



## Department of Energy

Ohio Field Office  
Fernald Area Office  
P. O. Box 538705  
Cincinnati, Ohio 45253-8705  
(513) 648-3155



**3563**

27 MAR 2001

Mr. James M. Raab  
Hydrogeologist/Supervisor  
Technical Resources Unit  
Water Resources Section  
Division of Water  
Fountain Square  
Columbus, OH 43224-1387

DOE-0427-01

Dear Mr. Raab:

### TRANSMITTAL OF WELL PLUGGING AND ABANDONMENT INFORMATION FOR 2000

- References:
- 1) Letter, J. Raab to K. Nickel, dated March 4, 1996
  - 2) Letter, J. A. Saric to J. Reising, "Well Abandonment," dated June 28, 1996
  - 3) Letter, T. A. Schneider to J. Reising, "DOE-FEMP MSL 531-0297 Hamilton County Approval: Well Abandonment Letter," dated May 30, 1996

This letter transmits information regarding monitoring well plugging and abandonment activities for 2000 at the Fernald Environmental Management Project (FEMP). This information has been prepared based on your correspondence (Reference 1) and subsequent follow-up phone conversations with FEMP staff. The information fulfills Ohio Revised Code 1521.05(B) requirements for the submittal of well abandonment documentation to the Ohio Department of Natural Resources (ODNR).

The sixteen wells abandoned during this period were selected based on their location with respect to excavation and construction activities, decontamination and decommissioning, discontinued access to private land, or the well was no longer protective of the aquifer. A careful review was performed for each well scheduled for abandonment to evaluate any potential future use. The method of plugging and abandonment for each well was to remove the entire well riser, screen, and sump. The formation was then allowed to collapse to the water table. A bentonite pellet plug was placed above the collapsed formation, followed by a bentonite slurry emplaced to within 30 inches of ground surface. Concrete or soil was placed above the bentonite slurry to the surface.

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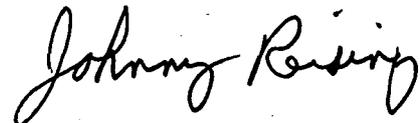
Mr. James M. Raab

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Enclosed is a list of the abandoned wells and includes information of well materials. Also, enclosed is an ODNR Water Well Sealing Report that has been completed and included for the deepest well.

Additional plugging and abandonment information will continue to be sent on an annual basis. If you have any questions or comments concerning this matter, please contact Robert Janke at (513) 648-3124 or Kathi Nickel at (513) 648-3166.

Sincerely,



Johnny W. Reising  
Fernald Remedial Action  
Project Manager

FEMP:Nickel

Enclosures

cc w/enclosures:

K. Nickel, OH/FEMP  
R. J. Janke, OH/FEMP  
J. A. Saric, USEPA-V  
M. Proffitt, OEPA-Dayton  
T. Schneider, OEPA-Dayton  
R. Vandegrift, ODH  
AR Coordinator, Fluor Fernald, Inc./78

cc w/o enclosures:

D. Brettschneider, Fluor Fernald, Inc./52-5  
M. Frank, Fluor Fernald, Inc./90  
T. Hagen, Fluor Fernald, Inc./65-2  
W. Hertel, Fluor Fernald, Inc./52-5  
M. Jewett, Fluor Fernald, Inc./52-2  
F. Johnston, Fluor Fernald, Inc./52-5  
T. Poff, Fluor Fernald, Inc./65-2  
K. Voisard, Fluor Fernald, Inc./12  
ECDC, Fluor Fernald, Inc. 52-7

**Well Plugging and Abandonment Summary Information for 2000**

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Well/ Lysimeter	Reason for Abandonment	Coordinates NAD83 N	Coordinates NAD83 E	Diameter (in)	Depth (ft)	Riser Material	Abandonment Date
41240	Planned Excavation	482138.42	1349490.04	6	185	Carbon Steel	4-13-00
3034	Planned Construction	480209.59	1346962.38	4	112	Stainless Steel	4-18-00
2033	Planned Construction	480440.46	1347318.32	4	67.5	Stainless Steel	4-19-00
2034	Planned Construction	480269.41	1346950.44	4	63.5	Stainless Steel	4-19-00
2067	Well Damaged	479790.41	1351527.98	4	90	Stainless Steel	4-24-00
2551	Discontinued Private Land Access	475376.68	1347536.99	4	27	Stainless Steel	4-25-00
3551	Discontinued Private Land Access	475366.2	1347536.98	4	87	Stainless Steel	4-25-00
41066	Planned Excavation	482055.59	1349820.3	4	212	Stainless Steel	4-26-00
1675	Planned Excavation	481212.2	1349591.6	2	20	Stainless Steel	4-27-00
1676	Planned Excavation	481216.91	1349510.38	2	20	Stainless Steel	4-27-00
3423	Planned Construction	482585.09	1350286.71	4	140	Stainless Steel	10-19-00
2423	Planned Construction	482556.52	1381770.68	4	94	Stainless Steel	10-23-00
4436	Planned Construction	482564.77	1349736.88	4	197	Stainless Steel	10-24-00
3027	Compromised Well Integrity	482004.46	1347839.27	4	126	Stainless Steel	10-27-00
3068	Not Protective of Aquifer	478701.81	1349922.41	4	132.4	Stainless Steel	12-15-00
3020	Not Protective of Aquifer	479196.77	1348966.37	4	116	PVC	12-20-00

WATER WELL SEALING REPORT  
OHIO DEPARTMENT OF NATURAL RESOURCES

0128701

Division of Water  
1939 Fountain Square Drive  
Columbus, Ohio 43224-1385

Voice: (614) 265-6739 Fax: (614) 265-6767

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LOCATION

Circle One or Both

County Hamilton Township Crosby Section/Lot Number 6

Owner/Builder Department of Energy, Fernald Environmental Management Project

Circle One or Both

Address of Well Location 7400 Willey Rd.  
Number Street Name

City Hamilton Zip Code +4 45013-9402

1 miles NW of Willey Rd. and S.R. 128  
n, e, s, w nearest intersection

Property Location Description on the N side of Willey Rd.  
n, e, s, w road name

Location of Well in State Plane N  coordinates, if available S  X 1349820.30 +/- ft. or m Y 482055.59 +/- ft. or m

Elevation of Well 590.60 +/- ft. or m Datum Plain:  NAD27  NAD83

Source of Coordinates:  GPS  Survey  Other

ORIGINAL WELL ODNR Well Log Number FEMP #41066 Copy attached? Yes or (No) (circle one)

MEASURED CONSTRUCTION DETAILS Date of measurements 7-13-1993

Depth of Well 212 ft. Static Water Level 70.25 ft.  
Size of Casing 4 in. ID Stainless Steel Length of casing 202 ft.  
Well Condition Good

SEALING PROCEDURE

Method of Placement Formation allowed to collapse naturally to 48.7 ft. Pour bentonite pellet then inject grout slurry. Add pellets and concrete after grout settles.

Placement:	From	To	Sealing Material	Volume
	0 ft	2.1 ft	concrete	1 ft <sup>3</sup>
	2.1 ft	6.3 ft	bentonite chips	1/2 ft <sup>3</sup>
	6.3 ft	29.2 ft	bentonite grout slurry	3.5 ft <sup>3</sup>
	29.2 ft	48.7 ft	bentonite pellets	2.0 ft <sup>3</sup>

Was Casing Removed? (Yes) or No (circle one)

Condition of Casing Good  
Perforations: From 200 ft. To 210 ft.  
From n/a To n/a

Date Sealing Performed 4-26-2000  
Reason(s) for Sealing Well abandoned due to excavation and remediation activities.

CONTRACTOR

Name Moody's of Dayton ODH Registration # 636

Address 4359 Infirmary Rd. PO Box 509

City/State/Zip Miamisburg, OH 45343

Signature Jonathan Walters, FEMP Geologist  
I hereby certify the information given is accurate and correct to the best of my knowledge.

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