

Community Meeting

March 7, 2007



8558.1 3/07

The second quarterly Legacy Management Community Meeting was held on Wednesday, March 7, 2007, at the Crosby Township Senior and Community Center. Approximately 35 people attended the meeting to discuss the Aquifer Restoration Project and other related issues.

Nature Nook

Beaver

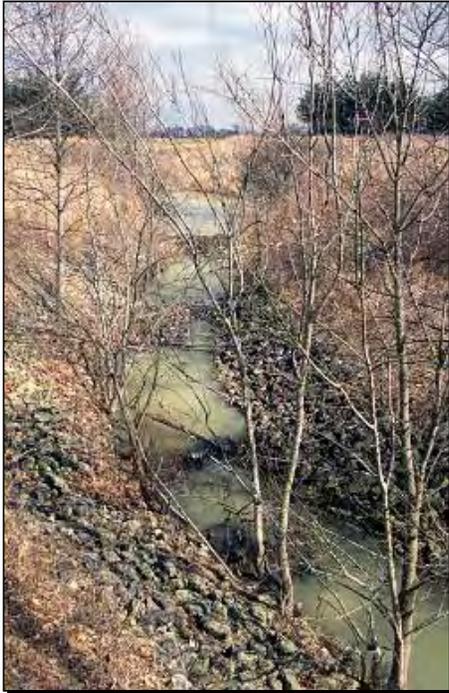
Castor canadensis

- North America's largest rodent
 - 35-40 lbs., 25-30 in.
- Alters habitat to suit their needs
- Specialized adaptations for life in water
 - Waterproof fur
 - Valves in nose and ears
 - Oversize lungs
- Extinct in Ohio by 1830
- Returned to Hamilton County in 1984
- 1998 survey estimated the statewide population at 25,000
- Creates its own habitat by turning streams into wetlands
- Provides habitat for other species, such as ducks, fishes and insects



The Nature Nook, which highlights flora or fauna inhabiting the Fernald Preserve, is one of the topics featured at these community meetings.

Nature Nook



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The beaver's damming abilities have created additional wetlands for waterfowl and aquatic life.

Nature Nook



8558.4 3/07

Beaver activities negatively impact restoration activities by razing planted saplings and trees. Dams have been removed from water flow monitoring equipment as well.

Fernald Preserve



As a community asset, the Fernald Preserve will foster wildlife habitat and provide educational opportunities through environmental stewardship.



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The Fernald Preserve mission statement.

Worker Health and Safety



OSHA Recordables

Industry	Fernald	DOE Complex	LM
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0.0

1.6

0.99

4.8

Fernald Preserve

Lost time	First aid
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0

0



Safety performance at the Fernald Preserve has been outstanding. There were no OSHA Recordables, lost time accidents, or first aid cases.

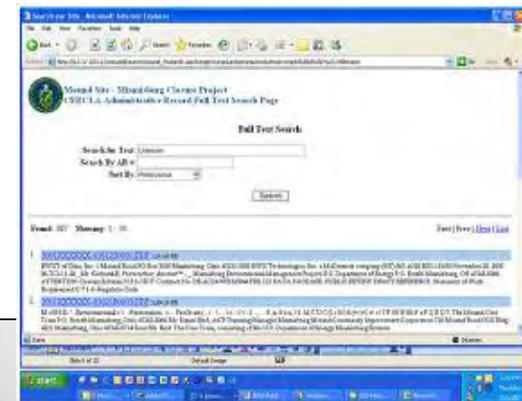
Closure Celebration



8558.7 3/07

Approximately 700 people attended the Fernald Closure Celebration on January 19, 2007. The crowd included community members, retirees, media, stakeholders, and dignitaries such as the Secretary of Energy Samuel Bodman, U.S. Environmental Protection Agency Administrator Stephen Johnson, Senator George Voinovich, Environmental Management (EM) and Legacy Management (LM) officials, and corporate officials.

Administrative Record



8558.8 3/07

Fernald's Administrative Record is being digitized by LM personnel at the Mound Site in Miamisburg, Ohio. Digitization is 98 percent complete and is on target for completion by April 1, 2007. When the digitized process is 100 percent complete, the public will have full access to the Administrative Record online at the LM webpage (www.LM.doe.gov).

2008 Budget

- **Proposed DOE LM FY08 budget**
 - \$194 million
- **Proposed DOE LM FY08 LTS&M budget***
 - \$22.78 million
- **Proposed DOE LM Fernald Preserve funding***
 - \$9.28 million FY07 current
 - \$8.59 million FY08 requested

* Does not include pensions, benefits, Visitors Center Renovation



EEOICPA



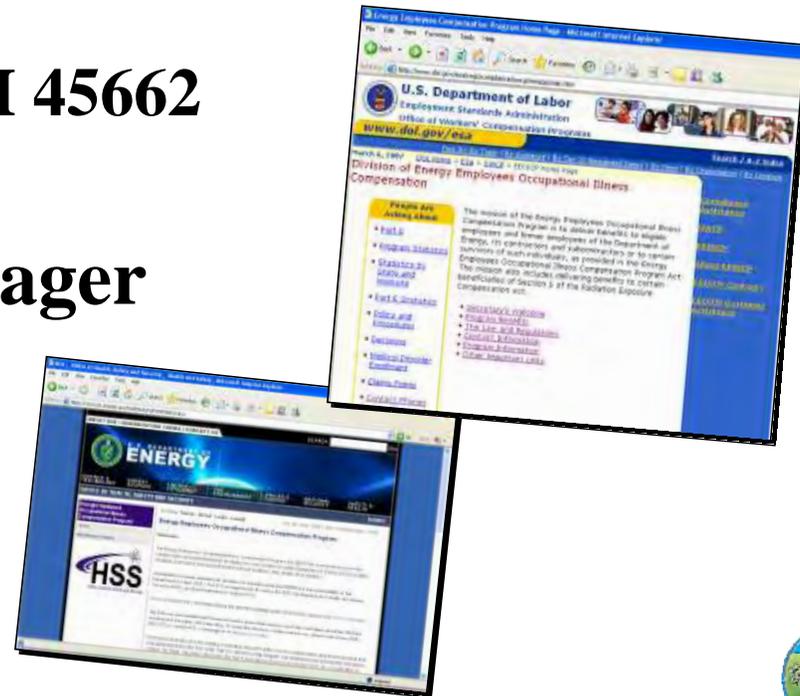
Energy Compensation Resource Center

1200 Gay Street

Portsmouth, OH 45662

866-363-6993

Pam Mallory, Manager



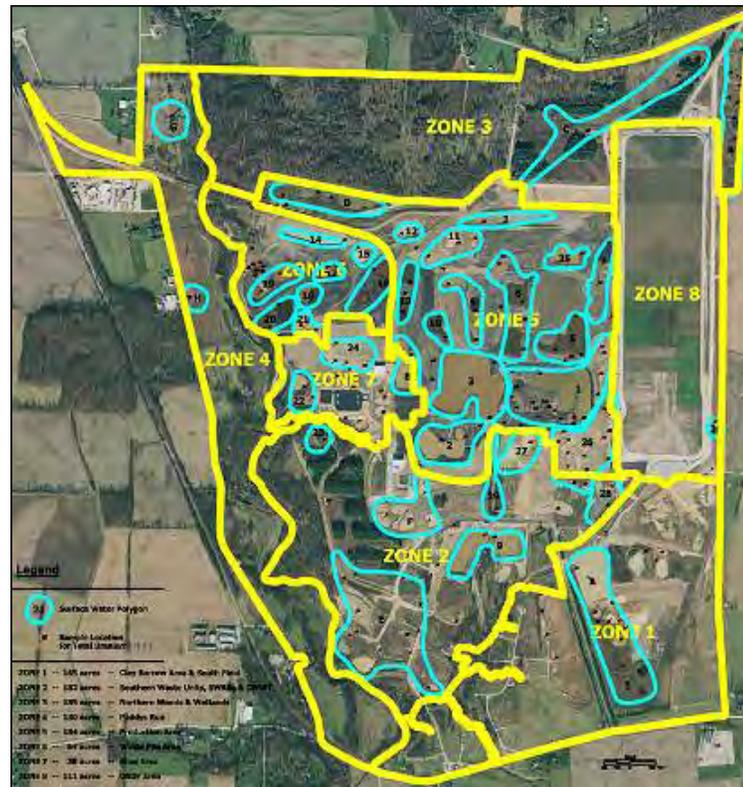
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Contact Pam Mallory at the U.S. Department of Labor with questions related to the Energy Employees Occupational Illness Compensation Program Act (EEOICPA).

Environmental Management

Johnny Reising

DOE-EM Fernald Closure Project Manager



8558.11 3/07

Discussions regarding the Natural Resources Damages claim brought against the U.S. Department of Energy by the Ohio Environmental Protection Agency (OEPA) are ongoing.

Aquifer Restoration



August 1992



8558.12 3/07

Ground water contamination occurred during Fernald's production era. The restoration of the Great Miami Aquifer will continue until the cleanup standards are met in all affected areas.

Aquifer Restoration



- **Great Miami Aquifer (sole source)**
 - **960,000 Acres**
 - **196 acres contaminated (.02 percent)**
- **30 parts per billion uranium cleanup level**
- **Off-property contamination discovered in 1981**
- **Installed off-property extraction wells in 1993**
- **Utilized re-injection from 1998 to 2004**



The contaminated portion (0.02 percent) of the Great Miami Aquifer is a small percentage of the entire body of water. The water is being cleaned to the U.S. Environmental Protection Agency (EPA) drinking water standards.

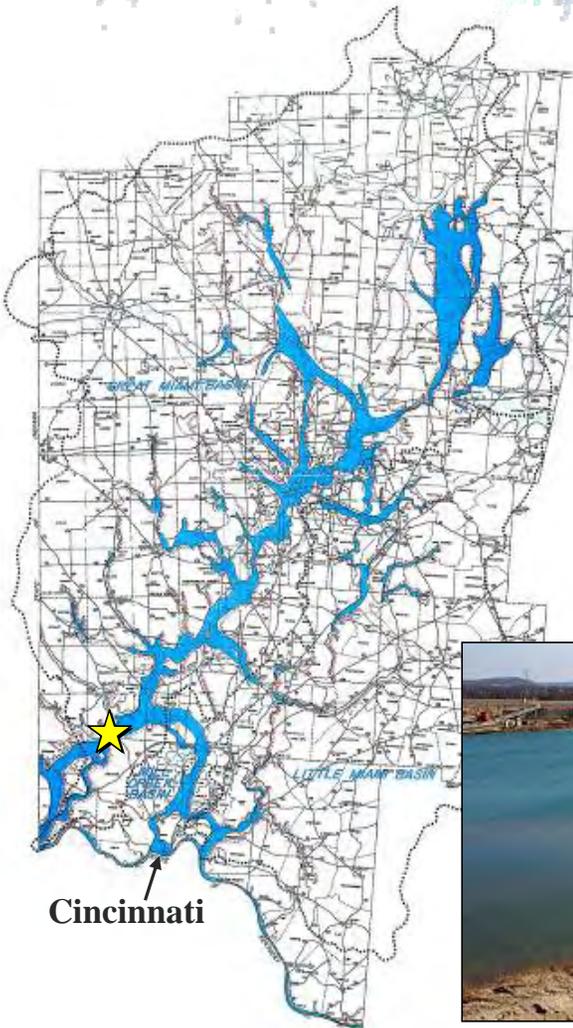
Aquifer Restoration

- **755 test wells used at height of sampling effort**
- **23 pumping wells used for cleanup**
- **4,800 gallons per minute flow rate**
- **Extracted 20.4 billion gallons**
- **Treated 9 billion gallons of groundwater**
- **Removed 7,800 pounds of uranium**
- **2026 projected completion**



Monitoring wells are used to confirm the effectiveness of the aquifer cleanup remedy.

Aquifer Restoration



Cincinnati



8558.15 3/07

The 960,000-acre Great Miami Aquifer extends from north of Dayton, Ohio, to the Ohio River. Contamination from site activities was found in 0.02 percent (196 acres) of the entire aquifer.

Aquifer Restoration

Extraction Wells



8558.16 3/07



There are 23 extraction wells that pull contaminated water from the aquifer for treatment. The wells pump 24 hours a day, seven days a week, at a flow rate of 100 gallons-per-minute to more than 300 gallons-per-minute.

Aquifer Restoration

Monitoring Wells



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An extensive system of groundwater monitoring wells track the progress of removing uranium from the water under the Fernald site. More than 140 wells on- and off-site are sampled twice a year.

Aquifer Restoration

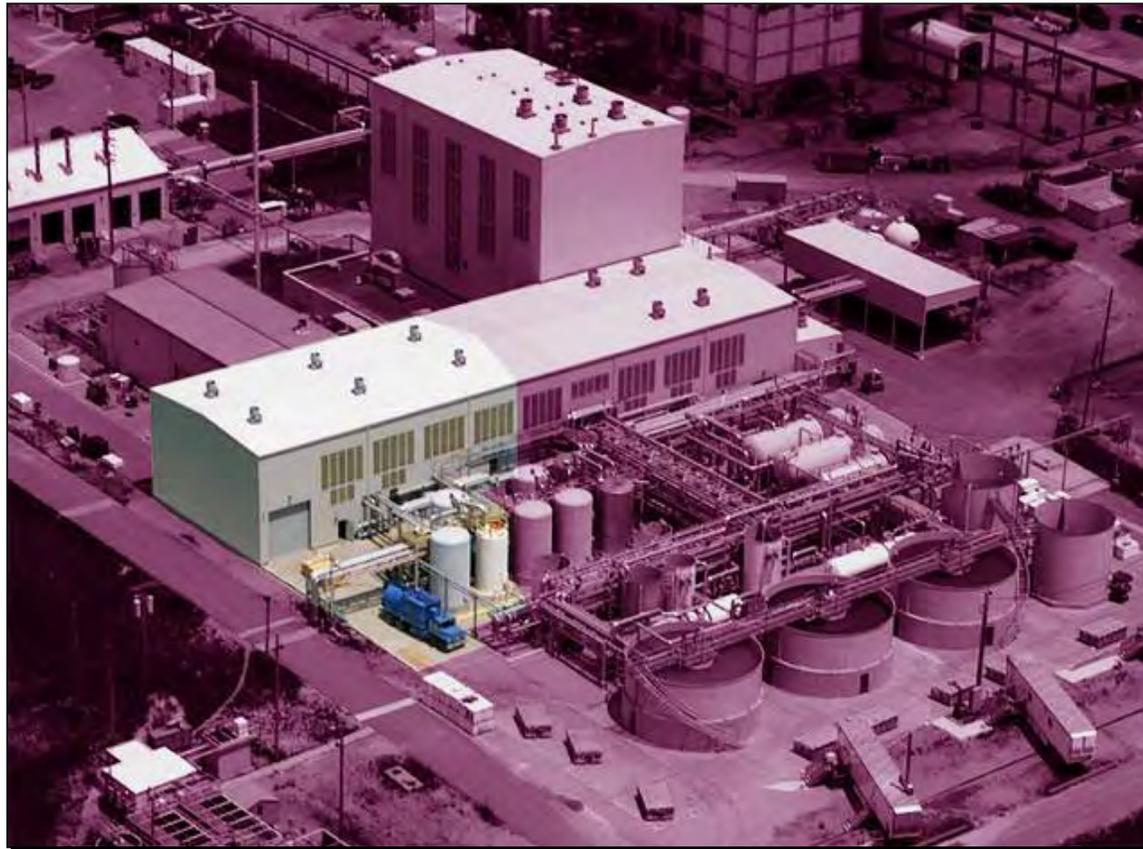
Regulatory Drivers

- Pump 4,800 gallons per minute
- Meet 30 parts per billion monthly average uranium discharge limit to Great Miami River
- Meet 600 pound per year uranium discharge limit to the Great Miami River



Aquifer Restoration

Former Advanced Wastewater Treatment Facility



8558.19 3/07



The original Advanced Wastewater Treatment Facility was constructed in 1994 and began operation a year later with a treatment capacity of 1,100 gallons-per-minute. An expansion treatment project began in 1998 that added an additional 1,800 gallons-per-minute capacity.

Aquifer Restoration

Converted Advanced Wastewater Treatment Facility



8558.20 3/07

Approximately 90 percent of the original wastewater treatment facility was removed to create the Converted Advanced Wastewater Treatment (CAWWT) Facility. This smaller facility will accommodate the site's long-term water treatment needs and with a smaller footprint, it will be easier and less costly to remove.

Aquifer Restoration

Converted Advanced Wastewater Treatment Facility Components

- 1,800 gallons per minute total design capacity
- Using multi-media filtration and ion-exchange
- Design life of at least 10 years to support aquifer restoration



The CAWWT facility is designed to treat 1,800 gallons of water per minute. The water is cleaned to meet EPA drinking water standards before being discharged to the Great Miami River.

Aquifer Restoration

Converted Advanced Wastewater Treatment Facility



8558.22 3/07



Vessels in the CAWWT facility use ion exchange resin to remove uranium from the groundwater. The treatment process is computer-controlled to increase efficiency and operability.

Community Relations

- **Community meetings**
- **Public Environmental Information Center**
- **Publications**
- **Website**
- **Outreach**



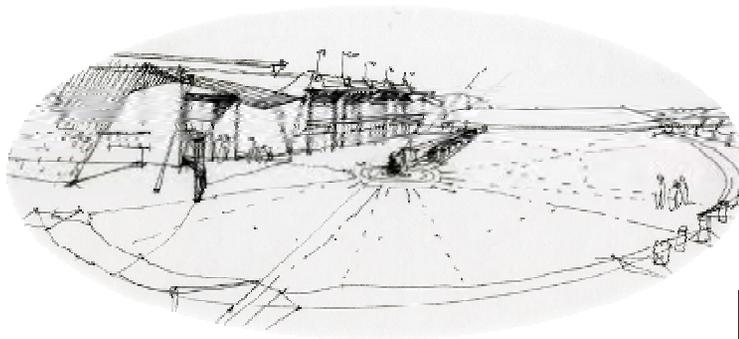
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The Fernald Community Alliance meets the first Monday of each month at the Crosby Township Community Center beginning at 6:30 p.m. The Public Environmental Information Center is open Monday through Thursday from 8 a.m. to 4 p.m. or by appointment, and is located at 10995 Hamilton-Cleves Hwy. Fernald Preserve information is available on the Legacy Management website at www.LM.doe.gov or by calling (513) 648-6000.

Community Relations

Visitors Center

- Conceptual Design Process
- Status
- Future



8558.24 3/07

The Fernald Preserve Visitors Center is scheduled to open the summer of 2008. An existing warehouse will be refurbished and will house displays and information on the history of the Fernald site as well as information for visitors who are interested in nature observation.

What's Next?

90 Day Forecast (March-May)

- **Restoration**
 - wetland plug planting
 - tree planting and seeding around Visitors Center
 - site erosion repair
 - weed control
 - selective mowing of On-Site Disposal Facility
- **Aquifer**
 - resin exchange
- **Regulatory**
 - *Annual Site Environmental Report*
 - Quarterly site inspection



Community Meeting

Join us:

June 6, 2007 6:30 p.m.

Fernald Preserve



Jane Powell

DOE-LM Fernald Preserve Manager
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Sue Walpole

S.M. Stoller Community Relations
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