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**1994 RESOURCE CONSERVATION AND RECOVERY ACT ANNUAL  
REPORT - FERNALD ENVIRONMENTAL MANAGMENT PROJECT**

02/23/95

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LETTER

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Department of Energy  
Fernald Environmental Management Project  
P. O. Box 538705  
Cincinnati, Ohio 45253-8705  
(513) 648-3155

FEB 23 1995

DOE-0597-95

Mr. Thomas E. Crepeau  
Manager, Data Management Section  
Ohio Environmental Protection Agency  
Division of Hazardous Waste Management  
P. O. Box 163669  
Cincinnati, Ohio 43216-3669

Dear Mr. Crepeau:

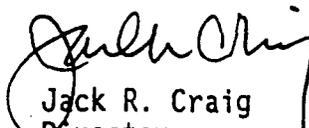
**1994 RESOURCE CONSERVATION AND RECOVERY ACT ANNUAL REPORT - FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

Pursuant to Ohio Administrative Code (OAC) 3745-52-41, 3745-65-75, and 3745-65-94, the Fernald Environmental Management Project (FEMP) is submitting the Generator, Facility, and Waste Minimization Annual Report, including the Supplementary Annual Report for 1994 Groundwater Monitoring information. The FEMP does have material which is not fully characterized for disposition. Please note a partial listing of this material in the Resource Conservation and Recovery Act (RCRA) Annual Report's Facility Annual Hazardous Waste Report that starts on page 43. Schedules for completing characterization and disposition are being implemented. The FEMP is planning to review previous characterizations based on analytical or regulatory review.

Information contained in the 1993 RCRA Annual Report has been amended on a quarterly basis to account for information developed during ongoing characterization efforts and inventory reconciliation efforts. As per previous discussions and submittals to you, after submittal of the 1994 RCRA Annual Report, any characterizations of generated material completed after March 1, 1995, will be included as amendments to the 1994 RCRA Annual Report. The amendments will be included with submissions of the Quarterly Consent Decree Technical Progress Report.

For your convenience, enclosed is a one-page summary of the changes for the Facility Annual Report from CY93 to CY94 and some highlights concerning the groundwater data. If you have any questions, please contact Ed Skintik at (513) 648-3151.

Sincerely,

  
Jack R. Craig  
Director

FN:Skintik

Enclosure: As Stated

cc w/enc:

K. A. Chaney, EM-423,Q0  
P. Pardi, OEPA  
M. Proffitt, OEPA  
Administrative Record, FERMCO  
RCRA Operating Record, FERMCO

cc w/o enc:

K. A. Nickel, DOE-FN  
D. M. Rast, DOE-FN  
J. M. Sattler, DOE-FN  
D. J. Brettschneider, FERMCO/52-5  
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T. D. Hagen, FERMCO/MS65-2  
L. B. Ko, FERMCO/16-3

SUMMARY OF CHANGES FROM CY93 FACILITY RCRA ANNUAL REPORT TO CY94 FACILITY F ANNUAL REPORT

- 1. CY93 Wastestreams removed from the report:
  - 15 were archived to another wastestream.
  - 10 were eliminated by being shipped entirely to Envirocare.
  - 22 were recharacterized and determined not to be RCRA waste.

47 total wastestreams removed from the report.
- 2. CY93 Pending wastestreams that have changed:
  - 4 were archived to another wastestream.
  - 7 were determined Non-RCRA when completely characterized.
  - 2 were determined RCRA and shipped offsite to Envirocare.
  - 43 were determined RCRA and remain in on-site storage.

56 total wastestreams are no longer pending.
- 3. CY94 Wastestreams added to the report in addition to the 43 previous pending wastestreams:
  - 40 new RCRA wastestreams were added with complete characterizations.
  - 5 new pending wastestreams were added.
- 4. There has been a net increase of 36 (40+43=83; 83-47=36) RCRA wastestreams, and a net decrease of 51 (56 old - 5 new= 51) pending wastestreams.
- 5. The total amount of waste stored on-site has decreased through the above changes. Total weights for RCRA and Pending wastestreams for each calendar year are listed below.

CY93	CY94
RCRA = 6,672,850 lbs.	RCRA = 5,589,067 lbs.
Pending = 689,708 lbs.	Pending = 295,564 lbs.

Synopsis of Groundwater Data:

Analytical Results: No impact on human health or environment. Only elevated levels are in wells 2106 and 3069 (U content); both wells are in South Plume.

In general, elevated concentrations of general chemistry and metals parameters are stable (i.e., neither increasing or decreasing).

Additional info:

- \* Sporadic detections of cadmium in several wells (OU5 RI report - not major contaminant; need more data to evaluate risk).
- \* Elevated sulfate levels - below waste pits and Plant 6 (given in OU5 RI report).
- \* Organic contaminant detections - below 1 microgram/liter or due to background contaminants.