



U.S. DEPARTMENT OF
ENERGY

Savannah River Site

**A Presentation to the
Facilities Disposition and Site Remediation Committee
Savannah River Site
Citizens Advisory Board**

**D-Area Operable Unit (DAOU)
Status Update**

Presentation By

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Agenda

- **D-Area Operable Unit (DAOU) Background**
- **Completion Objectives**
- **Current Status**
- **Path Forward**





List of Acronyms

ARRA	American Recovery and Reinvestment Act
As	Arsenic
Ba	Barium
CMS/FS	Corrective Measures/ Feasibility Study
DAOU	D-Area Operable Unit
DDD	insecticide (di-chloro - ethane)
DDE	insecticide (di-chloro - ethylene)
DDT	insecticide (tri-chloro - ethane)
DOE	Department of Energy
EE/CA	Removal Site Evaluation Report / Engineering Evaluation / Cost Analysis
PCBs	Polychlorinated biphenyls
pH	Negative logarithm of effective hydrogen-ion concentration
PSVE	Passive Soil Vapor Extraction
Rev.	Revision
RCRA	Resource Conservation and Recovery Act
RFI/RI	RCRA Facility Investigation/Remedial Investigation
ROD	Record of Decision
Se	Selenium
SRS	Savannah River Site
TCE	Trichloroethylene
WOF	Waste Oil Facility
VOC	Volatile organic compound





DAOU Location on the Savannah River Site





DAOU Background





DAOU Background - *continued*





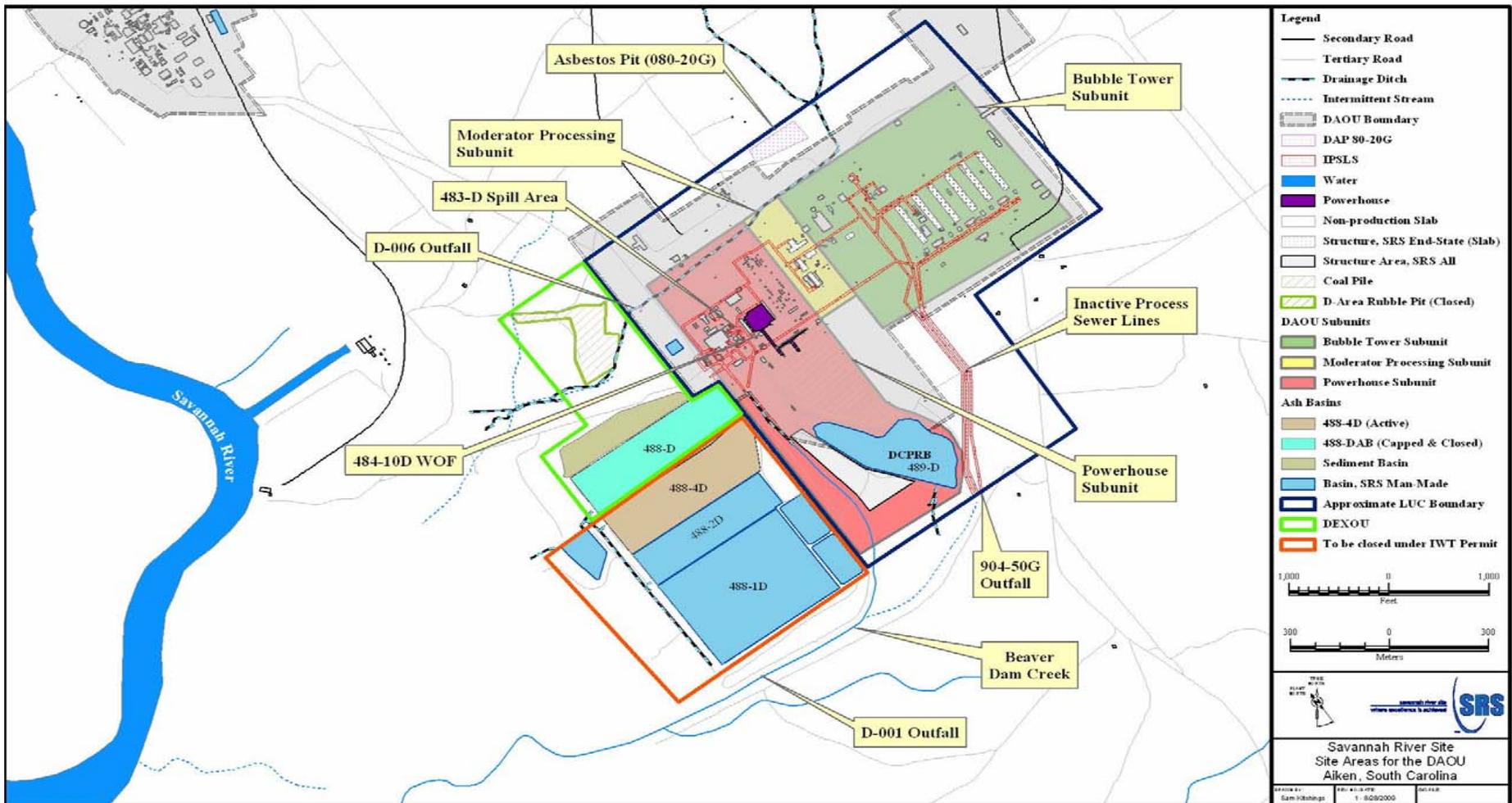
DAOU Completion Objectives

- Remediate waste units requiring action.
- Meet industrial standards at completion
- Contribute to ARRA footprint reduction at a cost of \$17M.





D-Area Operable Unit Layout





D-Area Operable Unit – Current Status

Project being safely performed as part of Recovery Act funding.

- **Characterization (surface and subsurface) complete**
 - Tritium, solvents (TCE), pesticides and metals identified as constituents of concern
- **Combined Remedial Investigation Work Plan / Remedial Investigation Report approved.**
- **Corrective Measures / Feasibility Study Report (remedial alternatives analyses) approved.**
- **Rev.0 Record of Decision (ROD) submitted.**
- **EE/CAs for Bubble Tower Subunit, Moderator Facility Subunit and Coal Pile Runoff Basin consolidation approved.**
- **Second Campaign of the Thermal Detritiation Treatability Study Pilot underway.**





DAOU Thermal Detritiation Treatability Study

- Regulators approved Treatability Study Plan
- Offers potential cost savings alternative for treatment of tritiated media elsewhere at SRS and the DOE complex
- The first heating campaign successfully treated 77 cubic yards of tritiated concrete and soil
- Enhancements were made to optimize the thermal treatment unit for the second heating campaign
- The second heating campaign started May 28. Treating approximately 200 cubic yards of tritiated soil from an area adjacent slab
- Target temperature for concrete remediation is 1500°Fahrenheit. Target temperature for soil remediation is 212°Fahrenheit.





D-Area Operable Unit – Current Status





DAOU Path Forward

- **Complete installation of the 11 enhanced PSVE wells at the Bubble Towers Subunit: 9/30/10**
- **Submit the Rev.0 Bubble Towers Removal Action Report: 1/31/11**
- **Complete the D-Area Coal Pile Runoff Basin consolidation and soil cover Phase I (northern end of the basin): 9/30/11**
- **Complete the thermal detritiation campaigns: 9/30/11**
- **Submit the Rev.0 Moderator Facility (thermal detritiation) Removal Action Report: 12/14/11**
- **Complete the D-Area Coal Pile Runoff Basin consolidation and soil cover Phase II (southern end of the basin): 6/5/13**
- **Submit Rev. 0 D-Area Coal Pile Runoff Basin Consolidation Removal Action Report: 12/6/13**
- **Submit Rev.0 DAOU Post-Construction report: 1/12/14**

