Hydrocarbon Landfill for disposal.
- CAS 15-22-29: One empty 35-gallon drum and one empty 5-gallon metal bucket were disposed of as solid waste in the Area 9 U10c Landfill.
- CAS 15-24-07: Fragments of a dry cell battery pack were disposed of as solid waste in the Area 9 U10c Landfill.
- CAS 15-99-02: One empty gas cylinder was disposed of as solid waste in the Area 9 U10c Landfill.

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4.0 CLOSURE VERIFICATION

The following two CASs required verification soil sampling:

- CAS 12-26-01
- CAS 15-22-22

Samples were collected from a total of eight locations after the removal of debris and/or the removal of small amounts of soil determined by TPH field screening analytical results. 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 and maintained at less than 4 degrees Celsius. The samples were then transported under chain of custody to the BN Sample Management group in Mercury, Nevada and shipped to an off-site laboratory for analysis. The two CASs requiring verification sampling were analyzed for the following:

- CAS 12-26-01 Total Lead
- CAS 15-22-22 TPH Diesel Range

The analytical results verified that any COCs remaining in the ground at the two sites are non-detectable or below EPA Region 9 PRGs for industrial soil (EPA, 2002), and the State of Nevada action levels (Nevada Administrative Code [NAC], 2003). The analytical results for the verification samples are summarized in Table 1. Copies of 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 eight CASs in CAU 350:

- All debris (wood and scrap metal) were removed from the sites and disposed of in the Area 9 U10c Landfill.
- All empty containers (drums, cans, buckets, and containers) were disposed of in the Area 9 U10c Landfill.
- Two intact vehicle batteries were removed and transported to BN Fleet Operations to be recycled.
- Two 55-gallon drums of lead shielding pellets and lead bricks were disposed of as hazardous waste.
- Less than 0.03 cubic meters (1 cubic foot) of hydrocarbon impacted soil was disposed of in the Area 6 Hydrocarbon Landfill.

5.2 RECOMMENDATIONS

Since the closure activities for CAU 350 have been completed following the Nevada Division of Environmental Protection (NDEP)-approved *Sectorized Clean-up Work Plan for Housekeeping Category Waste Sites* (DOE/NV, 2000) as documented in this report, NNSA/NSO requests the following:

1. A Notice of Completion be provided by the NDEP to the NNSA/NSO for the closure of all CASs in CAU 350:
 - CAS 12-26-01
 - CAS 15-22-04
 - CAS 15-22-06
 - CAS 15-22-16
 - CAS 15-22-22
 - CAS 15-22-29
 - CAS 15-24-07
 - CAS 15-99-02
2. CAU 350 be moved from Appendix III to Appendix IV of the FFACO *Closed Corrective Action Units* (FFACO, 1996).

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6.0 REFERENCES

- Bechtel Nevada. 2000. Generic Field Management Plan for Housekeeping Category Waste Sites, Las Vegas, NV.
- Bechtel Nevada. 2003. Site-Specific Health and Safety Plan for Corrective Action Units 176, 346, 350, 351, 352, & 523 Housekeeping Sites, Nevada Test Site, Nevada, Las Vegas, NV.
- BN, see Bechtel Nevada.
- DOE/NV, see U.S. Department of Energy, Nevada Operations Office.
- EPA, see U.S. Environmental Protection Agency.
- FFACO, see Federal Facility Agreement and Consent Order.
- Federal Facility Agreement and Consent Order. 1996 (as amended). Agreed to by the State of Nevada, U.S. Department of Energy, and U.S. Department of Defense.
- IT, see IT Corporation.
- IT Corporation. 2002. Written communications unpublished data contained in the CAU 350 Project Files "Housekeeping Sampling Report for CAU 350 Miscellaneous Housekeeping Sites, Nevada Test Site," Las Vegas, NV.
- NAC, see Nevada Administrative Code.
- Nevada Administrative Code*. 2003. NAC 445A.2272, Contamination of Soil: Establishment of Action Levels. Carson City, NV.
- U.S. Department of Energy, Nevada Operations Office. 2000. Sectorized Clean-up Work Plan for Housekeeping Category Waste Sites, Rev. 0, DOE/NV--579, Las Vegas, NV.
- U.S. Environmental Protection Agency. 1996. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA Publication SW-846, Third Edition. Washington, D.C.
- U.S. Environmental Protection Agency. 2002. Region IX Preliminary Remediation Goals (PRGs), San Francisco, CA.

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APPENDIX A

VERIFICATION SAMPLE ANALYTICAL RESULTS

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APPENDIX A TABLE OF CONTENTS - SAMPLE ANALYTICAL RESULTS BY SAMPLE DELIVERY GROUP

Analytical results for the verification samples collected at the indicated Corrective Action Sites (CAS) for Corrective Action Unit 350 are presented in this Appendix. The analytical results are grouped by Sample Delivery Groups (SDGs), which are arranged in numerical order in this Appendix. Analytical results for the specific site can be found by consulting the indicated SDG(s).

<u>CAS</u>	<u>SDG(s)</u>
12-26-01	V1973
15-22-22	V1969

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SAMPLE DELIVERY GROUP

V1969

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ANALYTICAL LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD[illegible]

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Analytical Report

Client: BECHTEL-NEVADA V1969
LVL #: 0305L347

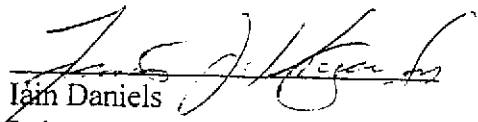
W.O. #: 60052-001-001-0001-00
Date Received: 05-06-2003

DIESEL RANGE ORGANICS

Two (2) soil samples were collected on 04-30-2003.

The samples and their associated QC samples were extracted on 05-06-2003 and analyzed according to Lionville Laboratory OPs on 05-08-2003. The extraction procedure was based on method 3540 and the extracts were analyzed based on method 8015B for Diesel Range Petroleum Hydrocarbons.

1. All results presented in this report are derived from samples that met LvLI's sample acceptance policy.
2. The required holding time for extraction and analysis has been met.
3. The method blank was below the reporting limits for all target compounds.
4. All surrogate recoveries were within acceptance criteria.
5. The blank spike recovery was within acceptance criteria.
6. The matrix spike recoveries were within EPA QC limits.
7. All initial calibrations associated with this data set were within acceptance criteria.
8. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.


Ian Daniels
Laboratory Manager

Lionville Laboratory Incorporated

5/13/03
Date

som\vr:\troup\data\dro\bechrel\0305-347.doc

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 52 pages.



GLOSSARY OF DIESEL RANGE ORGANICS DATA

DATA QUALIFIERS

- U** = Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).
- J** = Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B** = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
- E** = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- I** = Interference.

ABBREVIATIONS

- BS** = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD** = Indicates blank spike duplicate.
- MS** = Indicates matrix spike.
- MSD** = Indicates matrix spike duplicate.
- DL** = Indicates that recoveries were not obtained because the extract had to be diluted for analysis.
- NA** = Not Applicable.
- DF** = Dilution Factor.
- NR** = Not Required.
- SP** = Indicates Spiked Compound.



GLOSSARY OF DIESEL RANGE ORGANICS DATA

- D = This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- C = This flag applies to a compound that has been confirmed by GC/MS.

Lionville Laboratory, Inc.

DIESEL RANGE ORGANICS BY GC

Report Date: 05/11/03 13:18

RFW Batch Number: 0305L347

Client: BECHTEL NEVADA V1969

Work Order: 60052001001

Page: 1

Cust ID: 152222-1A 152222-1A 152222-1A 152222-1B BLK BLK BS

Sample Information
 RFW#: 001
 Matrix: SOIL
 D.F.: 1.00
 Units: mg/kg

p-Terphenyl	93	%	97	%	100	%	97	%	84	%	97	%
Diesel Range Organics	12.8	U	68	%	69	%	12.8	U	12.0	U	72	%
Motor Oil	11	J	15		20		12.8	U	12.0	U	12.0	U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

9/11/03

SAMPLE DELIVERY GROUP

V1973

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SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION		SAMPLE INFORMATION				
Project: CAU 350	BN Ord #: 8502	Send Report to: Reed Polaris	Phone: 702-295-0847	Sampling Site: CAS 12-26-01				
Charge Number: 5411 BH 40		Phone: 702-295-0847	Fax: 702-295-7761	The samples submitted contain (check):				
Project Manager: Reed Polaris/Jeff Smith		Turnaround: <input checked="" type="checkbox"/> Standard - 14 days LH, 28 days Non-rad Env, 45 Days Rad Env, (LH)		<input type="checkbox"/> Hazardous (list) -				
702-295-0847	10-295-7761	<input checked="" type="checkbox"/> Rush Preliminary by:		<input type="checkbox"/> Radioactive (list) -				
Phone:	Fax:	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 7 <input type="checkbox"/> 14 <input type="checkbox"/> 28 (Radiological Env)		<input checked="" type="checkbox"/> Unknown contaminants.				
				The information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.				
SAMPLE MANAGEMENT INFORMATION				Pay Item, Analysis, Method				
SDG: (LH) V1973	(Non-Rad Env)	(Rad Env)						
Samples submitted are associated with a signed Project SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
Analyses entered here agree with the SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
If not, identify the variation:								
Subcontract Lab(s) used for this work: LIONVILLE								
ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC MS	MSD	Pres - Analysis eg. HCl - VOCs
122601-1	5/6/03	1430	Soil	1	8 oz			-
122601-2		1430						-
122601-3		1430						-
122601-4		1430						-
122601-5		1430						-
122601-6		1430						-
LAST ITEM								
CUSTODY TRANSFER								
Sampled/Relinquished (print)	Signature	Date/Time	Received by (print)	Signature	Date/Time			
Reed Polaris	Reed Polaris	5/2/03 0816	CA Castaneda	CA Castaneda	5/7/03 0816			
CA CASTANEDA	CA Castaneda	5/7/03 0130	Food Ex #	791587818882	5/7/03 0130			
Decker	Decker	5/8/03 10:00	D. Smith	D. Smith	5/8/03 10:00			

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Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 05/12/03

CLIENT: BECHTEL NEVADA V1973
WORK ORDER: 60052-001-001-0001-00

LVL LOT #: 0305L362

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
=====	=====	=====	=====	=====	=====	=====
-001	122601-1	Lead, Total	8.4	MG/KG	3.4	1.0
-002	122601-2	Lead, Total	8.2	MG/KG	3.3	1.0
-003	122601-3	Lead, Total	7.0	MG/KG	3.5	1.0
-004	122601-4	Lead, Total	11.0	MG/KG	3.3	1.0
-005	122601-5	Lead, Total	54.4	MG/KG	3.5	1.0
-006	122601-6	Lead, Total	6.0	MG/KG	3.4	1.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 05/12/03

CLIENT: BECHTEL NEVADA V1973

LVL LOT #: 0305L362

WORK ORDER: 60052-001-001-0001-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK1	03L0256-MB1	Lead, Total	3.5	u MG/KG	3.5	1.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 05/12/03

CLIENT: BECHTEL NEVADA V1973

LVL LOT #: 0305L362

WORK ORDER: 60052-001-001-0001-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR (SPK)
-001	122601-1	Lead, Total	56.4	8.4	49.4	97.2	1.0
		Lead, Total MSD	52.9	8.4	48.4	91.9	1.0

Lionville Laboratory, Inc.

INORGANICS DUPLICATE SPIKE REPORT 05/12/03

CLIENT: BECHTEL NEVADA V1973

LVL LOT #: 0305L362

WORK ORDER: 60052-001-001-0001-00

SAMPLE	SITE ID	ANALYTE	SPIKE#1 SPIKE#2		
			%RECOV	%RECOV	%DIFF
=====	=====	=====	=====	=====	=====
-001	122601-1	Lead, Total	97.2	91.9	5.5

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 05/12/03

CLIENT: BECHTEL NEVADA V1973

LVL LOT #: 0305L362

WORK ORDER: 60052-001-001-0001-00

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR (REP)
=====	=====	=====	=====	=====	=====	=====
-001REP	122601-1	Lead, Total	8.4	9.2	9.1	1.0

Lionville Laboratory, Inc.

INORGANICS LABORATORY CONTROL STANDARDS REPORT 05/12/03

CLIENT: BECHTEL NEVADA V1973

LVL LOT #: 0305L362

WORK ORDER: 60052-001-001-0001-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	SPIKED AMOUNT	UNITS	%RECOV
-----	-----	-----	-----	-----	-----	-----
LCS1	03L0256-LC1	Lead, LCS	236	250	MG/KG	94.5

APPENDIX B

**SECTORED HOUSEKEEPING
SITE CLOSURE VERIFICATION FORMS**

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Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 5/8/03

CAU Number: 350

CAS Number: 12-26-01

CAS Description: Lead Shot

Sector Designation: NTS Sector F

Housekeeping Site General Location: Nevada Test Site, K-Tunnel

Elevation: 1,713 meters (m)

Northing: 4,119,260 m (UTM Zone: 11)

Easting: 574,581 m (UTM Zone: 11)

Latitude: 37.21866667

Longitude: -116.1594

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

Site Access Route: Take Mercury Highway north to Rainier Mesa Road. Turn left (northwest) on Rainier Mesa Road and proceed to 12-01 Road. Turn right (north) on 12-01 Road and follow the signs to the T-Tunnel portal. There is a locked barricade just as you reach the portal area. The I, J, and K-Tunnels are located on the ridge, northeast of the barricade.

Waste Item(s) Originally at Site	Apparent Waste Type*
Lead shielding pellets	Hazardous

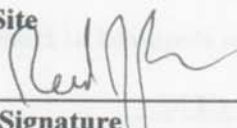
* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

	
Housekeeping Site Before Closure (taken 2/28/2003)	Housekeeping Site After Closure (taken 5/8/2003)

Current Site Description/Observations: The lead shielding pellets were removed on May 6, 2003, and disposed of as hazardous waste. The site is currently clear of all waste material.

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

Reed J. Poderis, CEM
Corrective Action Coordinator/Designee


Signature

5-22-03
Date

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 2/20/2003

CAU Number: 350

CAS Number: 15-22-04

CAS Description: Drums (2)

Sector Designation: NTS Sector F

Housekeeping Site General Location: Nevada Test Site, U15e

Elevation: 1,536 meters (m)

Northing: 4,119,876 m (UTM Zone: 11)

Easting: 583,439 m (UTM Zone: 11)

Latitude: 37.22347

Longitude: -116.05951

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

Site Access Route: Take Mercury Highway north to Rainier Mesa Road. Turn left (northwest) on Rainier Mesa Road and proceed to 2-03 Road. Turn right (north) on 2-03 Road and continue to 2-05 Road and then to Circle Road. Turn left (north) on Circle Road and proceed northeast approximately 2.9 miles to 10-02 Road. Turn left (north) on 10-02 Road and proceed to the Climax Hoist area.

Waste Item(s) Originally at Site	Apparent Waste Type*
Metal and wood debris	Ordinary

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

	
Housekeeping Site Before Closure (taken 10/10/2002)	Housekeeping Site After Closure (taken 2/20/2003)

Current Site Description/Observations: The metal and wood debris was removed by Solid Waste Operations on February 20, 2003, and transported to the Area 9 U10c Landfill for disposal. The site is currently clear of all waste material.

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

Reed J. Poderis, CEM
Corrective Action Coordinator/Designee


Signature

521-03
Date

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 2/20/2003

CAU Number: 350

CAS Number: 15-22-06

CAS Description: Drums (10)

Sector Designation: NTS Sector F

Housekeeping Site General Location: Nevada Test Site, Climax Hoist

Elevation: 1,539 meters (m)

Northing: 4,119,909 m (UTM Zone: 11)

Easting: 583,412 m (UTM Zone: 11)

Latitude: 37.22381667

Longitude: -116.0598

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

Site Access Route: Take Mercury Highway north to Rainier Mesa Road. Turn left (northwest) on Rainier Mesa Road and proceed to 2-03 Road. Turn right (north) on 2-03 Road and continue to 2-05 Road, and then to Circle Road. Turn left (north) on Circle Road and proceed northeast approximately 2.9 miles to 10-02 Road. Turn left (north) on 10-02 Road and proceed to the Climax Hoist area.

Waste Item(s) Originally at Site	Apparent Waste Type*
Scrap metal debris	Ordinary


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

	
Housekeeping Site Before Closure (taken 10/10/2002)	Housekeeping Site After Closure (taken 2/20/2003)

Current Site Description/Observations: The metal debris was removed by Solid Waste on February 20, 2003, and transported to the Area 9 U10c Landfill for disposal. The site is currently clear of all waste material.

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

Reed J. Poderis, CEM
Corrective Action Coordinator/Designee


Signature

5-21-03
Date

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 5/8/2003

CAU Number: 350

CAS Number: 15-22-16

CAS Description: Drums (3)

Sector Designation: NTS Sector F

Housekeeping Site General Location: Nevada Test Site, Old Climax Mine

Elevation: 1,691 meters (m)

Northing: 4,121,257 m (UTM Zone: 11)



Easting: 583,966 m (UTM Zone: 11)

Latitude: 37.23587

Longitude: -116.05338

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

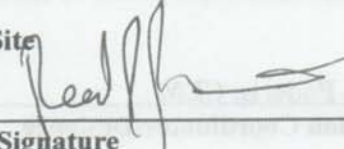
Site Access Route: Take Mercury Highway north to Rainier Mesa Road. Turn left (northwest) on Rainier Mesa Road and proceed to 2-03 Road. Turn right (north) on 2-03 Road and continue to 2-05 Road, and then to Circle Road. Turn left (north) on Circle Road and proceed northeast approximately 2.9 miles to 10-02 Road. Turn left (north) on 10-02 Road and proceed to the intersection of three roads leading to the Climax Shaft Area. Take the right fork (E Road) east 0.7 mile and turn left on D Road. At the mine shack, take the right fork north to the "15-1C" barrier. Continue to the end of the road and climb to the mine entrance.

Waste Item(s) Originally at Site	Apparent Waste Type*
Three empty drums	Ordinary
* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other	
	
Housekeeping Site Before Closure (taken 2/24/2003)	Housekeeping Site After Closure (taken 5/8/2003)

Current Site Description/Observations: The three empty drums were removed by Solid Waste on May 8, 2003, and transported to the Area 9 U10c Landfill for disposal. The site is currently clear of all waste material.

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

Reed J. Poderis, CEM
Corrective Action Coordinator/Designee


Signature

5.21-03
Date

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 5/8/2003

CAU Number: 350

CAS Number: 15-22-22

CAS Description: Hydrocarbon Impacted Soil

Sector Designation: NTS Sector F

Housekeeping Site General Location: Nevada Test Site, RSM 8 K 21

Elevation: 1,530 meters (m)

Northing: 4,119,580 m (UTM Zone: 11)

Easting: 582,688 m (UTM Zone: 11)

Latitude: 37.2209

Longitude: -116.068

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

Site Access Route: Take Mercury Highway north to Rainier Mesa Road. Turn left (northwest) on Rainier Mesa Road and proceed to 2-03 Road. Turn right (north) on 2-03 Road and continue to 2-05 Road, and then to Circle Road. Turn left (north) on Circle Road and proceed northeast approximately 2.9 miles to 10-02 Road. Turn left (north) on 10-02 Road and proceed toward the Climax Hoist. Turn left (west) on 8K Road just before the hoist, and continue 0.6 mile. The site is approximately 300 ft south of RSM 8K 20, on the east side of the road, and is approximately 75 ft south of the abandoned mine portal.

Waste Item(s) Originally at Site	Apparent Waste Type*
Fuel Cans (Designated as Historic), hydrocarbon impacted soil.	Other - Hydrocarbon Impacted Soil


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

	
Housekeeping Site Before Closure (taken 10/10/2002)	Housekeeping Site After Closure (taken 5/8/2003)

Current Site Description/Observations: The soil beneath the can was excavated and sampled. Excavated soil was transported to the Area 6 Hydrocarbon Landfill for disposal.

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

Reed J. Poderis, CEM
Corrective Action Coordinator/Designee


Signature

5-21-03
Date

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 2/20/2003

CAU Number: 350

CAS Number: 15-22-29

CAS Description: Drums (2)

Sector Designation: NTS Sector F

Housekeeping Site General Location: Nevada Test Site, Climax Hoist

Elevation: 1,542 meters (m)

Northing: 4,119,988 m (UTM Zone: 11)

Easting: 583,571 m (UTM Zone: 11)

Latitude: 37.2245

Longitude: -116.058

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

Site Access Route: Take Mercury Highway north to Rainier Mesa Road. Turn left (northwest) on Rainier Mesa Road and proceed to 2-03 Road. Turn right (north) on 2-03 Road and continue to 2-05 Road, and then to Circle Road. Turn left (north) on Circle Road and proceed northeast approximately 2.9 miles to 10-02 Road. Turn left (north) on 10-02 Road and proceed to the Climax Hoist area. The drums are at the base of the embankment for the two aboveground storage tanks.

Waste Item(s) Originally at Site	Apparent Waste Type*
Two empty small metal drums	Ordinary

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

			
Housekeeping Site Before Closure (taken 10/10/2002)		Housekeeping Site After Closure (taken 2/20/2003)	

Current Site Description/Observations: The two empty drums were removed by Solid Waste on February 20, 2003, and transported to the Area 9 U10c Landfill for disposal. The site is currently clear of all waste material.

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

Reed J. Poderis, CEM
Corrective Action Coordinator/Designee


Signature

5-21-03
Date

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 2/20/2003

CAU Number: 350

CAS Number: 15-24-07

CAS Description: Batteries

Sector Designation: NTS Sector F

Housekeeping Site General Location: Nevada Test Site, Old Climax Mine

Elevation: 1,688 meters (m)

Northing: 4,121,146 m (UTM Zone: 11)

Easting: 583,967 m (UTM Zone: 11)

Latitude: 37.23576667

Longitude: -116.0534333

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

Site Access Route: Take Mercury Highway north to Rainier Mesa Road. Turn left (northwest) on Rainier Mesa Road and proceed to 2-03 Road. Turn right (north) on 2-03 Road and continue to 2-05 Road, and then to Circle Road. Turn left (north) on Circle Road and proceed northeast approximately 2.9 miles to 10-02 Road. Turn left (north) on 10-02 Road and proceed to the intersection of three roads leading to the Climax shaft area. Take the right fork (E Road) east 0.7 mile and turn left on D Road. At the mine shack, take the right fork north to the 15-1C Barrier. Continue to the end of the road and climb to the mine entrance.

Waste Item(s) Originally at Site	Apparent Waste Type*
Dry cell battery fragments	Ordinary

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

	
Housekeeping Site Before Closure (taken 10/10/2002)	Housekeeping Site After Closure (taken 2/20/2003)

Current Site Description/Observations: The dry cell battery fragments were removed by Solid Waste on February 20, 2003, and transported to the Area 9 U10c Landfill for disposal. The site is currently clear of all waste material.

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

Reed J. Poderis, CEM
Corrective Action Coordinator/Designee


Signature

5-21-03
Date

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 2/20/2003

CAU Number: 350

CAS Number: 15-99-02

CAS Description: Gas Cylinder

Sector Designation: NTS Sector F

Housekeeping Site General Location: Nevada Test Site, Old Climax Mine

Elevation: 1,682 meters (m)

Northing: 4,121,191 m (UTM Zone: 11)

Easting: 583,985 m (UTM Zone: 11)

Latitude: 37.2353

Longitude: -116.0532

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

Site Access Route: Take Mercury Highway north to Rainier Mesa Road. Turn left (northwest) on Rainier Mesa Road and proceed to 2-03 Road. Turn right (north) on 2-03 Road and continue to 2-05 Road, and then to Circle Road. Turn left (north) on Circle Road and proceed northeast approximately 2.9 miles to 10-02 Road. Turn left (north) on 10-02 Road and proceed to the intersection of three roads leading to the Climax Shaft area. Take the right fork (E Road) east 0.7 mile and turn left on D Road. At the mine shack, take the right fork north to the 15-1C Barrier and proceed to RSM 15D20. Go back down the road approximately 100 ft and climb up the slope behind two large brown boulders, approximately 50 ft.

Waste Item(s) Originally at Site	Apparent Waste Type*
Empty gas cylinder	Ordinary

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



Housekeeping Site Before Closure
(taken 10/10/2002)



Housekeeping Site After Closure
(taken 2/20/2003)

Current Site Description/Observations: The empty cylinder was removed by Solid Waste on February 20, 2003, and transported to the Area 9 U10c Landfill for disposal. The site is currently clear of all waste material.

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

Reed J. Poderis, CEM

Corrective Action Coordinator/Designee


Signature

5-21-03

Date

APPENDIX C

NEVADA ENVIRONMENTAL RESTORATION PROJECT DOCUMENT REVIEW SHEET

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NEVADA ENVIRONMENTAL RESTORATION PROJECT

DOCUMENT REVIEW SHEET

1. Document Title/Number <u>Closure Report for Corrective Action Unit 350: Miscellaneous Housekeeping Sites Nevada Test Site, Nevada</u>				2. Document Date <u>May 2003</u>	
3. Revision Number <u>0</u>				4. Originator/Organization <u>Bechtel Nevada</u>	
5. Responsible NNSA/NV ERP Project Mgr. <u>Janet Appenzeller-Wing</u>				6. Date Comments Due _____	
7. Review Criteria <u>Federal Facility Agreement and Consent Order</u>					
8. Reviewer/Organization/Phone No. _____				9. Reviewer's Signature _____	

10. Comment Number/ Location	11. Type ^a	12. Comment	13. Comment Response	14. Accept

^aComment Types: M = Mandatory, S = Suggested.

10. Comment Number/ Location	11. Type ^a	12. Comment	13. Comment Response	14. Accept

^aComment Types: M = Mandatory, S = Suggested.

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