Nevada
Environmental
Restoration
Project

DOE/NV--1438

Post-Closure Report for Closed
*Resource Conservation and
Recovery Act* Corrective Action
Units, Nevada National Security
Site, Nevada

For Fiscal Year 2010
(October 2009–September 2010)

Controlled Copy No.: _____

Revision: 0

January 2011

Environmental Restoration
Project

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

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**POST-CLOSURE REPORT FOR CLOSED
RESOURCE CONSERVATION AND RECOVERY ACT
CORRECTIVE ACTION UNITS,
NEVADA NATIONAL SECURITY SITE, NEVADA**

**FOR FISCAL YEAR 2010
(OCTOBER 2009–SEPTEMBER 2010)**

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

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CORRECTIVE ACTION UNITS,
NEVADA NATIONAL SECURITY SITE, NEVADA**

**FOR FISCAL YEAR 2010
(OCTOBER 2009–SEPTEMBER 2010)**

Approved By: /s/: Kevin Cabble
Kevin J. Cabble
Federal Sub-Project Director
Industrial Sites Sub-Project

Date: 1-13-11

Approved By: /s/: Robert F. Boehlecke
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Federal Project Director
Environmental Restoration Project

Date: 1-13-11

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ACRONYMS AND ABBREVIATIONS

CAU	Corrective Action Unit
FFACO	<i>Federal Facility Agreement and Consent Order</i>
ft	foot (feet)
in.	inch(es)
NDEP	Nevada Division of Environmental Protection
SM	subsidence marker
TDR	Time Domain Reflectometry

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EXECUTIVE SUMMARY

This report serves as the combined annual report for post-closure activities for the following closed Corrective Action Units (CAUs):

- CAU 90, Area 2 Bitcutter Containment
- CAU 91, Area 3 U-3fi Injection Well
- CAU 92, Area 6 Decon Pond Facility
- CAU 110, Area 3 WMD U-3ax/bl Crater
- CAU 112, Area 23 Hazardous Waste Trenches

The locations of the sites are shown in Figure 1. This report covers fiscal year 2010 (October 2009–September 2010). The post-closure requirements for these sites are described in *Resource Conservation and Recovery Act* Permit Number NEV HW0021 and summarized in each CAU-specific section in Section 1.0 of this report.

Site inspections are conducted semiannually at CAUs 90 and 91 and quarterly at CAUs 92, 110, and 112. Additional inspections are conducted at CAU 92 if precipitation occurs in excess of 0.50 inches in a 24-hour period. Inspections include an evaluation of the condition of the units and identification of any deficiencies that may compromise the integrity of the units. The condition of covers, fencing, signs, gates, and locks is documented. In addition, soil moisture monitoring and subsidence surveys are conducted at CAU 110. The results of the inspections, summary of maintenance activities, results of vegetations surveys, and analysis of monitoring data are presented in this report.

Copies of the inspection checklists are included as Appendix A. Field notes completed during each inspection are included in Appendix B. Photographs taken during the site inspections are included in Appendix C.

FIGURE 1
LOCATIONS OF CLOSED *RESOURCE CONSERVATION*
***AND RECOVERY ACT* CORRECTIVE ACTION SITES**

1.0 SUMMARY OF INSPECTIONS, REPAIRS, AND MAINTENANCE

1.1 CORRECTIVE ACTION UNIT 90, AREA 2 BITCUTTER CONTAINMENT

1.1.1 Permit Requirements

Semiannual inspections are required at Corrective Action Unit (CAU) 90 to evaluate the condition of the unit and identify deficiencies that may compromise the unit's integrity. Photographs are taken, and the results of the inspection are documented on a checklist. Deficiencies other than general housekeeping issues are reported to the Nevada Division of Environmental Protection (NDEP) and remedied within 60 days of discovery.

1.1.2 Inspection, Repair, and Maintenance Activities

Semiannual inspections were performed on December 15, 2009, and June 23, 2010. During both inspections, the signs and fencing were in good condition, and there was no evidence of settling or cracking. No issues were identified, and no maintenance or repairs were required.

1.2 CORRECTIVE ACTION UNIT 91, AREA 3 U-3FI INJECTION WELL

1.2.1 Permit Requirements

Semiannual inspections are required at CAU 91 to evaluate the condition of the unit and identify deficiencies that may compromise the unit's integrity. Photographs are taken, and the results of the inspection are documented on a checklist. The permit does not specify a time limit for repairs or maintenance at CAU 91.

1.2.2 Inspection, Repair, and Maintenance Activities

Semiannual inspections were performed on March 17 and September 8, 2010. During the March inspection, the signs and fencing were in good condition, and there was no evidence of settling, animal burrowing, or vegetation on the cover. No issues were identified, and no maintenance or repairs were required. During the September inspection, vegetation was noted on the cover, and vegetation removal was recommended. Signs and fencing were in good condition, and there was no evidence of settling or animal burrowing. Vegetation removal activities were completed within 60 days and will be reported in the next annual report. No other issues were identified.

1.3 CORRECTIVE ACTION UNIT 92, AREA 6 DECON POND FACILITY

1.3.1 Permit Requirements

Inspections are required quarterly at CAU 92 and in the event that precipitation occurs in excess of 0.50 inches (in.) in a 24-hour period. Inspections include an evaluation of the cover and identification of deficiencies that may compromise the unit's integrity. Photographs are taken, and the results of the inspection are documented on a checklist. The checklist documents the reason for the inspection (i.e., quarterly or excess precipitation) and any changes in the condition of the cover or fenced area, including, but not limited to, trash or debris within the fenced area, erosion of the cover, vegetation growing on the cover, and animal burrows or nesting activity.

The condition of the fencing, wave barrier (fiberglass slats laced through the bottom of the chain-link fencing), use restriction warning signs, entrance gate, and lock is also documented. Small cracks or settling imperfections (less than 2 in. deep) on the cover are documented, and repairs are scheduled on an annual basis. Larger disruptions of the cover are immediately reported to NDEP and remedied within 60 days of discovery.

1.3.2 Inspection, Repair, and Maintenance Activities

Quarterly inspections were performed on December 15, 2009, and on March 17, June 23, and September 8, 2010. During the September 2009 inspection, vegetation was noted on the perimeter of the cover. Vegetation removal activities were completed on November 18, 2009. During the December inspection, standing water was noted outside the north and southeast edges of the cover, but no standing water was observed on the cover. Damage to the wave barrier was noted, and repair was recommended. The signs and fencing were in good condition, and no evidence of settling, cracking, or vegetation was observed on the cover. No other issues were identified. Wave barrier repair activities were completed on February 1, 2010.

On January 17–21, 2010, 2.62 in. of precipitation were recorded, and an inspection was conducted on January 25, 2010. During the inspection, standing water was noted outside the north, south, and southwest edges of the cover, but no standing water was observed on the cover. The signs, fencing, and wave barriers were in good condition, and no evidence of settling, cracking, or vegetation was observed on the cover. No issues were identified, and no maintenance or repairs were required.

During the March inspection, standing water was noted outside the north and southwest edges of the cover, but no standing water was observed on the cover. The signs, fencing, and wave barriers were in good condition, and no evidence of settling, cracking, or vegetation was observed on the cover. No issues were identified, and no maintenance or repairs were required.

During the June inspection, it was noted that the fence required repair. Damage to the wave barrier was noted, and repair was recommended. Vegetation was observed on the cover, and vegetation removal was recommended. The signs were in good condition, and no evidence of settling or cracking was observed. No other issues were identified. Fence and wave barrier repair and vegetation removal activities were completed on August 5, 2010.

During the September inspection, the signs, fencing, and wave barriers were in good condition, and no evidence of settling or cracking was observed. Vegetation was noted on the cover, and vegetation removal was recommended. Vegetation removal activities were completed within 60 days and will be reported in the next annual report. No other issues were identified.

1.4 CORRECTIVE ACTION UNIT 110, AREA 3 WMD U-3AX/BL CRATER

1.4.1 Permit Requirements

Quarterly inspections are required at CAU 110 to verify that the cover is intact. Photographs are taken, and the results of the inspection are documented on a checklist. The perimeter of the site is walked by the inspector, and the condition of the fencing and chicken wire, use restriction warning signs, and entrance gate and lock is documented. In addition, the seven subsidence markers (SMs) are inspected, and any changes in the condition of the cover, including, but not limited to, trash or debris within the fenced area, erosion of the cover, and animal burrows or nesting activity, are documented. Non-critical cracks or settling imperfections (equal to or less

than 6 in. deep) on the cover are documented, and repairs are scheduled on an annual basis. Cracks or settling imperfections greater than 6 in. deep that extend 3 feet (ft) or more are reported to NDEP and repaired within 60 days of discovery.

1.4.2 Inspection, Repair, and Maintenance Activities

Quarterly inspections were performed on December 15, 2009, and on March 17, June 23, and September 8, 2010. During the September 2009 inspection, one sign was down that was required to be re-hung. The sign was re-hung on November 18, 2009. During the December inspection, animal burrows, evidence of settling, and subsidence cracks greater than 6 in. deep that extended 3–8 ft were observed. The signs and fencing were in good condition, and the vegetation appeared to be in good condition. No other issues were identified. Backfilling of animal burrows and subsidence repair activities were completed on January 28, 2010.

During the March inspection, the signs and fencing were in good condition, and no evidence of significant animal burrowing was observed on the cover. No evidence of settling or cracking was observed. The vegetation appeared to be in good condition. Vegetation had been reseeded on the east portion of the cover in February 2010, and the new vegetation was protected with temporary fencing. No issues were identified, and no maintenance or repairs were required.

During the June inspection, the signs and fencing were in good condition, and no evidence of significant animal burrowing was observed on the cover. No evidence of settling or cracking was observed. The vegetation appeared to be in good condition. No issues were identified, and no maintenance or repairs were required. As a best management practice, the outer perimeter snow fence was recommended for repair.

During the September inspection, the fencing was in good condition, and no evidence of significant animal burrowing was observed on the cover. No evidence of settling or cracking was observed. The vegetation appeared to be in good condition. Radiological warning signs were noted to be loose, and repair was recommended. Sign maintenance were completed within 60 days and will be reported in the next annual report. No other issues were identified.

1.5 CORRECTIVE ACTION UNIT 112, AREA 23 HAZARDOUS WASTE TRENCHES

1.5.1 Permit Requirements

Quarterly inspections are required at CAU 112 to evaluate the condition of the unit and identify deficiencies that may compromise the unit's integrity. The results of the inspection are documented on a checklist. The permit does not specify a time limit for repairs or maintenance at CAU 112.

1.5.2 Inspection, Repair, and Maintenance Activities

Quarterly inspections were performed on December 15, 2009, and on March 17, June 23, and September 8, 2010. During the December inspection, the signs and fencing were in good condition, and no evidence of settling, cracking, or animal burrowing was observed. Vegetation was observed on the cover, and vegetation removal was recommended. No other issues were identified. Vegetation removal activities were completed on January 28, 2010.

During the March inspection, the signs and fencing were in good condition, and no evidence of settling, cracking, or animal burrowing was observed. A minor amount of vegetation was

observed that did not require follow-up actions. No issues were identified, and no maintenance or repairs were required.

During the June inspection, the signs and fencing were in good condition, and no evidence of settling, cracking, or animal burrowing was observed. Vegetation was observed on the cover, and vegetation removal was recommended. No other issues were identified. Vegetation removal activities were completed on August 3, 2010.

During the September inspection, the signs and fencing were in good condition, and no evidence of settling, cracking, vegetation, or animal burrowing was observed. No issues were identified, and no maintenance or repairs were required.

2.0 CORRECTIVE ACTION UNIT 110 SUBSIDENCE AND VEGETATION SURVEY RESULTS

2.1 SUBSIDENCE SURVEY

Seven SMs are installed on the cover of CAU 110 to determine if subsidence of the cover is occurring. The initial baseline subsidence survey was conducted on December 14, 2000. Subsequent surveys are conducted twice per year and are compared to the December 2000 baseline survey results. Subsidence surveys were completed on March 24 and September 8, 2010.

The subsidence survey results are tabulated in Table 1. No significant subsidence was observed. SM #5 shows the greatest decrease in elevation (-0.10 ft) compared to the baseline survey in 2000. Calculated subsidence values are negligible and near the resolution of the survey instruments. This indicates that subsidence is not occurring on the cover.

2.2 VEGETATION SURVEY

The CAU 110 cover was initially planted with native seed in December 2000. Surveys have been conducted annually to assess the success of the revegetation effort. The vegetation survey was completed on May 17, 2010. The plant community on the cover is characterized by a combination of native perennial shrubs and annual forbs. Weedy species are occasionally present but make up a small percentage of total plant cover. Even though plant cover and density have declined from 5 years ago, a viable perennial plant community persists. There does not appear to be a need for remedial revegetation. The perennial grasses may re-establish on the closure cover with favorable growing conditions.

TABLE 1. CORRECTIVE ACTION UNIT 110 SUBSIDENCE SURVEY RESULTS

DATE	SM #1	SM #2	SM #3	SM #4	SM #5	SM #6	SM #7
	Elevation at Top of Subsidence Marker ¹						
	Subsidence Since December 2000 Baseline Survey (ft)						
December 2000 Baseline	4,021.84	4,021.28	4,019.83	4,020.99	4,021.87	4,019.25	4,020.52
	—	—	—	—	—	—	—
July 2001	4,021.83	4,021.28	4,019.83	4,020.98	4,021.86	4,019.24	4,020.51
	-0.01	0.00	0.00	-0.01	-0.01	-0.01	-0.01
January 2002	4,021.84	4,021.28	4,019.83	4,020.98	4,021.86	4,019.24	4,020.51
	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
September 2002	4,021.83	4,021.27	4,019.83	4,020.98	4,021.86	4,019.24	4,020.50
	-0.01	-0.01	0.00	-0.01	-0.01	-0.01	-0.02
January 2003	4,021.83	4,021.27	4,019.83	4,020.98	4,021.86	4,019.24	4,020.50
	-0.01	-0.01	0.00	-0.01	-0.01	-0.01	-0.02
July 2003	4,021.83	4,021.27	4,019.83	4,020.97	4,021.85	4,019.24	4,020.50
	-0.01	-0.01	0.00	-0.02	-0.02	-0.01	-0.02
March 2004	4,021.82	4,021.26	4,019.82	4,020.97	4,021.83	4,019.22	4,020.49
	-0.02	-0.02	-0.01	-0.02	-0.04	-0.03	-0.03
September 2004	4,021.82	4,021.26	4,019.82	4,020.96	4,021.83	4,019.23	4,020.49
	-0.02	-0.02	-0.01	-0.03	-0.04	-0.02	-0.03
March 2005	4,021.82	4,021.26	4,019.82	4,020.96	4,021.82	4,019.22	4,020.49
	-0.02	-0.02	-0.01	-0.03	-0.05	-0.03	-0.03
September 2005	4,021.82	4,021.26	4,019.82	4,020.97	4,021.82	4,019.23	4,020.49
	-0.02	-0.02	-0.01	-0.02	-0.05	-0.02	-0.03

TABLE 1. CORRECTIVE ACTION UNIT 110 SUBSIDENCE SURVEY RESULTS, CONTINUED

DATE	SM #1	SM #2	SM #3	SM #4	SM #5	SM #6	SM #7
	Elevation at Top of Subsidence Marker ¹						
	Subsidence Since December 2000 Baseline Survey (ft)						
March 2006	4,021.82	4,021.26	4,019.82	4,020.96	4,021.82	4,019.23	4,020.49
	-0.02	-0.02	-0.01	-0.03	-0.05	-0.02	-0.03
September 2006	4,021.82	4,021.25	4,019.82	4,020.96	4,021.81	4,019.22	4,020.49
	-0.02	-0.03	-0.01	-0.03	-0.06	-0.03	-0.03
March 2007	4,021.82	4,021.25	4,019.82	4,020.96	4,021.80	4,019.22	4,020.48
	-0.02	-0.03	-0.01	-0.03	-0.07	-0.03	-0.04
September 2007	4,021.81	4,021.25	4,019.81	4,020.96	4,021.79	4,019.22	4,020.49
	-0.03	-0.03	-0.02	-0.03	-0.08	-0.03	-0.03
March 2008	4,021.81	4,021.25	4,019.81	4,020.95	4,021.79	4,019.22	4,020.48
	-0.03	-0.03	-0.02	-0.04	-0.08	-0.03	-0.04
September 2008	4,021.81	4,021.25	4,019.81	4,020.95	4,021.78	4,019.21	4,020.48
	-0.03	-0.03	-0.02	-0.04	-0.09	-0.04	-0.04
March 2009	4,021.81	4,021.24	4,019.81	4,020.95	4,021.78	4,019.21	4,020.48
	-0.03	-0.04	-0.02	-0.04	-0.09	-0.04	-0.04
September 2009	4,021.81	4,021.24	4,019.80	4,020.95	4,021.77	4,019.22	4,020.48
	-0.03	-0.04	-0.03	-0.04	-0.10	-0.03	-0.04
March 2010	4,021.81	4,021.24	4,019.80	4,020.95	4,021.77	4,019.21	4,020.48
	-0.03	-0.04	-0.03	-0.04	-0.10	-0.04	-0.04
September 2010	4,021.81	4,021.24	4,019.80	4,020.95	4,021.77	4,019.21	4,020.48
	-0.03	-0.04	-0.03	-0.04	-0.10	-0.04	-0.04

¹ Elevations based on North American Vertical Datum of 1929 in ft.

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3.0 CORRECTIVE ACTION UNIT 110 SOIL MOISTURE MONITORING RESULTS

The CAU 110 cover is designed to prevent infiltration into the disposal unit. The cover performance is monitored using Time Domain Reflectometry (TDR) soil water content sensors buried within the waste cover. The TDR probes are buried at depths of 1 to 8 ft below ground surface at 1-ft intervals. The TDR probes are installed at a distance of 165 ft from the edge of the cover. Arrays of eight probes are positioned at four locations across the cover. Figure 2 illustrates the locations of TDR probes on the cover. Moisture content data from the TDR probes are recorded on a daily basis and stored on a data logger. The data are transmitted via radio frequency and downloaded on a quarterly basis.

Precipitation data were collected from meteorological station Buster Jangle Y, located approximately 3 miles northwest of CAU 110. The precipitation data are presented in Figure 3. Graphs of the TDR-derived soil moisture content profiles, combined with the daily precipitation values, are presented in Figures 4 through 7.

Soil moisture results obtained to date indicate that the CAU 110 cover is functioning as designed. Shallow soil moisture content is variable and dependent on precipitation events and the ability of shallow root systems and evapotranspiration to remove moisture from the soil. The ability for these systems to remove moisture can be locally inhibited if animal burrowing and grazing on plants affects the root systems; therefore, small mammals are being trapped and relocated from the cover to limit this damage.

Soil moisture contents for the TDR nests at depth are generally between 9 and 15 percent volumetric moisture content, depending on the location of the nest. Some locations show greater annual variability in moisture content; however, each location appears to have equilibrated to a consistent state for that location.

In the post-closure report for fiscal year 2009, the following compliance criterion was proposed and accepted by NDEP:

- The averaged water content of the three deepest TDR probes (6 ft, 7 ft, and 8 ft) is greater than 32 percent volumetric moisture content for a continuous 6-month period.

Using conservative assumptions for the soil properties, 32 percent volumetric moisture content equates to 80 percent saturation of the soil. If the average volumetric moisture content of the three deepest TDR probes (6 ft, 7 ft, and 8 ft) exceeds 32 percent for a continuous 6-month period, the compliance criterion has been exceeded. If this occurs, NDEP will be notified, and a path forward will be proposed.

The action level is illustrated on Figures 4 through 7. The action level was not exceeded.

FIGURE 2
TIME DOMAIN REFLECTOMETRY LOCATIONS

FIGURE 3
PRECIPITATION DATA FOR METEOROLOGICAL
STATION BUSTER JANGLE Y

FIGURE 4
EAST TDR NEST A SOIL MOISTURE CONTENT PROFILE

FIGURE 5
EAST TDR NEST B SOIL MOISTURE CONTENT PROFILE

FIGURE 6
WEST TDR NEST A SOIL MOISTURE CONTENT PROFILE

FIGURE 7
WEST TDR NEST B SOIL MOISTURE CONTENT PROFILE

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4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 CORRECTIVE ACTION UNIT 90, AREA 2 BITCUTTER CONTAINMENT

Semiannual inspections were performed on December 15, 2009, and June 23, 2010. During the last inspection, no maintenance or repairs were required. It is recommended to continue semiannual inspections.

4.2 CORRECTIVE ACTION UNIT 91, AREA 3 U-3FI INJECTION WELL

Semiannual inspections were performed on March 17 and September 8, 2010. During the last inspection, vegetation was noted on the cover. Vegetation removal activities will be completed within 60 days and reported in the next annual report. No additional maintenance or repairs were required. It is recommended to continue semiannual inspections.

4.3 CORRECTIVE ACTION UNIT 92, AREA 6 DECON POND FACILITY

Quarterly inspections were performed on December 15, 2009, and on March 17, June 23, and September 8, 2010. An inspection was performed on January 25, 2010, after a precipitation event in excess of 0.50 in. occurred. During the last inspection, vegetation was noted on the cover. Vegetation removal activities will be completed within 60 days and reported in the next annual report. No additional maintenance or repairs were required. It is recommended to continue quarterly inspections.

4.4 CORRECTIVE ACTION UNIT 110, AREA 3 WMD U-3AX/BL CRATER

Quarterly inspections were performed on December 15, 2009, and on March 17, June 23, and September 8, 2010. During the last inspection, radiological warning signs were noted to be loose. Sign maintenance will be completed within 60 days and reported in the next annual report. No additional maintenance or repairs were required.

Subsidence survey results indicate that no significant subsidence of the cover is occurring. Soil moisture results obtained to date indicate that the cover is functioning as designed, and the action level was not exceeded.

The following actions are recommended for CAU 110:

- Continue quarterly inspections
- Continue semiannual subsidence surveys
- Continue to annually monitor the vegetation

4.5 CORRECTIVE ACTION UNIT 112, AREA 23 HAZARDOUS WASTE TRENCHES

Quarterly inspections were performed on December 15, 2009, and on March 17, June 23, and September 8, 2010. During the last inspection, no maintenance or repairs were required. It is recommended to continue quarterly inspections.

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APPENDIX A.

INSPECTION CHECKLISTS

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CORRECTIVE ACTION UNIT 90 INSPECTION CHECKLISTS

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POST-CLOSURE INSPECTION CHECKLIST**CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)**Inspection Date and Time: 12/15/09 9:40 AMReason for Inspection: Semi-AnnualDate of Last Post-Closure Inspection: 6/17/09Reason for Last Post-Closure Inspection: Semi-Annual

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: Glenn RichardsonTitle: Task Manager

Organization: Environmental Restoration

Assistant Inspector: Greg DoyleTitle: Sr. Scientist

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 90 dated 2/15/2008).
- All documentation must be legible and clear.

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

YES NO EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?

✓

2. Has the Post-Closure Permit application been reviewed?

✓

3. Has the Post-Closure Plan been reviewed?

✓

4. Have the site as-built plans and site base map been reviewed?

✓

5. Have the previous inspection reports been reviewed?

✓

a. Were anomalies or trends detected on previous inspections?

✓

b. Was maintenance performed?

✓

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

✓

a. If so, has site repair resulted in a change from as-built conditions?

NA

b. If yes (to 6a), are revised as-built plans available that reflect repair changes?

NA

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

POST-CLOSURE INSPECTION CHECKLIST**CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)****D. SITE INSPECTION**

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?	☒	☐	
2. Fences, gates, and signs (East Fenced Enclosure):	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?	☒	☐	
b. Have any fenceposts been damaged or their anchoring weakened?	☒	☐	
c. Is the gate intact and functional?	☐	☒	
d. Does the gate show evidence of tampering or damage?	☒	☐	
e. Was the gate locked?	☒	☐	
f. Are any of the use restriction signs damaged or missing?	☒	☐	
g. Are all use restriction signs legible?	☒	☐	
h. How many use restriction signs need to be replaced?	0		
i. Other?	☒	☐	NA
3. Waste unit cover (East Fenced Enclosure):	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there evidence of settling?	☒	☐	
b. Is there evidence of cracking?	☒	☐	
c. Is there evidence of erosion (wind or water)?	☒	☐	
d. Is there evidence of human intrusion onto the cover?	☒	☐	
e. Is there evidence of large animal intrusion onto the cover?	☒	☐	
f. Is there evidence of animal burrowing?	☒	☐	
g. Is vegetation growing on the cover?	☒	☐	
h. Other (including trash, debris, etc within fenced area)?	☒	☐	NA

POST-CLOSURE INSPECTION CHECKLIST**CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)**

4. Fences, gates, and signs (West Fenced Enclosure):	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Have any fenceposts been damaged or their anchoring weakened?		✓	
c. Is the gate intact and functional?	✓		
d. Does the gate show evidence of tampering or damage?		✓	
e. Was the gate locked?	✓		
f. Are any of the use restriction signs damaged or missing?		✓	
g. Are all use restriction signs legible?	✓		
h. How many use restriction signs need to be replaced?	0		
i. Other?			NA ✓

5. Waste unit cover (West Fenced Enclosure):	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is vegetation growing on the cover?		✓	
h. Other (including trash, debris, etc within fenced area)?		✓	NA ✓

6. Photograph Instructions:

- A standard set of color photographs is required. Six photographs must be taken during each inspection of CAU 90:
 - Three (3) of the west unit from outside the fence, one in each compass direction (i.e., N, S, E) and
 - Three (3) of the east unit from outside the fence, one in each compass direction (i.e., N, S, W).
- In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed.
- Additional photographs may also be taken.
- A photograph log entry will be made for each photograph taken.

7. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have all photographs been taken as required by the photograph instructions?	✓		
b. Has a photograph log been prepared?	✓		
c. How many photographs were taken?	6		
d. Other?			NA ✓

POST-CLOSURE INSPECTION CHECKLIST

CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)

E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?	☐	☒	
2. Are previous maintenance/repair actions satisfactory?	☒	☐	
3. Are there any deficiencies that require a remedy other than general housekeeping (i.e., "minor") repairs?	☐	☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
4. Will necessary repairs change the as-built condition of the unit?	☐	☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Field conclusions/recommendations: <i>The UR signs and fencing were in excellent condition. There was no evidence of intrusion or animal burrowing. Also, there was no evidence of new vegetation growth within the fenced area or around the concrete monument pad. There are no follow-up actions required at this site.</i>			

F. CERTIFICATION

I have conducted an inspection of CAU 90, Area 2 Bitcutter Containment, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: */s/ Glenn Richardson* Date: *12/15/09*
 Printed Name: *Glenn Richardson* Title: *Task Manager*

Required Attachments:

- Field Notes (if any)
- Photos (or note File Location: *S:\NTS\ER Share\Photos\CAU 90\2009\12-15-2009 CAU 90 Inspection*)

Distribution: Original – Industrial Sites Project Manager
 Copy – Task Manager

G. VERIFICATION

I have reviewed this checklist and attachments and have verified that it is complete.

Signature: */s/ Reed Poderis* Date: *12/21/2009*
 Printed Name: *Thomas A. Thiele (or designee)*

Distribution: Original – Task Manager

POST-CLOSURE INSPECTION CHECKLIST

CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)
CAS 02-20-03: Wastewater Pit

Inspection Date and Time: 6/23/10 10:15

Reason for Inspection: Semi-Annual

Date of Last Post-Closure Inspection: 3/17/10

Reason for Last Post-Closure Inspection: Semi-annual

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: Glenn Richardson - TMS Manager

Title:

Organization: Environmental Restoration

Assistant Inspector: Dudley Eno

Title:

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 90 dated 2/15/2008).
- All documentation must be legible and clear.

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

YES

NO

EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?

✓

2. Has the Post-Closure Permit application been reviewed?

✓

3. Has the Post-Closure Plan been reviewed?

✓

4. Have the site as-built plans and site base map been reviewed?

✓

5. Have the previous inspection reports been reviewed?

✓

a. Were anomalies or trends detected on previous inspections?

✓

b. Was maintenance performed?

✓

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

✓

a. If so, has site repair resulted in a change from as-built conditions?

NA

b. If yes (to 6a), are revised as-built plans available that reflect repair changes?

NA

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

POST-CLOSURE INSPECTION CHECKLIST

CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)
CAS 02-20-03: Wastewater Pit

D. SITE INSPECTION

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?	☒	☐	
2. Fences, gates, and signs (East Fenced Enclosure):	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?	☒	☐	
b. Have any fenceposts been damaged or their anchoring weakened?	☒	☐	
c. Is the gate intact and functional?	☐	☒	
d. Does the gate show evidence of tampering or damage?	☒	☐	
e. Was the gate locked?	☐	☒	
f. Are any of the use restriction signs damaged or missing?	☒	☐	
g. Are all use restriction signs legible?	☐	☒	
h. How many use restriction signs need to be replaced?		0	
i. Other?	☒		NA
3. Waste unit cover (East Fenced Enclosure):	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there evidence of settling?	☒	☐	
b. Is there evidence of cracking?	☒	☐	
c. Is there evidence of erosion (wind or water)?	☒	☐	
d. Is there evidence of human intrusion onto the cover?	☒	☐	
e. Is there evidence of large animal intrusion onto the cover?	☒	☐	
f. Is there evidence of animal burrowing?	☒	☐	
g. Is vegetation growing on the cover?	☒	☐	
h. Other (including trash, debris, etc within fenced area)?	☒		NA

POST-CLOSURE INSPECTION CHECKLIST

CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)
CAS 02-20-03: Wastewater Pit

4. Fences, gates, and signs (West Fenced Enclosure):	YES	NO	EXPLANATION (required if shaded box is checked)	
a. Is there damage to or a break in the fence?	☒	☐		
b. Have any fenceposts been damaged or their anchoring weakened?	☒	☐		
c. Is the gate intact and functional?	☐	☒		
d. Does the gate show evidence of tampering or damage?	☒	☐		
e. Was the gate locked?	☐	☒		
f. Are any of the use restriction signs damaged or missing?	☒	☐		
g. Are all use restriction signs legible?	☐	☒		
h. How many use restriction signs need to be replaced?	0			
i. Other?	☒	☐	NA	
5. Waste unit cover (West Fenced Enclosure):	YES	NO	EXPLANATION (required if shaded box is checked)	
a. Is there evidence of settling?	☒	☐		
b. Is there evidence of cracking?	☒	☐		
c. Is there evidence of erosion (wind or water)?	☒	☐		
d. Is there evidence of human intrusion onto the cover?	☒	☐		
e. Is there evidence of large animal intrusion onto the cover?	☒	☐		
f. Is there evidence of animal burrowing?	☒	☐		
g. Is vegetation growing on the cover?	☒	☐		
h. Other (including trash, debris, etc within fenced area)?	☒	☐	NA	
6. Photograph Instructions:				
<ul style="list-style-type: none"> A standard set of color photographs is required. Six photographs must be taken during each inspection of CAU 90: <ul style="list-style-type: none"> - Three (3) of the west unit from outside the fence, one in each compass direction (i.e., N, S, E) and - Three (3) of the east unit from outside the fence, one in each compass direction (i.e., N, S, W). In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. Additional photographs may also be taken. A photograph log entry will be made for each photograph taken. 				
7. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)	
a. Have all photographs been taken as required by the photograph instructions?	☐	☒		
b. Has a photograph log been prepared?	☐	☒		
c. How many photographs were taken?	6			
d. Other?	☒	☐	NA	

POST-CLOSURE INSPECTION CHECKLIST

CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Biteutter/PS Inj. Wells (3) (RCRA)
CAS 02-20-03: Wastewater Pit

E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		☒	
2. Are previous maintenance/repair actions satisfactory?	☒		
3. Are there any deficiencies that require a remedy other than general housekeeping (i.e., "minor") repairs?		☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
4. Will necessary repairs change the as-built condition of the unit?		☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Field conclusions/recommendations: <u>Site is in Good Condition No Issues noted.</u>			

F. CERTIFICATION

I have conducted an inspection of CAU 90, Area 2 Bitcutter Containment, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/ Glenn Richardson

Date: 6/23/10

Printed Name: Glenn Richardson

Title: Task Manager

Required Attachments:

1. Field Notes (if any)
2. Photos (or note File Location: S:\NTS\ER Share\photos\CAU 090\2010\6-23-2010 CAU 90 inspection)

Distribution: Original – Industrial Sites Project Manager
Copy – Task Manager

G. VERIFICATION

I have reviewed this checklist and attachments and have verified that it is complete.

Signature: /s/ Reed Poderis

Date: 7/26/10

Printed Name: Thomas A. Thiele (or designee)

Distribution: Original – Task Manager

CORRECTIVE ACTION UNIT 91 INSPECTION CHECKLISTS

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POST-CLOSURE INSPECTION CHECKLIST**CAU 91: AREA 3 U-3fi INJECTION WELL - CAS 03-20-03: UD-6 and UD-6s Disposal Holes**Inspection Date and Time: 3/17/10 10:25AMReason for Inspection: Semi-AnnualDate of Last Post-Closure Inspection: 9/23/09Reason for Last Post-Closure Inspection: Semi-Annual

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: Glenn RichardsonTitle: Task Manager

Organization: Environmental Restoration

Assistant Inspector: Dudley EmerTitle: Sr. Scientist

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 91 dated 2/15/2008).
- All documentation must be legible and clear.

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

YES

NO

EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?

☒☐

2. Has the Post-Closure Permit application been reviewed?

☒☐

3. Has the Post-Closure Plan been reviewed?

☒☐

4. Have the site as-built plans and site base map been reviewed?

☒☐

5. Have the previous inspection reports been reviewed?

☒☐

a. Were anomalies or trends detected on previous inspections?

☐☒

b. Was maintenance performed?

☐☒

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

☒☐

a. If so, has site repair resulted in a change from as-built conditions?

☐☒

NA

b. If yes (to 6a), are revised as-built plans available that reflect repair changes?

☐☐

NA

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

POST-CLOSURE INSPECTION CHECKLIST

CAU 91: AREA 3 U-3fi INJECTION WELL - CAS 03-20-03: UD-6 and UD-6s Disposal Holes

D. SITE INSPECTION

- *The site inspection is a walking inspection of the entire site (i.e., the area within 1,000 feet of U-3fi and ER-3-3), including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist. The checklist should be completed during the site inspection. Every monument, site marker, sign, monitoring well access, and erosion control marker will be inspected.*
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fences, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Have any fence posts been damaged or their anchoring weakened?		✓	
c. Is the gate intact and functional?	✓		
d. Does the gate show evidence of tampering or damage?		✓	
e. Was the gate locked?	✓		
f. Are any of the use restriction signs damaged or missing?		✓	
g. Are all use restriction signs legible?	✓		
h. How many use restriction signs need to be replaced?		0	
i. Other?			NA ✓
3. Waste unit cover:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is vegetation growing on the cover?		✓	
h. Other (including trash, debris, etc within fenced area)?		✓	NA

POST-CLOSURE INSPECTION CHECKLIST

CAU 91: AREA 3 U-3fi INJECTION WELL - CAS 03-20-03: UD-6 and UD-6s Disposal Holes

4. Photograph Instructions:

- A standard set of ten (10) color photographs is required to be taken during each inspection of CAU 91:
 - Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W)
 - Four (4) of the unit from outside the fence, one in each compass direction
 - Two (2) of the ER3-3 monitoring well surface with compass directions (N and S) noted on the photograph log
- In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed.
- Additional photographs may also be taken.
- A photograph log entry will be made for each photograph taken.

5. Photograph Documentation:

YES	NO	EXPLANATION (required if shaded box is checked)
☒	☐	
☒	☐	
☐	☐	10
☐	☐	NA ☒

E. FIELD CONCLUSIONS

YES	NO	EXPLANATION (required if shaded box is checked)
☐	☒	
☒	☐	
☐	☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
☐	☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
☐	☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
☐	☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)

7. Field conclusions/recommendations: *All UR signage and chain-link fencing are in excellent condition. There is no evidence of damage to the aboveground monument. There is no presence of vegetation growth on the soil cover or surrounding the concrete pad. There are no issues or concerns at this site.*

POST-CLOSURE INSPECTION CHECKLIST

CAU 91: AREA 3 U-3fi INJECTION WELL - CAS 03-20-03: UD-6 and UD-6s Disposal Holes

F. CERTIFICATION

I have conducted an inspection of CAU 91, Area 3 U-3fi Injection Well, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/: Glenn Richardson

Date: 3/17/10

Printed Name: Glenn Richardson

Title: Task Manager

Required Attachments:

1. Field Notes (if any)
2. Photos (or note File Location: S:\NTS\ER Share\Photos\CAU 091\2010\03-17-2010 inspection)

Distribution: Original – Industrial Sites Project Manager
Copy – Task Manager

G. VERIFICATION

I have reviewed this checklist and attachments and have verified that it is complete.

Signature: /s/: Reed Poderis

Date: 4/20/10

Printed Name: Thomas A. Thiele (or designee)

Distribution: Original – Task Manager

POST-CLOSURE INSPECTION CHECKLIST

CAU 91: AREA 3 U-3fi INJECTION WELL - CAS 03-20-03: UD-6 and UD-6s Disposal Holes

Inspection Date and Time: 9/8/10 10:25 AM

Reason for Inspection: Semi-Annual

Date of Last Post-Closure Inspection: 3/17/10

Reason for Last Post-Closure Inspection: Semi-Annual

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: Glenn Richardson

Title: Task Manager

Organization: Environmental Restoration

Assistant Inspector: None

Title: —

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 91 dated 2/15/2008).
- All documentation must be legible and clear.

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

YES NO EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?

✓

2. Has the Post-Closure Permit application been reviewed?

✓

3. Has the Post-Closure Plan been reviewed?

✓

4. Have the site as-built plans and site base map been reviewed?

✓

5. Have the previous inspection reports been reviewed?

✓

a. Were anomalies or trends detected on previous inspections?

✓

b. Was maintenance performed?

✓

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

✓

a. If so, has site repair resulted in a change from as-built conditions?

✓

NA

b. If yes (to 6a), are revised as-built plans available that reflect repair changes?

✓

NA

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

POST-CLOSURE INSPECTION CHECKLIST

CAU 91: AREA 3 U-3fi INJECTION WELL - CAS 03-20-03: UD-6 and UD-6s Disposal Holes

D. SITE INSPECTION

- *The site inspection is a walking inspection of the entire site (i.e., the area within 1,000 feet of U-3fi and ER-3-3), including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist. The checklist should be completed during the site inspection. Every monument, site marker, sign, monitoring well access, and erosion control marker will be inspected.*
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fences, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Have any fence posts been damaged or their anchoring weakened?		✓	
c. Is the gate intact and functional?	✓		
d. Does the gate show evidence of tampering or damage?		✓	
e. Was the gate locked?	✓		
f. Are any of the use restriction signs damaged or missing?		✓	
g. Are all use restriction signs legible?	✓		
h. How many use restriction signs need to be replaced?		0	
i. Other?			NA ✓
3. Waste unit cover:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is vegetation growing on the cover?	✓		Vegetation has grown on the cover and around the concrete pad.
h. Other (including trash, debris, etc within fenced area)?		✓	NA

POST-CLOSURE INSPECTION CHECKLIST

CAU 91: AREA 3 U-3fi INJECTION WELL - CAS 03-20-03: UD-6 and UD-6s Disposal Holes

4. Photograph Instructions:

- A standard set of ten (10) color photographs is required to be taken during each inspection of CAU 91:
 - Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W)
 - Four (4) of the unit from outside the fence, one in each compass direction
 - Two (2) of the ER3-3 monitoring well surface with compass directions (N and S) noted on the photograph log
- In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed.
- Additional photographs may also be taken.
- A photograph log entry will be made for each photograph taken.

5. Photograph Documentation:

- a. Have all photographs been taken as required by the photograph instructions?
- b. Has a photograph log been prepared?
- c. How many photographs were taken?
- d. Other?

YES	NO	EXPLANATION (required if shaded box is checked)
☒	☐	
☒	☐	
	12	
☐	☐	NA ☒

E. FIELD CONCLUSIONS

YES NO EXPLANATION (required if shaded box is checked)

1. Are more frequent inspections required? ☐ YES ☒ NO
2. Are existing maintenance/repair actions satisfactory? ☒ YES ☐ NO
3. Are general housekeeping (i.e., "minor") maintenance/repair actions needed? ☒ YES ☐ NO If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
4. Are there any deficiencies that require a remedy other than general housekeeping (i.e., "minor") repairs? ☐ YES ☒ NO If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Will necessary repairs change the as-built condition of the unit? ☐ YES ☒ NO If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
6. Were there any indications of surface or subsurface subsidence or settling? ☐ YES ☒ NO If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)

7. Field conclusions/recommendations: *The use restriction signage and chain-link fencing are in excellent condition. There is no evidence of animal burrowing, subsidence, or settling. A significant amount of vegetation had grown on the cover and around the concrete pad. Vegetation removal is necessary within the regulatory period to remain in compliance. In addition, an herbicide application may be used.*

POST-CLOSURE INSPECTION CHECKLIST

CAU 91: AREA 3 U-3fi INJECTION WELL - CAS 03-20-03: UD-6 and UD-6s Disposal Holes

F. CERTIFICATION

I have conducted an inspection of CAU 91, Area 3 U-3fi Injection Well, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/: Glenn Richardson	Date: 9/8/10
Printed Name: Glenn Richardson	Title: Task Manager

Required Attachments:

1. Field Notes (if any)
2. Photos (or note File Location: S:\NTS\ER Share\Photos\CAU 092\2010\09-08-2010 Inspection)

Distribution: Original – Industrial Sites Project Manager
Copy – Task Manager

G. VERIFICATION

I have reviewed this checklist and attachments and have verified that it is complete.

Signature: /s/: Reed Poderis	Date: 10/5/10
Printed Name: Thomas A. Whiele (or designee)	

Distribution: Original – Task Manager

CORRECTIVE ACTION UNIT 92 INSPECTION CHECKLISTS

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Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)**Inspection Date and Time: 12/15/09 11:15 AMReason for Inspection: QuarterlyDate of Last Post-Closure Inspection: 7/23/09Reason for Last Post-Closure Inspection: QuarterlyDate of Last Rain Event: 8/4/08Quantity of Rainfall in that event: 0.73 inches

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: Glenn RichardsonTitle: Task Manager

Organization: Environmental Restoration

Assistant Inspector: Greg DoyleTitle: Sr. Scientist

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 92 dated 2/15/2008).
- All documentation must be legible and clear.

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

YES NO EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?

☒☐

2. Has the Post-Closure Permit application been reviewed?

☒☐

3. Has the Post-Closure Plan been reviewed?

☒☐

4. Have the site as-built plans and site base map been reviewed?

☒☐

5. Have the previous inspection reports been reviewed?

☒☐

a. Were anomalies or trends detected on previous inspections?

☐☒

b. Was maintenance performed?

☒☐

If maintenance was performed, are copies of all maintenance records in the project file?

☒☐Vegetation removal was performed and completed in Nov. 2009.

NA

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

☒☐

a. If so, has site repair resulted in a change from as-built conditions?

☐☒

NA

b. If yes (to 6a), are revised as-built plans available that reflect repair changes?

☐☐

NA

☒**C. SITE INSPECTION PREPARATION**

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)****D. SITE INSPECTION**

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features on Yucca Lake that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fencing, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Have any fence posts been damaged or their anchoring weakened?		✓	
c. Are any of the use restriction signs damaged or missing?		✓	
d. Are all use restriction signs legible?	✓		
e. How many use restriction signs need to be replaced?	0		
f. Are any of the URMA signs damaged or missing?		✓	
g. Are all URMA signs legible?	✓		
h. How many URMA signs need to be replaced?	0		
i. Is the gate intact and functional?	✓		
j. Does the gate show evidence of tampering or damage?		✓	
k. Was the gate locked?	✓		
l. Does the wave barrier require repair?	✓		A few wave barriers facing W and NW need repair.
m. Is there standing water within or at the fenceline?	✓		Noticed some residual amounts of standing water along the N and SE edge of the cover, but nothing on the cover surface.
If yes, what is the playa water elevation, as measured on the depth gauge attached to the fence perimeter?	0 in.		
n. Other?			NA ✓
3. Waste unit cover:	YES	NO	EXPLANATION { Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
a. Is there evidence of settling?		✓	

Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)**

3. Waste unit cover (continued):	YES	NO	EXPLANATION
b. Is there evidence of cracking?		✓	Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is vegetation growing on the cover?		✓	
h. Other (including trash, debris, etc within fenced area)?		✓	
4. Subsidence survey markers:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have any of the five (5) subsidence survey markers been disturbed?		✓	
b. Do natural processes threaten the integrity of any subsidence survey marker?		✓	
c. Is there excessive vegetation around the subsidence survey markers?		✓	
d. Other?			NA ✓
5. Photograph Instructions:			
<ul style="list-style-type: none"> A standard set of color photographs is required. Eight photographs must be taken during each inspection of CAU 92: <ul style="list-style-type: none"> Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) Four (4) of the unit from outside the fence, one in each compass direction (i.e., N, S, E, W). In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. Additional photographs may also be taken. A photograph log entry will be made for each photograph taken. 			
6. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have all photographs been taken as required by the photograph instructions?	✓		
b. Has a photograph log been prepared?	✓		
c. How many photographs were taken?	13		
d. Other?			NA ✓
E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		
3. Are general housekeeping (i.e., "minor") maintenance/repair actions needed (includes small – less than 2 inches deep – cracks or settling imperfections of the cover)? [minor repairs]		✓	If "yes", describe in Field conclusions/recommendations and the Task Manager must complete the "Follow-up Actions" (not part of checklist)

Inspection Requirements:

- (1) Quarterly, or
- (2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)**

E. FIELD CONCLUSIONS (continued)	YES	NO	EXPLANATION (required if shaded box is checked)
4. Are there any deficiencies that require a remedy other than general housekeeping or small (less than 2 inches deep) cracks or settling imperfections of the cover? [i.e., more than "minor repairs"]		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Will necessary repairs change the as-built condition of the unit?		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
6. Field conclusions/recommendations: <i>The site had no evidence of subsidence, settling, or animal burrowing. There was no new vegetation on or along the edges of the waste unit cover. The radiological and UR signage are in great condition. There was no evidence of damage to the chain-link fencing; however, a few wave barriers facing west and northwest are going to need repair. Repairs will be completed within 60 days. In addition, there was some residual amounts of standing water along the north and southeast edge of the cover, but nothing was observed on the cover surface.</i>			
F. CERTIFICATION			
I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.			
Chief Inspector's Signature: <i>/s/ Glenn Richardson</i>		Date: <i>12/15/09</i>	
Printed Name: <i>Glenn Richardson</i>		Title: <i>Task Manager</i>	

Required Attachments:

- 1. Field Notes
- 2. Photos (or note File Location: S:\NTS\ER Share\ *Photos\ CAU 92\ 2009\ 12-15-2009 CAU 92 Inspection*)

Distribution: Original – Industrial Sites Project Manager
Copy – Task Manager

G. VERIFICATION	
I have reviewed this checklist and attachments and have verified that it is complete.	
Signature: <i>/s/ Reed Poderis</i>	Date: <i>12/21/2009</i>
Printed Name: <i>Thomas A. Thiele (or designee)</i>	

Distribution: Original – Task Manager

Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)**

Inspection Date and Time: <u>1/25/10</u>	Reason for Inspection: <u>Precipitation Event > 0.5 in.</u>
Date of Last Post-Closure Inspection: <u>12/15/09</u>	Reason for Last Post-Closure Inspection: <u>Quarterly</u>
Date of Last Rain Event: <u>1/18/10</u>	Quantity of Rainfall in that event: <u>2.62</u> inches
Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada	
Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project	
Chief Inspector: <u>Glenn Richardson</u>	Title: <u>Task Manager</u> Organization: Environmental Restoration
Assistant Inspector: <u>Dudley Emer</u>	Title: <u>Sr. Scientist</u> Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 92 dated 2/15/2008).
- All documentation must be legible and clear.

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Has the Post-Closure Permit been reviewed?	☒	☐	
2. Has the Post-Closure Permit application been reviewed?	☒	☐	
3. Has the Post-Closure Plan been reviewed?	☒	☐	
4. Have the site as-built plans and site base map been reviewed?	☒	☐	
5. Have the previous inspection reports been reviewed?	☒	☐	
a. Were anomalies or trends detected on previous inspections?	☐	☒	
b. Was maintenance performed?	☐	☒	
If maintenance was performed, are copies of all maintenance records in the project file?	☐	☐	NA ☒
6. Have the site maintenance and repair records been reviewed?	☒	☐	
a. If so, has site repair resulted in a change from as-built conditions?	☐	☒	NA ☐
b. If yes (to 6a), are revised as-built plans available that reflect repair changes?	☐	☐	NA ☒

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST
CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)
D. SITE INSPECTION

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features on Yucca Lake that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fencing, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Have any fence posts been damaged or their anchoring weakened?		✓	
c. Are any of the use restriction signs damaged or missing?		✓	
d. Are all use restriction signs legible?	✓		
e. How many use restriction signs need to be replaced?		0	
f. Are any of the URMA signs damaged or missing?		✓	
g. Are all URMA signs legible?	✓		
h. How many URMA signs need to be replaced?		0	
i. Is the gate intact and functional?	✓		
j. Does the gate show evidence of tampering or damage?		✓	
k. Was the gate locked?	✓		
l. Does the wave barrier require repair?	✓		Repairs are currently planned in Feb. 2010. Damaged wave barriers were identified during the Dec. 2009 quarterly inspection.
m. Is there standing water within or at the fenceline?	✓		Standing water was noticed on the North, South, and southwest edge of the cover, but nothing on the waste unit cover or influencing it
If yes, what is the playa water elevation, as measured on the depth gauge attached to the fence perimeter?		0 in.	
n. Other?		✓	NA
3. Waste unit cover:	YES	NO	EXPLANATION { Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
a. Is there evidence of settling?		✓	

Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)**

3. Waste unit cover (continued):	YES	NO	EXPLANATION	Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
b. Is there evidence of cracking?		✓		
c. Is there evidence of erosion (wind or water)?		✓		
d. Is there evidence of human intrusion onto the cover?		✓		
e. Is there evidence of large animal intrusion onto the cover?		✓		
f. Is there evidence of animal burrowing?		✓		
g. Is vegetation growing on the cover?		✓		
h. Other (including trash, debris, etc within fenced area)?		✓	NA	
4. Subsidence survey markers:	YES	NO	EXPLANATION (required if shaded box is checked)	
a. Have any of the five (5) subsidence survey markers been disturbed?		✓		
b. Do natural processes threaten the integrity of any subsidence survey marker?		✓		
c. Is there excessive vegetation around the subsidence survey markers?		✓		
d. Other?		✓	NA	
5. Photograph Instructions:				
<ul style="list-style-type: none"> A standard set of color photographs is required. Eight photographs must be taken during each inspection of CAU 92: <ul style="list-style-type: none"> Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) Four (4) of the unit from outside the fence, one in each compass direction (i.e., N, S, E, W). In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. Additional photographs may also be taken. A photograph log entry will be made for each photograph taken. 				
6. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)	
a. Have all photographs been taken as required by the photograph instructions?	✓		Photos to document precip. event inspection were taken as a BMP, but not required.	
b. Has a photograph log been prepared?	✓			
c. How many photographs were taken?	6			
d. Other?			NA	✓
E. FIELD CONCLUSIONS				
	YES	NO	EXPLANATION (required if shaded box is checked)	
1. Are more frequent inspections required?		✓		
2. Are existing maintenance/repair actions satisfactory?	✓			
3. Are general housekeeping (i.e., "minor") maintenance/repair actions needed (includes small - less than 2 inches deep - cracks or settling imperfections of the cover)? [minor repairs]		✓	If "yes", describe in Field conclusions/recommendations and the Task Manager must complete the "Follow-up Actions" (not part of checklist)	

Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)**

E. FIELD CONCLUSIONS (continued)	YES	NO	EXPLANATION (required if shaded box is checked)
4. Are there any deficiencies that require a remedy other than general housekeeping or small (less than 2 inches deep) cracks or settling imperfections of the cover? [i.e., more than "minor repairs"]		☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Will necessary repairs change the as-built condition of the unit?		☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
6. Field conclusions/recommendations: <i>Overall site conditions are good. Noticed standing water on the edges of the cover (North, South, Southwest), but no evidence of standing water was on top of the cover. There was no settling or subsidence on the waste unit cover. The chain-link fencing, radiological & UR signage, and surface monuments are in excellent condition. The site was well secured and gate locked and maintained.</i>			

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: */s/ Glenn Richardson* Date: *1/25/10*
 Printed Name: *Glenn Richardson* Title: *Task Manager*

Required Attachments:

- Field Notes
- Photos (or note File Location: S:\NTS\ER Share\ *Photos\ CAU 92\ 2010\ 01-25-2010 Precipitation*)

Distribution: Original – Industrial Sites Project Manager
 Copy – Task Manager

G. VERIFICATION

I have reviewed this checklist and attachments and have verified that it is complete.

Signature: */s/ Reed Poderis* Date: *1/25/10*
 Printed Name: Thomas A. Thiele (or designee)

Distribution: Original – Task Manager

Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)**

Inspection Date and Time: <u>3/17/10 11:50AM</u>	Reason for Inspection: <u>Quarterly</u>
Date of Last Post-Closure Inspection: <u>1/25/10</u>	Reason for Last Post-Closure Inspection: <u>Precipitation Event</u>
Date of Last Rain Event: <u>1/18/10</u>	Quantity of Rainfall in that event: <u>2.62</u> inches

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: <u>Glenn Richardson</u>	Title: <u>Task Manager</u>	Organization: Environmental Restoration
Assistant Inspector: <u>Dudley Emer</u>	Title: <u>Sr. Scientist</u>	Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 92 dated 2/15/2008).
- All documentation must be legible and clear.

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

YES NO EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?	☒	☐	
2. Has the Post-Closure Permit application been reviewed?	☒	☐	
3. Has the Post-Closure Plan been reviewed?	☒	☐	
4. Have the site as-built plans and site base map been reviewed?	☒	☐	
5. Have the previous inspection reports been reviewed?	☒	☐	
a. Were anomalies or trends detected on previous inspections?	☐	☒	
b. Was maintenance performed?	☒	☐	<u>Small breaches in the wave barriers were repaired in Jan. 2010.</u>
If maintenance was performed, are copies of all maintenance records in the project file?	☒	☐	NA
6. Have the site maintenance and repair records been reviewed?	☒	☐	
a. If so, has site repair resulted in a change from as-built conditions?	☐	☒	NA
b. If yes (to 6a), are revised as-built plans available that reflect repair changes?	☐	☐	NA ☒

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)****D. SITE INSPECTION**

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features on Yucca Lake that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fencing, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Have any fence posts been damaged or their anchoring weakened?		✓	
c. Are any of the use restriction signs damaged or missing?		✓	
d. Are all use restriction signs legible?	✓		
e. How many use restriction signs need to be replaced?	0		
f. Are any of the URMA signs damaged or missing?		✓	
g. Are all URMA signs legible?	✓		
h. How many URMA signs need to be replaced?	0		
i. Is the gate intact and functional?	✓		
j. Does the gate show evidence of tampering or damage?		✓	
k. Was the gate locked?	✓		
l. Does the wave barrier require repair?		✓	
m. Is there standing water within or at the fenceline? If yes, what is the playa water elevation, as measured on the depth gauge attached to the fence perimeter?	✓		Standing water was noticed inside the fence line along the N and SW edges of the cover, but no standing water was noticed on the actual cover.
n. Other?			NA
3. Waste unit cover:	YES	NO	EXPLANATION { Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
a. Is there evidence of settling?		✓	

Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)**

3. Waste unit cover (continued):	YES	NO	EXPLANATION	Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
b. Is there evidence of cracking?		✓		
c. Is there evidence of erosion (wind or water)?		✓		
d. Is there evidence of human intrusion onto the cover?		✓		
e. Is there evidence of large animal intrusion onto the cover?		✓		
f. Is there evidence of animal burrowing?		✓		
g. Is vegetation growing on the cover?		✓		
h. Other (including trash, debris, etc within fenced area)?		✓	NA	
4. Subsidence survey markers:	YES	NO	EXPLANATION (required if shaded box is checked)	
a. Have any of the five (5) subsidence survey markers been disturbed?		✓		
b. Do natural processes threaten the integrity of any subsidence survey marker?		✓		
c. Is there excessive vegetation around the subsidence survey markers?		✓		
d. Other?		✓	NA	
5. Photograph Instructions:				
<ul style="list-style-type: none"> A standard set of color photographs is required. Eight photographs must be taken during each inspection of CAU 92: <ul style="list-style-type: none"> Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) Four (4) of the unit from outside the fence, one in each compass direction (i.e., N, S, E, W). In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. Additional photographs may also be taken. A photograph log entry will be made for each photograph taken. 				
6. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)	
a. Have all photographs been taken as required by the photograph instructions?	✓			
b. Has a photograph log been prepared?	✓			
c. How many photographs were taken?	8			
d. Other?		✓	NA	
E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)	
1. Are more frequent inspections required?		✓		
2. Are existing maintenance/repair actions satisfactory?	✓			
3. Are general housekeeping (i.e., "minor") maintenance/repair actions needed (includes small – less than 2 inches deep – cracks or settling imperfections of the cover)? [minor repairs]		✓	If "yes", describe in Field conclusions/recommendations and the Task Manager must complete the "Follow-up Actions" (not part of checklist)	

(2) Rain Event of >0.5 inches in 24 hours

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

Inspection Requirements:

- ✓ (1) Quarterly, or
 (2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)**

Inspection Date and Time: 6/23/10 11:25 AM	Reason for Inspection: Quarterly
Date of Last Post-Closure Inspection: 3/17/10	Reason for Last Post-Closure Inspection: Quarterly
Date of Last Rain Event: 1/18/10	Quantity of Rainfall in that event: 2.62 inches
Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada	
Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project	
Chief Inspector: Glenn Richardson	Title: Task Manager
Assistant Inspector: Dudley Emer	Title: Sr Scientist
Organization: Environmental Restoration	

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 92 dated 2/15/2008).
- All documentation must be legible and clear.

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

YES NO EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?	✓		
2. Has the Post-Closure Permit application been reviewed?	✓		
3. Has the Post-Closure Plan been reviewed?	✓		
4. Have the site as-built plans and site base map been reviewed?	✓		
5. Have the previous inspection reports been reviewed?	✓		
a. Were anomalies or trends detected on previous inspections?		✓	
b. Was maintenance performed?		✓	
If maintenance was performed, are copies of all maintenance records in the project file?			NA
6. Have the site maintenance and repair records been reviewed?	✓		
a. If so, has site repair resulted in a change from as-built conditions?		✓	NA
b. If yes (to 6a), are revised as-built plans available that reflect repair changes?			NA

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)****D. SITE INSPECTION**

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features on Yucca Lake that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fencing, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?	✓		Fence Restraining wires broken will require repair
b. Have any fence posts been damaged or their anchoring weakened?		✓	
c. Are any of the use restriction signs damaged or missing?		✓	
d. Are all use restriction signs legible?	✓		
e. How many use restriction signs need to be replaced?		0	
f. Are any of the URMA signs damaged or missing?		✓	
g. Are all URMA signs legible?	✓		
h. How many URMA signs need to be replaced?		0	
i. Is the gate intact and functional?	✓		
j. Does the gate show evidence of tampering or damage?		✓	
k. Was the gate locked?	✓		
l. Does the wave barrier require repair?	✓		plastic Lath wave barrier in SW/NW side of fence need repair
m. Is there standing water within or at the fenceline?		✓	
If yes, what is the playa water elevation, as measured on the depth gauge attached to the fence perimeter?		0	
n. Other?			NA
3. Waste unit cover:	YES	NO	EXPLANATION { Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
a. Is there evidence of settling?		✓	

Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST
CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

3. Waste unit cover (continued):	YES	NO	EXPLANATION	Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
b. Is there evidence of cracking?		✓		
c. Is there evidence of erosion (wind or water)?		✓		
d. Is there evidence of human intrusion onto the cover?		✓		
e. Is there evidence of large animal intrusion onto the cover?		✓		
f. Is there evidence of animal burrowing?		✓		
g. Is vegetation growing on the cover?		✓		
h. Other (including trash, debris, etc within fenced area)?	✓		NA	Vegetation is growing along the base of the cover

4. Subsidence survey markers:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have any of the five (5) subsidence survey markers been disturbed?		✓	
b. Do natural processes threaten the integrity of any subsidence survey marker?		✓	
c. Is there excessive vegetation around the subsidence survey markers?		✓	
d. Other?			NA

5. Photograph Instructions:

- A standard set of color photographs is required. Eight photographs must be taken during each inspection of CAU 92:
 - Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W)
 - Four (4) of the unit from outside the fence, one in each compass direction (i.e., N, S, E, W).
- In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed.
- Additional photographs may also be taken.
- A photograph log entry will be made for each photograph taken.

6. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have all photographs been taken as required by the photograph instructions?	✓		
b. Has a photograph log been prepared?	✓		
c. How many photographs were taken?	19		8 of unit, 5 vegetation growth 9 fence damage
d. Other?			NA

E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		
3. Are general housekeeping (i.e., "minor") maintenance/repair actions needed (includes small – less than 2 inches deep – cracks or settling imperfections of the cover)? [minor repairs]	✓		If "yes", describe in Field conclusions/recommendations and the Task Manager must complete the "Follow-up Actions" (not part of checklist)

Inspection Requirements:

- (1) Quarterly, or
 (2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)**

E. FIELD CONCLUSIONS (continued)	YES	NO	EXPLANATION (required if shaded box is checked)
4. Are there any deficiencies that require a remedy other than general housekeeping or small (less than 2 inches deep) cracks or settling imperfections of the cover? [i.e., more than "minor repairs"]		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Will necessary repairs change the as-built condition of the unit?		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
6. Field conclusions/recommendations: ① SW/NW fence line securing wires are broken leaving 3/4 of fence line detached from fence posts along the base. ② Some Plastic wave barrier needs replacement. ③ Vegetation growing along cover base needs removal. Signage & Monuments in good shape, no evidence of subsidence settling or animal burrowing noted.			
F. CERTIFICATION			
I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.			
Chief Inspector's Signature: /s/ Glenn Richardson	Date: 6/23/10		
Printed Name: Glenn Richardson	Title: Task Manager		

Required Attachments:

- Field Notes
- Photos (or note File Location: S:\NTS\ER Share\ Photos\ CAU 092\ 2010\ 06-23-2010 Inspection)

Distribution: Original – Industrial Sites Project Manager
 Copy – Task Manager

G. VERIFICATION	
I have reviewed this checklist and attachments and have verified that it is complete.	
Signature: /s/ Reed Poderis	Date: 7/26/10
Printed Name: Thomas A. Thiele (or designee)	

Distribution: Original – Task Manager

Inspection Requirements:

- (1) Quarterly, or
 (2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)**

Inspection Date and Time: <u>9/8/10 11:40 AM</u>	Reason for Inspection: <u>Quarterly</u>
Date of Last Post-Closure Inspection: <u>6/23/10</u>	Reason for Last Post-Closure Inspection: <u>Quarterly</u>
Date of Last Rain Event: <u>1/18/10</u>	Quantity of Rainfall in that event: <u>2.62</u> inches
Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada	
Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project	
Chief Inspector: <u>Glenn Richardson</u>	Title: <u>Task Manager</u>
Assistant Inspector: <u>None</u>	Title: <u>—</u>
Organization: Environmental Restoration	

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 92 dated 2/15/2008).
- All documentation must be legible and clear.

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Has the Post-Closure Permit been reviewed?	☒	☐	
2. Has the Post-Closure Permit application been reviewed?	☒	☐	
3. Has the Post-Closure Plan been reviewed?	☒	☐	
4. Have the site as-built plans and site base map been reviewed?	☒	☐	
5. Have the previous inspection reports been reviewed?	☒	☐	
a. Were anomalies or trends detected on previous inspections?	☒	☐	<i>Vegetation was noticed along the edges of the cover during the June 2010 inspection.</i>
b. Was maintenance performed?	☒	☐	<i>Vegetation removal and herbicide application was performed in August 2010.</i>
If maintenance was performed, are copies of all maintenance records in the project file?	☒	☐	NA
6. Have the site maintenance and repair records been reviewed?	☒	☐	
a. If so, has site repair resulted in a change from as-built conditions?	☐	☒	NA
b. If yes (to 6a), are revised as-built plans available that reflect repair changes?	☐	☒	NA

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)****D. SITE INSPECTION**

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features on Yucca Lake that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fencing, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Have any fence posts been damaged or their anchoring weakened?		✓	
c. Are any of the use restriction signs damaged or missing?		✓	
d. Are all use restriction signs legible?	✓		
e. How many use restriction signs need to be replaced?	0		
f. Are any of the URMA signs damaged or missing?		✓	
g. Are all URMA signs legible?	✓		
h. How many URMA signs need to be replaced?	0		
i. Is the gate intact and functional?	✓		
j. Does the gate show evidence of tampering or damage?		✓	
k. Was the gate locked?	✓		
l. Does the wave barrier require repair?		✓	
m. Is there standing water within or at the fenceline?		✓	
If yes, what is the playa water elevation, as measured on the depth gauge attached to the fence perimeter?	1		
n. Other?			NA ✓
3. Waste unit cover:	YES	NO	EXPLANATION { Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
a. Is there evidence of settling?		✓	

Inspection Requirements:

(1) Quarterly, or

(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST**CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)**

3. Waste unit cover (continued):	YES	NO	EXPLANATION { Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is vegetation growing on the cover?	✓		New vegetation was noticed sprouting along the south edge of the cover.
h. Other (including trash, debris, etc within fenced area)?		✓	NA
4. Subsidence survey markers:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have any of the five (5) subsidence survey markers been disturbed?		✓	
b. Do natural processes threaten the integrity of any subsidence survey marker?		✓	
c. Is there excessive vegetation around the subsidence survey markers?		✓	
d. Other?			NA ✓
5. Photograph Instructions:			
<ul style="list-style-type: none"> A standard set of color photographs is required. Eight photographs must be taken during each inspection of CAU 92: <ul style="list-style-type: none"> Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) Four (4) of the unit from outside the fence, one in each compass direction (i.e., N, S, E, W). In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. Additional photographs may also be taken. A photograph log entry will be made for each photograph taken. 			
6. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have all photographs been taken as required by the photograph instructions?	✓		
b. Has a photograph log been prepared?	✓		
c. How many photographs were taken?	10		
d. Other?			NA ✓
E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		
3. Are general housekeeping (i.e., "minor") maintenance/repair actions needed (includes small – less than 2 inches deep – cracks or settling imperfections of the cover)? [minor repairs]	✓		If "yes", describe in Field conclusions/recommendations and the Task Manager must complete the "Follow-up Actions" (not part of checklist)

(2) Rain Event of >0.5 inches in 24 hours

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

Distribution: Original – Task Manager

CORRECTIVE ACTION UNIT 110 INSPECTION CHECKLISTS

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POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

Inspection Date and Time: 12/15/09 10:15 AM

Reason for Inspection: Quarterly

Date of Last Post-Closure Inspection: 9/23/09

Reason for Last Post-Closure Inspection: Quarterly

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: Glenn Richardson

Title: Task Manager

Organization: Environmental Restoration

Assistant Inspector: Greg Doyle

Title: Sr. Scientist

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 91 dated 2/15/2008).
- All documentation must be legible and clear.

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

YES NO EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?

☒
☐

2. Has the Post-Closure Permit application been reviewed?

☒
☐

3. Has the Post-Closure Plan been reviewed?

☒
☐

4. Have the site as-built plans and site base map been reviewed?

☒
☐

5. Have the previous inspection reports been reviewed?

☒
☐

a. Were anomalies or trends detected on previous inspections?

☐
☒

b. Was maintenance performed?

☒
☐

Sign maintenance was completed on 11/18/09.

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

☒
☐

a. If so, has site repair resulted in a change from as-built conditions?

☐
☒

NA

b. If yes (to 6a), are revised as-built plans available that reflect repair changes?

☐
☒

NA

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

D. SITE INSPECTION

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fences, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Is there damage to or a break in the chicken wire fence?		✓	
c. Have any fenceposts been damaged or their anchoring weakened?		✓	
d. Is the gate intact and functional?	✓		
e. Does the gate show evidence of tampering or damage?		✓	
f. Was the gate locked?	✓		
g. Are any of the use restriction signs damaged or missing?		✓	
h. Are all use restriction signs legible?	✓		
i. How many use restriction signs need to be replaced?		0	
3. Waste unit cover (Western portion, "ax"):	YES	NO	EXPLANATION { Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?	✓		Animal burrows were noticed in various areas on the western portion of the waste unit cover.
g. Is there a change or difference in vegetation (i.e., is the vegetation growing on the cover inconsistent with the naturally-occurring vegetation growing outside of the unit)?		✓	
h. Other (including trash, debris, etc within fenced area)?		✓	NA

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

	YES	NO	EXPLANATION
4. Waste unit cover (Eastern portion, "bl"):			Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
a. Is there evidence of settling?	☒	☐	Evidence of settling was noticed in a few areas on the east side of the soil cover.
b. Is there evidence of cracking?	☒	☐	Subsidence cracks were noticed in a few areas on the east side of the waste unit cover.
c. Is there evidence of erosion (wind or water)?	☐	☒	
d. Is there evidence of human intrusion onto the cover?	☐	☒	
e. Is there evidence of large animal intrusion onto the cover?	☐	☒	
f. Is there evidence of animal burrowing?	☒	☐	Animal burrows were noticed in various areas on the eastern portion of the waste unit cover.
g. Is there a change or difference in vegetation (i.e., is the vegetation growing on the cover inconsistent with the naturally-occurring vegetation growing outside of the unit)?	☐	☒	
h. Other (including trash, debris, etc within fenced area)?	☐	☒	NA
5. Subsidence survey markers and TDR Probes:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have any of the seven (7) subsidence survey markers been disturbed?	☐	☒	
b. Do natural processes threaten the integrity of any subsidence survey marker?	☐	☒	
c. Is there excessive vegetation around the subsidence survey markers?	☐	☒	
d. Is there any evidence that TDR probes have been disturbed or the wires damaged?	☐	☒	
e. Other?	☐	☒	NA
6. Photograph Instructions:			
<ul style="list-style-type: none"> A standard set of eight (8) color photographs is required to be taken during each inspection of CAU 110: <ul style="list-style-type: none"> Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) Four (4) of the unit from outside the fence, one in each compass direction (i.e., N, S, E, W). In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. Additional photographs may also be taken. A photograph log entry will be made for each photograph taken. 			
7. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have all photographs been taken as required by the photograph instructions?	☒	☐	
b. Has a photograph log been prepared?	☒	☐	
c. How many photographs were taken?	30		
d. Other?	☐	☒	NA
E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?	☐	☒	
2. Are existing maintenance/repair actions satisfactory?	☒	☐	

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

E. FIELD CONCLUSIONS (continued)	YES	NO	EXPLANATION (required if shaded box is checked)
3. Are general housekeeping (i.e., "minor") maintenance/repair actions needed (includes cracks or settling imperfections less than 6 inches deep that extend less than 3 feet on the cover)? [minor repairs]	✓		If "yes", describe in Field conclusions/recommendations
4. Are there any deficiencies that require a remedy other than general housekeeping or small (less than 6 inches deep and 3 feet long) cracks or settling imperfections of the cover? [i.e., more than "minor repairs"]		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Will necessary repairs change the as-built condition of the unit?		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
6. Field conclusions/recommendations: <i>The UR signage, radiological signage, and fencing were in great condition. The vegetation on the cover appears to be well established and stable contributing from more favorable growing conditions. Noticed a few animal burrows in various areas on the west and east sections of the waste unit cover. In addition, subsidence and settling imperfections (cracks) greater than 6 in. deep that extended from a range of 3-8 ft. in different areas along the East edge of the cover. Subsidence repairs are necessary within 60 days. Also, with excess borrow soil, the animal burrows will be backfilled.</i>			

F. CERTIFICATION

I have conducted an inspection of CAU 110, Area 3 WMD U-3ax/bl Crater, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: */s/ Glenn Richardson* Date: *12/15/09*
 Printed Name: *Glenn Richardson* Title: *Task Manager*

Required Attachments:

- Field Notes
- Photos (or note File Location: *S:\NTS\ER Share\Photos\CAU110\2009\12-15-2009 CAU 110 Inspection*)

Distribution: Original – Industrial Sites Project Manager
 Copy – Task Manager

G. VERIFICATION

I have reviewed this checklist and attachments and have verified that it is complete.

Signature: */s/ Reed Poderis* Date: *12/21/2009*
 Printed Name: *Thomas A. Thiele (or designee)*

Distribution: Original – Task Manager

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

Inspection Date and Time: 3/17/10 10:45 AM

Reason for Inspection: Quarterly

Date of Last Post-Closure Inspection: 12/15/09

Reason for Last Post-Closure Inspection: Quarterly

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: Glenn Richardson

Title: Task Manager

Organization: Environmental Restoration

Assistant Inspector: Dudley Emer

Title: Sr. Scientist

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 91 dated 2/15/2008).
- All documentation must be legible and clear.

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

	YES	NO	EXPLANATION (required if shaded box is checked)
1. Has the Post-Closure Permit been reviewed?	☒	☐	
2. Has the Post-Closure Permit application been reviewed?	☒	☐	
3. Has the Post-Closure Plan been reviewed?	☒	☐	
4. Have the site as-built plans and site base map been reviewed?	☒	☐	
5. Have the previous inspection reports been reviewed?	☒	☐	
a. Were anomalies or trends detected on previous inspections?	☐	☒	
b. Was maintenance performed?	☒	☐	Subsidence repairs were performed and completed in Jan. 2010. Vegetation was re-seeded and replanted in Feb. 2010.
6. Have the site maintenance and repair records been reviewed?	☒	☐	
a. If so, has site repair resulted in a change from as-built conditions?	☐	☒	NA
b. If yes (to 6a), are revised as-built plans available that reflect repair changes?	☐	☐	NA ☒

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

D. SITE INSPECTION

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fences, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Is there damage to or a break in the chicken wire fence?		✓	
c. Have any fenceposts been damaged or their anchoring weakened?		✓	
d. Is the gate intact and functional?	✓		
e. Does the gate show evidence of tampering or damage?		✓	
f. Was the gate locked?	✓		
g. Are any of the use restriction signs damaged or missing?		✓	
h. Are all use restriction signs legible?	✓		
i. How many use restriction signs need to be replaced?		0	
3. Waste unit cover (Western portion, "ax"):	YES	NO	EXPLANATION { Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	Small burrows were noticed, but were not significant to warrant a corrective action.
g. Is there a change or difference in vegetation (i.e., is the vegetation growing on the cover inconsistent with the naturally-occurring vegetation growing outside of the unit)?		✓	
h. Other (including trash, debris, etc within fenced area)?		NA	✓

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

	YES	NO	EXPLANATION
4. Waste unit cover (Eastern portion, "bl"):			Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is there a change or difference in vegetation (i.e., is the vegetation growing on the cover inconsistent with the naturally-occurring vegetation growing outside of the unit)?		✓	
h. Other (including trash, debris, etc within fenced area)?			NA ✓
5. Subsidence survey markers and TDR Probes:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have any of the seven (7) subsidence survey markers been disturbed?		✓	
b. Do natural processes threaten the integrity of any subsidence survey marker?		✓	
c. Is there excessive vegetation around the subsidence survey markers?		✓	
d. Is there any evidence that TDR probes have been disturbed or the wires damaged?		✓	
e. Other?			NA ✓
6. Photograph Instructions:			
<ul style="list-style-type: none"> A standard set of eight (8) color photographs is required to be taken during each inspection of CAU 110: <ul style="list-style-type: none"> Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) Four (4) of the unit from outside the fence, one in each compass direction (i.e., N, S, E, W). In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. Additional photographs may also be taken. A photograph log entry will be made for each photograph taken. 			
7. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have all photographs been taken as required by the photograph instructions?	✓		
b. Has a photograph log been prepared?	✓		
c. How many photographs were taken?		8	
d. Other?			NA ✓
E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

E. FIELD CONCLUSIONS (continued)	YES	NO	EXPLANATION (required if shaded box is checked)
3. Are general housekeeping (i.e., "minor") maintenance/repair actions needed (includes cracks or settling imperfections less than 6 inches deep that extend less than 3 feet on the cover)? [minor repairs]		☒	If "yes", describe in Field conclusions/recommendations
4. Are there any deficiencies that require a remedy other than general housekeeping or small (less than 6 inches deep and 3 feet long) cracks or settling imperfections of the cover? [i.e., more than "minor repairs"]		☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Will necessary repairs change the as-built condition of the unit?		☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
6. Field conclusions/recommendations: <i>The UR signage, fencing, and surface grade monuments are in excellent condition. There was no evidence of more subsidence or settling since the subsidence repairs were completed in Jan. 2010. A few small animal burrows were noticed, but nothing was deemed significant enough to warrant a follow-up corrective action. Also, new vegetation was re-seeded and replanted on the east portion of the cover. The new vegetation was protected with temporary fencing to prevent intrusion by small animals. There are no issues or concerns at this site.</i>			

F. CERTIFICATION

I have conducted an inspection of CAU 110, Area 3 WMD U-3ax/bl Crater, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: */s/ Glenn Richardson*

Date: *3/17/10*

Printed Name: *Glenn Richardson*

Title: *Task Manager*

Required Attachments:

- Field Notes
- Photos (or note File Location: *S:\NTS\ER Share\Photos\CAU 110\2010\03-17-2010 Inspection*)

Distribution: Original – Industrial Sites Project Manager
Copy – Task Manager

G. VERIFICATION

I have reviewed this checklist and attachments and have verified that it is complete.

Signature: */s/ Reed Poderis*

Date: *4/20/10*

Printed Name: *Thomas A. Thiele (or designee)*

Distribution: Original – Task Manager

POST-CLOSURE INSPECTION CHECKLIST**CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater**

Inspection Date and Time: 6/23/10 10:35

Reason for Inspection: Quarterly

Date of Last Post-Closure Inspection: 3/17/10

Reason for Last Post-Closure Inspection: Quarterly

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: Glenn Richardson

Title: Task MANAGER

Organization: Environmental Restoration

Assistant Inspector: Dudley Emer

Title: Sr Scientist

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 91 dated 2/15/2008).
- All documentation must be legible and clear.

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

YES NO EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?

✓

2. Has the Post-Closure Permit application been reviewed?

✓

3. Has the Post-Closure Plan been reviewed?

✓

4. Have the site as-built plans and site base map been reviewed?

✓

5. Have the previous inspection reports been reviewed?

✓

a. Were anomalies or trends detected on previous inspections?

✓

b. Was maintenance performed?

✓

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

✓

a. If so, has site repair resulted in a change from as-built conditions?

✓

NA

b. If yes (to 6a), are revised as-built plans available that reflect repair changes?

✓

NA

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

D. SITE INSPECTION

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?	☐	☒	
2. Fences, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?	☐	☒	
b. Is there damage to or a break in the chicken wire fence?	☐	☒	
c. Have any fenceposts been damaged or their anchoring weakened?	☐	☒	
d. Is the gate intact and functional?	☒	☐	
e. Does the gate show evidence of tampering or damage?	☐	☒	
f. Was the gate locked?	☒	☐	
g. Are any of the use restriction signs damaged or missing?	☐	☒	
h. Are all use restriction signs legible?	☒	☐	
i. How many use restriction signs need to be replaced?		0	
3. Waste unit cover (Western portion, "ax"):	YES	NO	EXPLANATION { Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
a. Is there evidence of settling?	☐	☒	
b. Is there evidence of cracking?	☐	☒	
c. Is there evidence of erosion (wind or water)?	☐	☒	
d. Is there evidence of human intrusion onto the cover?	☐	☒	
e. Is there evidence of large animal intrusion onto the cover?	☐	☒	
f. Is there evidence of animal burrowing?	☐	☒	
g. Is there a change or difference in vegetation (i.e., is the vegetation growing on the cover inconsistent with the naturally-occurring vegetation growing outside of the unit)?	☐	☒	
h. Other (including trash, debris, etc within fenced area)?	☐	☒	NA

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

	YES	NO	EXPLANATION
4. Waste unit cover (Eastern portion, "bl"):			Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	Minor old burrows No action Required
g. Is there a change or difference in vegetation (i.e., is the vegetation growing on the cover inconsistent with the naturally-occurring vegetation growing outside of the unit)?		✓	Re-vegetation plots look Good.
h. Other (including trash, debris, etc within fenced area)?			NA
5. Subsidence survey markers and TDR Probes:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have any of the seven (7) subsidence survey markers been disturbed?		✓	
b. Do natural processes threaten the integrity of any subsidence survey marker?		✓	
c. Is there excessive vegetation around the subsidence survey markers?		✓	
d. Is there any evidence that TDR probes have been disturbed or the wires damaged?		✓	
e. Other?			NA
6. Photograph Instructions:			
<ul style="list-style-type: none"> A standard set of eight (8) color photographs is required to be taken during each inspection of CAU 110: <ul style="list-style-type: none"> Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) Four (4) of the unit from outside the fence, one in each compass direction (i.e., N, S, E, W). In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. Additional photographs may also be taken. A photograph log entry will be made for each photograph taken. 			
7. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have all photographs been taken as required by the photograph instructions?	✓		
b. Has a photograph log been prepared?	✓		
c. How many photographs were taken?	8		
d. Other?			NA
E. FIELD CONCLUSIONS			
	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

E. FIELD CONCLUSIONS (continued)	YES	NO	EXPLANATION (required if shaded box is checked)
3. Are general housekeeping (i.e., "minor") maintenance/repair actions needed (includes cracks or settling imperfections less than 6 inches deep that extend less than 3 feet on the cover)? [minor repairs]		✓	If "yes", describe in Field conclusions/recommendations
4. Are there any deficiencies that require a remedy other than general housekeeping or small (less than 6 inches deep and 3 feet long) cracks or settling imperfections of the cover? [i.e., more than "minor repairs"]		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Will necessary repairs change the as-built condition of the unit?		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
6. Field conclusions/recommendations: <u>Site is in excellent condition</u> <u>No new fractures or subsidence</u> <u>was noted.</u> <u>outer plastic snow fence</u> <u>gate needs a new wood lathe</u>			

F. CERTIFICATION

I have conducted an inspection of CAU 110, Area 3 WMD U-3ax/bl Crater, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/ Glenn Richardson

Date: 4/23/10

Printed Name: Glenn Richardson

Title: Task Manager

Required Attachments:

- Field Notes
- Photos (or note File Location: S:\NTS\ER Share\Photos\CAU 110\2010\06-23-2010 Inspection)

Distribution: Original – Industrial Sites Project Manager
Copy – Task Manager

G. VERIFICATION

I have reviewed this checklist and attachments and have verified that it is complete.

Signature: /s/ Reed Poderis

Date: 7/26/11

Printed Name: Thomas A. Thiele (or designee)

Distribution: Original – Task Manager

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

Inspection Date and Time: 9/8/10 10:50 AM

Reason for Inspection: Quarterly

Date of Last Post-Closure Inspection: 6/23/10

Reason for Last Post-Closure Inspection: Quarterly

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: Glenn Richardson

Title: Task Manager

Organization: Environmental Restoration

Assistant Inspector: None

Title: —

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 91 dated 2/15/2008).
- All documentation must be legible and clear.

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

YES

NO

EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?

☒
☐

2. Has the Post-Closure Permit application been reviewed?

☒
☐

3. Has the Post-Closure Plan been reviewed?

☒
☐

4. Have the site as-built plans and site base map been reviewed?

☒
☐

5. Have the previous inspection reports been reviewed?

☒
☐

a. Were anomalies or trends detected on previous inspections?

☐
☒

b. Was maintenance performed?

☒
☐

As a best mgmt practice, the outer perimeter snow fence was repaired.

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

☒
☐

a. If so, has site repair resulted in a change from as-built conditions?

☐
☒

NA

b. If yes (to 6a), are revised as-built plans available that reflect repair changes?

☐
☐

NA

☒

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

D. SITE INSPECTION

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fences, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Is there damage to or a break in the chicken wire fence?		✓	
c. Have any fenceposts been damaged or their anchoring weakened?		✓	
d. Is the gate intact and functional?	✓		
e. Does the gate show evidence of tampering or damage?		✓	
f. Was the gate locked?	✓		
g. Are any of the use restriction signs damaged or missing?		✓	Noticed a few URMA signs along the north side of fence were loose and need to be tightened.
h. Are all use restriction signs legible?	✓		
i. How many use restriction signs need to be replaced?		0	
3. Waste unit cover (Western portion, "ax"):	YES	NO	EXPLANATION { Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?	✓		There was evidence of small animal burrowing, but it was not deemed significant to warrant a follow-up action.
g. Is there a change or difference in vegetation (i.e., is the vegetation growing on the cover inconsistent with the naturally-occurring vegetation growing outside of the unit)?		✓	
h. Other (including trash, debris, etc within fenced area)?		✓	NA

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

	YES	NO	EXPLANATION
<div> 4. Waste unit cover (Eastern portion, "bl"): <div>Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.</div> </div>			
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is there a change or difference in vegetation (i.e., is the vegetation growing on the cover inconsistent with the naturally-occurring vegetation growing outside of the unit)?		✓	
h. Other (including trash, debris, etc within fenced area)?		✓	NA
<div> 5. Subsidence survey markers and TDR Probes: <div>EXPLANATION (required if shaded box is checked)</div> </div>			
a. Have any of the seven (7) subsidence survey markers been disturbed?		✓	
b. Do natural processes threaten the integrity of any subsidence survey marker?		✓	
c. Is there excessive vegetation around the subsidence survey markers?		✓	
d. Is there any evidence that TDR probes have been disturbed or the wires damaged?		✓	
e. Other?		✓	NA
<div> 6. Photograph Instructions: <ul style="list-style-type: none"> A standard set of eight (8) color photographs is required to be taken during each inspection of CAU 110: <ul style="list-style-type: none"> Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) Four (4) of the unit from outside the fence, one in each compass direction (i.e., N, S, E, W). In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. Additional photographs may also be taken. A photograph log entry will be made for each photograph taken. </div>			
<div> 7. Photograph Documentation: <div>EXPLANATION (required if shaded box is checked)</div> </div>			
a. Have all photographs been taken as required by the photograph instructions?	✓		
b. Has a photograph log been prepared?	✓		
c. How many photographs were taken?		10	
d. Other?		✓	NA
<div> E. FIELD CONCLUSIONS <div>EXPLANATION (required if shaded box is checked)</div> </div>			
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		

POST-CLOSURE INSPECTION CHECKLIST

CAU 110: AREA 3 WMD U-3ax/bl CRATER - CAS 03-23-04: U-3axbl Subsidence Crater

E. FIELD CONCLUSIONS (continued)	YES	NO	EXPLANATION (required if shaded box is checked)
3. Are general housekeeping (i.e., "minor") maintenance/repair actions needed (includes cracks or settling imperfections less than 6 inches deep that extend less than 3 feet on the cover)? [minor repairs]	☒		If "yes", describe in Field conclusions/recommendations
4. Are there any deficiencies that require a remedy other than general housekeeping or small (less than 6 inches deep and 3 feet long) cracks or settling imperfections of the cover? [i.e., more than "minor repairs"]		☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Will necessary repairs change the as-built condition of the unit?		☒	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
6. Field conclusions/recommendations: <i>The use restriction signs, fencing, and the vegetative cover were in good condition; however, there were a few URMA signs along the north side of the fence that were loose and needed to be tightened. The surface-grade monuments were in good condition and the new vegetation that was reestablished on the east portion of the cover appeared to be maturing very well. There was no evidence of cracks, subsidence, or settling on the cover. There were some small animal burrows noticed, but nothing warranted a follow-up action. There were no issues or concerns at this site, but the URMA signs will be reinforced along the north side of the fence.</i>			

F. CERTIFICATION	
I have conducted an inspection of CAU 110, Area 3 WMD U-3ax/bl Crater, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.	
Chief Inspector's Signature: <i>/s/ Glenn Richardson</i>	Date: <i>9/8/10</i>
Printed Name: <i>Glenn Richardson</i>	Title: <i>Task Manager</i>

Required Attachments:

- Field Notes
- Photos (or note File Location: S:\NTS\ER Share\Photos\CAU 110\2010\09-08-2010 Inspection)

Distribution: Original – Industrial Sites Project Manager
Copy – Task Manager

G. VERIFICATION	
I have reviewed this checklist and attachments and have verified that it is complete.	
Signature: <i>/s/ Reed Poderis</i>	Date: <i>10/5/10</i>
Printed Name: <i>Thomas A. Thiele (or designee)</i>	

Distribution: Original – Task Manager

CORRECTIVE ACTION UNIT 112 INSPECTION CHECKLISTS

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POST-CLOSURE INSPECTION CHECKLIST**CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)**Inspection Date and Time: 12/15/09 12:00 PMReason for Inspection: QuarterlyDate of Last Post-Closure Inspection: 9/23/09Reason for Last Post-Closure Inspection: Quarterly

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: Glenn RichardsonTitle: Task Manager

Organization: Environmental Restoration

Assistant Inspector: Greg DoyleTitle: Sr. Scientist

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 92 dated 2/15/2008).
- All documentation must be legible and clear.

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

YES NO EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?

✓

2. Has the Post-Closure Permit application been reviewed?

✓

3. Has the Post-Closure Plan been reviewed?

✓

4. Have the site as-built plans and site base map been reviewed?

✓

5. Have the previous inspection reports been reviewed?

✓

a. Were anomalies or trends detected on previous inspections?

✓

b. Was maintenance performed?

✓

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

✓

a. If so, has site repair resulted in a change from as-built conditions?

✓

NA

b. If yes (to 6a), are revised as-built plans available that reflect repair changes?

✓

NA

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)

D. SITE INSPECTION

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?	☒	☐	
2. Fences, gates, and signs (East Fenced Enclosure):	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?	☒	☐	
b. Have any fenceposts been damaged or their anchoring weakened?	☒	☐	
c. Is the gate intact and functional?	☐	☒	
d. Does the gate show evidence of tampering or damage?	☒	☐	
e. Was the gate locked?	☒	☐	
f. Are any of the use restriction signs damaged or missing?	☒	☐	
g. Are all use restriction signs legible?	☒	☐	
h. How many use restriction signs need to be replaced?		0	
i. Other?	☒	NA	
3. Monuments:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have landfill monuments been disturbed?	☒	☐	
b. Do natural processes threaten the integrity of any landfill monuments?	☒	☐	
c. Is there excessive vegetation around the landfill monuments?	☒	☐	
d. Other?	☒	NA	
4. Neutron Access Pads:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have neutron access pads been disturbed?	☒	☐	
b. Are well covers for neutron access tubes broken, lost, or otherwise damaged?	☒	☐	
c. Other?	☒	NA	

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)

5. Waste unit cover:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is vegetation growing on the cover?	✓		Discovered new vegetation on top and along the sides of the rip rap rock cover.
h. Is there any obvious damage to the cover or plastic liner?		✓	
i. Other (including trash, debris, etc within fenced area)?		✓	NA
6. Photograph Instructions:			
<ul style="list-style-type: none"> Photographs should be taken to document maintenance/repair needs at the site. These will be used to plan maintenance/repair activities and are not intended for use in the post-closure annual report. Anomalous features or new features (such as changes in adjacent area land use) should be photographed. Other photographs are optional. A photograph log entry will be made for each photograph taken. 			
7. Photograph Documentation:	YES	NO	EXPLANATION
a. Have photographs been taken of the site?	✓		photo documentation of the new vegetation on top and along the sides of the riprap cover.
If yes, how many photos were taken?		4	
If yes, has a photographic log been prepared?	✓		
E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		
3. Is other maintenance/repair necessary?	✓		If yes, describe below
4. Is there obvious damage to the cover or plastic liner?		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Will necessary repairs change the as-built condition of the unit?		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
6. Field conclusions/recommendations: <u>The fencing, UR signs, and aboveground monuments are in great condition. There is evidence of new vegetation on top of the cover and along the side slopes. Vegetation removal and/or applying an herbicide is necessary as a follow-up corrective action.</u>			

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)

E. FIELD CONCLUSIONS (continued)

6. Field conclusions/recommendations (continued):

F. CERTIFICATION

I have conducted an inspection of CAU 112, Area 23 Hazardous Waste Trenches, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, and field notes.

Chief Inspector's Signature: /s/ Glenn Richardson Date: 12/15/09

Printed Name: Glenn Richardson Title: Task Manager

Required Attachments:

1. Field Notes (if any)
2. Photos (or note File Location: S:\NTS\ER Share\Photos\CAU112\2009\12-15-2009 CAU 112 Inspections)

Distribution: Original – Industrial Sites Project Manager
Copy – Task Manager

G. VERIFICATION

I have reviewed this checklist and attachments and have verified that it is complete.

Signature: /s/ Reed Poderis

Date: 12/21/09

Printed Name: Thomas A. Thiele (or designee)

Distribution: Original – Task Manager

POST-CLOSURE INSPECTION CHECKLIST**CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)**Inspection Date and Time: 3/17/10 12:35 PMReason for Inspection: QuarterlyDate of Last Post-Closure Inspection: 12/15/09Reason for Last Post-Closure Inspection: Quarterly

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: Glenn RichardsonTitle: Task Manager

Organization: Environmental Restoration

Assistant Inspector: Dudley EmerTitle: Sr. Scientist

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 92 dated 2/15/2008).
- All documentation must be legible and clear.

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

YES

NO

EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?

✓

2. Has the Post-Closure Permit application been reviewed?

✓

3. Has the Post-Closure Plan been reviewed?

✓

4. Have the site as-built plans and site base map been reviewed?

✓

5. Have the previous inspection reports been reviewed?

✓

a. Were anomalies or trends detected on previous inspections?

✓

b. Was maintenance performed?

✓

Vegetation was removed on top and along the sides of the waste unit cover in Jan. 2010.

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

✓

a. If so, has site repair resulted in a change from as-built conditions?

NA

b. If yes (to 6a), are revised as-built plans available that reflect repair changes?

NA

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)

D. SITE INSPECTION

- The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist. The checklist should be completed during the site inspection.*
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fences, gates, and signs (East Fenced Enclosure):	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Have any fenceposts been damaged or their anchoring weakened?		✓	
c. Is the gate intact and functional?	✓		
d. Does the gate show evidence of tampering or damage?		✓	
e. Was the gate locked?	✓		
f. Are any of the use restriction signs damaged or missing?		✓	
g. Are all use restriction signs legible?	✓		
h. How many use restriction signs need to be replaced?		0	
i. Other?			NA ✓
3. Monuments:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have landfill monuments been disturbed?		✓	
b. Do natural processes threaten the integrity of any landfill monuments?		✓	
c. Is there excessive vegetation around the landfill monuments?		✓	
d. Other?			NA ✓
4. Neutron Access Pads:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have neutron access pads been disturbed?		✓	
b. Are well covers for neutron access tubes broken, lost, or otherwise damaged?		✓	
c. Other?			NA ✓

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)

5. Waste unit cover:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is vegetation growing on the cover?		✓	Noticed sprouts of vegetation on the cover, but it was not significant for triggering a corrective action.
h. Is there any obvious damage to the cover or plastic liner?		✓	
i. Other (including trash, debris, etc within fenced area)?		✓	NA

6. Photograph Instructions:

- Photographs should be taken to document maintenance/repair needs at the site. These will be used to plan maintenance/repair activities and are not intended for use in the post-closure annual report.
- Anomalous features or new features (such as changes in adjacent area land use) should be photographed.
- Other photographs are optional.
- A photograph log entry will be made for each photograph taken.

7. Photograph Documentation:	YES	NO	EXPLANATION
a. Have photographs been taken of the site?		✓	Photos are not required at this CAU.
If yes, how many photos were taken?		—	N/A
If yes, has a photographic log been prepared?			N/A

E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		
3. Is other maintenance/repair necessary?		✓	If yes, describe below
4. Is there obvious damage to the cover or plastic liner?		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Will necessary repairs change the as-built condition of the unit?		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)

6. Field conclusions/recommendations: *Overall site conditions are great. There is no evidence of damage to the aboveground monuments. The UR signage and fencing is intact and well-maintained. Small vegetation is beginning to sprout on top and along the sides of the rip rap cover, but are not significant enough to warrant a follow-up action. The rip rap*

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)

E. FIELD CONCLUSIONS (continued)

6. Field conclusions/recommendations (continued): *cover will be monitored during the next quarterly inspection for advanced vegetation growth. There are no corrective actions necessary at this site.*

F. CERTIFICATION

I have conducted an inspection of CAU 112, Area 23 Hazardous Waste Trenches, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, and field notes.

Chief Inspector's Signature: */s/ Glenn Richardson* Date: *3/17/10*

Printed Name: *Glenn Richardson* Title: *Task Manager*

Required Attachments:

1. Field Notes (if any)
2. Photos (or note File Location: S:\NTS\ER Share_____)

Distribution: Original – Industrial Sites Project Manager
Copy – Task Manager

G. VERIFICATION

I have reviewed ☒ this checklist and attachments and have verified that it is complete.

Signature: */s/ Reed Poderis*

Date: *4/20/10*

Printed Name: *Thomas A. Thiele (or designee)*

Distribution: Original – Task Manager

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)

Inspection Date and Time: 6/23/10 12:10	Reason for Inspection: Quarterly
Date of Last Post-Closure Inspection: 3/17/10	Reason for Last Post-Closure Inspection: Quarterly
Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada	
Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project	
Chief Inspector: Glenn Richardson	Title: Task Manager
Assistant Inspector: Dorey Emer	Title: Sr Scientist
Organization: Environmental Restoration	

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 92 dated 2/15/2008).
- All documentation must be legible and clear.

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

	YES	NO	EXPLANATION (required if shaded box is checked)
1. Has the Post-Closure Permit been reviewed?	✓		
2. Has the Post-Closure Permit application been reviewed?	✓		
3. Has the Post-Closure Plan been reviewed?	✓		
4. Have the site as-built plans and site base map been reviewed?	✓		
5. Have the previous inspection reports been reviewed?	✓		
a. Were anomalies or trends detected on previous inspections?		✓	
b. Was maintenance performed?		✓	
6. Have the site maintenance and repair records been reviewed?	✓		
a. If so, has site repair resulted in a change from as-built conditions?			NA
b. If yes (to 6a), are revised as-built plans available that reflect repair changes?			NA

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)

D. SITE INSPECTION

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fences, gates, and signs (East Fenced Enclosure):	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Have any fenceposts been damaged or their anchoring weakened?		✓	
c. Is the gate intact and functional?	✓		
d. Does the gate show evidence of tampering or damage?		✓	
e. Was the gate locked?	✓		
f. Are any of the use restriction signs damaged or missing?		✓	
g. Are all use restriction signs legible?	✓		
h. How many use restriction signs need to be replaced?	0		
i. Other?			NA ✓
3. Monuments:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have landfill monuments been disturbed?		✓	
b. Do natural processes threaten the integrity of any landfill monuments?		✓	
c. Is there excessive vegetation around the landfill monuments?		✓	
d. Other?			NA ✓
4. Neutron Access Pads:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have neutron access pads been disturbed?		✓	
b. Are well covers for neutron access tubes broken, lost, or otherwise damaged?		✓	
c. Other?			NA ✓

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)

5. Waste unit cover:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is vegetation growing on the cover?	✓		Sparsely Vegetation growing on cover - Recommend Removal
h. Is there any obvious damage to the cover or plastic liner?		✓	
i. Other (including trash, debris, etc within fenced area)?		✓	NA

6. Photograph Instructions:

- Photographs should be taken to document maintenance/repair needs at the site. These will be used to plan maintenance/repair activities and are not intended for use in the post-closure annual report.
- Anomalous features or new features (such as changes in adjacent area land use) should be photographed.
- Other photographs are optional.
- A photograph log entry will be made for each photograph taken.

7. Photograph Documentation:	YES	NO	EXPLANATION
a. Have photographs been taken of the site?	✓		Photos of typical vegetation
If yes, how many photos were taken?	4		
If yes, has a photographic log been prepared?	✓		

E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		
3. Is other maintenance/repair necessary?	✓		If yes, describe below
4. Is there obvious damage to the cover or plastic liner?		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Will necessary repairs change the as-built condition of the unit?		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)

6. Field conclusions/recommendations: Recommend Removal of Vegetation
& Spraying for Weed Control.
Site Conditions & Signage in good
Shape.

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)

E. FIELD CONCLUSIONS (continued)

6. Field conclusions/recommendations (continued):

F. CERTIFICATION

I have conducted an inspection of CAU 112, Area 23 Hazardous Waste Trenches, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, and field notes.

Chief Inspector's Signature: /s/ Glenn Richardson Date: 6/23/10

Printed Name: Glenn Richardson Title: Task Manager

Required Attachments:

1. Field Notes (if any)
2. Photos (or note File Location: S:\NTS\ER Share\Photos\CAU 112\2010\06-23-2010 inspection - Vigen cover

Distribution: Original – Industrial Sites Project Manager
Copy – Task Manager

G. VERIFICATION

I have reviewed this checklist and attachments and have verified that it is complete.

Signature: /s/ Reed Poderis

Date: 7/26/10

Printed Name: Thomas A. Thiele (or designee)

Distribution: Original – Task Manager

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)

Inspection Date and Time: 9/8/10 12:25 PM

Reason for Inspection: Quarterly

Date of Last Post-Closure Inspection: 6/23/10

Reason for Last Post-Closure Inspection: Quarterly

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: Glenn Richardson

Title: Task Manager

Organization: Environmental Restoration

Assistant Inspector: None

Title: —

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

- Complete all checklist items.
- If a SHADED BOX is checked, provide detailed information regarding what was found and/or appropriate references to other documents that have the information (e.g., Maintenance Order Form for CAU 92 dated 2/15/2008).
- All documentation must be legible and clear.

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

YES NO EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?

✓

2. Has the Post-Closure Permit application been reviewed?

✓

3. Has the Post-Closure Plan been reviewed?

✓

4. Have the site as-built plans and site base map been reviewed?

✓

5. Have the previous inspection reports been reviewed?

✓

a. Were anomalies or trends detected on previous inspections?

✓

b. Was maintenance performed?

✓

Vegetation was removed on the top and along the side slope of the cover in Aug. 2010.

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

✓

a. If so, has site repair resulted in a change from as-built conditions?

✓

NA

b. If yes (to 6a), are revised as-built plans available that reflect repair changes?

✓

NA

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, digital storage drive, and extra batteries
- Keys to locks
- Clipboard
- Tape measure
- Radio, pager, etc.
- Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- Other miscellaneous support equipment

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)
D. SITE INSPECTION

- *The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.* The checklist should be completed during the site inspection.
- If a shaded box is checked, add detailed comments to document the results of the site inspection. Information provided should be of sufficient detail to enable reconstruction of observations regarding field conditions. Information can take the form of written narrative, sketches, measurements, and annotated site maps, all of which should be placed on additional attachments (if needed) and cross-reference appropriately. Attach the additional pages and number all pages upon completion of the inspection. The completed checklist is part of the field record of the inspection.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes, and additional field notes are not required if the checklist and associated attachments adequately describe site conditions.

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fences, gates, and signs (East Fenced Enclosure):	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Have any fenceposts been damaged or their anchoring weakened?		✓	
c. Is the gate intact and functional?	✓		
d. Does the gate show evidence of tampering or damage?		✓	
e. Was the gate locked?	✓		
f. Are any of the use restriction signs damaged or missing?		✓	
g. Are all use restriction signs legible?	✓		
h. How many use restriction signs need to be replaced?		0	
i. Other?			NA ✓
3. Monuments:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have landfill monuments been disturbed?		✓	
b. Do natural processes threaten the integrity of any landfill monuments?		✓	
c. Is there excessive vegetation around the landfill monuments?		✓	
d. Other?			NA ✓
4. Neutron Access Pads:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have neutron access pads been disturbed?		✓	
b. Are well covers for neutron access tubes broken, lost, or otherwise damaged?		✓	
c. Other?			NA ✓

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)

5. Waste unit cover:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is vegetation growing on the cover?		✓	
h. Is there any obvious damage to the cover or plastic liner?		✓	
i. Other (including trash, debris, etc within fenced area)?		✓	NA

6. Photograph Instructions:

- Photographs should be taken to document maintenance/repair needs at the site. These will be used to plan maintenance/repair activities and are not intended for use in the post-closure annual report.
- Anomalous features or new features (such as changes in adjacent area land use) should be photographed.
- Other photographs are optional.
- A photograph log entry will be made for each photograph taken.

7. Photograph Documentation:	YES	NO	EXPLANATION
a. Have photographs been taken of the site?		✓	Photos are not required at this RCRA site.
If yes, how many photos were taken?		-	N/A
If yes, has a photographic log been prepared?		✓	N/A

E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		
3. Is other maintenance/repair necessary?		✓	If yes, describe below
4. Is there obvious damage to the cover or plastic liner?		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)
5. Will necessary repairs change the as-built condition of the unit?		✓	If "yes", describe below and the Task Manager must complete the "Follow-up Actions" (not part of checklist)

6. Field conclusions/recommendations: The use restriction signage and fencing are in excellent condition. There was no indication of subsidence or settling on the rip-rap cover. Also, there was no evidence of new vegetation growth on the top and/or side slope of the cover. The aboveground monuments are not damaged and appear to be in

POST-CLOSURE INSPECTION CHECKLIST

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES - CAS 23-21-02: Area 23 Haz. Waste Trenches (RCRA)

E. FIELD CONCLUSIONS (continued)

6. Field conclusions/recommendations (continued): good condition. There are no issues or concerns at this site.

F. CERTIFICATION

I have conducted an inspection of CAU 112, Area 23 Hazardous Waste Trenches, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, and field notes.

Chief Inspector's Signature: /s/ Glenn Richardson Date: 9/8/10

Printed Name: Glenn Richardson Title: Task Manager

Required Attachments:

1. Field Notes (if any)
2. Photos (or note File Location: S:\NTS\ER Share_____)

Distribution: Original – Industrial Sites Project Manager
Copy – Task Manager

G. VERIFICATION

I have reviewed this checklist and attachments and have verified that it is complete.

Signature: /s/ Reed Poderis

Date: 10/5/10

Printed Name: Thomas A. Thiele (or designee)

Distribution: Original – Task Manager

APPENDIX B.

FIELD NOTES

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DECEMBER 15, 2009

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RCRA POST-CLOSURE Inspections - 12/15/09

Personnel: Ted Zaferatos (NDEP)
G. Richardson (NSTec-TM)
B. Doyle (NSTec-Sr. Scientist)

Scope: Perform quarterly post closure site inspections for CAUs: 92, 110, + 112
Perform semi-annual post closure site inspections for CAU 90

Weather: Clear, Light ^{Cool} Breeze, Mid 40s

Equipment: Camera, Measuring Ruler

PPE: Standard Level D (No Hard Hats necessary)

9:00AM - Leaving Mercury in route to Area 2 Bitcutter (CAU 90)

9:40AM - Arrived @ CAU 90 - Area 2 Bitcutter Containment

A tailgate safety briefing was ~~discussed~~^{by} conducted to discuss potential hazards associated with slips/trips/falls. Biological hazards and cold stress conditions were also mentioned. A site inspection was performed that confirmed the UR signs and chain link fencing were in excellent condition. There was no evidence of animal burrowing or vegetation within the fenced area or around the concrete monument pad. In addition, there was no evidence of settling on the soil cover. Photos. were taken as required. Leaving CAU 90 at 9:55 AM.

10:15 AM - Arrived @ CAU 110 - U-3ax/b1

Inspected the site to confirm the fencing, UR signage, and vegetative cover were in good condition. Noticed various animal burrows that warranted a follow-up action. Also, discovered

SIGNATURE /s/: Glenn Richardson

DATE

12/15/09

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DATE

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subsidence greater than 6 in. deep that extended from 3-8 ft. in approx. 5 different areas along the East edge of the cover. Subsidence repairs are required within 60 days. In addition, any excess soil ~~used~~^{LR} available will be used to backfill the animal burrows. There was no evidence of damage to the at-grade concrete monuments on the waste unit cover. Repairs will be coordinated with engineering support. Required photos were taken of the site and subsidence areas.

11:15 AM - Arrived @ CAU 92 - Area 6 Decon Pond

Performed a site inspection to discover damage to the wave barriers on the east and NE side of the chain-link fence. Repairs are necessary and will be completed within 60 days. There was some standing water along the north and SE edge of the cover, but nothing was actually on the cover surface to warrant a follow-up action. The UR signage and radiological signage were in great condition. No evidence of settling on the cover or vegetation. The cover was in a good condition with no animal burrows. The surface grade monuments showed no sign of damage. The site fencing was secured and lock attached to the entrance gate. Photos were taken as required.

12:00 PM - Arrived @ CAU 112 - Area 23 Haz. Waste Trenches

A drive-around inspection was performed where we noticed new vegetation growth on ~~the~~^{the} top of rip rap rock cover and along the side slopes. The vegetation will be removed or an herbicide spray will be applied within 60 days. The UR signage and fencing were in good condition. The aboveground monuments were sturdy and intact. The site was well-secured.

12:05 PM - End of PCM RCRA Inspections

/s/ Glenn Richardson

MARCH 17, 2010

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RCRA Post Closure Inspections - 3/17/10.

Personnel: Kevin Cabbie (NNSA)

Ted Zaferatos (NDEP)

5 Glenn Richardson, Dudley Emer, Dave Anderson (NSTec)
Task Mgr. Sr. Scientist BiologistScope: Perform quarterly post closure site inspections for CAMs: 92, 110, and 112
Perform semi-annual post closure site inspections for CAU 91.

0 Weather: High 50s - Low 60s, Clear w/ Sunny Skies

PPE: Standard Level D (No hard hats necessary)

9:45 AM - Leaving Mercury in route to Area 3 U3fi Injection Well (CAU 91)

10:25 AM - Arrived @ CAU 91 - Area 3 U3fi Injection Well

5 Conducted a tailgate safety briefing to discuss common OSHA hazards such as slips/trips/falls, biological hazards, and heat stress conditions to reinforce hydration. We also discussed radiological hazards & postings.

A site inspection was performed to confirm the UR signage, chain-link fencing, and aboveground monument is in excellent condition. There was no
0 vegetation inside the fenced area or specifically around the concrete pad. There was no evidence of animal burrows in the area. Overall conditions at this site were great. There are no corrective actions necessary.10:45 AM - Arrived @ CAU 110 - Area 3 WMD U-3ax/bl (CAU 110) We met Dave
Anderson w/ Ecological Services, to observe the new vegetation that he and his
5 team re-seeded and replanted on the east portion of the soil cover. Inspection results confirmed the UR signage, fencing, and surface grade monuments are in excellent condition. The subsidence repairs that were done in Jan. 2010 are stable and in good condition. No evidence of new

Work continued to Page 208

SIGNATURE /s/: Glenn Richardson

DATE

3/17/10

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

subsidence features or settling. The new vegetation that was reestablished on the east portion of the cover was protected by temporary fencing to prevent intrusion by small animals. There were some small animal burrows noticed at the site, but were not determined to be significant enough to warrant a corrective action. There were no issues or concerns at this site.

11:50 AM - Arrived @ CAU 92 - Area 6 Decon Pond

The UR signage, radiological signage, fencing, and surface grade monuments were in good condition. Since repairs were made to the wave barriers in Jan. 2010, there were no breaches noticed. There was no evidence of vegetation, subsidence, or settling on the waste unit cover. Standing water was noticed inside the fence line along the north and SW edges of the cover, but no standing water was observed on the actual cover. There are no issues warranting follow-up action at this site.

12:35 PM - Arrived @ CAU 112 - Area 23 Hazardous Waste Trenches

A drive-around inspection was performed to confirm the UR signage, fencing, and aboveground monuments were in great condition. The access gate was locked and secured upon arrival. There was some small evidence of new vegetation sprouting on top and along the slope of the rip rap cover, but was not significant enough to warrant a follow-up corrective action. The rip rap cover will be monitored for an advanced stage of vegetation growth during the next quarterly inspection period. This site has no concerns or issues.

12:40 PM - End of PCM RCRA Inspections

/s/ Glenn Richardson

3/17/10

JUNE 23, 2010

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RCRA Post Closure Inspections - 6/23/10

Personnel: Tiffany Lantow (NNSA)
Glenn Richardson (NSTec) - Task Mgr.
Dudley Emer (NSTec) - Sr. Scientist

5

Scope: Perform quarterly post closure site inspections at CAUs: 92, 110, & 111
Perform semi-annual post closure site inspections at CAU 90.

10

Weather: High 90s - Low 100s, Sunny, Clear Skies
PPE: Standard Level D (No hard hats required)

15

9:25 AM - Leaving Mercury in route to Area 2 Bitcutter (CAU 90)
10:05 AM - Arrived @ CAU 90 and conducted a brief tailgate
safety meeting to discuss common OSHA hazards, heat stress
conditions and biological hazards. Radiological hazards will be
covered before accessing CAU 110 43ax/bl.

20

10:15 AM - Performed a site inspection @ CAU 90 to confirm the
UR signage, chain-link fencing, and concrete pads are in excellent
condition. There was no evidence of animal burrows inside the
fenced area. Noticed no vegetation growth around the concrete
pad or inside the fenced area. The overall site conditions were
excellent with no follow-up actions necessary. Photo documentation
was taken at the site.

25

10:35 AM - Arrived @ CAU 110 - Area 3 WMD U-3ax/bl to perform an inspection.
Radiological hazards were briefed at this site prior to entry since it
is within an URMA. The UR signage and radiological postings were
intact and legible. The outer plastic snow fence and gate was

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Work continued from Page 7

BOOK NO.

not stable/upright and was in need of repair. This snow fence is not part of the primary fence surrounding the RCRA site, but was established to provide direct access to U-3ax/bl during RWMS operations in Area 3. As a best mgmt practice, the snow fence and gate will be repaired. The UR fencing around the site is in great condition. There is no evidence of settling or subsidence. The repairs that were done in Jan. 2010 are stable and in great condition. The new vegetation that was re-seeded and re-planted appears to be growing successfully. Even though there are a few small animal burrows, there is no evidence of significant animal intrusion warranting a follow-up action by NSTec ecological services. Photo documentation was taken. There are no issues warranting immediate action per the permit requirements. The snow fence repairs will be performed as a BMP.

11:25 AM - Arrived @ CAU 92- Area 6 Decon Pond to perform an inspection. The UR signage was in good condition along with the radiological signage. Noticed the west section of fencing was detached from the fence clamps in certain areas and in need of repair. Also, there was new vegetation growth along the west, south, and north edges of the waste unit cover. The vegetation will require removal and/or herbicide application. There was no evidence of animal intrusion, subsidence, or settling on the cover. The wave barriers along the southwest section of fencing were displaced and in need of repair/replacement. The issues associated with the fencing could be caused by high winds within the general area. All corrective actions noted will be addressed and resolved within the 60-day regulatory compliance period. Photos were taken to document the inspection and repair/maintenance needs.

12:10 PM - Arrived @ CAU 112 - Area 23 Waste ^{Haz.} Trenches to perform an inspection. During the drive around inspection, noticed new vegetation sprouting through the rip rap on top and along the sides of the cover. As a corrective action, vegetation removal and/or herbicide application will occur within sixty days. The aboveground monuments and signage are in good condition. There was no evidence of subsidence or settling on the cover. Photos were taken to document the maintenance/repair needs.

12:18 PM - End of RCRA Site inspections. NNSA is heading back to NLV.

6/23/10

/s/: Glenn Richardson

6/23/10

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SEPTEMBER 8, 2010

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RCRA Post Closure Inspections - 9/8/10

Personnel: Tiffany Lantow (NNSA)

Ted Zaferatos (NDEP)

Glenn Richardson (NSTec) - Task Manager

Scope: Perform quarterly post closure site inspections at CALLs: 92, 110, & 112
 Perform semi-annual post closure site inspections at CAU 91.

PPE: Standard Level D (No hard hats required) Weather: High 90s, Sunny, Windy

9:43AM Departing from Mercury in route to Area 3 U-3fi Injection Well. (CAU 91)

10:25AM Arrived @ CAU 91 U3fi Injection Well site. A brief tailgate safety meeting was held to discuss slips/trips/falls, heat stress conditions, and also alertness towards biological hazards. The UR signage and chain-link fencing were in excellent condition. There was no evidence of animal burrows, settling, or subsidence on the cover. However, a large amount of vegetation had grown on the cover and around the concrete pad. Vegetation removal and/or herbicide application is necessary. The aboveground monument was in good condition and had no indications of damage. Photo documentation was taken. Follow-up actions are required within 60 days. Departed from the site @ 10:40AM in route to CAU 110 U3ax/bl

10:50AM Arrived @ CAU 110 Area 3 WMD U-3ax/bl. Overall site conditions were great. Radiological hazards were briefed prior to performing the site inspection. The vegetation on the cover appeared to be in very good condition, especially those areas that were reseeded and replanted. There was no evidence

of cracks, subsidence, or settling on the cover. There were small animal burrows noticed, but nothing significant to warrant a follow-up action. The at-grade monuments and surrounding fencing were in good condition. The UR signage was intact and legible; however, the radiological signage on the north side of the fence was loose and needs to be tightened. Rad-con will be informed about this follow-up action. Photos were taken of the site and to document maintenance needs. Departed from the site @ 11:25AM in route to CAU 92 ^{Decon Pond}

11:40AM Arrived @ CAU 92 Area 6 Decon Pond to perform an inspection. The UR signage and chain-link fencing are in excellent condition. All radiological postings are intact and legible. Discovered new vegetation sprouting along the south edge of the cover. The surface grade monuments remain in good condition. There were ^{no} subsidence cracks or settling noticed on the cover. Repairs to the wave barriers resulting from the previous quarterly inspection are well-maintained. Photo documentation was taken. A follow-up action is necessary to remove the new vegetation sprouting on the south edge of the cover. Departed from the site @ 11:55AM in route to CAU 112 Haz. Waste Trenches

12:25 PM Arrived @ CAU 112 Area 23 Haz. Waste Trenches. A drive-around inspection was performed to find no issues or concerns. The aboveground monuments are sturdy and intact. There is no evidence of vegetation growth on or along the sides of the rip-rap cover. There are no follow-up actions at this site.

12:35 PM End of Inspections

APPENDIX C.

PHOTOGRAPHS

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PHOTOGRAPH LOG

CORRECTIVE ACTION UNIT	DATE	PHOTOGRAPH NUMBER	DESCRIPTION
90	12/15/2009	1	West Unit Facing North
		2	West Unit Facing East
		3	West Unit Facing South
		4	East Unit Facing South
		5	East Unit Facing West
		6	East Unit Facing North
	06/23/2010	7	West Unit Facing North
		8	West Unit Facing East
		9	West Unit Facing South
		10	East Unit Facing South
		11	East Unit Facing West
		12	East Unit Facing North
91	03/17/2010	13	Inside Facing North
		14	Inside Facing East
		15	Inside Facing South
		16	Inside Facing West
		17	Surface Monument Facing North
		18	Surface Monitoring Well Facing South
		19	Outside Facing North
		20	Outside Facing East
		21	Outside Facing South
		22	Outside Facing West
	09/08/2010	23	Inside Facing North
		24	Inside Facing East
		25	Inside Facing South
		26	Inside Facing West
		27	Surface Monument Facing North
		28	Surface Monitoring Well Facing South
		29	Outside Facing North
		30	Outside Facing East
		31	Outside Facing South
		32	Outside Facing West

PHOTOGRAPH LOG, CONTINUED

CORRECTIVE ACTION UNIT	DATE	PHOTOGRAPH NUMBER	DESCRIPTION
92	12/15/2009	33	Inside Facing North
		34	Inside Facing East
		35	Inside Facing South
		36	Inside Facing West
		37	Outside Facing North
		38	Outside Facing East
		39	Outside Facing South
		40	Outside Facing West
	03/17/2010	41	Inside Facing North
		42	Inside Facing East
		43	Inside Facing South
		44	Inside Facing West
		45	Outside Facing North
		46	Outside Facing East
		47	Outside Facing South
		48	Outside Facing West
	06/23/2010	49	Inside Facing North
		50	Inside Facing East
		51	Inside Facing South
		52	Inside Facing West
		53	Outside Facing North
		54	Outside Facing East
		55	Outside Facing South
		56	Outside Facing West
	09/08/2010	57	Inside Facing North
		58	Inside Facing East
		59	Inside Facing South
		60	Inside Facing West
		61	Outside Facing North
		62	Outside Facing East
		63	Outside Facing South
		64	Outside Facing West

PHOTOGRAPH LOG, CONTINUED

CORRECTIVE ACTION UNIT	DATE	PHOTOGRAPH NUMBER	DESCRIPTION
110	12/15/2009	65	Inside Facing North
		66	Inside Facing East
		67	Inside Facing South
		68	Inside Facing West
		69	Outside Facing North
		70	Outside Facing East
		71	Outside Facing South
		72	Outside Facing West
	03/17/2010	73	Inside Facing North
		74	Inside Facing East
		75	Inside Facing South
		76	Inside Facing West
		77	Outside Facing North
		78	Outside Facing East
		79	Outside Facing South
		80	Outside Facing West
	06/23/2010	81	Inside Facing North
		82	Inside Facing East
		83	Inside Facing South
		84	Inside Facing West
		85	Outside Facing North
		86	Outside Facing East
		87	Outside Facing South
		88	Outside Facing West
	09/08/2010	89	Inside Facing North
		90	Inside Facing East
		91	Inside Facing South
		92	Inside Facing West
		93	Outside Facing North
		94	Outside Facing East
		95	Outside Facing South
		96	Outside Facing West

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Photograph 1: CAU 90, West Unit Facing North, 12/15/2009

Photograph 2: CAU 90, West Unit Facing East, 12/15/2009

Photograph 3: CAU 90, West Unit Facing South, 12/15/2009

Photograph 4: CAU 90, East Unit Facing South, 12/15/2009

Photograph 5: CAU 90, East Unit Facing West, 12/15/2009

Photograph 6: CAU 90, East Unit Facing North, 12/15/2009

Photograph 7: CAU 90, West Unit Facing North, 06/23/2010

Photograph 8: CAU 90, West Unit Facing East, 06/23/2010

Photograph 9: CAU 90, West Unit Facing South, 06/23/2010

Photograph 10: CAU 90, East Unit Facing South, 06/23/2010

Photograph 11: CAU 90, East Unit Facing West, 06/23/2010

Photograph 12: CAU 90, East Unit Facing North, 06/23/2010

Photograph 13: CAU 91, Inside Facing North, 03/17/2010

Photograph 14: CAU 91, Inside Facing East, 03/17/2010

Photograph 15: CAU 91, Inside Facing South, 03/17/2010

Photograph 16: CAU 91, Inside Facing West, 03/17/2010

Photograph 17: CAU 91, Surface Monument Facing North, 03/17/2010

Photograph 18: CAU 91, Surface Monitoring Well Facing South, 03/17/2010

Photograph 19: CAU 91, Outside Facing North, 03/17/2010

Photograph 20: CAU 91, Outside Facing East, 03/17/2010

Photograph 21: CAU 91, Outside Facing South, 03/17/2010

Photograph 22: CAU 91, Outside Facing West, 03/17/2010

Photograph 23: CAU 91, Inside Facing North, 09/08/2010

Photograph 24: CAU 91, Inside Facing East, 09/08/2010

Photograph 25: CAU 91, Inside Facing South, 09/08/2010

Photograph 26: CAU 91, Inside Facing West, 09/08/2010

Photograph 27: CAU 91, Surface Monument Facing North, 09/08/2010

Photograph 28: CAU 91, Surface Monitoring Well Facing South, 09/08/2010

Photograph 29: CAU 91, Outside Facing North, 09/08/2010

Photograph 30: CAU 91, Outside Facing East, 09/08/2010

Photograph 31: CAU 91, Outside Facing South, 09/08/2010

Photograph 32: CAU 91, Outside Facing West, 09/08/2010

Photograph 33: CAU 92, Inside Facing North, 12/15/2009

Photograph 34: CAU 92, Inside Facing East, 12/15/2009

Photograph 35: CAU 92, Inside Facing South, 12/15/2009

Photograph 36: CAU 92, Inside Facing West, 12/15/2009

Photograph 37: CAU 92, Outside Facing North, 12/15/2009

Photograph 38: CAU 92, Outside Facing East, 12/15/2009

Photograph 39: CAU 92, Outside Facing South, 12/15/2009

Photograph 40: CAU 92, Outside Facing West, 12/15/2009

Photograph 41: CAU 92, Inside Facing North, 03/17/2010

Photograph 42: CAU 92, Inside Facing East, 03/17/2010

Photograph 43: CAU 92, Inside Facing South, 03/17/2010

Photograph 44: CAU 92, Inside Facing West, 03/17/2010

Photograph 45: CAU 92, Outside Facing North, 03/17/2010

Photograph 46: CAU 92, Outside Facing East, 03/17/2010

Photograph 47: CAU 92, Outside Facing South, 03/17/2010

Photograph 48: CAU 92, Outside Facing West, 03/17/2010

Photograph 49: CAU 92, Inside Facing North, 06/23/2010

Photograph 50: CAU 92, Inside Facing East, 06/23/2010

Photograph 51: CAU 92, Inside Facing South, 06/23/2010

Photograph 52: CAU 92, Inside Facing West, 06/23/2010

Photograph 53: CAU 92, Outside Facing North, 06/23/2010

Photograph 54: CAU 92, Outside Facing East, 06/23/2010

Photograph 55: CAU 92, Outside Facing South, 06/23/2010

Photograph 56: CAU 92, Outside Facing West, 06/23/2010

Photograph 57: CAU 92, Inside Facing North, 09/08/2010

Photograph 58: CAU 92, Inside Facing East, 09/08/2010

Photograph 59: CAU 92, Inside Facing South, 09/08/2010

Photograph 60: CAU 92, Inside Facing West, 09/08/2010

Photograph 61: CAU 92, Outside Facing North, 09/08/2010

Photograph 62: CAU 92, Outside Facing East, 09/08/2010

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Photograph 67: CAU 110, Inside Facing South, 12/15/2009

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