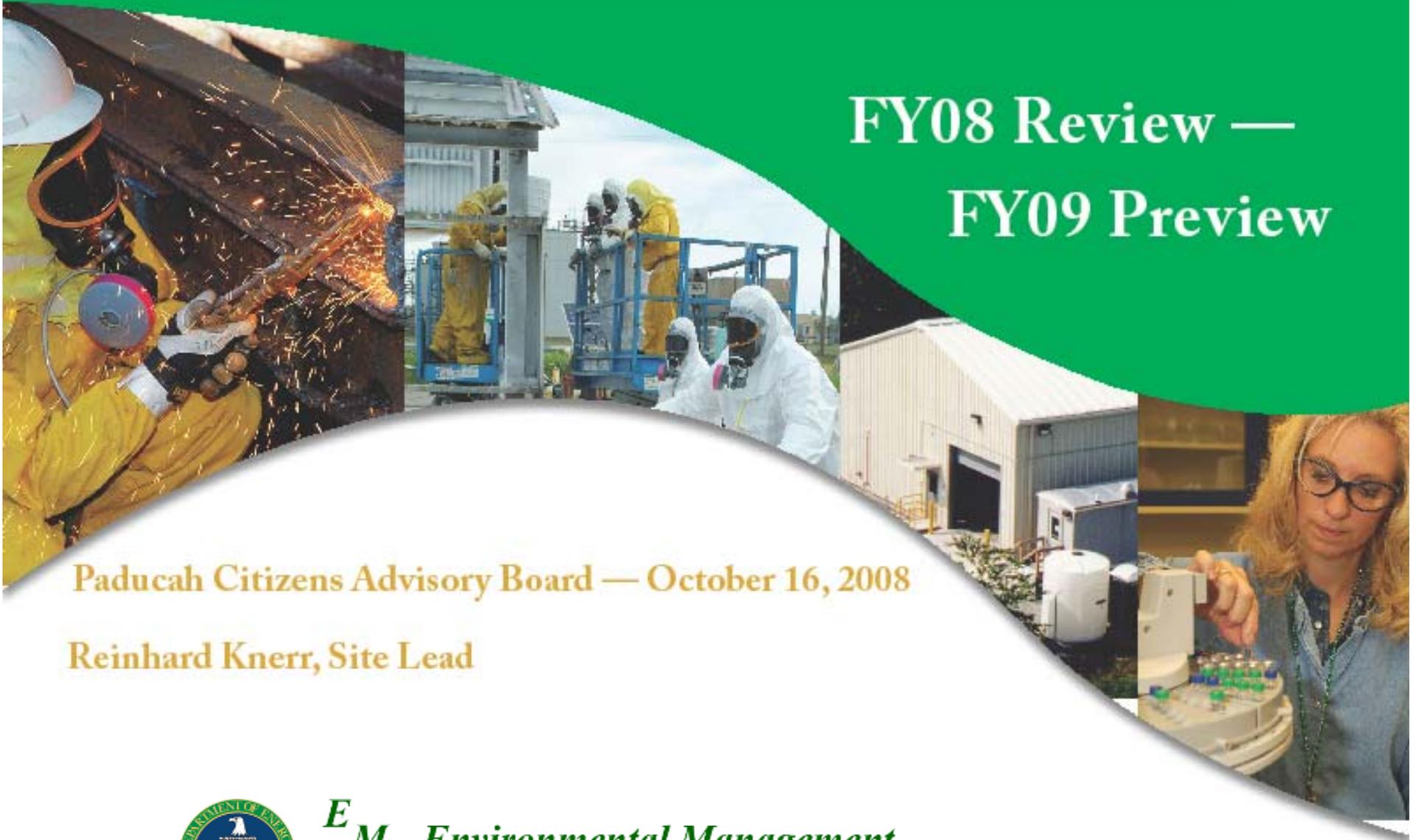


# Solving Cleanup Challenges Through Risk Reduction

## FY08 Review — FY09 Preview



Paducah Citizens Advisory Board — October 16, 2008

Reinhard Knerr, Site Lead



***EM*** Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

# 2008 Environmental Remediation

## Surface Water Operable Unit



DOELX07-01054.D2  
Primary Document

Site Investigation Report  
Surface Water Operation Unit (On-Site)  
Paducah Gaseous Diffusion Plant  
Paducah, Kentucky



CLEARED FOR PUBLIC RELEASE

This document is approved for public release per review by:  
 [Signature]  
Publics Certification and Information Council  
Office Trail and Safety Team  
Date: 10/3/08



DOELX1  
Primary

Removal Notification  
Surface Water (On-Site)  
Paducah Gaseous Diffusion P  
Paducah, Kentucky



CLEARED FOR PUBLIC RELEASE

This document is approved for public release per review by:  
 [Signature]  
Publics Certification and Information Council  
Office Trail and Safety Team  
Date: 10/3/08

Approved 10/3/08

DOELX07-01054.D2  
Primary Document

Site Management Plan  
Engineering Estimate/Cost Analysis  
Surface Water (On-Site)  
Paducah Gaseous Diffusion Plant  
Paducah, Kentucky



CLEARED FOR PUBLIC RELEASE

This document is approved for public release per review by:  
 [Signature]  
Publics Certification and Information Council  
Office Trail and Safety Team  
Date: 10/3/08

**Surface Water Operable Unit Site Investigation Report**  
**Surface Water Operable Unit Removal Notification**  
**Surface Water (On-Site) Engineering Estimate/Cost Analysis**



# 2008 Environmental Remediation

## Groundwater Operable Unit



DCELN97-01064D2  
Primary Document

C-400 Electric Resistive Heating  
Remedial Design Report  
Paducah Gaseous Diffusion Pla  
Paducah, Kentucky



DCELN97-01064  
Primary Docum

C-400 Electric Resistive Heati  
Land Use Control  
Implementation Plan  
Paducah Gaseous Diffusior  
Plant  
Paducah, Kentucky



CLEARED FOR PUBLIC RELEASE

This document is approved for public release per review by:  
\_\_\_\_\_  
Publics Certification and Information Council  
Office Trail and Safety Team Date: 6/20/08

SUBMITTED

DCELN97-01064D2  
Primary Document

C-400 Electric Resistive Heating  
Remedial Action Work Plan  
Paducah Gaseous Diffusion Plant  
Paducah, Kentucky

SUBMITTED

DCELN97-01064D2  
Primary Document

C-400 Electric Resistive Heating  
Quality Assurance Control Plan  
Paducah Gaseous Diffusion Plant  
Paducah, Kentucky



CLEARED FOR PUBLIC RELEASE

This document is approved for public release per review by:  
\_\_\_\_\_  
Publics Certification and Information Council  
Office Trail and Safety Team Date: 6/20/08



CLEARED FOR PUBLIC RELEASE

This document is approved for public release per review by:  
\_\_\_\_\_  
Publics Certification and Information Council  
Office Trail and Safety Team Date: 6/20/08

CLEARED FOR PUBLIC RELEASE

This document is approved for public release per review by:  
\_\_\_\_\_  
Publics Certification and Information Council  
Office Trail and Safety Team Date: 6/20/08

- C-400 Electric Resistive Heating Remedial Design Report (RDR)
- C-400 Electric Resistive Heating Land Use Control Implementation Plan (LUCIP)
- C-400 Electric Resistive Heating Remedial Action Work Plan (RAWP)
- C-400 Electric Resistive Heating Quality Assurance Control Plan (QACP)



# 2008 Environmental Remediation

## Groundwater Operable Unit



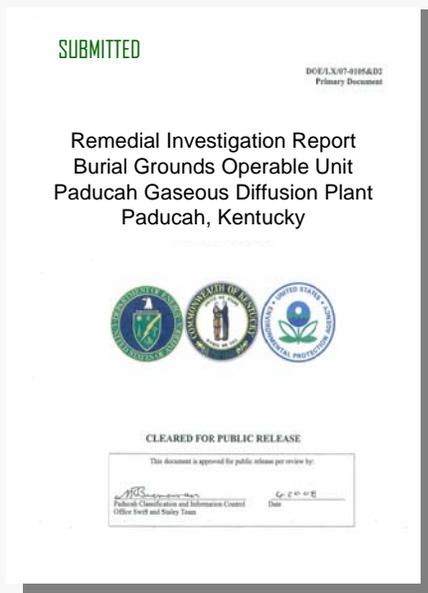
**Southwest corner of C-400 before infrastructure removal**



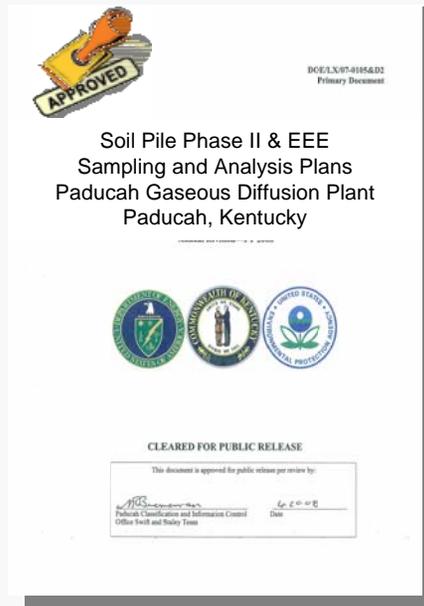
**Southwest corner of C-400 after infrastructure removal**

# 2008 Environmental Remediation

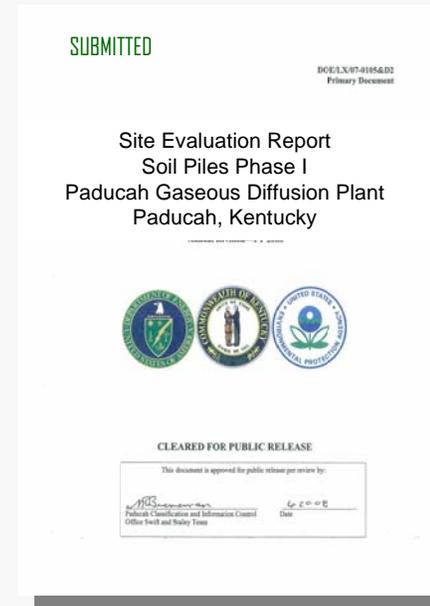
## Burial Grounds Operable Unit



## Soils Operable Unit



## Soils Operable Unit



**Burial Grounds Operable Unit Remedial Investigation Report**  
**Soil Piles Phase II & III Sampling and Analysis Plan**  
**Soil Piles Phase I Site Evaluation Report**



# 2008 Environmental Remediation

## Soils Operable Unit



**Workers place flags to pinpoint sampling locations on Phase II of the soil piles characterization project**

# 2008 - Inactive Facility Demolition



- 14 of 21 currently inactive facilities now demolished

**West End Smelter  
before and after  
demolition**



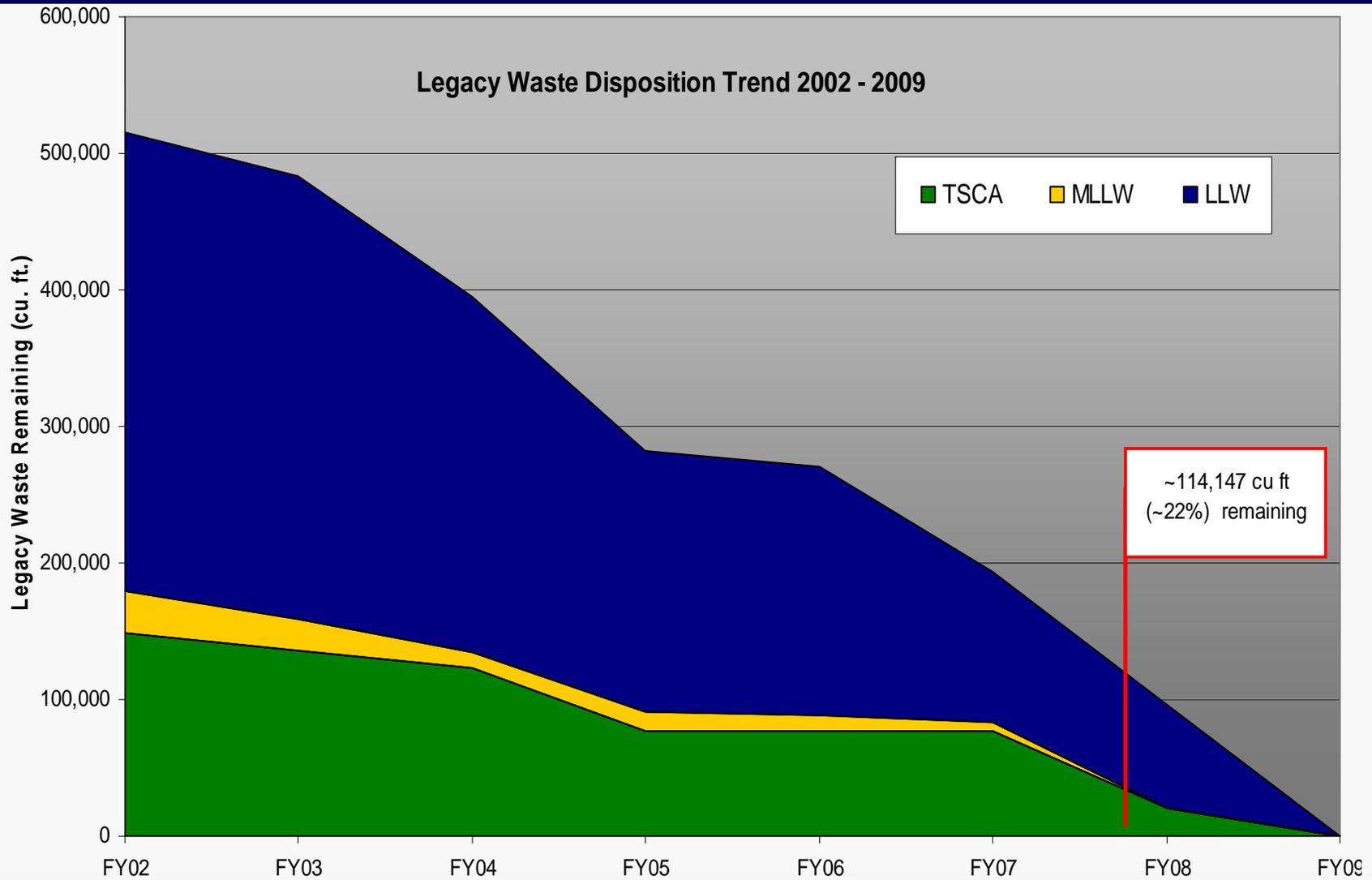
# 2008 - Inactive Facility Demolition



**Ammonia Dissociator (2 facilities)**



# 2008 – Materials Disposition



# 2008 – Materials Disposition- DMSA



- Characterization 97% complete
- Disposition 92% complete
- Nearly 70,000 ft<sup>3</sup> of waste dispositioned in FY 08

**A container of waste material from a DMSA is loaded for disposal**



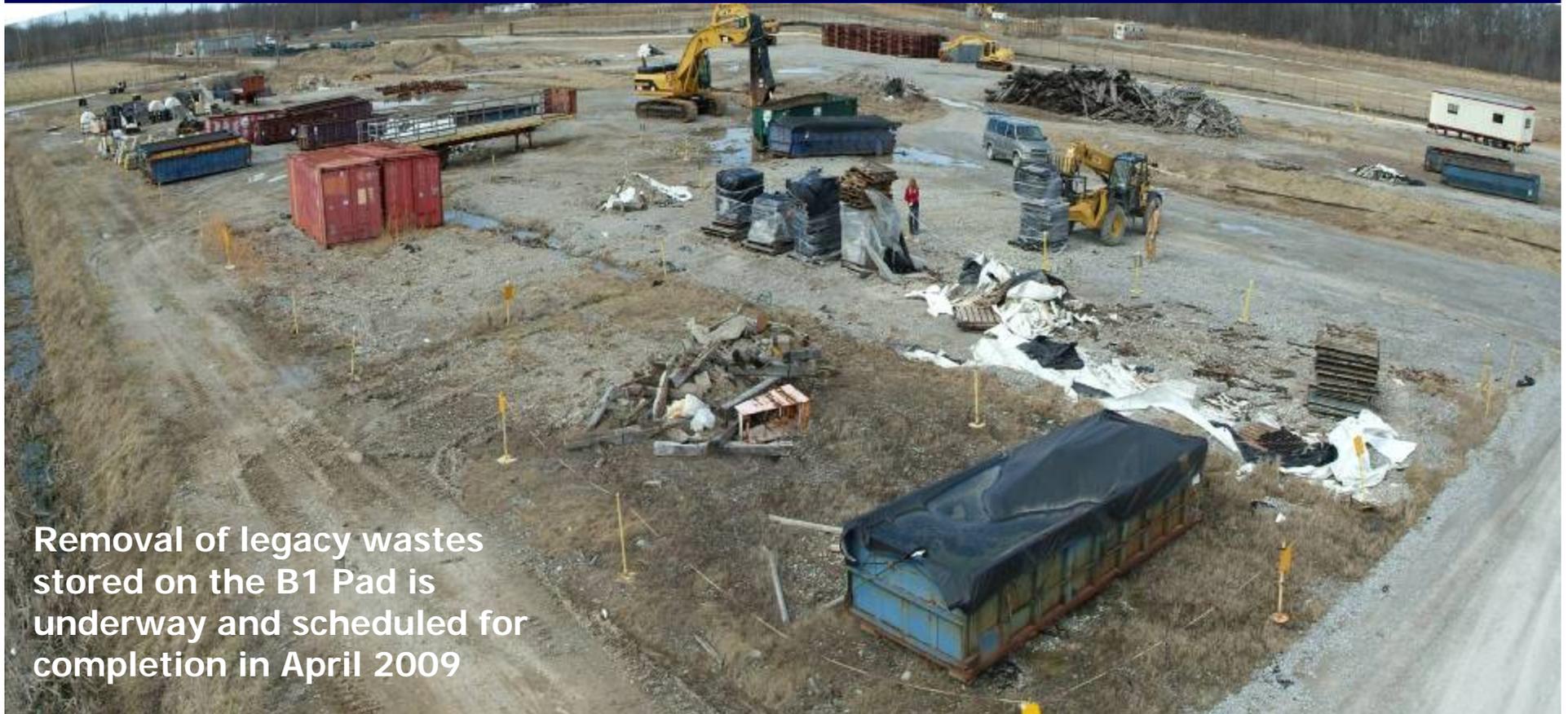
# 2008 – Materials Disposition- Nickel Ingots



# 2008 – Depleted Uranium Hexafluoride Plant



# 2009 Look Ahead – Material Disposition



Removal of legacy wastes stored on the B1 Pad is underway and scheduled for completion in April 2009

- On schedule to remove all legacy waste by 9/30/09
- On schedule to complete characterization and disposition of all DMSA material by 9/30/09



# 2009 Look Ahead – Inactive Facilities

Neutralization Pit



Firing Range

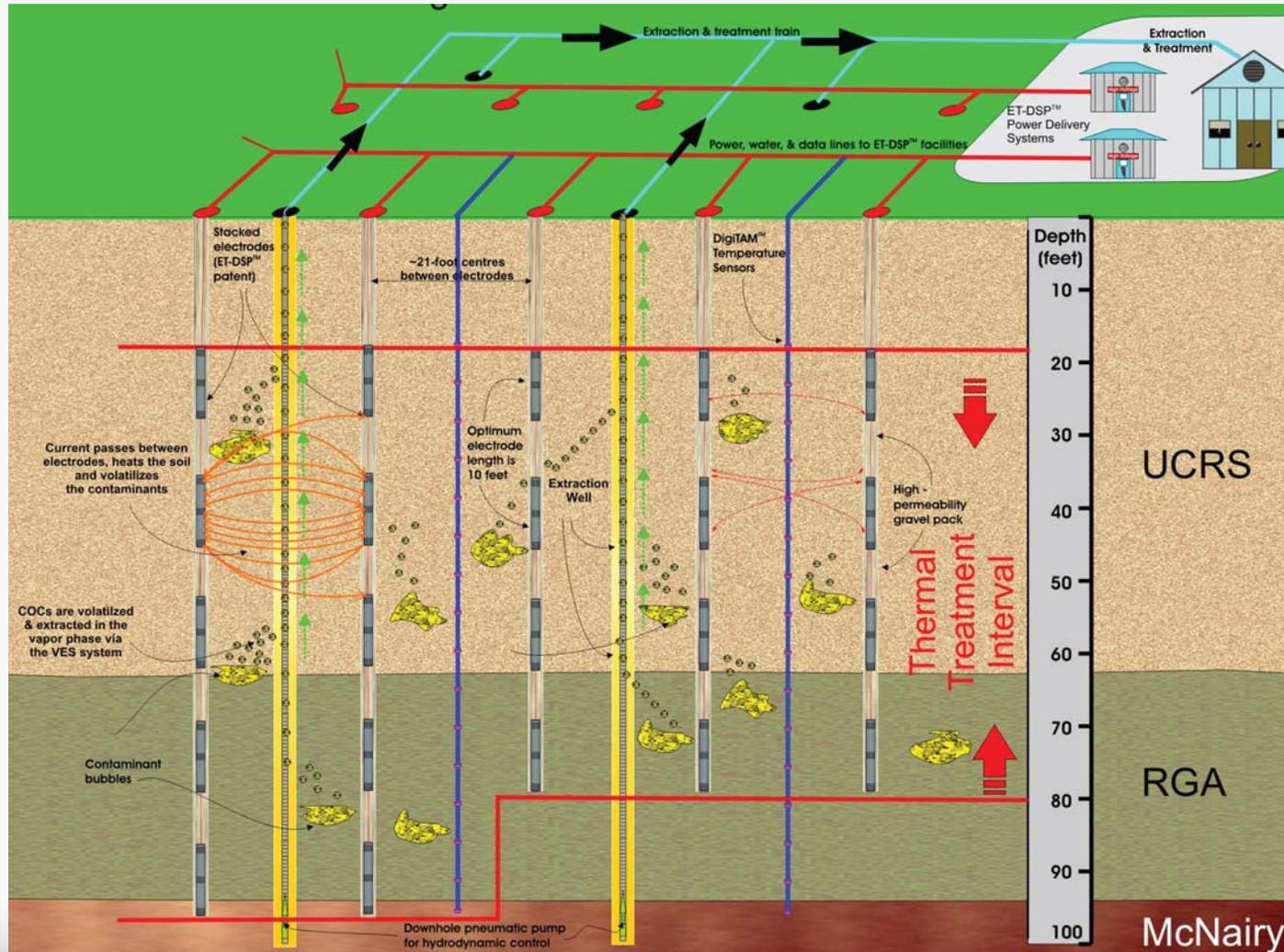


Sludge Pit



# 2009 Look Ahead – Environmental Restoration

## Groundwater Operable Unit



# 2009 Look Ahead – DUF<sub>6</sub>



# *Look Ahead* – DOE Acquisition Process

- Current Remediation (PRS) and Infrastructure contracts (SST)
  - Remediation expires September 2009
  - Infrastructure expires March 2009
- Environmental Remediation Request for Proposal expected to be released October or November 2008
  - 450 jobs
  - \$80-\$120 million annual value
  - Scheduled to start October 2009
- Infrastructure Request for Proposal will follow December 2008
  - 75 jobs
  - \$12-\$15 million annual value
  - Scheduled to start April 2010





**DOE Portsmouth/Paducah Project Office**