



**Department of Energy**  
National Nuclear Security Administration  
Nevada Site Office  
P.O. Box 98518  
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JAN 30 2008

Tim Murphy, Chief  
Bureau of Federal Facilities  
Division of Environmental Protection  
2030 East Flamingo Road, Suite 230  
Las Vegas, NV 89119-0818

**SUBMITTAL OF FINAL POST-CLOSURE INSPECTION LETTER REPORT FOR  
CORRECTIVE ACTION UNIT 112: AREA 23 HAZARDOUS WASTE TRENCHES,  
NEVADA TEST SITE, NEVADA, REVISION 0, JANUARY 2008: DOE/NV--1103**

This letter serves as the post-closure monitoring letter report for the above Corrective Action Unit (CAU) for the period October 2006 - September 2007.

Quarterly inspections were conducted on December 20, 2006; March 29, 2007; June 13, 2007; and September 27, 2007, to observe the condition of the gate, use restriction warning signs, monuments, fencing, trenches, soil covers, and monitoring well covers.

The first inspection was conducted on December 20, 2006. Signs, fencing, riprap, monuments, and monitoring well covers were in excellent condition. No cracking, erosion, or subsidence was observed on the covers. No issues or concerns were identified, and no corrective actions were recommended.

The second inspection was conducted on March 29, 2007. Signs, fencing, riprap, monuments, and monitoring well covers were in excellent condition. No cracking, erosion, or subsidence was observed on the covers. Vegetation that was observed to be growing in several locations on the cover was the only identified concern, for which removal was recommended. Vegetation was removed on May 24, 2007.

The third inspection was conducted on June 13, 2007. Signs, fencing, riprap, monuments, and monitoring well covers were in excellent condition. No cracking, erosion, or subsidence was observed on the covers. No issues or concerns were identified, and no corrective actions were recommended.

The fourth inspection was conducted on September 27, 2007. Signs, fencing, riprap, monuments, and monitoring well covers were in excellent condition. No cracking, erosion, or subsidence was observed on the covers. No issues or concerns were identified, and no corrective actions were recommended.

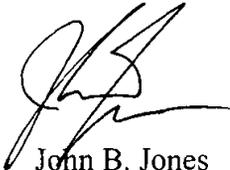
Tim Murphy, Chief

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JAN 30 2008

The post-closure inspection checklists for CAU 112 are attached. Photographs and field notes taken during site inspections are maintained in the project files.

Please direct comments and questions to Kevin Cabble, of my staff, at (702) 295-5000.



John B. Jones  
Acting Federal Project Director  
Environmental Restoration Project

ERP:3830.JR

Enclosures:  
As stated

cc w/encl. (uncontrolled):

C. D. Andres, NDEP, Las Vegas, NV

Public Reading Facility Coordinator, SNJV, Las Vegas, NV (electronic copy)

Northern Nevada Public Reading Room, Carson City, NV (1 electronic copy)

Southern Nevada Public Reading Facility, Las Vegas, NV (2 electronic copies)

Department of Natural Resources & Federal Facilities, Pahrump, NV (electronic copy)

Technical Library, NNSA/NSO, Las Vegas, NV (electronic copy)

NSTec Document Production (electronic copy to OSTI)

R. J. Poderis, NSTec, Las Vegas, NV

G. Richardson, NSTec, Las Vegas, NV

A. J. Silvas, NSTec, Las Vegas, NV

A. T. Urbon, NSTec, Las Vegas, NV

T. A. Thiele, NSTec, Las Vegas, NV

R. F. Boehlecke, SNJV, Las Vegas, NV

EM Records, AMEM, Las Vegas, NV

K. J. Cabble, ERP, NNSA/NSO, Las Vegas, NV

cc w/o encl, via e-mail:

D. C. Loewer, DTRA/CXT1, M/S 645, Mercury, NV

W. R. Griffin, SNJV/DTRA, M/S 645, Mercury, NV

NSTec Technical Information Officer, Las Vegas, NV

FFACO Group, PSG, NNSA/NSO, Las Vegas, NV

E. F. Di Sanza, WMP, NNSA/NSO, Las Vegas, NV

**CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST**

Inspection Date and Time: <u>12/20/06</u>	Reason for Inspection: Quarterly	
Date of Last Post-Closure Inspection: <u>9/19/06</u>	Reason for Last Post-Closure Inspection: Quarterly	
Responsible Agency: Bechtel Nevada Environmental Restoration		
Address: Nevada Test Site, Mercury, Nevada		
Responsible Agency Official: Jeffrey L. Smith, Project Manager		
Chief Inspector: <u>Glenn Richardson</u>	Title: <u>Task Manager</u>	Organization: Environmental Restoration
Assistant Inspector: <u>Shanghn Burnison</u>	Title: <u>Field Support Tech Lead</u>	Organization: Environmental Restoration

**A. GENERAL INSTRUCTIONS**

- All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
- Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
- 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.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
- This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

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

YES	NO	EXPLANATION
-----	----	-------------

- |  |   |   |     |
|--|---|---|-----|
| 1. Has the Post-Closure Permit been reviewed?                        | ✓ |   |     |
| 2. Have the design basis documents been reviewed?                    | ✓ |   |     |
| 3. Have the site as-built plans and site base map been reviewed?     | ✓ |   |     |
| 4. Have the previous inspection reports been reviewed?               | ✓ |   |     |
| a. Were anomalies or trends detected on previous inspections?        |   | ✓ |     |
| b. Was maintenance performed?  |   | ✓ |     |
| 5. Have the site maintenance and repair records been reviewed?       | ✓ |   |     |
| a. Has site repair resulted in a change from as-built conditions?    |   | ✓ |     |
| b. Are revised as-built plans available that reflect repair changes? |   |   | N/A |

**C. SITE INSPECTION PREPARATION**

Assemble the following, as needed, to conduct inspections:

- Camera, film, and 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

## CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		✓	
b. Are there any new roads or trails?		✓	
c. Has there been any change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Has there been a change in the surrounding vegetation?		✓	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		✓	
b. Have any posts been damaged or their anchoring weakened?		✓	
c. Does the gate show evidence of tampering or damage?		✓	
d. Was the gate locked?	✓		
e. Is there any evidence of human intrusion onto the cover?		✓	
f. Is there any evidence of large animal intrusion onto the cover?		✓	
g. Have any signs been damaged or removed? (Number of signs replaced: ___)		✓	
h. Other?			N/A
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		✓	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		✓	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		✓	
d. Other?			N/A
4. Waste unit cover:			
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 animal burrowing?		✓	
e. Is there vegetation growing on the cover?		✓	
g. Other (including trash, debris, etc within fenced area)?		✓	

**CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST**

**E. FIELD CONCLUSIONS**

1. Is there an imminent hazard to the integrity of the unit? (Immediate report required)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Person/Agency to whom report was made:

2. Are more frequent inspections required?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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3. Are existing maintenance/repair actions satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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4. Is other maintenance/repair necessary?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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5. Field conclusions/recommendations: *The signage, fencing, and monuments are in good condition. There was no vegetation growth on the cover. Overall site conditions are great.*

**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:

Date: *12/20/06*

Printed Name: *Glenn Richardson*

Title: *Task Manager*

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST				
Inspection Date and Time: <u>3/29/07</u>		Reason for Inspection: Quarterly		
Date of Last Post-Closure Inspection: <u>12/20/06</u>		Reason for Last Post-Closure Inspection: Quarterly		
Responsible Agency: Bechtel Nevada Environmental Restoration				
Address: Nevada Test Site, Mercury, Nevada				
Responsible Agency Official: Jeffrey L. Smith, Project Manager				
Chief Inspector: <u>Glenn Richardson</u>		Title: <u>Task Manager</u>		Organization: Environmental Restoration
Assistant Inspector: <u>Rob Baumert</u>		Title: <u>Field Tech Lead</u>		Organization: Environmental Restoration
<b>A. GENERAL INSTRUCTIONS</b>				
<ol style="list-style-type: none"> <li>All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.</li> <li>Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.</li> <li>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.</li> <li>Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.</li> <li>This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.</li> </ol>				
<b>B. PREPARATION (To be completed prior to site visit)</b>				
	YES	NO	EXPLANATION	
1. Has the Post-Closure Permit been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
2. Have the design basis documents been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
3. Have the site as-built plans and site base map been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. Have the previous inspection reports been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
a. Were anomalies or trends detected on previous inspections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
b. Was maintenance performed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
5. Have the site maintenance and repair records been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
a. Has site repair resulted in a change from as-built conditions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
b. Are revised as-built plans available that reflect repair changes?	<input type="checkbox"/>	<input type="checkbox"/>	N/A	
<b>C. SITE INSPECTION PREPARATION</b>				
Assemble the following, as needed, to conduct inspections:				
<ol style="list-style-type: none"> <li>Camera, film, and batteries</li> <li>Keys to locks</li> <li>Clipboard</li> <li>Tape measure</li> <li>Radio, pager, etc.</li> <li>Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans</li> <li>Other miscellaneous support equipment</li> </ol>				

## CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		✓	
b. Are there any new roads or trails?		✓	
c. Has there been any change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Has there been a change in the surrounding vegetation?			N/A
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		✓	
b. Have any posts been damaged or their anchoring weakened?		✓	
c. Does the gate show evidence of tampering or damage?		✓	
d. Was the gate locked?	✓		
e. Is there any evidence of human intrusion onto the cover?		✓	
f. Is there any evidence of large animal intrusion onto the cover?		✓	
g. Have any signs been damaged or removed? (Number of signs replaced: ___)		✓	
h. Other?		✓	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		✓	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		✓	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		✓	
d. Other?		✓	
4. Waste unit cover:			
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 animal burrowing?		✓	
e. Is there vegetation growing on the cover?	✓		Vegetation growth was noticed in different areas on the cover.
g. Other (including trash, debris, etc within fenced area)?		✓	

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST			
<b>E. FIELD CONCLUSIONS</b>			
1. Is there an imminent hazard to the integrity of the unit? (Immediate report required)		<input checked="" type="checkbox"/>	
Person/Agency to whom report was made:			
2. Are more frequent inspections required?		<input checked="" type="checkbox"/>	
3. Are existing maintenance/repair actions satisfactory?	<input checked="" type="checkbox"/>		
4. Is other maintenance/repair necessary?		<input checked="" type="checkbox"/>	
5. Field conclusions/recommendations: <i>The signage, fencing, and monuments were in good condition. We discovered vegetation growth in different areas on the cover. The vegetation will be removed within 60 days.</i>			
<b>F. CERTIFICATION</b>			
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:		Date:	<i>3/29/07</i>
Printed Name: <i>Glenn Richardson</i>		Title:	<i>Task Manager</i>

### CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

Inspection Date and Time: <b>6/13/07 3:00 PM</b>	Reason for Inspection: Quarterly	
Date of Last Post-Closure Inspection: <b>3/29/07</b>	Reason for Last Post-Closure Inspection: Quarterly	
Responsible Agency: National Security Technologies - Environmental Restoration		
Address: Nevada Test Site, Mercury, Nevada		
Responsible Agency Official: Jeffrey L. Smith, Project Manager		
Chief Inspector: <b>Glenn Richardson</b>	Title: <b>Task Manager</b>	Organization: Environmental Restoration
Assistant Inspector: <b>Kevin Olsen</b>	Title: <b>Deputy Field Ops Manager</b>	Organization: Environmental Restoration

#### A. GENERAL INSTRUCTIONS

- All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
- Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
- 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.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
- This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

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

	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Have the design basis documents been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Have the site as-built plans and site base map been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Have the previous inspection reports been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Were anomalies or trends detected on previous inspections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Was maintenance performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vegetation noticed in various places on top of the cover was removed on 5/24/07.
5. Have the site maintenance and repair records been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Has site repair resulted in a change from as-built conditions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Are revised as-built plans available that reflect repair changes?	<input type="checkbox"/>	<input type="checkbox"/>	N/A

#### C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- Camera, film, and 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

### CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		✓	
b. Are there any new roads or trails?		✓	
c. Has there been any change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Has there been a change in the surrounding vegetation?		✓	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		✓	
b. Have any posts been damaged or their anchoring weakened?		✓	
c. Does the gate show evidence of tampering or damage?		✓	
d. Was the gate locked?	✓		
e. Is there any evidence of human intrusion onto the cover?		✓	
f. Is there any evidence of large animal intrusion onto the cover?		✓	
g. Have any signs been damaged or removed? (Number of signs replaced: ___)		✓	
h. Other?			N/A
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		✓	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		✓	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		✓	
d. Other?			N/A
4. Waste unit cover:			
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 animal burrowing?		✓	
e. Is there vegetation growing on the cover?		✓	
g. Other (including trash, debris, etc within fenced area)?		✓	

**CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST**

**E. FIELD CONCLUSIONS**

1. Is there an imminent hazard to the integrity of the unit?  
(Immediate report required)

Person/Agency to whom report was made:

2. Are more frequent inspections required?

3. Are existing maintenance/repair actions satisfactory?

4. Is other maintenance/repair necessary?

5. Field conclusions/recommendations: *The signage, fencing, and above ground monuments are in great condition. Also, there are no signs of vegetation growth since the last removal activity in May 2007.*

**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:

Date: *6/13/07*

Printed Name: *Glenn Richardson*

Title: *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: <u>9/27/07 12:04 PM</u>	Reason for Inspection: <u>Quarterly</u>
Date of Last Post-Closure Inspection: <u>6/13/07</u>	Reason for Last Post-Closure Inspection: <u>Quarterly</u>
Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada	
Responsible Facility Owner: Jeffrey L. Smith, Deputy Manager, Environmental Restoration	
Chief Inspector: <u>Glenn Richardson</u>	Title: <u>Task Manager</u> Organization: Environmental Restoration
Assistant Inspector: <u>Mario Vasquez</u>	Title: <u>ER Safety</u> Organization: Environmental Restoration

**A. GENERAL INSTRUCTIONS**

- All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
- Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
- 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.
- Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
- This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes attached, and recommendations and conclusions.

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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the Post-Closure Permit application been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Has the Post-Closure Plan been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Have the site as-built plans and site base map been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Have the previous inspection reports been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Were anomalies or trends detected on previous inspections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Was maintenance performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Vegetation removal activities were completed on 5/24/07 as a result of the last inspection.</i>
If maintenance was performed, has a copy of the maintenance records been obtained?	<input type="checkbox"/>	<input type="checkbox"/>	NA <input checked="" type="checkbox"/>
6. Have the site maintenance and repair records been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. If so, has site repair resulted in a change from as-built conditions?	<input type="checkbox"/>	<input type="checkbox"/>	NA <input checked="" type="checkbox"/>
b. If yes (to 6a), are revised as-built plans available that reflect repair changes?	<input type="checkbox"/>	<input type="checkbox"/>	NA <input checked="" type="checkbox"/>

**C. SITE INSPECTION PREPARATION**

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

**POST-CLOSURE INSPECTION CHECKLIST**

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

**D. SITE INSPECTION**

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

5. Photograph Documentation (optional):	YES	NO	EXPLANATION
a. Have photographs been taken of the site?		<input checked="" type="checkbox"/>	
If yes, how many photos were taken?			
If yes, has a photographic log been prepared?			Log number:

E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		<input checked="" type="checkbox"/>	
2. Are existing maintenance/repair actions satisfactory?	<input checked="" type="checkbox"/>		
3. Is other maintenance/repair necessary?		<input checked="" type="checkbox"/>	
4. Is there an imminent hazard to the integrity of the site? (Immediate report required)		<input checked="" type="checkbox"/>	

Date reported: \_\_\_\_\_

Person/Agency to whom report was made: \_\_\_\_\_

5. Field conclusions/recommendations: *There was no evidence of vegetation on the cover. The signs, fencing, and monuments were in 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: \_\_\_\_\_

Date: *9/27/07*

Printed Name: *Glenn Richardson*

Title: *Task Manager*

Attachments (check if attached):

- Field Notes
- Maintenance records