



Land Use Manager Application

Long-Term Stewardship Tracking and Reporting
of Institutional and Engineering Controls
at the Oak Ridge NPL Site

POINTS OF CONTACT

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Water Resources Restoration Program:

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Implementing programs

- ✓ **Water Resources Restoration Program (WRRP)**
 - remedy effectiveness monitoring
 - verify and track controls
 - reporting (annual Remediation Effectiveness Report [RER], CERCLA Five-Year Review, RCRA post-closure annual reports)

- ✓ **Other Implementing Programs:**
 - ✓ **Surveillance & Maintenance Programs (S&M)**
 - implement controls
 - site inspections
 - maintenance
 - checksheets

 - ✓ **Radiation Protection Programs (RADCON)**
 - compliance with DOE orders





Land Use Manager Application

▶ What

- Web-based tool to enable implementing programs and WRRP to implement, track, maintain, and verify controls

▶ Why

- There are over 45 CERCLA sites at OR with engineering controls and/or institutional controls requiring over 200 inspections each year at various frequencies
- Tracking will continue to increase as actions are completed

▶ How

- Incorporates stewardship information from EM, SC, NNSA programs and multiple contractors:

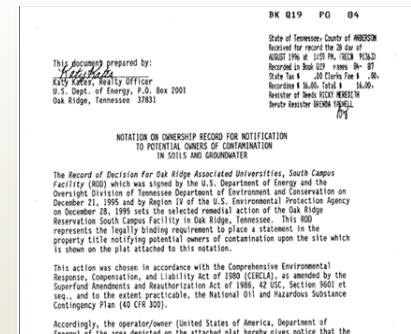




Land Use Manager Application

Information in Land Use Manager

- ✓ Engineered controlled sites (burial grounds, asphalt/soil covers)
- ✓ CERCLA treatment systems
- ✓ Groundwater monitoring wells requiring routine inspections
- ✓ Sites with access controls (fences, gates, signs, security patrols)
- ✓ Site with advisory postings and dredging permits (TDEC)
- ✓ Institutional controlled sites (deeds or license agreements)





Important Elements of the Land Use Manager Application

► System Features

- Efficient tracking and accountable record of regulatory requirements and compliance (Ensures nothing is missed!)
- Automatic email reminders of inspections and maintenance requests
- Configuration control, access is controlled (password protected)
- Documents and tracks deficiencies and corrective actions taken
- Easy access in field/paperless



► System Benefits

- Data repository – site info, types of controls, contaminant data, decision documents, deeds, maps, as-builts, etc.
- Metrics, trending
- Integrated with GIS
- Standardized data content and reports

Inspection Activity			
Item	Last 7	YTD<2014>	FY<2013>
Engineered	5	436	377
Institutional	-	-	-
Waste Management	0	113	85
Treatment System	0	69	23
Wells	0	132	118
Slab	0	0	0
Facility	0	176	0
SMR-Normal	0	66	33
SMR-Urgent	0	0	0
Events	0	6	4
Support Requests	0	149	6





Important Elements of the Land Use Manager Application

- ▶ Public maps and reports (planned)

OAK RIDGE ENVIRONMENTAL INFORMATION SYSTEM

WHAT IS OREIS? OREIS SPATIAL QUERY TOOL

WEB ACCESS INSTRUCTIONS ACCESS OTHER OREIS DATA

OREIS INFORMATION GENERAL INTEREST


[SSAB Map](#) [Land Use Management Map](#) [TORC](#) (10mb download)

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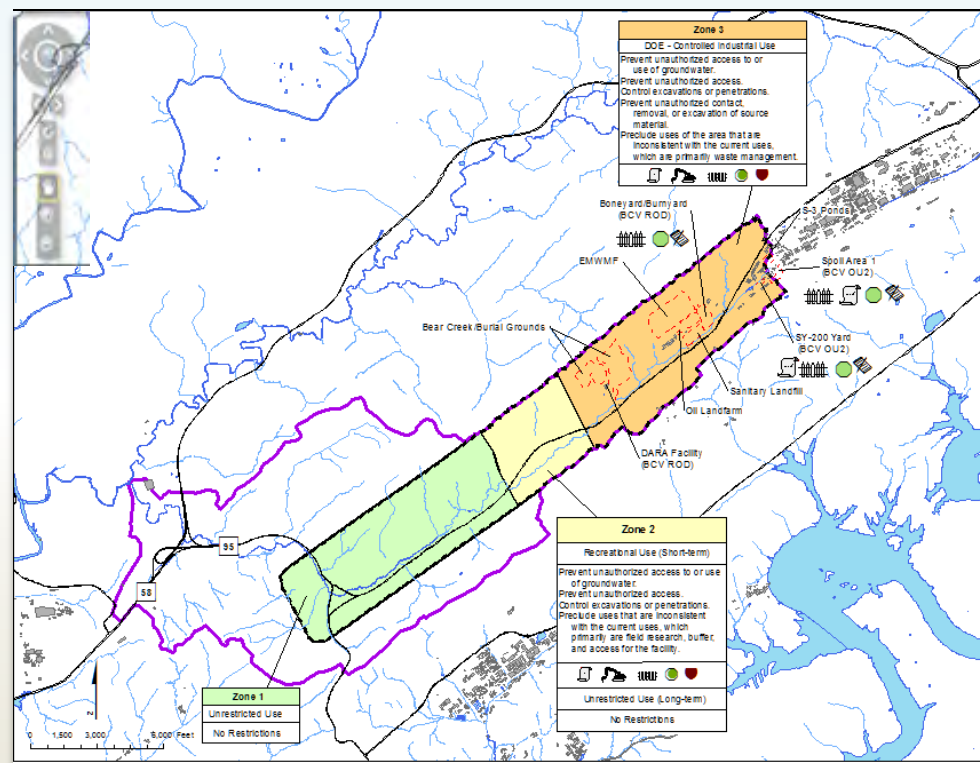
U.S. Department of Energy





Important Elements of the Land Use Manager Application

- ▶ Interactive GIS maps that provide public information on controls



PLANT:	Y-12 National Security Complex
WATERSHED:	Bear Creek Valley
SITE:	<p>Boneyard/Burnyard</p> <p>The Boneyard/Burnyard was one of the first areas established in Bear Creek Valley for disposal of wastes generated at the Y-12 Plant. The Boneyard/Burnyard consists of three former waste disposal sites: the Boneyard (used for noncombustible materials from 1943 to 1970), the Burnyard (used for combustible materials in the 1960s), and the Hazardous Chemicals Disposal Area (HCDA, used for disposal of ignitable, reactive, corrosive, and/or toxic wastes from 1975 to 1981). The HCDA was capped with a RCRA-type cap in 1989, but is not regulated as a closed RCRA treatment, storage, or disposal unit. Remedial actions at Boneyard/Burnyard (waste excavation, backfilling, and site and NT-3 channel restoration) were initiated in May 2002 and completed in July 2003.</p>
	<p>Signs and fencing along the boundary of Boneyard/Burnyard site</p>
CERCLA DECISION DOCUMENT:	<p>Record of Decision for the Phase I Activities in Bear Creek Valley at the Oak Ridge Y-12 Plant (DOE/OR/01-1750&D4)</p> <p>http://www.ero.doe.gov/PAODOEIC/Unsig/DOE-OR-01-1750&D4.pdf</p>
REGULATORY DRIVERS:	CERCLA
INSPECTION/COMPLIANCE DETAILS:	<p>2012 Remediation Effectiveness Report (DOE/OR/01-2544&D2)</p> <p>http://www.oakridge.doe.gov/PAODOEIC/Unsig/A.6100.064.218.1.pdf</p>
CONTAMINANTS OF CONCERN:	<ul style="list-style-type: none"> • Uranium • Mercury • Volatile Organic Compounds (VOCs)
CONTROLS:	<ul style="list-style-type: none"> • CERCLA



Important Elements of the Land Use Manager Application

A screenshot of a web browser window displaying the login page for the Land Use Manager Application. The browser's address bar shows the URL "https://luc.ettp.energy.gov/" and is circled in red. The page features the UCOR logo (URS | CH2M Oak Ridge LLC) and a red octagonal icon with a hand. The text "Please identify yourself." is displayed above the login fields. There are two input fields for "User name:" and "Password:". Below the fields are "Sign In" and "Register" buttons. A large, golden key is positioned to the right of the login fields. The browser window includes standard navigation and window control icons.



Important Elements of the Land Use Manager Application



Home **GIS** LUM Calendar Wiki Support Administrator



OAK RIDGE



Today's Events: Tuesday, April 8, 2014

Quarterly Well Inspections (WELL INSPECTION)
04/01/2014 - 04/30/2014 Michael Quail [Request Info](#)

Inspection Activity				Managed Sites	
Item	Last 7	YTD<2014>	FY<2013>	Item	Current
Engineered	1	275	369	Engineered	68
Institutional	0	7	-	Institutional	32
Waste Management	0	57	85	Waste Management	8
Treatment System	0	28	23	Treatment System	7
Wells	0	70	118	Well	1735
Slab	0	0	0	Slab	0
Facility	0	43	2	Facility	63
SMR-Normal	0	38	33		
SMR-Urgent	0	0	0		
Events	0	6	4		
Support Requests	4	75	6		

Metrics

Inspections
SMR

Quick Links

Inspections

Help

Support Request
User Guide

Quick Start Guides

Facility Inspector
Treatment System



Important Elements of the Land Use Manager Application



Home GIS LUM Calendar Wiki Support Administrator

Go Back

Inspection Type:

Status: User:

Plant: Region:

Search

Reset

SITE	PROGRAM	INSPECTION DATE	INSPECTOR ID	Due Date	Status
UNITED NUCLEAR CORPORATION DISPOSAL SITE RA	CERCLA - Twice per year	...	...	04/01/2014	DUE
UNITED NUCLEAR CORPORATION DISPOSAL SITE RA	BMP - Quarterly	...	...	04/01/2014	DUE
KERR HOLLOW QUARRY RA	BMP - Monthly	...	...	04/01/2014	DUE
KERR HOLLOW QUARRY RA	BMP - Annually	...	...	04/01/2014	DUE
FILLED COAL ASH POND RA	BMP - Monthly	...	...	04/01/2014	DUE
FILLED COAL ASH POND RA	CERCLA - Quarterly	...	...	04/01/2014	DUE
CHESTNUT RIDGE SECURITY PITS	BMP - Monthly	...	...	04/01/2014	DUE
CHESTNUT RIDGE SEDIMENT DISPOSAL BASIN	BMP - Monthly	...	...	04/01/2014	DUE
EAST CHESTNUT RIDGE WASTE PILE - ENGINEERED	BMP - Monthly	...	...	04/01/2014	DUE



Important Elements of the Land Use Manager Application

[Home](#) [GIS](#) [LUM](#) [Calendar](#) [Wiki](#) [Support](#) [Administrator](#)

LAND USE MANAGER INSPECTION CHECKLIST
 CHESTNUT RIDGE SECURITY PITS

2014-APR-10-BMP-Monthly

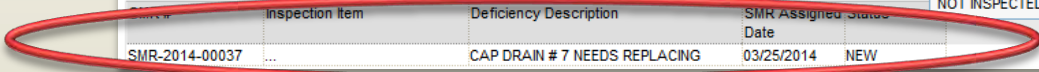
Type of Inspection: BMP-Monthly
Current Inspector: Sally Brown
This Inspection: 04/10/2014 14:51
Report Status: OPEN
Override Requirement: BMP-MONTHLY
Comments::

A: Inspection Checklist

Inspection Item	Description	DUE_DATE	In Compliance	Existing Open SMR's	Open New SMR
CAP DRAIN(S)	No evidence of missing or damaged screens, broken piping on 18 cap drains.	04/01/2014	NOT INSPECTED	[SMR-2014-00037]	
DRAINAGE CONTROL SYSTEM	No evidence of settlement, ponding (> 25 square feet in area) or blockage or erosion of run-on or run-off drainage features.	04/01/2014	NOT INSPECTED	[]	
RODENT DAMAGE	No evidence of burrowing and other damage from rodents.	04/01/2014	NOT INSPECTED	[]	
SIGNS	No evidence of missing, damaged, or deteriorated signs or incorrect contact information.	04/01/2014	NOT INSPECTED	[]	
SUBSIDENCE OR SETTLEMENT	No evidence of visible subsidence or settlement of the cover over six inches deep and > 25 square feet in area.	04/01/2014	NOT INSPECTED	[]	
UNAUTHORIZED MATERIALS	No evidence of unauthorized materials (e.g., debris, trash, or containers) placed within the area.	04/01/2014	NOT INSPECTED	[]	
VEGETATIVE COVER	No evidence of dead spots > 25 square feet, gullies or rills around perimeter, excessive weeds, or deep-rooted vegetation.	04/01/2014	NOT INSPECTED	[]	
BENCHMARKS	Five benchmarks not missing, damaged, or inaccessible.	04/01/2014	NOT INSPECTED	[]	

B: Open SMR's for ENG AND INST REQUIREMENTS

SMR ID	Inspection Item	Deficiency Description	SMR Assigned Date	Status
SMR-2014-00037	...	CAP DRAIN # 7 NEEDS REPLACING	03/25/2014	NEW



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[Go Back](#)

Inspection Type:

Status: User:

Plant: Region:

SITE	PROGRAM	INSPECTION DATE	INSPECTOR ID	Due Date	Status
KERR HOLLOW QUARRY RA	BMP - Monthly	02/24/2014 16:25	David Watson	02/01/2014	CLOSED
KERR HOLLOW QUARRY RA	BMP - Monthly	03/26/2014 13:52	Bo McNeil	03/01/2014	CLOSED
FILLED COAL ASH POND RA	BMP - Monthly	02/24/2014 15:57	David Watson	02/01/2014	CLOSED
FILLED COAL ASH POND RA	BMP - Monthly	03/26/2014 14:06	Bo McNeil	03/01/2014	CLOSED
CHESTNUT RIDGE SECURITY PITS	BMP - Monthly	02/26/2014 09:40	David Watson	02/01/2014	CLOSED
CHESTNUT RIDGE SECURITY PITS	BMP - Monthly	03/25/2014 09:48	Bo McNeil	03/01/2014	CLOSED
CHESTNUT RIDGE SEDIMENT DISPOSAL BASIN	BMP - Monthly	02/27/2014 12:43	David Watson	02/01/2014	CLOSED
CHESTNUT RIDGE SEDIMENT DISPOSAL BASIN	BMP - Monthly	03/27/2014 09:24	Olivia Gresham	03/01/2014	CLOSED

Important Elements of the Land Use Manager Application



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LAND USE MANAGER INSPECTION CHECKLIST
CHESTNUT RIDGE SECURITY PITS

2014-MAR-25-BMP-Monthly

Type of Inspection: BMP-Monthly

Current Inspector: Bo McNeil

This Inspection: 03/25/2014 09:48

Report Status: **CLOSED**

Override Requirement: BMP-MONTHLY

Comments::

Submit

Finalize Inspection

A: Inspection Checklist

Inspection Item	Description	DUE_DATE	In Compliance	Existing Open SMR's	Open New SMR
CAP DRAIN(S)	No evidence of missing or damaged screens, broken piping on 18 cap drains.	03/01/2014	DEFICIENT	[SMR-2014-00037]	SMR
DRAINAGE CONTROL SYSTEM	No evidence of settlement, ponding (> 25 square feet in area) or blockage or erosion of run-on or run-off drainage features.	03/01/2014	COMPLIANT	[]	
RODENT DAMAGE	No evidence of burrowing and other damage from rodents.	03/01/2014	COMPLIANT	[]	
SIGNS	No evidence of missing, damaged, or deteriorated signs or incorrect contact information.	03/01/2014	COMPLIANT	[]	
SUBSIDENCE OR SETTLEMENT	No evidence of visible subsidence or settlement of the cover over six inches deep and > 25 square feet in area.	03/01/2014	COMPLIANT	[]	
UNAUTHORIZED MATERIALS	No evidence of unauthorized materials (e.g., debris, trash, or containers) placed within the area.	03/01/2014	COMPLIANT	[]	
VEGETATIVE COVER	No evidence of dead spots > 25 square feet, gullies or rills around perimeter, excessive weeds, or deep-rooted vegetation.	03/01/2014	COMPLIANT	[]	
BENCHMARKS	Five benchmarks not missing, damaged, or inaccessible.	03/01/2014	COMPLIANT	[]	

B: Open SMR's for ENG AND INST REQUIREMENTS

SMR #	Inspection Item	Deficiency Description	SMR Assigned Date	Status
SMR-2014-00037	...	CAP DRAIN # 7 NEEDS REPLACING	03/25/2014	NEW

Important Elements of the Land Use Manager Application



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LAND USE MANAGER INSPECTION CHECKLIST
CHESTNUT RIDGE SECURITY PITS

2014-MAR-25-BMP-Monthly

Type of Inspection: BMP-Monthly

Current Inspector: Bo McNeil

This Inspection: 03/25/2014 09:48

Report Status: FINALIZED on 04/15/2014 by Paul Waldschlager

Override Requirement:

Comments::

Close

A: Inspection Checklist

Inspection Item	Description	DUE_DATE	In Compliance	Existing Open SMR's	Open New SMR
CAP DRAIN(S)	No evidence of missing or damaged screens, broken piping on 18 cap drains.	03/01/2014	DEFICIENT	[SMR-2014-00037]	
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BENCHMARKS	Five benchmarks not missing, damaged, or inaccessible.	03/01/2014	COMPLIANT	[]	

B: Open SMR's for ENG AND INST REQUIREMENTS

SMR #	Inspection Item	Deficiency Description	SMR Assigned Date	SMR Assigned Status
SMR-2014-00037	...	CAP DRAIN # 7 NEEDS REPLACING	03/25/2014	WORK_UNDER - Awaiting Completion

Important Elements of the Land Use Manager Application



Home GIS LUM Calendar Wiki Support Administrator

[Back](#)

SMR Search Filters - Click to select

SMR Type

- ENGINEERED
- FACILITY INSPECTION
- INSTITUTIONAL
- TREATMENT SYSTEM
- WASTE MANAGEMENT AREA
- WELL INSPECTION

Status

- NEW
- APPROVED
- CANCELLED
- DEFERRED
- WORK_UNDERWAY - Awaiting Completion
- WORK_COMPLETE - Needs Verified

Plants

Team Members

- | Plants | Team Members |
|--|---|
| <input type="checkbox"/> ETPP | <input type="checkbox"/> Quail, Michael |
| <input type="checkbox"/> OFFSITE | <input type="checkbox"/> Sharp, Jeffrey |
| <input type="checkbox"/> ORNL | <input type="checkbox"/> Sims, Lynn |
| <input checked="" type="checkbox"/> Y-12 | <input type="checkbox"/> Voight, Clinton |
| | <input checked="" type="checkbox"/> Waldschlager, Pau |
| | <input type="checkbox"/> White, George |

[SAVE THESE PREFERENCES](#)

View

Export

Search returned 1 items.

SMR #	Days	Type	Plant	Region	Site	Inspection Item	Deficiency Description	SMR Submission Date	Corrected Date	Status	Recent Activity
SMR-2014-00037	17	ENG/INST	[Y-12]	[Chestnut Ridge]	[CHESTNUT RIDGE SECURITY PITS]	CAP DRAIN(S)	CAP DRAIN # 7 NEEDS REPLACING	03/25/2014	...	NEW	N/A





LUM Mapping and GIS

[Home](#)
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Site Editor # 123

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[Close](#)
[Edit](#)

Site Details

Type of Site: ENGINEERED

Location: Y-12 - Chestnut Ridge

Site Name: CHESTNUT RIDGE SEDIMENT DISPOSAL BASIN

Description:
 The Chestnut Ridge Sediment Disposal Basin (CRSDB) is located in a low area of the eastern crest of Chestnut Ridge, which is bounded to the north by BCV and the south by Bethel Valley. The CRSDB was used from 1973 to 1989 for the disposal of sediments from NHP and mercury-contaminated soil from other Y-12 locations. The unit was closed by installing a multilayered cap with a vegetative cover. Inspection of this site is in accordance with the RCRA PCP

[Show On Map:](#)



Site Map for Chestnut Ridge Sediment Disposal Basin

Sign - Other, General Site Posting	Boundary
Cap Drains	Cap
Drainage	Benchmark
Rip-Rap	



Land Use Manager streamlines LTS while providing documented approach

