



October 20, 2011

Chair
Ralph Young

Vice-Chair
Maggie Morgan

Board Members
Judy Clayton
Robert Coleman
David M. Franklin
Kyle Henderson
Jonathan Hines
Mike Kemp
Maggie Morgan
Kevin L. Murphy
Dianne O'Brien
Ben Peterson
Elton Priddy
Richard Rushing
Ken Wheeler

Student Participant
R. Colby Davis

Board Liaisons
Reinhard Knerr
DOE DDFO

Buz Smith
DOE Federal Coordinator

Ed Winner
*Division of Waste
Management*

Turpin Ballard
*Environmental Protection
Agency*

Mike Hardin
Fish and Wildlife Resources

Stephanie Brock
Radiation Health Branch

Support Services
EHI Consultants, Inc.
111 Memorial Drive
Paducah, KY 42001
Phone 270.554.3004
Fax 270.554.3248
www.pgdpcab.org
info@pgdpcab.org

Agenda for the October Board Meeting

6:00

Call to order, Introductions, Review of Agenda

DDFO's Comments -- 15 minutes

Federal Coordinator Comments -- 5 minutes

Liaison Comments -- 5 minutes

Administrative Issues

- Swift & Staley Environmental Information Center Presentation
- KRCEE's Ground Water Model Presentation

Sub-Committee Chair Comments -- 15 minutes

Public Comments -- 15 minutes

Final Comments from the Board -- 5 minutes

Adjourn

Paducah Citizens Advisory Board

DDFO Presentation

Reinhard Knerr, Paducah Site Lead

October 20, 2011



CITIZENS
ADVISORY BOARD



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Presentation Agenda

- Inactive facilities removal
 - ✓ Continued Feed Plant cleanup
 - ✓ Metals Plant demolition preparation
- Southwest Plume Sources Proposed Plan
- Burial Grounds dispute
- DUF₆ plant update
- Contractor safety milestones
- Community outreach-Heath Middle School

Inactive Facilities: Big Picture

Metals Plant Before

- 65 ft² complex used until mid-80s, mainly to make uranium metal.



Metals Plant During

- Saved \$2.5 million by accelerating cleanup five years ahead of schedule.

East End Smelter Before

- 21,000 ft² complex used until 1986 to smelt nickel.



East End Smelter During

- Completed demolition One Year ahead of schedule and \$12 million under budget.

Feed Plant Before

- Nearly 200k ft² complex used until 1977 to produce UF₆ and fluorine.



Feed Plant During

- Half-acre eastern third complex (31,000 ft²) demolished three months ahead of schedule.

Inactive Facilities Removal: C-410 Feed Plant

- Cleanup accelerated with \$12 million in Smelter savings.
- Recovery Act buyback project completed 9/29/11, including demolition of half-acre eastern third of complex in late June.
- This marks the completion of the ARRA work at Paducah.



A worker practices operating a remote-controlled demolition machine for use in the Feed Plant.

Inactive Facilities Removal: C-410 Feed Plant



- About 74,000 ft³ piping, equipment removed.
- Demolition of remaining 164,000 ft² planned for 2012.
 - LATA to issue Request for Proposals in January.

Inactive Facilities Removal: C-340 Metals Plant



- Metals Plant declared demo-ready in early August.
- Applied fixative in September to guard against airborne contamination during demolition.

Workers spray green fixative to prepare the Metals Plant for demolition.

Inactive Facilities Removal C-340 Metals Plant



- Competitive bidding:
 - Issued Request for Proposals Aug. 10.
 - Potential bidders toured complex Sept. 8.
 - Received bids Sept. 26; under evaluation.
- Demolition to begin in first quarter 2012; cost: < \$10 million, including waste disposition.

Groundwater Cleanup

Southwest Plume Sources Proposed Plan

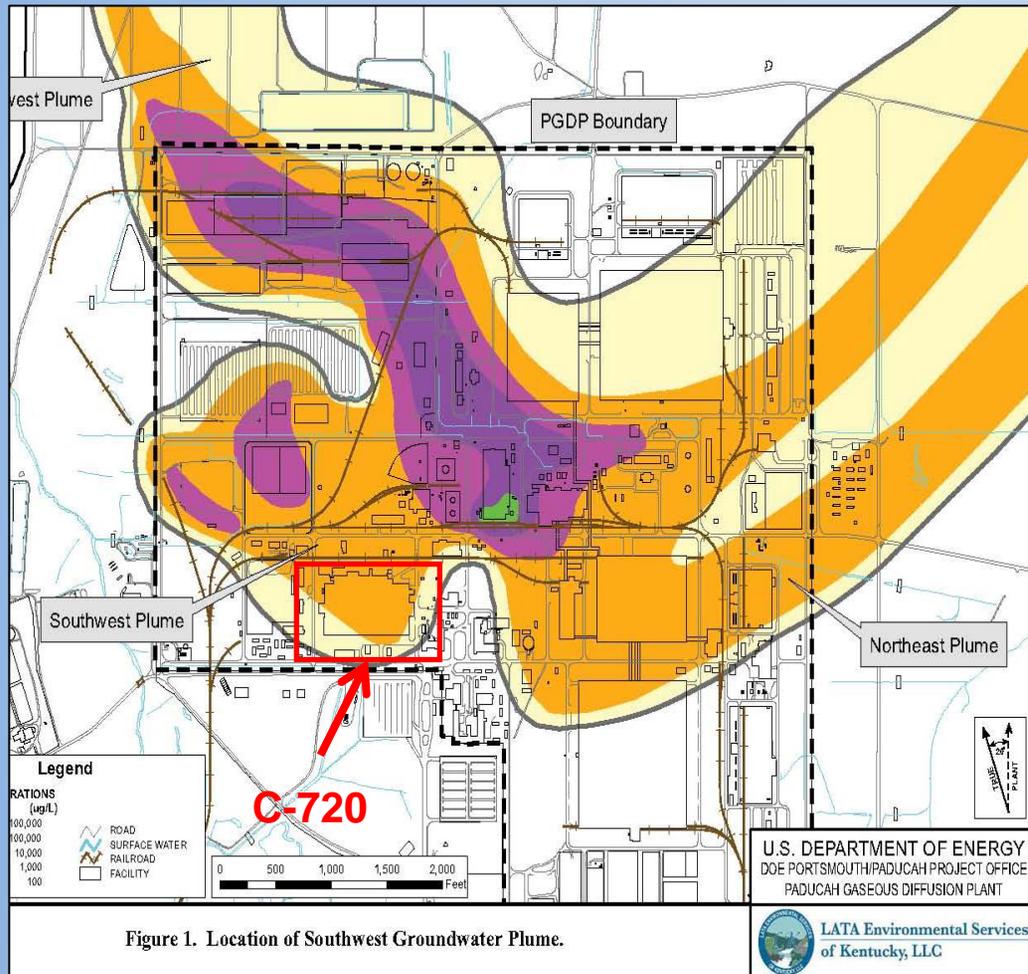
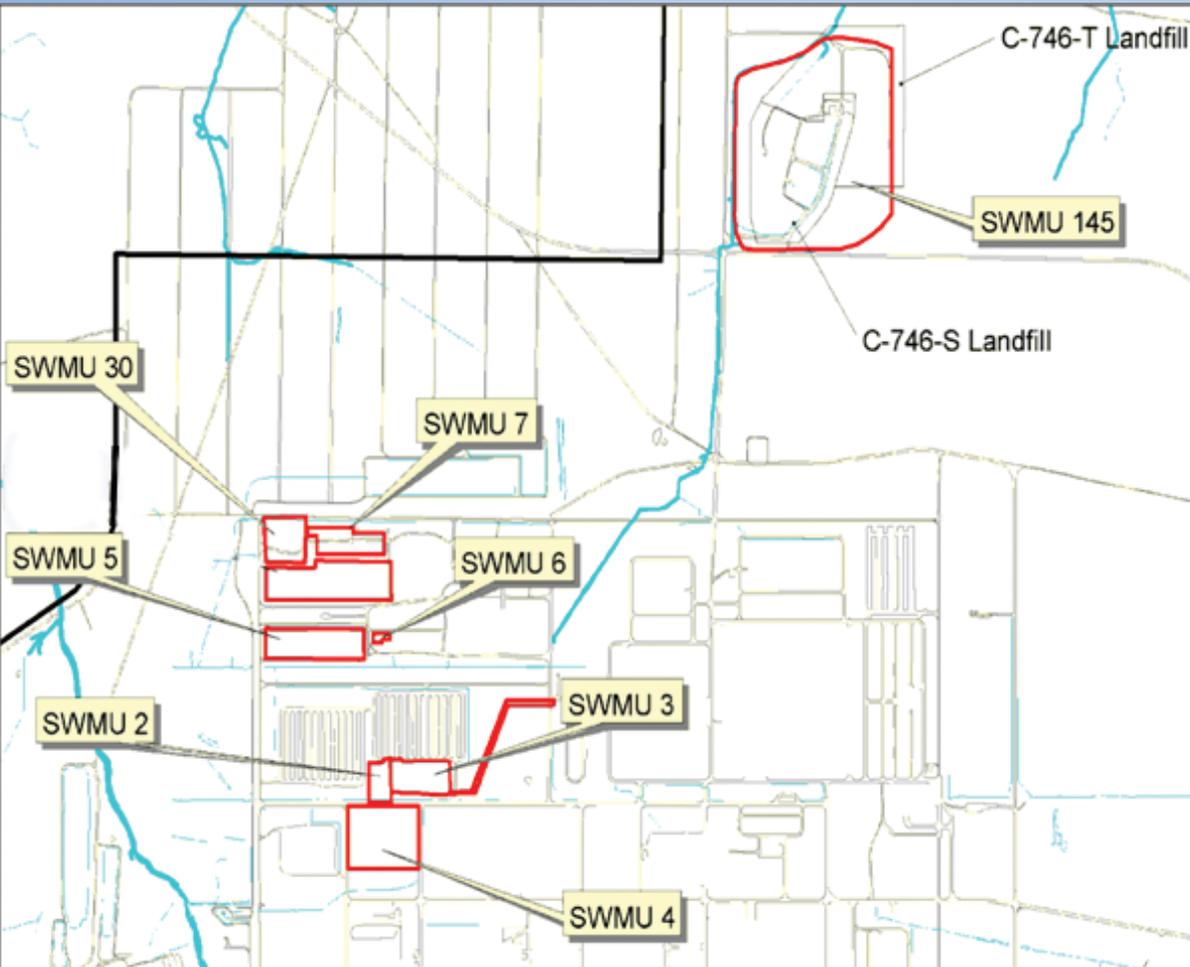


Figure 1. Location of Southwest Groundwater Plume.

- SW Plume smallest of three TCE-contaminated groundwater plumes
- About 70 gals TCE in ground at three source areas.
- Proposed Plan recommends:
 - ✓ Deep soil mixing at SWMU 1 (oil landfarm).
 - ✓ Enhanced in place bioremediation (micro-organisms) or long-term monitoring at two areas near C-720 Maintenance/Stores building. Remedy contingent on RDSI results.
- State, EPA approved Proposed Plan in late September.
- 45-day public comment period 10/2-11/16.
- Final ROD to regulators in December.

Burial Grounds – Formal Dispute



- Since January, DOE/regulators resolved 109 issues/comments involving FS process.
- New strategy: Divide burial grounds into subprojects for cleanup at the FS or PP/ROD
- Seven unresolved comments relate to designation of Principle Threat Waste (PTW).
- Formal dispute ongoing to resolve final concerns.
- Dispute delays completing Feasibility Study process.

Depleted Uranium Hexafluoride (DUF₆) Plant



- Babcock and Wilcox Conversion Services (BWCS) continues phased startup of conversion operations.
 - ✓ All four lines operated in September to process three cylinders without shutdown, demonstrating conversion capability.
 - ✓ Completing maintenance on lines 1 and 2.
- FY 2012 efforts focus on achieving sustainable, multiline production capacity.
- Operational employment is projected at more than 160 skilled hourly and salaried personnel.
- UF₆ in approximately 41,000 cylinders will be converted into a more stable chemical form for beneficial reuse or disposal.

Contractor Safety Milestones

1 million hours worked without lost workday due to job-related injury/illness.

- Infrastructure contractor Swift & Staley reached milestone 9/2, celebrated 9/29.
 - Represents > 6.5 years of plant work.
- Cleanup contractor LATA Kentucky targeting late October.
 - Represents work since mid-November 2010.
 - Accomplished during hazardous inactive facilities cleanup.



Spotters watch during a simulation as an excavator operator uses a grapple to grasp a plastic barrel during LATA Kentucky safety training exercises in summer 2011.

Community Outreach

DOE developing program to enhance Heath Middle School gifted-talented science studies.

- Runs Oct. 2011-May 2012; may expand beyond gifted-talented in future years.
- Mentors assigned to each group of students.
- Students investigating, problem-solving Paducah site issues.
- Expanded from May 19, 2011 first-of-its-kind pilot project at site.



Heath middle school students use a field measurement tool to determine the acidity of samples they took during a field exercise



EM Environmental Management

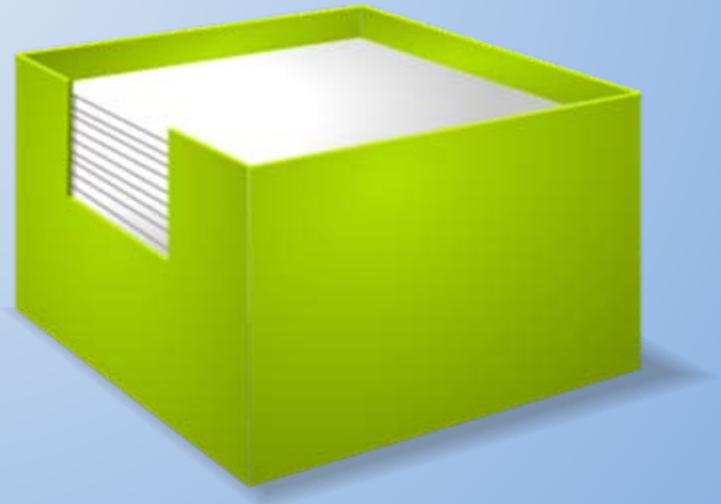
safety ❖ performance ❖ cleanup ❖ closure

Recent and Upcoming Documents

- FY 12 Site Management Plan – due mid November
- Waste Disposal Options – RI/FS targeted for end of November/first of December.
- BGOU feasibility study 5/6 targeted for the first of December.
- BGOU SWMU 4 SAP targeted for end of October.

C-400:

- Proposed plan revision with new alternative analysis targeted for October 28.



Discussion...



CITIZENS
ADVISORY BOARD

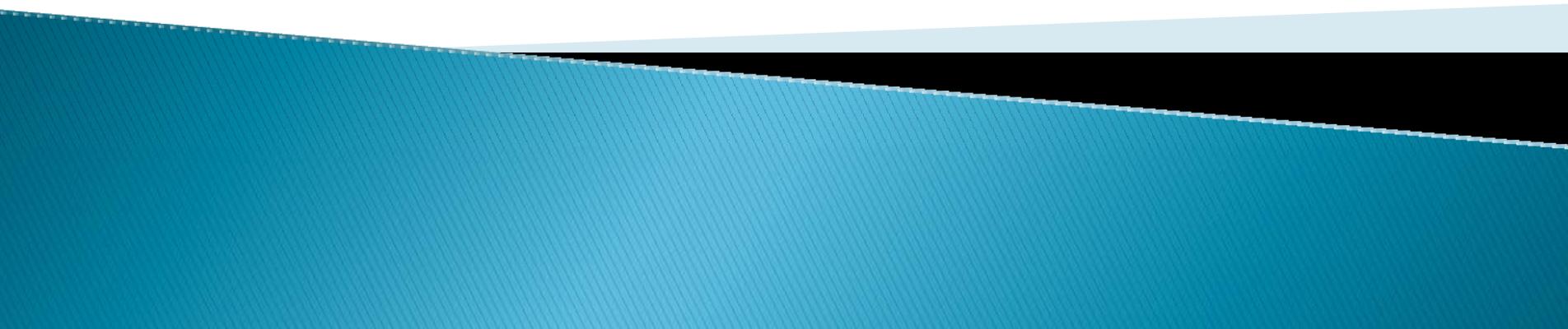


EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Paducah Environmental Information Center

Swift & Staley Mechanical Contractors, Inc.



Environmental Information Center

- The Paducah Environmental Information Center (EIC) opened in 1993 to provide area residents a convenient way to participate in and learn more about the Paducah Gaseous Diffusion Plant (PGDP) Environmental Restoration program.
- EIC visitors have been primarily DOE contractors, potential DOE contractors, or attorneys/legal representatives involved in PGDP litigation issues or research.

Document Types in the EIC

Administrative Record

- The EIC houses the Administrative Record (AR), Post Decision (PD), and General Reference Compendium (GRC) documents. It is administered under the guidelines of Section 113(k) *Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)* and EPA's *Revised Guidance on Compiling Administrative Records for CERCLA Response Actions*.

... *“the administrative record file shall also be made available for public inspection at or near the site at issue.”*

Administrative Record File

- Some examples of documents that may comprise the Administrative Record File:
 - FFA Primary and Secondary Documents
 - EPA/KDEP/DOE Signature Correspondence
 - Preliminary Assessment Reports
 - Action Memorandums
 - Site Investigation Reports
 - Remedial Investigation/Feasibility Study Work Plans
 - Sampling and Analysis Plans
 - Technical Studies
 - Fact Sheets
 - Engineering Evaluation/Cost Analysis (EE/CA)
 - Public Notices
 - Public Comments
 - Community Relations Plan
 - Feasibility Studies
 - Records of Decision (ROD)

Post Decision File

- The Post Decision File may include:
 - Documents relevant to the response selection, but generated or received after the decision document is signed
 - EPA/KDEP/DOE Signature Correspondence
 - Post-Construction Reports
 - Post Record of Decision Modifications
 - Public Comments
 - Public Notices

Administrative Record/ Post Decision Index

- An AR/PD index is distributed monthly and quarterly to the AR Coordinator and the EIC and uploaded to the EIC website. The AR Coordinator forwards the index to DOE, the applicable contractor staff, Project Managers, and the McCracken County Library.

General Reference Compendium (GRC)

- The GRC documents are documents that do not meet the CERCLA guidelines for the Administrative Record, but are deemed to be of interest to the public regarding the PGDP environmental restoration.
- GRC examples include Site Management Plans, SWMU Reports, PCB Annual Reports, Annual Site Environmental Reports, and Discharge Monitoring Reports

EIC Website

www.paducaheic.com



PADUCAH ENVIRONMENTAL INFORMATION CENTER

The Paducah Environmental Information Center (EIC) was opened in 1993 to provide residents of Western Kentucky and the surrounding area a convenient way to participate in environmental restoration program decisions and to learn more about the U.S.

[Read More](#)

ADMINISTRATIVE RECORD AND POST DECISION FILE

Each Administrative Record (AR) and Post Decision (PD) File must be indexed. This index enables easier identification and location of documents in the record file and provides DOE and Swift & Staley Mechanical Contractors, Inc. a degree of control over the AR and PD documents.

[Read More](#)

GENERAL REFERENCE COMPENDIUM

In addition to the Administrative Record (AR), the Environmental Information Center also stores guidance and policy documents, referred to as the General Reference Compendium (GRC) documents.

[Read More](#)

ADMINISTRATIVE RECORD - POST DECISION INDEX LIST

The Comprehensive Environmental Response, Compensation, and Liabilities Act (CERCLA) requires that an Administrative Record (AR) of the documents that form the basis for selection of a response action at a site be made available to the public.

[Read More](#)

EIC Website Facts

- Since July, the website has averaged 160 visitors per week.
- During the previous 18 months, the EIC Office had four visitors and 15 document requests.

EIC Website Facts

- Google and other search sites are in the process of indexing the EIC's documents. This means they will begin to show up as results in Google searches with direct links to the documents.
- Most popular document searched to-date:
SAFETY ANALYSIS REPORT (SAR) VOLUME 1 AND VOLUME 2: Chapter 6, Prevention of Inadvertent Criticality

Related Links

www.paducaheic.com/links.aspx



U.S. DEPARTMENT OF
ENERGY
EIC Online Document Repository

[HOME](#)

[ABOUT](#)

[SEARCH](#)

[LINKS](#)

[CONTACT US](#)

[VISIT US](#)

search



LINKS

YOU ARE HERE: [HOME](#) » [LINKS](#)

[Department of Energy \(DOE\)](#)

[Agency for Toxic Substances and Disease Registry \(ATSDR\)](#)

[Department of Energy Portsmouth/Paducah Project Office](#)

[Comprehensive Environmental Response, Compensation, and Liability Act \(CERCLA\)](#)

[Environmental Management Consolidated Business Center \(EMCBC\)](#)

[Paducah Data Warehouse](#)

[Freedom of Information Act & Privacy Act Programs](#)

[Oak Ridge Environmental Information System \(OREIS\)](#)

[Department of Labor Worker Compensation Program](#)

[United States Environmental Protection Agency](#)

[Kentucky Department for Environmental Protection](#)

[Swift & Staley Mechanical Contractors, Inc.](#)

[LATA Environmental Services of Kentucky, Inc.](#)

[Paducah Citizens Advisory Board \(CAB\)](#)

[United States Enrichment Corporation \(USEC\)](#)

[Centers for Disease Control and Prevention](#)

Contacting the Paducah EIC

www.paducaheic.com/contact-us.aspx



[HOME](#)

[ABOUT](#)

[SEARCH](#)

[LINKS](#)

[CONTACT US](#)

[VISIT US](#)

search



CONTACT US

YOU ARE HERE: [HOME](#) » [CONTACT US](#)

If you would like more information, please contact us by completing the form below.

Hours of Operation: Monday through Friday, 8AM - 12 Noon

Closed on major holidays

Name

Email

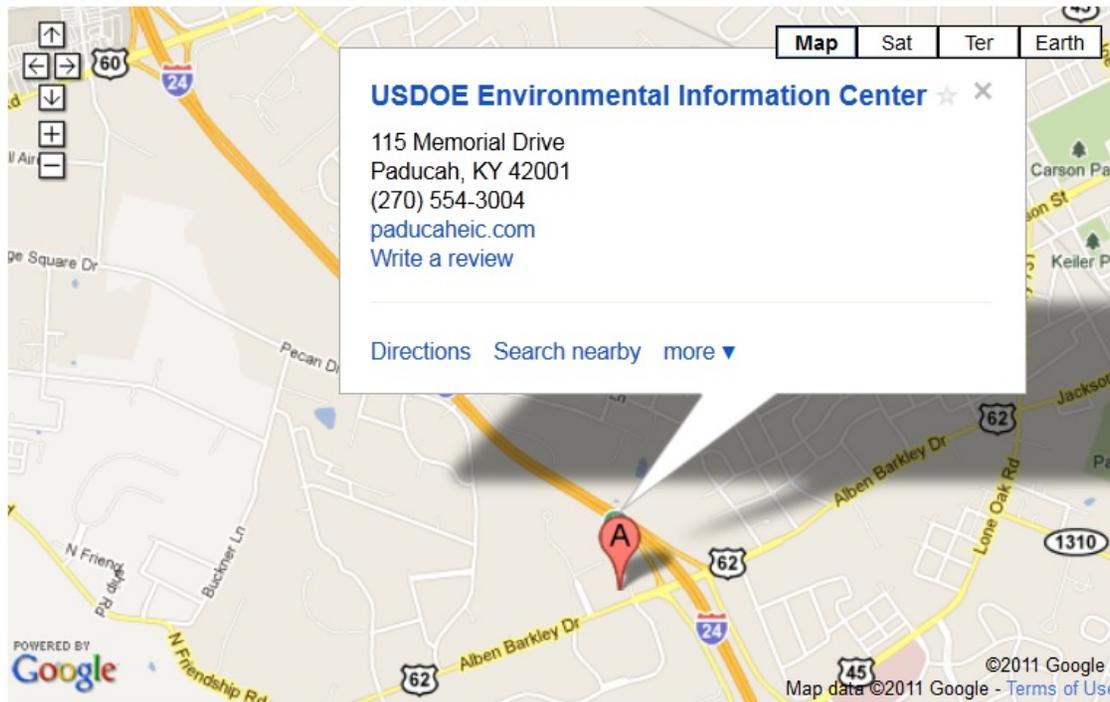
Your Message

[Submit](#)



VISIT US

YOU ARE HERE: [HOME](#) » [VISIT US](#)



[View Larger Map](#)

OUR ADDRESS

US DOE ENVIRONMENTAL INFORMATION CENTER

115 Memorial Drive
Paducah, Kentucky 42001
8:00 a.m. - 12:00 p.m M-F

Website: <http://www.paducaeic.com/>

Phone: (270) 554-3004

EIC Website Search Parameters

www.paducaheic.com/search.aspx

[HOME](#)[ABOUT](#)[SEARCH](#)[LINKS](#)[CONTACT US](#)[VISIT US](#)

SEARCH

YOU ARE HERE: [HOME](#) » [SEARCH](#)

Full Text Search...

ENTER ANY COMBINATION OF SEARCH TERMS BELOW:

Document ID:

Ex. DOE/LX/07-0186&D1 or PPPO-02-245-08

Accession Number:

Ex. I-05212-0010 or ei00807-0006

Title:

Ex. "Treatability Study" or "Hazardous Waste"

Author:

Ex. Last Name (i.e. Smith)

Author Affiliation:

Ex. KDEP or DOE-PPPO

To Affiliation:

Ex. USEPA or EPA or DOE-PPPO

Index:

All Indexes



[Search Term Help](#)

Your search returned 0 result(s)

Page:

Need help finding what you're looking for?



U.S. DEPARTMENT OF
ENERGY
EIC Online Document Repository

[HOME](#)

[ABOUT](#)

[SEARCH](#)

[LINKS](#)

[CONTACT US](#)

[VISIT US](#)

search



FULL TEXT SEARCH

YOU ARE HERE: [HOME](#) » [FULL TEXT SEARCH](#)

Your search for returned **0** result(s)

Page:

Search

Limit Results To The Following Index:

All Indexes

Need help finding what you're looking for?

EIC Website Search Demonstration

- ▶ Dustin Taylor: