

# Solving Cleanup Challenges Through Risk Reduction

## Soils and Rubble Areas, Site Walkover Survey

### Project Update

Paducah Citizens Advisory Board — August 21, 2008



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*M* Environmental Management

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# Presentation Highlights

- Project background
- First phase background
- Second phase soil pile sampling
- Third phase soil pile sampling
- Site RAD walkover plan



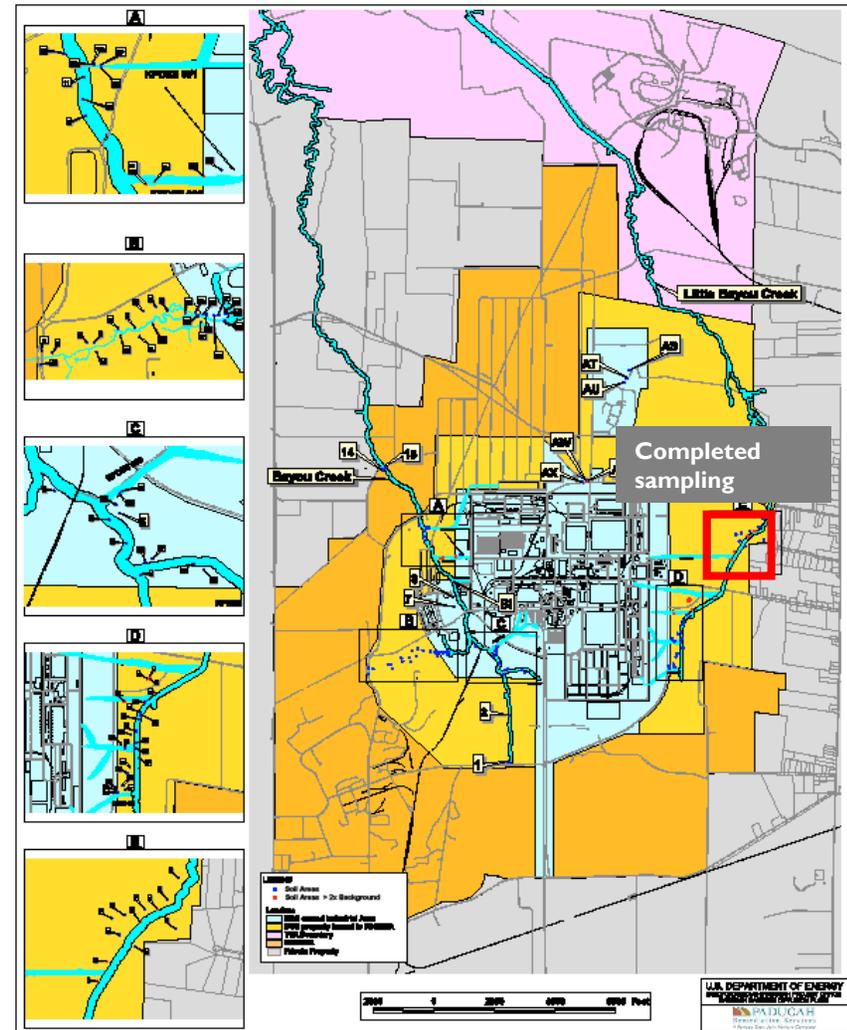
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# Soil and Rubble Areas Background

- November 2006 routine inspection of land outside the DOE security perimeter identified soil pile area with radiation above twice background
- More than 30 miles of ditches and creek banks subsequently surveyed; more than 500 signs posted as precaution
- 99 soil areas, 51 rubble areas identified



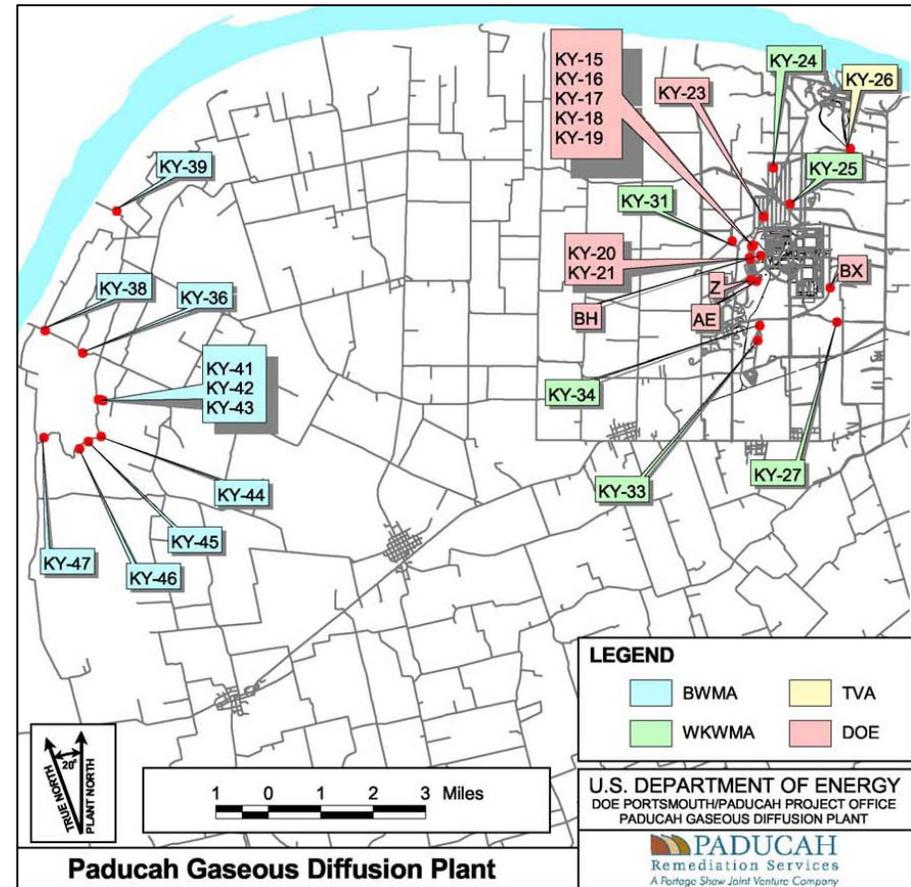
Soil piles

# Soil and Rubble Areas Background

- Sampling conducted from April to July 2007 at soil piles in area where first pile identified
- More than 1,000 samples collected
- Results showed 1 area with uranium and PCBs that might pose unacceptable risk based on current land use



Phase I sampling



Rubble areas



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# Phase II Soil Pile Sampling

- Fieldwork began week of August 18, 2008
- 54 soil piles on west side of plant
- 300+ samples
- Sampling scheduled for completion in September
- Validated lab results available in December



Soil Pile AH, located southwest of the plant.



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# Phase III Soil Pile Sampling

- Field work scheduled to begin October 2008
- 40 soil piles on east side of plant
- 500+ samples
- Sampling scheduled for completion in October
- Validated lab results available in January 2009



Soil Pile BD, located south of the plant, just off Curlee Road.



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# Site Rad Walkover Survey

Survey being conducted to verify that areas outside plant boundary are free of radiation (i.e., less than twice background) and to ID/survey manmade surface anomalies

- Soil piles
- Rubble piles
- Debris
- Depressions/excavations



# Site Rad Walkover Survey

- Survey specifics
  - Visual inspection of ~2,675 acres
  - Radiological/GPS survey of any area where materials have been placed, soil has been removed
  - Photos of areas where radiological survey performed
  - Currently identified soil/rubble areas excluded

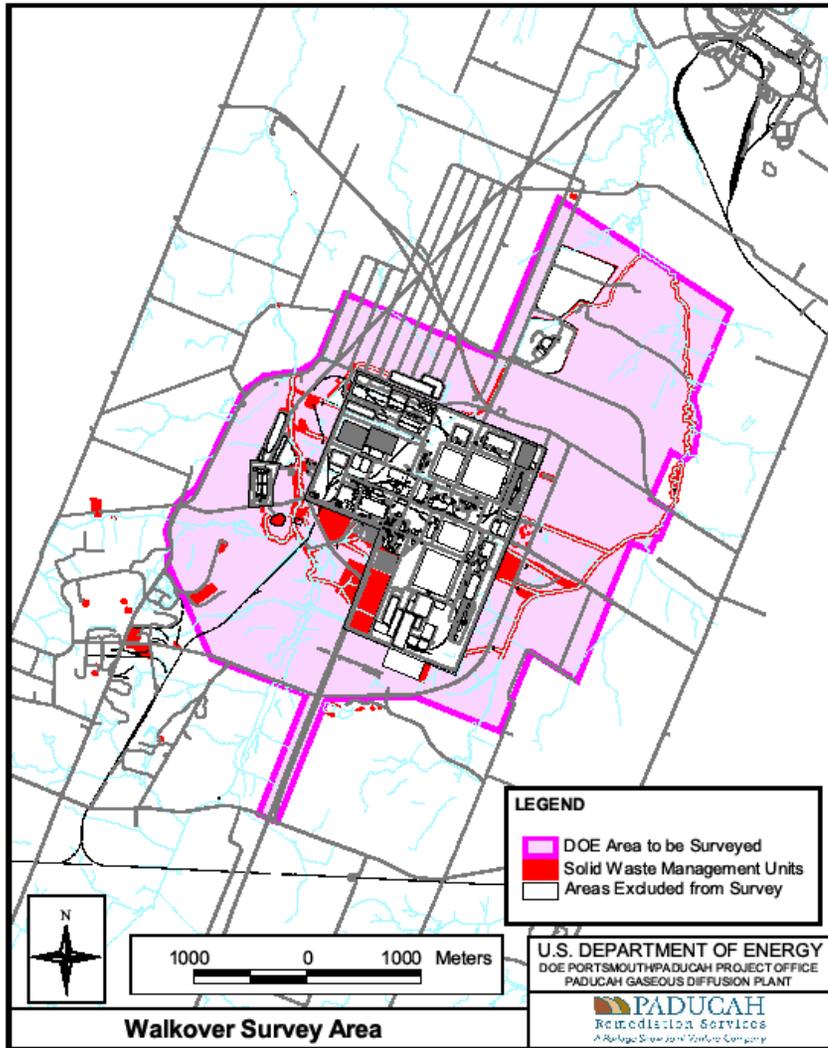


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# Site Rad Walkover Survey



- Survey scheduled to begin in November 2008
- Field work to be completed by February 2009
- Survey will include DOE-owned land outside security fence



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**DOE Portsmouth/Paducah Project Office**