

# Fluor Report

- ▣ You hold the future
- ▣ All contribute to site safety record
- ▣ Giving generously

May 2000



## **From Weapons to Wetlands – Making decisions about Fernald's future**

**D**uring the execution of our cleanup, the Fernald Environmental Management Project has used an artist's rendering of what the site will look like at closure to help stakeholders vision the final cleanup results. The image reflects the 1,050 acre site as a green stretch of land with an on-site disposal facility and several bodies of water. We have now reached the point where we need to add greater



depth and detail to this picture. The U.S. Environmental Protection Agency has certified nearly one-third of the property as meeting site cleanup levels, and the site has ecologically restored over 40 acres of the site, creating new woodlots, wetlands and prairies to compensate for natural resource damages. As we continue to shape Fernald for the next generation, we invite you to participate in determining the future public use of the property.

On May 24, the Fernald Citizen's Advisory Board (FCAB) with the help of FRESH, the Community Reuse Organization (CRO) and the Fernald Living History, Inc., hosted a workshop to collect broad-based input on the future public use of Fernald. While a number of groups and individuals have identified desired public uses for the closed site, there may be others who still wish to participate.

What can you do? Now is the time to speak up and express your opinion. If you didn't attend the Future of Fernald workshop, I encourage you to contact the FCAB or any of the other sponsoring groups and let them know what you're thinking. Their phone numbers are listed below for your

convenience. You can also share your ideas on our Web site at [www.fernald.gov](http://www.fernald.gov).

Our cleanup progress has placed Fernald in the position of discussing public use now; and we wish to hear from you. The site pledges to work with stakeholders to insure the final result reflects the interests of our community.

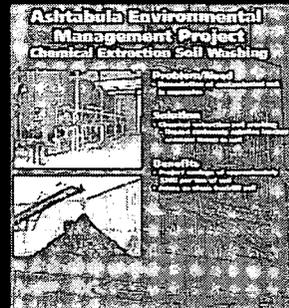
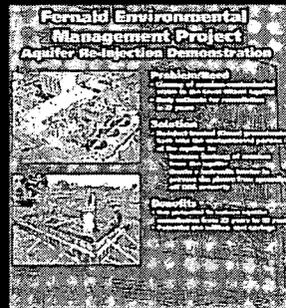
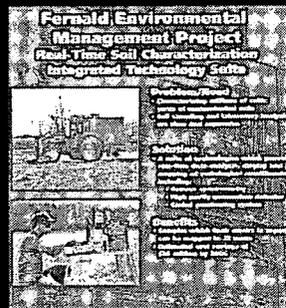
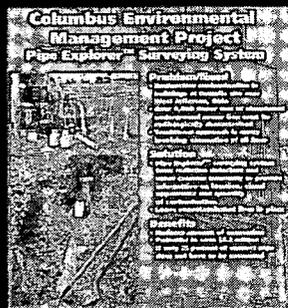
  
Jack Craig  
Director, DOE-Fernald

FCAB: 513-648-6478 or 513-648-5277  
CRO: 513-527-3150  
Fernald Living History, Inc: 513-245-0989  
FRESH: 513-738-1659

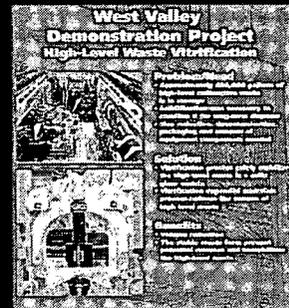
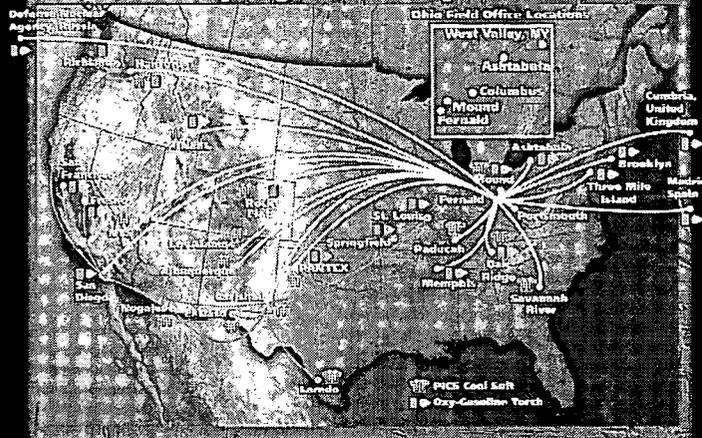
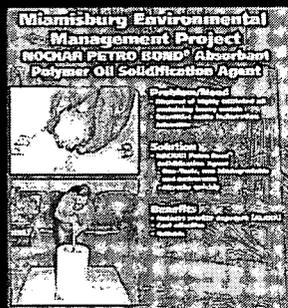
*On the cover: Chris Engel, a subcontractor for Horizon Environmental collects leachate samples for the Leachate Collection System located at the On-Site Disposal Facility. The samples are taken to ensure the water meets regulatory requirements for leachate management (6860-d70).*



## Ohio Field Office Deployment of New Technology



### Fernald Deployments Span the Globe



## Fernald Supports the 'Strength through Science' Exhibit

Fernald's commitment to working safer, faster and cheaper was on display last month when over 10 exhibits representing approximately 100 science and technology innovations were displayed for Congress in Washington D.C.. This first annual event created a forum for lawmakers to view short video clips on technologies such as the Vec-Loader vacuum, the RTRAK and implosive dismantlement for large facilities. Representatives were given an opportunity to try on a "cool sleeve" from a Personal Ice Cooling System and observe a scale model of the D&D Mobile Work Platform. Senior managers and technical staff were able to share information about current technology deployments and possible future deployments within the Complex.

Fernald was responsible for coordinating and designing the Ohio Field Office display that featured Fernald's Real-Time Soil Characterization Integrated Technology Suite and Groundwater Re-Injection Demonstration. The display also included technologies from Columbus, Miamisburg, Ashtabula and West Valley sites.

Gerald Boyd, Deputy Assistant Secretary, Office of Science and Technology, kicked off the event with remarks to participants. Over 200 people visited the exhibit throughout the day, including members from key Congressional committees. The event concluded with a reception attended by Carolyn Huntoon, EM Assistant Secretary and Congressman Doc Hastings, Chairperson of the House Nuclear Cleanup Caucus.

*Above: Fernald displays safer, faster and cheaper cleanup technologies.*

# Cleanup **Progress** Update

## Waste Pits Remedial Action Project (WPRAP)

- Shipped train 21 to Envirocare of Utah (see Fernald Shipments section for details)
- Continued excavating Waste Pits 1, 2 and 3

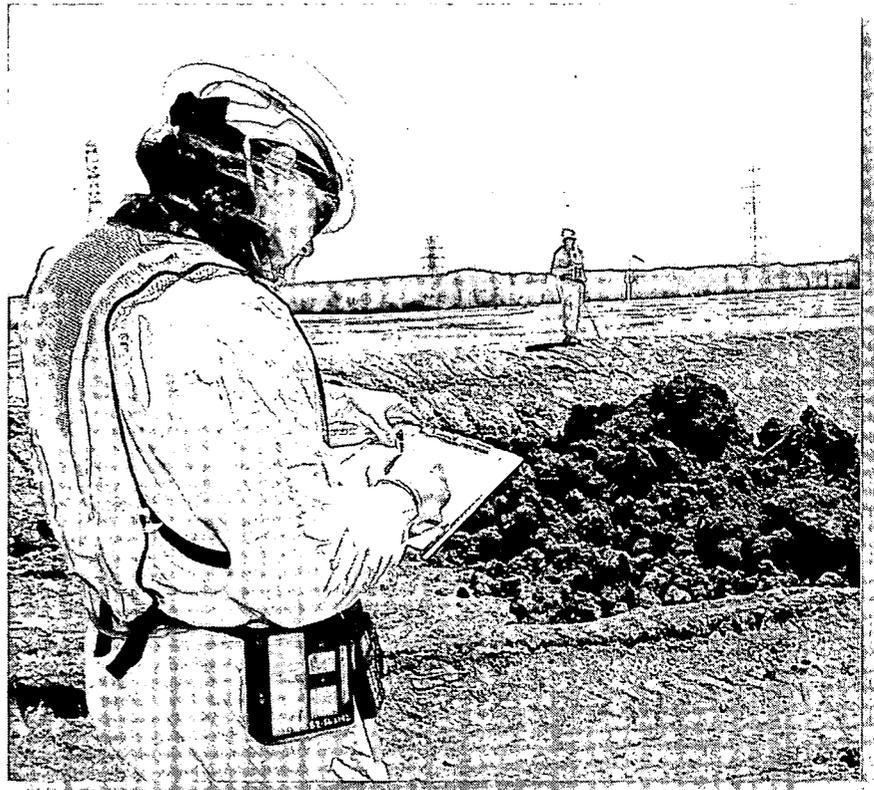
## On-Site Disposal Facility (OSDF)

- Placed over 30,000 cubic yards of soil and debris in the OSDF
- Completed surveying for the Traffic Impact Study
- Submitted the *draft Request for Proposal to DOE for the Area 3A/4A excavation and OSDF Phase III construction*



*Above:*  
Bob Doherty, a Fluor Fernald team member uses the supersucker truck to remove water from the leachate detection manhole (6319-d2408).

*Right:*  
A Geosyntec employee conducts a daily field activity report as he verifies placement of Category 1 material into Cell 1 of the OSDF (6319-d2439).



## Demolition Projects

### Decontamination & Dismantlement (D&D)

- Plant 5 Complex —
  - ◆ Began removing structural steel in Building 55B
  - ◆ Continued asbestos abatement and interior transite removal in Plant 5
  - ◆ Completed the removal of asbestos insulated piping on the first floor of Building 5A
- Plant 6 Complex —
  - ◆ Began asbestos abatement, interior transite removal and interior dismantlement in Plant 6

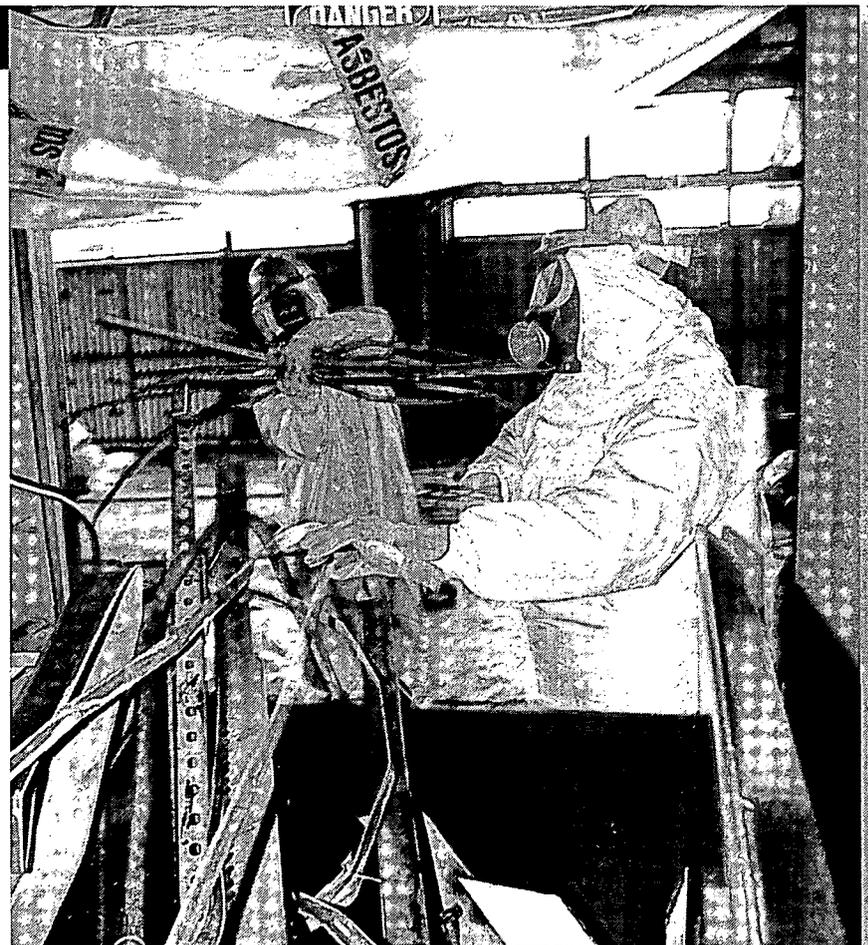


## Silos Project

- Submitted stand-alone package for Site Preparation portion of remedial design for Accelerated Waste Retrieval Project
- Held a public hearing locally and in Las Vegas, Nevada on the *Proposed Plan for Remedial Actions at Silos 1 and 2*. Also briefed the Transportation Subcommittee of the Nevada Test Site Community Advisory Board on contents of the *Proposed Plan*
- Incorporated comments from regulators on Silo 3 Project Site Preparation Package and resubmitted document for approval

*Above right: A Fluor Fernald Waste Acceptance Officer inspects debris in Building 5A while a Mactec employee conducts demolition debris washdown. The material is required to be inspected prior to being loaded into a roll-off box and future placement in the OSDF (6401-d436).*

*Right: Two NSC employees remove asbestos, conduit and piping in the Tool Room in Plant 6, which prepares this area for D&D completion (6639-d362).*



# Cleanup **Progress** Update



## Aquifer Restoration/ Wastewater Project

- Submitted *draft Re-Injection Demonstration Test Report* to EPA for review
- Submitted monthly *NPDES Discharge Monitoring Report* to Ohio EPA
- Treated 138,582,000 gallons of contaminated water

## Soil Characterization and Excavation Project

- Submitted *draft Certification Report for Area I Phase II* (approximately 55 acres east of the old North Access Road) to DOE for review
- Initiated certification sampling of soil in Area I Phase III (northwestern wood lot, south of Route 126)
- Initiated radium excavation in Area 2 Phase III (field west of the Main Access Road)

*Top:*  
Karen Voisard and Chris Engel perform pH tests on water samples collected from the Leachate Collection System. The samples will be sent to an off-site contract lab for analysis (6860-d79).

*Right:*  
A view of the interceptor ditch in the South Field of the Southern Waste Units. The ditch diverts runoff water to Retention Basin 1 and away from the Inactive Flyash Pile area (6734-d1139).



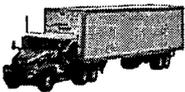
## Waste Generator Services

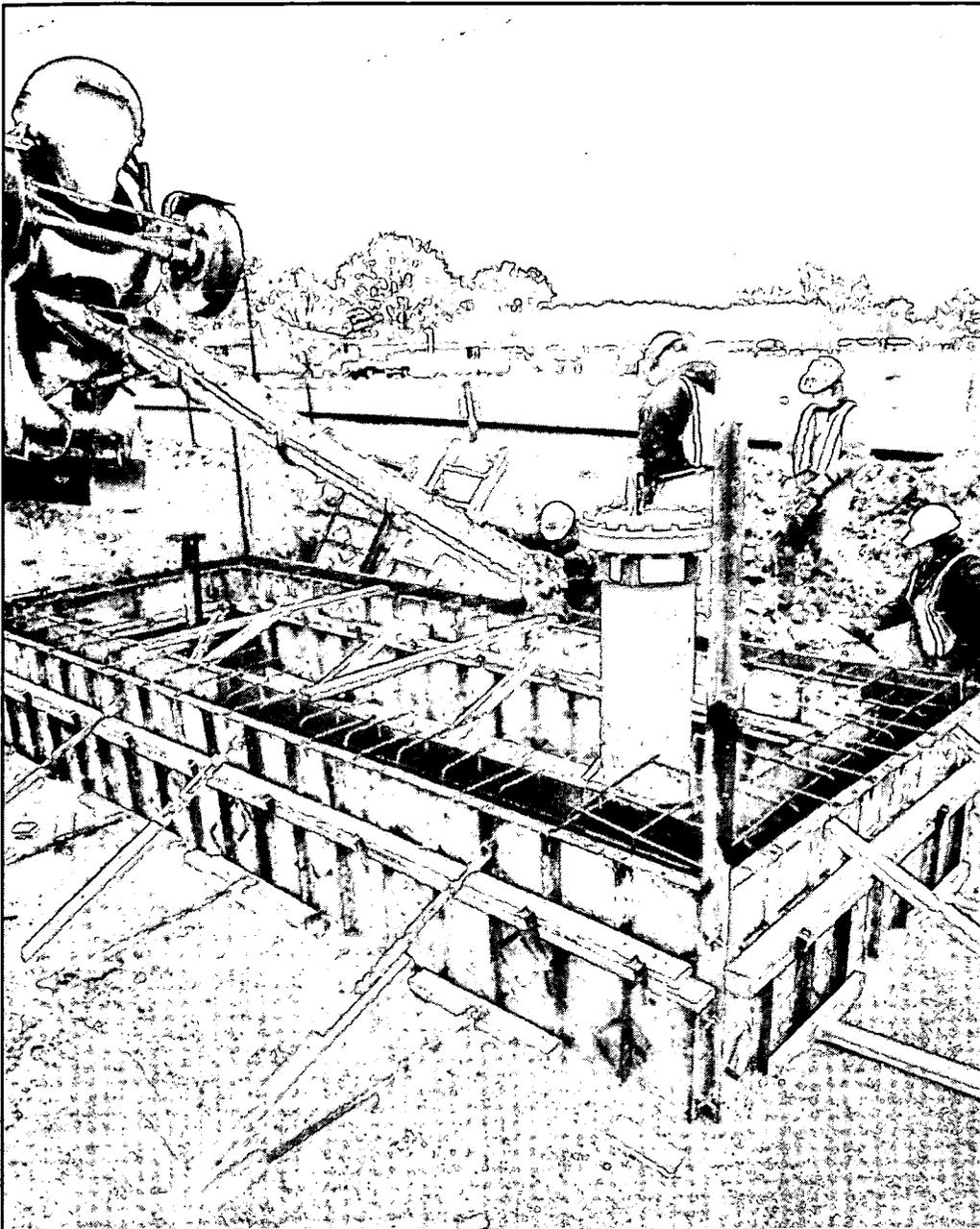
- **Thorium Legacy Waste Project —**
  - ◆ Met with representatives from Defense Nuclear Facilities Safety Board to discuss a path forward for management of thorium legacy waste materials; continued addressing Standard Startup Review pre-start findings
- **Nuclear Materials Disposition —**
  - ◆ Continued metals repackaging effort in Building 56; 150 of 710 derbies and 25 of 25 ingots have been repackaged into steel banded wooden containers for shipment to Portsmouth, Ohio



*Left: A Fluor Fernald team member removes solids from the Batch 8 consolidation tank to prepare the tank for decontamination activities and future use in bulking liquid waste (6896-d89).*

## Fernald Shipments — April-2000

Contents / Destination	Shipment Mode	No. of Shipments	Monthly Total	FY00 Total
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Contents / Destination</div> <b>Low-Level Waste</b> (Nevada Test Site)		3	6,755 cu. ft.	32,424 cu. ft.
<b>Liquid Mixed Waste</b> - Toxic Substance Control Act Incinerator at Oak Ridge		0	0 gal.	0 gal.
<b>Nuclear product/materials</b> (Portsmouth)		20	491,492 net lbs. or 223.3 metric tons uranium	2,695,285 net lbs. or 1,145.9 metric tons uranium
<b>Waste Pits Project</b> (Envirocare of Utah, Inc.)		1 unit train (60 railcars)	6,453 tons	72,608 tons (676 railcars)



## Fernald's Deployment of Technologies Captures Audience Interest

DOE Ohio Field Office and Fernald were well represented at the Eleventh Annual Applied Research, Development and Deployment Cleanup Technology Colloquium held in Scottsdale, Arizona, April 17 through April 20. Susan Brechbill, manager of the Ohio Field Office, John Bradburne, president and CEO of Fluor Fernald and Paul Pettit, director of Fluor Fernald's Technology Programs all spoke to the importance of technology in order to safely and efficiently close our sites and to conduct the necessary monitoring after cleanup is complete.

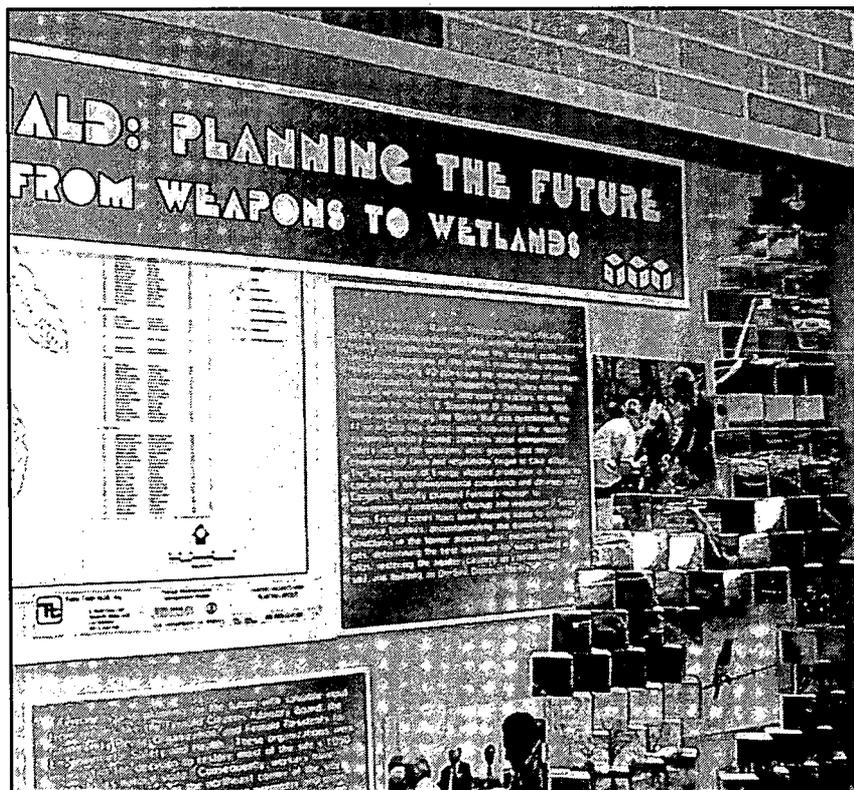
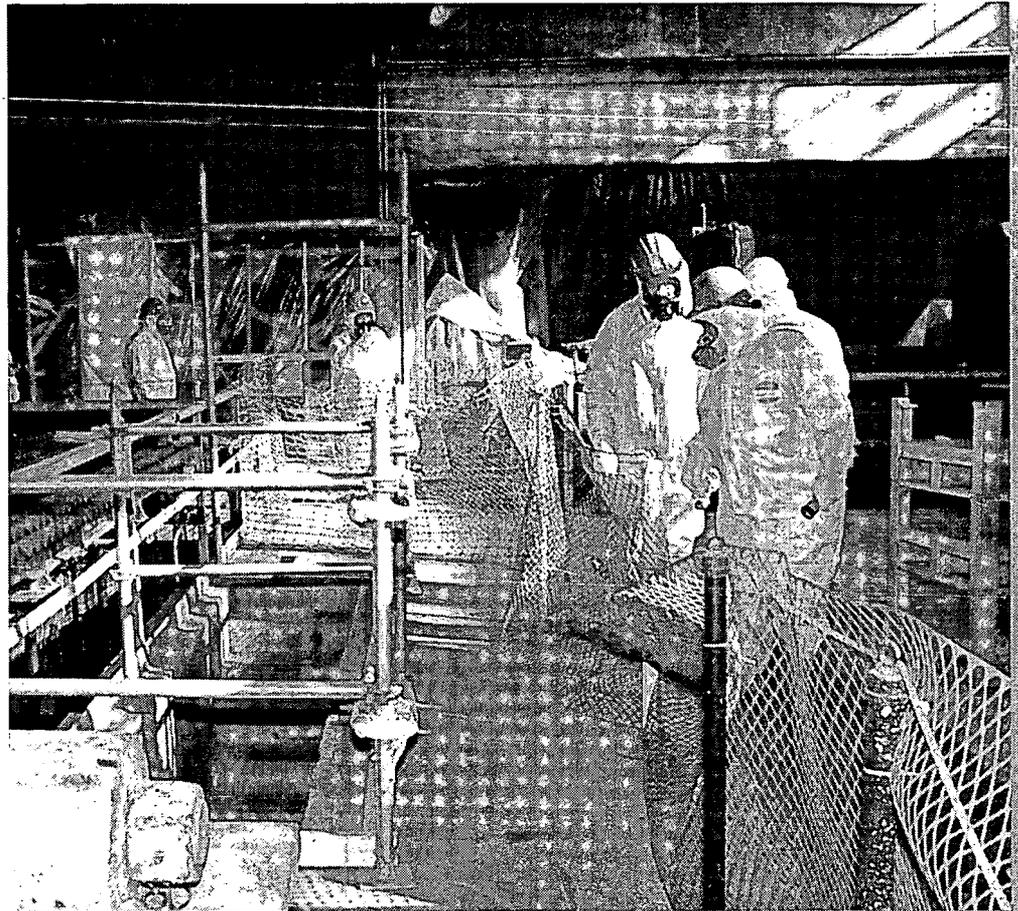
*Left: Workers pour foundation wall for a 16" re-injection well to be used in the field-scale demonstration which is one of the innovative technologies deployed at Fernald (6261-275).*

The formal public comment period that began on April 3 for the Silos 1 and 2 Proposed Plan for Remedial Action, ended on May 18. Comments and transcripts from the public hearings in Cincinnati and Las Vegas, Nevada are available for review at the Public Environmental Information Center, 10995 Hamilton-Cleves Highway, Harrison, Ohio, 513-648-7480.

## Safety Success is a Team Effort

In May, Fernald team members met another site safety milestone. Team members worked more than 4.648 million safe work hours without a lost time accident. This sets a new site safety record. Fernald's sub-contractors have also excelled with their safety record by working seven years without a lost time injury. Team member involvement is the key to the success of Fernald's Safety Program. Team members have made it a part of their job to practice 24-hour safety.

*Right: As a part of the Integrated Safety Management initiative, management conducts a safety walk through of Plant 6 prior to the start up of work to analyze existing and potential hazards that may be present when demolition is initiated (6639D-256).*



## U.C. students learn more about Fernald

The Fernald story is being told at the University of Cincinnati. At the request of Dr. Tom Wagner, a retired professor of community planning at the university and member of the Fernald Citizens Advisory Board, a display was assembled to illustrate Fernald's former mission and future use. If you happen to be near the stairwell between the fifth and sixth floors of the College of Design, Architecture, Art and Planning between now and August 1, stop and take a look at this unique display.

*Left: Stop by and see the Fernald story creatively depicted through pictures, text and maps now on display at the University of Cincinnati (7343-d04).*

Right: "From Weapons to Wetlands" was the theme at the Fernald display during Cincinnati's Earth Day celebration. Team member Julie Doering talks with visitors who attended the event (7358-d10).



## Earth Day 2000

April 22, 2000 marked the 30th anniversary of Earth Day. Cities around the country organized events to recognize efforts both nationally and locally that carry the message of working together to preserve the planet's health. Cincinnati celebrated the day along the river at Sawyer Point with music, exhibits, an egg hunt, awards ceremony and a tree planting. The Fernald site was one of many environmental exhibits at the event sponsored by the Greater Cincinnati Earth Coalition.



## Leveraging Good Works

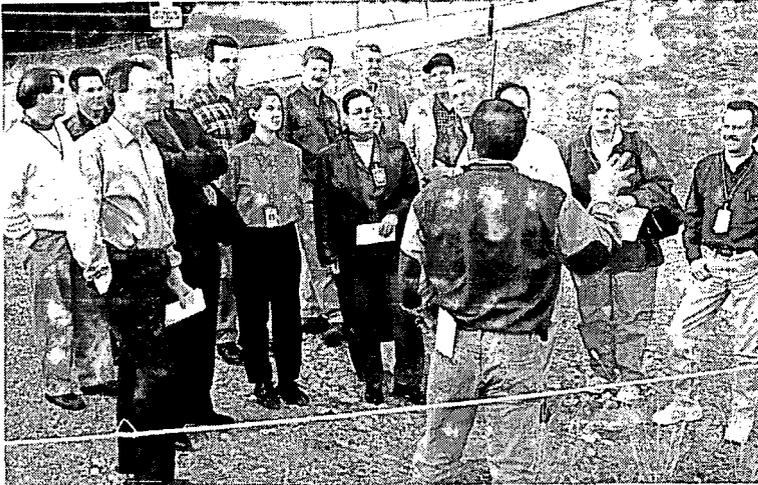
*"From what we get, we can make a living; what we give, however, makes a life." — Arthur Ashe*

Fernald is blessed with generous volunteers who freely give their time to help others. The efforts of these volunteers can be multiplied by teaming up with others and by leveraging donations to make a positive impact on the area.

In a recent visit to the tristate, Fluor Foundation President, J. Robert Fluor, distributed funds from the foundation to help meet the challenges of dwindling public resources and to honor those Fernald volunteers. For the third year, a contribution was made to Southwest Local Schools to improve science education. Habitat for Humanity was also a recipient as they begin to build another house in South Cumminsville and funds were also given to the University of Cincinnati for scholarships to the College of Engineering.

Left: Dr. Kay Bowling, Southwest Schools superintendent, accepts a check from Bob Fluor. For the third year, the foundation has made a donation for improvements to science education in the district (7364-d09).

## Recent Tours

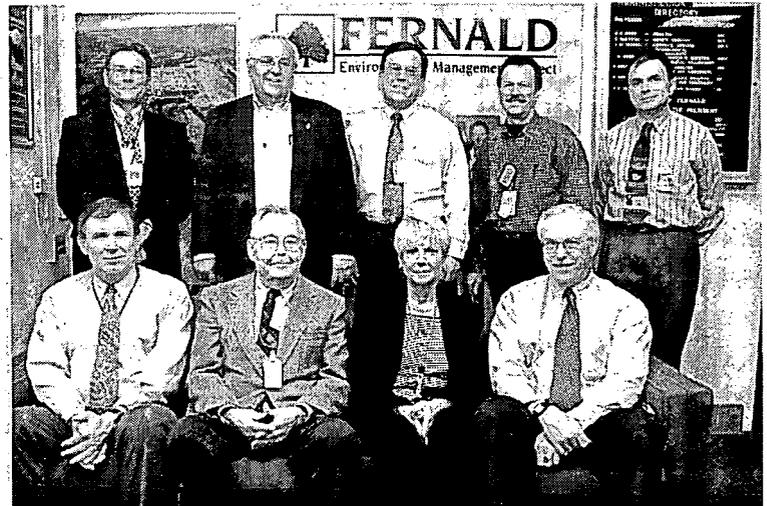


The Fernald Citizens Advisory Board and the Community Reuse Organization are both very involved and interested in future access to the Fernald site. To fully understand the options being considered concerning the issue, they participated in a perimeter tour of the site with special emphasis on suggested access points.

*Left: The group listens while Pete Yerace, DOE Natural Resource trustee, talks about some of the details associated with future access (6810-d321).*

Board members and staff of the Miamisburg Mound Community Improvement Corporation toured Fernald. The tour was conducted by Johnny Reising, DOE-FEMP Associate Director.

*Right: Accompanying the group from Miamisburg were DOE-Mound employees, Oba Vincent (standing far right), Deputy Director, and Jane Greenwalt (seated), Public Affairs Officer (6810-d350).*



The annual DOE Public Tour held May 9, included an emphasis on ecological restoration and a focus on the Silos Project, and drew the largest attendance of any single tour to date. For several local residents, this was their first tour of Fernald and they were treated to close-up views of the site's remediation activities.

*Left: About 110 visitors filled three buses for the two-hour tour. The DOE-Fernald tour speakers were Johnny Reising, Associate Director of Environmental Management; Dave Kozlowski, Associate Director of Safety and Assessment; and Dave Lojek, Waste Pits Project Manager (7375-d12).*

## New documents added to the Public Environmental Information Center

The following information was added to the Public Reading Room, Administrative Record files and Post Record of Decision files at DOE's Public Environmental Information Center (PEIC):

- Waste Pits Remedial Action Project
  - ◇ OEPA Letter: Rescheduling of Waste Pits Remedial Action Project Performance Test
  - ◇ DOE Letter: Initiation of Excavation in Pits 1 and 2
- Soil Characterization & Excavation Project
  - ◇ Technical Specifications for Site Excavation (for Area 3A/4A)
  - ◇ Project Specific Plan for Area 8, Phase III – South Certification Sampling
  - ◇ Final On-Site Disposal Facility Borrow Area Strategy Report
  - ◇ Project Specific Plan for Area 9, Phase I Pre-design Investigation Sampling
- Silos Project
  - ◇ OEPA Letter: Comments for Silo 3 Site Preparation Package
  - ◇ USEPA Letter: Conditional Approval of the Silo 3 Project Site Preparation
  - ◇ Remedial Design Work Plan Silos 1 and 2 Accelerated Waste Retrieval Project Site Preparation
- Aquifer Restoration Project
  - ◇ October 1999 Operating Report for the Re-Injection Demonstration
- Miscellaneous
  - ◇ Integrated Environmental Monitoring Status Report for fourth Quarter 1999
  - ◇ The Department of Energy, Fernald Environmental Management Project, Position On Wetlands Formed Incidental to Construction
  - ◇ Proposed Milestones to the Fernald Environmental Management Project Site Treatment Plan

*Note: This does not represent the complete list of new documents added to the PEIC for the month of April. Contact the PEIC, 513-648-7480 for a complete list of new documents.*



### Fernald Report

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