

Nevada  
Environmental  
Restoration  
Project

DOE/NV--1157



Post-Closure Inspection Report for  
Corrective Action Unit 333: U-3auS  
Disposal Site, Nevada Test Site,  
Nevada

For the Period July 2005-June 2006

Controlled Copy No.: \_\_\_\_\_

Revision: 0

August 2006

Environmental Restoration  
Project



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

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**POST-CLOSURE INSPECTION REPORT  
FOR CORRECTIVE ACTION UNIT 333:  
U-3auS DISPOSAL SITE,  
NEVADA TEST SITE, NEVADA**

**FOR THE PERIOD  
JULY 2005-JUNE 2006**


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

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FOR CORRECTIVE ACTION UNIT 333:  
U-3auS DISPOSAL SITE,  
NEVADA TEST SITE, NEVADA**

**FOR THE PERIOD  
JULY 2005-JUNE 2006**

Approved by:   
Kevin J. Cabbie  
Federal Sub-Project Director  
Environmental Restoration Project

Date: 8/10/06

Approved by:   
Janet Appenzeller-Wing  
Federal Project Director  
Environmental Restoration Project

Date: 8/11/06

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**TABLE OF CONTENTS**

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1.0 INTRODUCTION ..... 1

2.0 INSPECTION RESULTS ..... 1

3.0 CONCLUSIONS AND RECOMMENDATIONS ..... 1

**APPENDICIES**

APPENDIX A. POST CLOSURE INSPECTION CHECKLISTS

APPENDIX B. FIELD NOTES

APPENDIX C. INSPECTION PHOTOGRAPHS

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## 1.0 INTRODUCTION

Corrective Action Unit (CAU) 333, U-3auS Disposal Site, is a closed construction landfill located in Area 3 of the Nevada Test Site (NTS). The closure of this site was approved by the Nevada Division of Environmental Protection (NDEP) in a letter to the U.S. Department of Energy, National Nuclear Security Administration Nevada Operations Office (NNSA/NV) dated June 27, 2001. Post-closure requirements are described in a letter from NNSA/NV to NDEP dated October 9, 2001, and were approved by the NDEP in a letter dated November 5, 2001.

Post-closure care consists of the following:

- Annual inspection of the site as documented on an inspection checklist
- Photographic documentation of site conditions
- Field note documentation
- Minor site maintenance, as necessary
- Preparation and submittal of an annual report

This report covers the period July 2005 through June 2006 and consists of copies of the inspection checklist and field notes, repair records (if any), photographs, and recommendations and conclusions. The post-closure inspection checklist is provided in Appendix A, a copy of the field notes is found in Appendix B, and a copy of the inspection photographs is provided in Appendix C.

## 2.0 INSPECTION RESULTS

The last CAU 333 Post-Closure Inspection Report (*Post-Closure Inspection Report for Corrective Action Unit 333: U-3auS Disposal Site Annual Report, Nevada Test Site, Nevada, DOE/NV--929*) noted no abnormal conditions, and recommended continued scheduled site inspections.

The annual inspection of CAU 333 was performed on March 23, 2006. The fence, warning signs, and site monuments were in excellent condition. Large tumbleweed build up was found on both the inside and outside of the fence. The overall site condition was excellent. Site conditions were documented on a site inspection checklist and associated site photographs were taken (Appendices A and C, respectively). Field notes made during this site inspection are included in Appendix B.

## 3.0 CONCLUSIONS AND RECOMMENDATIONS

As stated in a letter dated September 20, 2004, NDEP approved reducing the frequency of post-closure inspections at CAU 333 to that of other inactive NTS landfills. Therefore, future post-closure inspections will no longer be performed annually, but every 5 years hereafter (2011, 2016, etc.)

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# **APPENDIX A**

## **POST-CLOSURE INSPECTION CHECKLISTS**

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**CAU 333: U-3AUS DISPOSAL SITE, POST-CLOSURE INSPECTION CHECKLIST**

Inspection Date and Time: 3/23/06 10:37a.m

Responsible Agency: Bechtel Nevada Environmental Restoration

Address: Nevada Test Site, Mercury, Nevada

Responsible Agency Official: Jeffrey L. Smith, Project Manager

Chief Inspector: Glenn Richardson

Title: Task Manager

Organization: Environmental Restoration

Assistant Inspector: Brian Konrad

Title: Deputy Field Ops. Mgr.

Organization: Environmental Restoration

**A. GENERAL INSTRUCTIONS**

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site perimeter to be able to inspect the entire surface and all features specifically described in this checklist.
4. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.

**B. PREPARATION (To be completed prior to site visit)**

YES

NO

EXPLANATION

1. Has the Post-Closure Permit been reviewed?

X

2. Have the previous inspection reports been reviewed?

X

a. Were anomalies or trends detected on previous inspections?

X

b. Was maintenance performed?

X

3. Have the site maintenance and repair records been reviewed?

X

**C. SITE INSPECTION PREPARATION**

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

**D. SITE INSPECTION**

YES

NO

EXPLANATION

1. Adjacent off-site features:

a. Have there been any changes in the use of the adjacent area?

X

b. Are there any new roads or trails?

X

c. Has there been any change in the position of nearby washes?

X

d. Has there been lateral excursion or erosion/deposition of nearby washes?

X

e. Are there new drainage channels?

X

f. Has there been a change in the surrounding vegetation?

X

## CAU 333: U-3AUS DISPOSAL SITE, POST-CLOSURE INSPECTION CHECKLIST

## 2. Access roads, fences, gates, and signs:

- |  |                                     |   |  |
|--|-------------------------------------|---|--|
| a. Is there a break in the fence?  | <input checked="" type="checkbox"/> | X |  |
| b. Have any posts been damaged or their anchoring weakened?                    | <input checked="" type="checkbox"/> | X |  |
| c. Does the gate show evidence of tampering or damage?                         | <input checked="" type="checkbox"/> | X |  |
| d. Was the gate locked?  | <input checked="" type="checkbox"/> | X |  |
| e. Is there any evidence of human intrusion onto the site?                     | <input checked="" type="checkbox"/> | X |  |
| f. Is there any evidence of large animal intrusion onto the site?              | <input checked="" type="checkbox"/> | X |  |
| g. Have any signs been damaged or removed?<br>(Number of signs replaced: ____) | <input checked="" type="checkbox"/> | X |  |
| h. Other? Buildup of tumbleweeds along the fence                               | <input checked="" type="checkbox"/> | X | Excessive tumbleweed buildup along the fence, but is not interfering with access roads |

## 3. Monuments and other permanent features:

- |  |                                     |   |  |
|--|-------------------------------------|---|--|
| a. Have boundary monuments been disturbed?                               | <input checked="" type="checkbox"/> | X |  |
| b. Do natural processes threaten the integrity of any boundary monument? | <input checked="" type="checkbox"/> | X |  |
| c. Is there excessive vegetation around the boundary monuments?          | <input checked="" type="checkbox"/> | X |  |
| d. Other?  | <input checked="" type="checkbox"/> | X |  |

## E. FIELD CONCLUSIONS

- |   |                                     |   |  |
|---|-------------------------------------|---|--|
| 1. Is there an imminent hazard to the integrity of the unit?<br>(Immediate report required) | <input checked="" type="checkbox"/> | X |  |
|---|-------------------------------------|---|--|

Person/Agency to whom report was made:

- |  |                                     |   |  |
|--|-------------------------------------|---|--|
| 2. Are more frequent inspections required? | <input checked="" type="checkbox"/> | X |  |
|--|-------------------------------------|---|--|

- |  |                                     |   |  |
|--|-------------------------------------|---|--|
| 3. Are existing maintenance/repair actions satisfactory? | <input checked="" type="checkbox"/> | X |  |
|--|-------------------------------------|---|--|

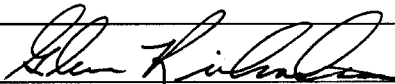
- |   |                                     |   |  |
|---|-------------------------------------|---|--|
| 4. Is other maintenance/repair necessary? | <input checked="" type="checkbox"/> | X |  |
|---|-------------------------------------|---|--|

5. Field conclusions/recommendations: The access gate and fencing was found secure, locked, and in good condition. No issues were observed with the signs and monuments. An excessive amount of tumbleweeds was found along the inside and outside of the fence; however, the road path around the landfill remained accessible for vehicles.

## F. CERTIFICATION

I have conducted an inspection of CAU 333, U-3auS, in accordance with the procedures of the Post-Closure Plan as recorded on this checklist, attached sheets, and field notes.

Chief Inspector's Signature:



Date:

3/23/06

Printed Name:

Glenn Richardson

Title:

Task Manager

## **APPENDIX B**

### **FIELD NOTES**

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rk continued from Page 3/23/06

RCRA Inspection

Personnel:  
T.M. Glenn Richardson  
+ L. Brian Konrad

No Equip

Weather - Mid 50's, clear, no wind

Scope: Quarterly Inspection (CAU 110, 112, 92)  
Annual Inspection - Final CAU 333

7:25- Arrived at A3 site. checked in  
at site trailer. Began inspection  
of Ax/BZ (CAU 110).

- Photos 1- Center Facing N  
" 2 " " E  
3 " " S  
4 " " W  
5 N edge Facing S.

Several small animal burrows observed  
around perimeter of tower.

Subsidence previously repair on N side  
holding no further sign of subsidence

Photo 6 E edge Facing W  
Vegetation in good condition

9:56. Subsidence repair on E side  
of cover holding no sign  
of new subsidence.

TDR in good condition

Subsidence of South side of  
Cover repair holding, no further  
sign of subsidence.

Photo 7 South Edge Facing N.

Photo 8 West Edge Facing E.

10:05 left site.

10:20 Arrived at CAU 91

- All signs, fencing, Gate, Monument  
in good conditions. Gate was  
locked.

Photo 1 Center Facing N

2 " " E

3 " " S

4 " " W

5 South Side Facing N

6 North Side Facing S

7 Outside Facing N

8 " " E

9 " " S

10. " " W

1031 left site

SIGNATURE

DATE

3/23/04

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

10:37 - Arrived at CAU 333

fence locked

Photo 1 N Edge Facing S

" 2 W " Facing E

" 3 S " Facing N

" 4 E Edge Facing W

large tumbleweed buildup <sup>3/23/06</sup> inside and outside of fence.

10:46 - left site.

11:05 Arrived at CAU 92

Gate locked on in good condition

signs up and in good condition, no

signs of erosion or ponding.

Photo 1 Outside looking N

2 " " E

3 " " S

4 " " W

5 " " N

6 Inside looking N

7 " " E

8 " " S

9 " " W

No vegetation site looks good.

11:21 left site.

SIGNATURE

DATE

3/22/06

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

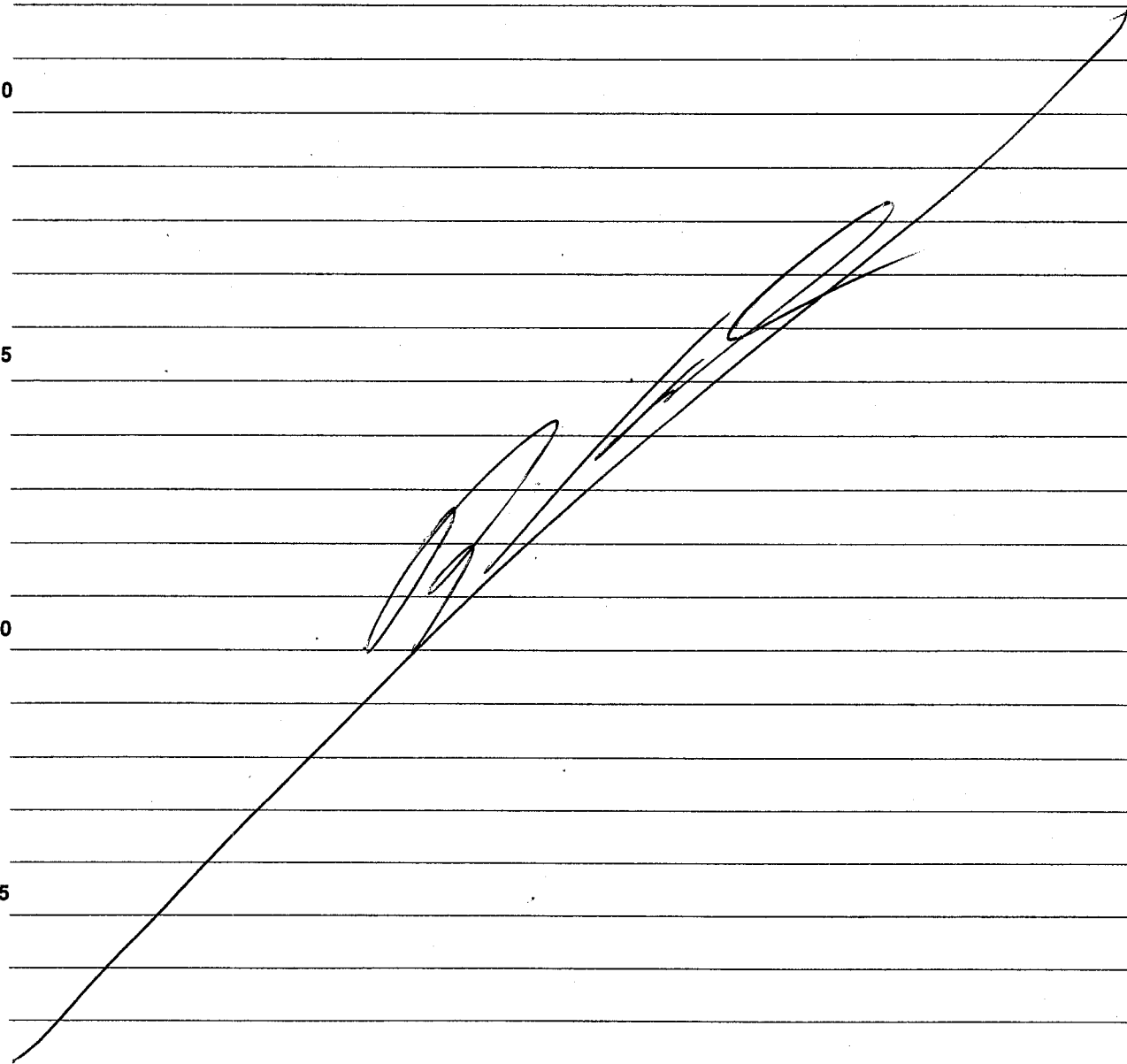
1151 Arrived at CAU 112


Site in good condition

No signs of erosion or ponding

5 Riprap in good condition, signs  
are all CP. No vegetation growing  
on or around rip rap.

1210 - left site



SIGNATURE 		DATE <u>3/23/06</u>	
DISCLOSED TO AND UNDERSTOOD BY	DATE	WITNESS	DATE

## **APPENDIX C**

### **INSPECTION PHOTOGRAPHS**

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## PHOTOGRAPH LOG

PHOTOGRAPH NUMBER	DATE	DESCRIPTION
1	03/23/2006	View from north edge looking south.
2	03/23/2006	View from west edge looking east.
3	03/23/2006	View from south edge looking north.
4	03/23/2006	View from east edge looking west.

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3/23/2006

1



3/23/2006

2



3/23/2006

3



3/23/2006

4

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