

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

# **A-Area Ash Pile, A-Area Coal Pile Runoff Basin, and Stormwater Outfall A-013 Operable Unit Status Update**

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**December 15, 2010**

## Acronyms

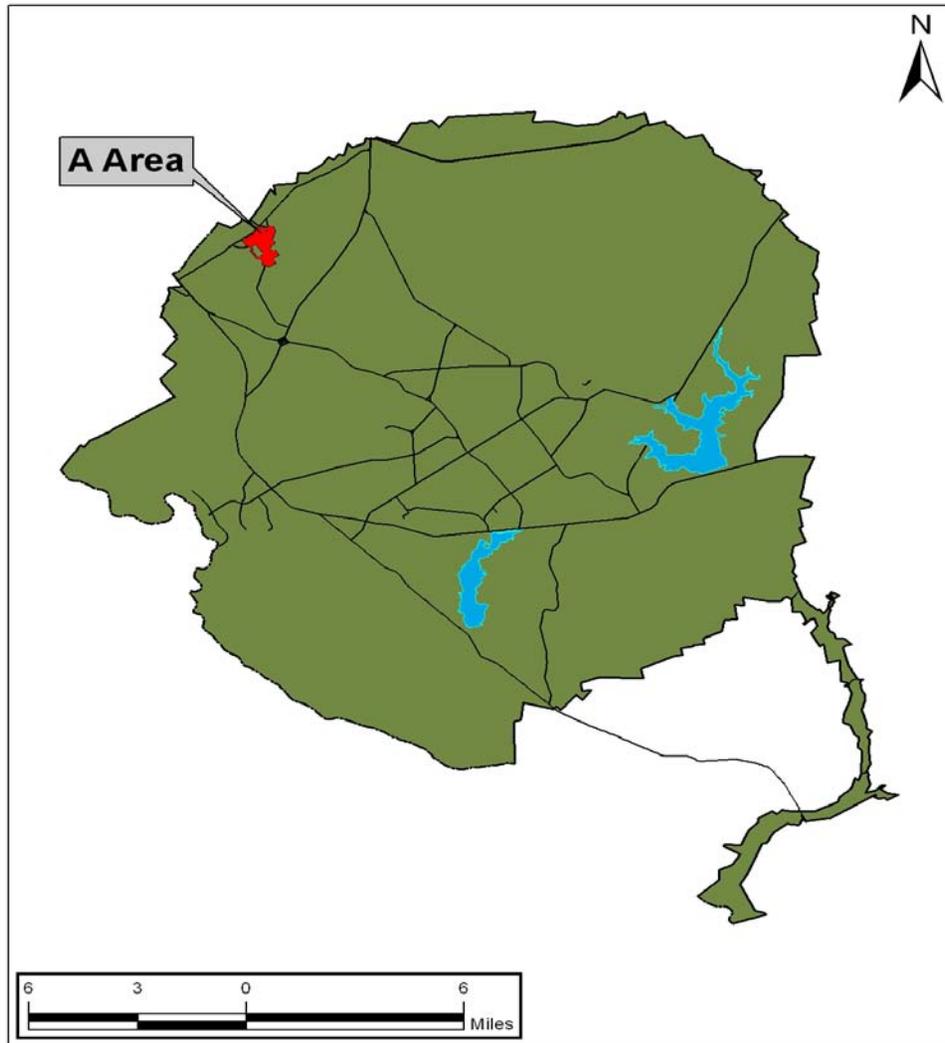
<b>AAP/CPRB</b>	<b>A-Area Ash Pile (788-A), A-Area Coal Pile Runoff Basin (788-3A), and Stormwater Outfall A-013 Operable Unit</b>
<b>BGS</b>	<b>Below Ground Surface</b>
<b>CPRB</b>	<b>Coal Pile Runoff Basin</b>
<b>CERCLA</b>	<b>Comprehensive Environmental Response, Compensation, and Liability Act</b>
<b>RCRA</b>	<b>Resource Conservation and Recovery Act</b>
<b>Rev.</b>	<b>Revision</b>
<b>RFI/RI/BRA</b>	<b>RCRA Facility Investigation / Remedial Investigation Report / Baseline Risk Assessment</b>
<b>ROD</b>	<b>Record of Decision</b>
<b>SRS</b>	<b>Savannah River Site</b>



## Purpose

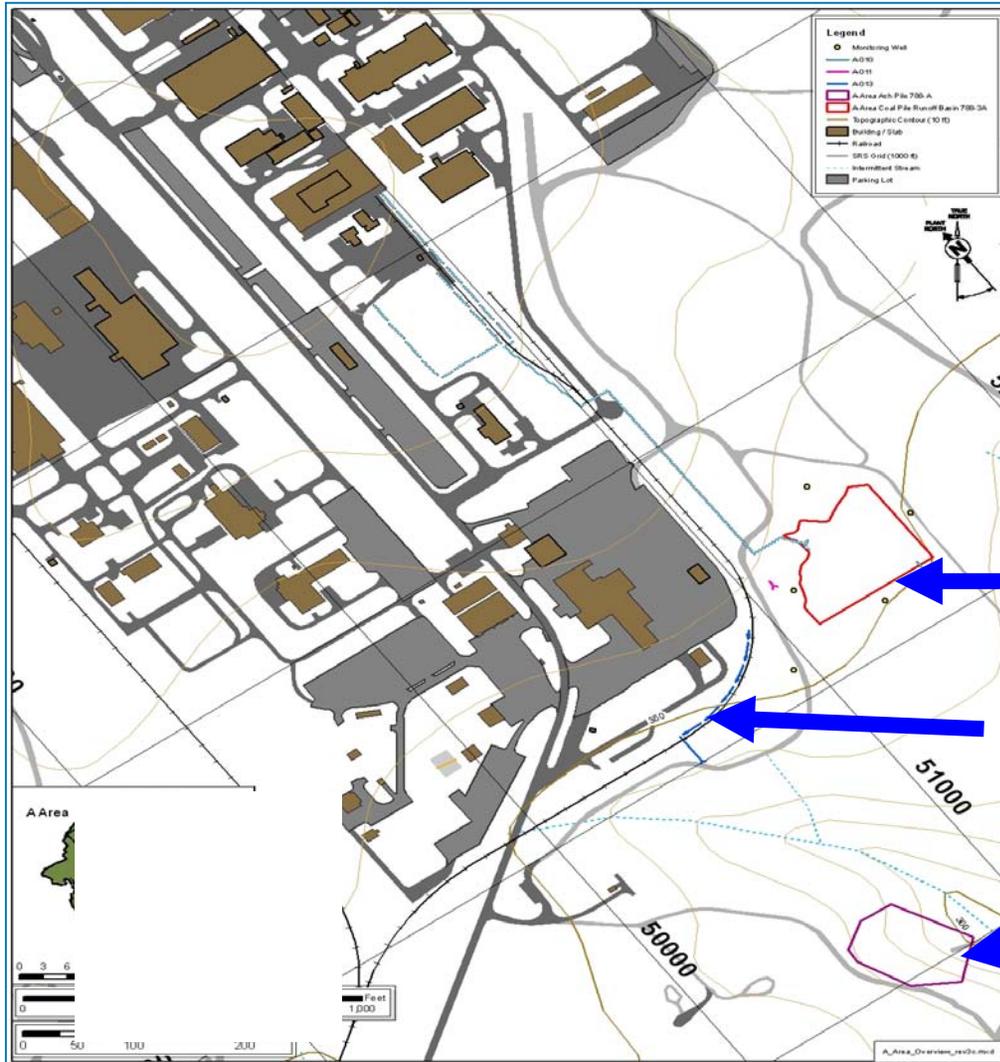
**To provide a status update on the A-Area Ash Pile (788-A), A-Area Coal Pile Runoff Basin (788-3A), and Stormwater Outfall A-013 Operable Unit (AAP/CPRB OU) to the Facilities Disposition and Site Remediation Committee**

## Location of A-Area



**A-Area is located in the northwest quadrant of the Savannah River Site (SRS)**

## Location of Subunits in A-Area



A-Area Coal Pile Runoff  
Basin (788-3A)

Stormwater  
Outfall A-013

A-Area Ash Pile  
(788-A)

## Background

### *Coal Pile Runoff Basin*



- **Constructed in 1978 and operated until August 2008**
- **Contained runoff from the coal storage pile and covers an area of 2.6 acres**
  - **Approximately volume: 190,000 cubic feet**
- **Seasonally the basin contains water**

## Background

### *A-Area Ash Pile*



- Operated between 1952 and 1978
- Contains bottom and fly ash from the burning of coal at the A-Area Boiler House
- Oval in shape and covers an area of 1.6 acres
  - Approximately volume: 43,000 cubic yards

## Background

### *A-013 Stormwater Outfall*



- **Drains to a small area along a section of abandoned railroad tracks**
- **Potential past releases to this outfall include runoff from:**
  - **Former 716-A Motor Shop and adjacent parking areas**
  - **The Motor Shop Seepage Basin**



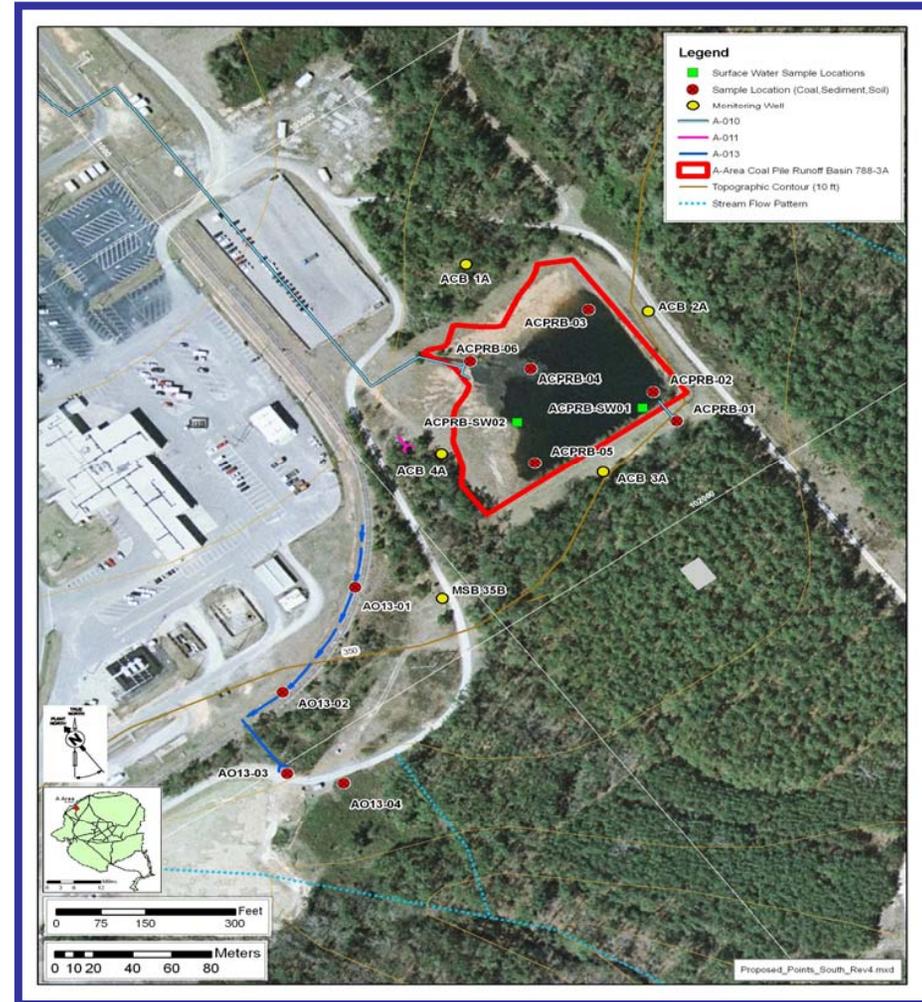
## Background

- **The A-Area Ash Pile (788-A), A-Area Coal Pile Runoff Basin (788-3A), and Stormwater Outfall A-013 are listed together as a single operable unit in the FFA**
- **Field sampling was conducted from August 2009 to February 2010. Samples were analyzed for:**
  - **Organic Compounds**
  - **Pesticides**
  - **Metals**
  - **Radionuclides**
- **Preliminary results from the field characterization were presented to the Regulators at the August 25, 2010 Post-Characterization Scoping Meeting**

# Summary of Characterization Results

## Coal Pile Runoff Basin

- **Coal / sediment / soil samples**
  - 6 bore locations (1 to 20 feet below ground surface)
  - 29 samples
  - Metals and organic compounds exceeded the maximum SRS background (natural) levels
- **Surface water samples**
  - 2 samples were taken at each sample location
- **Groundwater samples**
  - 2 quarterly rounds
  - 5 monitor wells (four M-Area and one Lost Lake Aquifer)



# Summary of Characterization Results

## A Area Ash Pile

5 bore locations (maximum 40 feet deep)

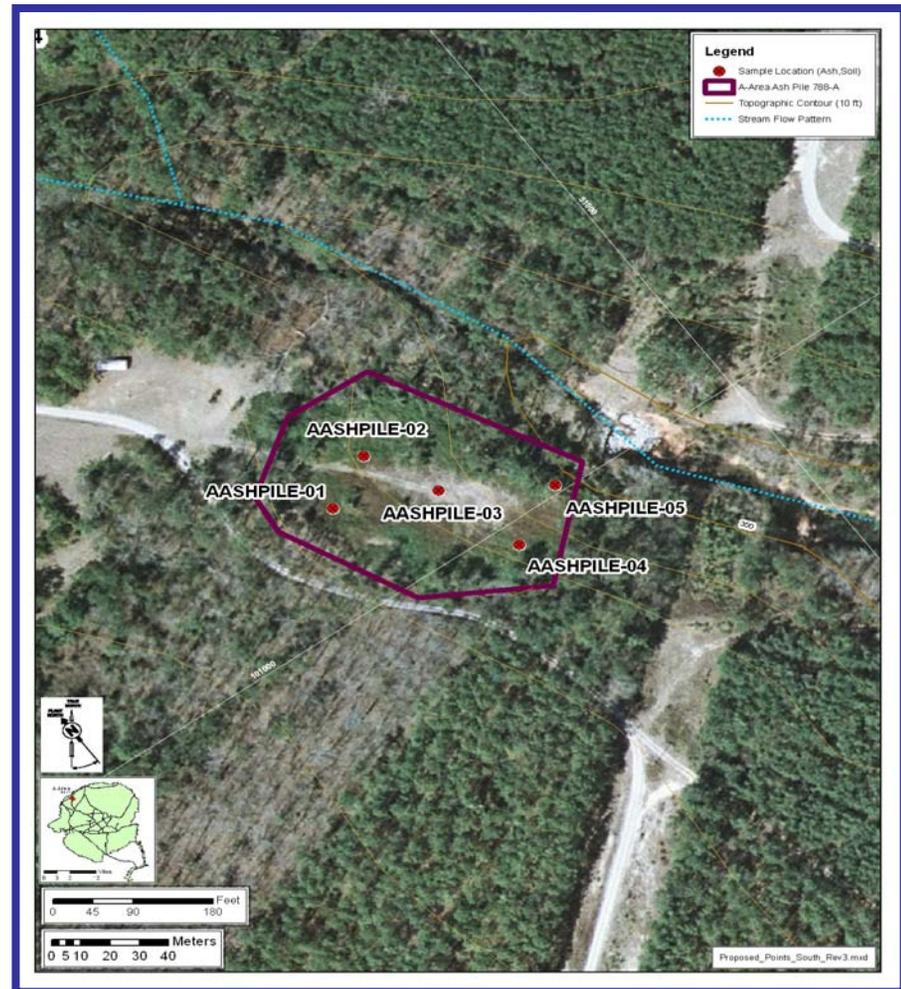
29 samples

- **Ash Samples**

- Arsenic and 11 radionuclides exceeded action levels.
- 7 inorganics, 2 organic compounds, and 11 radionuclides exceeded maximum SRS background (natural) levels

- **Soil Samples**

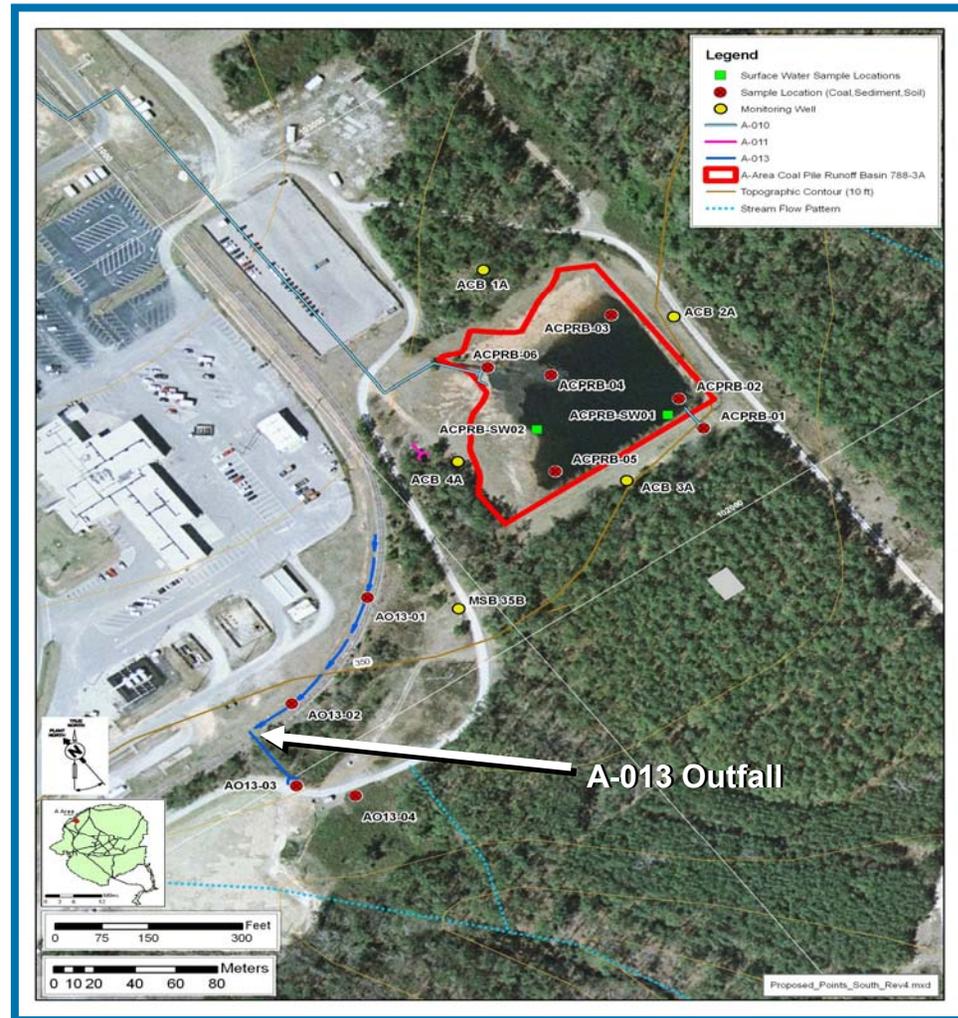
- Arsenic, vanadium, and 10 radionuclides exceeded action levels
- 3 inorganics and 2 radionuclides exceeded the maximum SRS background (natural) level



# Summary of Characterization Results

## A-013 Outfall

- **Soil samples**
  - 4 bore locations (4 feet bgs)
  - 8 samples
  - Metals, organic compounds, and 8 radionuclides exceeded action levels
  - Zinc and 2 organic compounds exceeded the maximum SRS (natural) background levels



## Path Forward

- **Problem Identification Scoping Meeting with Regulators:**  
**February 23, 2011**
- **Submit Rev. 0 CERCLA Documentation: August 31, 2011**
  - **The Core Team has agreed to a combined RCRA Facility Investigation / Remedial Investigation (RFI/RI) Work Plan, RFI/RI Report with Baseline Risk Assessment and Corrective Measures / Feasibility Study Report to accelerate the initiation of the Remedial Action**
- **Remedial Action Start: May 28, 2015**