



Department of Energy

Ohio Field Office
Fernald Area Office

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



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APR 02 2002

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

DOE-0393-02

Dear Mr. Raab:

TRANSMITTAL OF WELL PLUGGING AND ABANDONMENT INFORMATION FOR 2001

- References:
1. Letter, J. Raab, ODNR, to K. Nickel, DOE-FEMP, dated March 4, 1996
 2. Letter, James A. Saric, USEPA, to Johnny Reising, DOE-FEMP, "Well Abandonment," dated June 28, 1996
 3. Letter, Thomas A. Schneider, OEPA, to Johnny Reising, DOE-FEMP, "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 2001 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). Abandonment methods were chosen based on previously approved well-specific abandonment methods (References 2 and 3).

The wells abandoned during this period were selected for abandonment based on their location with respect to certified clean areas, excavation activities, decommissioning and demolition, and wells that could have compromised well integrity. A careful review was performed for each well scheduled for abandonment to evaluate any potential future use. Attachment I includes a list of the abandoned wells by method of abandonment. Attachment II includes a completed ODNR Water Well Sealing Report for the deepest well of each method.

Additional plugging and abandonment information will continue to be sent on an annual basis.

APR 02 2002

Mr. James M. Raab

-2-

DOE-0393-02

If you have any questions or comments concerning this matter, please contact Kathleen Nickel at (513) 648-3166.

Sincerely,



Johnny W. Reising
Associate Director
Remedial Management

FEMP:Nickel

Enclosures: As Stated

cc w/enclosures:

K. Nickel, OH/FEMP
R. J. Janke, OH/FEMP
M. Proffitt, OEPA-Dayton
J. A. Saric, USEPA-V
T. A. Schneider, OEPA-Dayton
R. Vandegrift, ODH
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosures:

D. J. Brettschneider, Fluor Fernald Inc./MS52-2
M. Frank, Fluor Fernald, Inc./MS90
T. Hagen, Fluor Fernald, Inc./MS65-2
W. A. Hertel, Fluor Fernald, Inc./MS52-5
M. A. Jewett, Fluor Fernald, Inc./MS52-2
F. L. Johnston, Fluor Fernald, Inc./MS52-2
T. A. Poff, Fluor Fernald, Inc./MS65-2
K. Voisard, Fluor Fernald, Inc./MS12
ECDC, Fluor Fernald, Inc./MS52-7

Attachment I

Well Plugging and Abandonment Summary Information for 2001

Method 1
Removal of Well Riser, Screen, and Sump

Well	Reason for Abandonment	Coordinates NAD83N	Coordinates NAD83E	Diameter (in)	Depth (ft)	Riser Material	Date Abandoned
1012	Certified Clean Area	483732.7	1346443.8	4	62.0	PVC	5-22-01
1904	Certified Clean Area	478805.4	1349816.0	2	25.0	PVC	5-23-01
1905	Certified Clean Area	478616.5	1349786.0	2	25.0	PVC	5-23-01
2400	Planned Excavation	477928.9	1350346.8	4	77.0	Stainless Steel	11-7-01
2421	Potential Compromised Well Integrity	481681.3	1350605.3	4	82.0	Stainless Steel	5-24-01
3421	Potential Compromised Well Integrity	481692.1	1350605.7	4	142.0	Stainless Steel	5-24-01
11488	Certified Clean Area	482849.3	1344524.8	2	6.75	PVC	5-21-01
11489	Certified Clean Area	482849.2	1344522.8	2	36.0	PVC	5-21-01
11490	Certified Clean Area	482849.4	1344520.0	2	47.0	PVC	5-21-01
11558	Certified Clean Area	482851.3	1344490.5	2	33.5	PVC	5-21-01
11559	Certified Clean Area	482848.4	1344539.8	2	34.5	PVC	5-21-01
21190	Habitat Restoration	477646.5	1347680.2	4	20.1	Stainless Steel	1-15-01

Well Plugging and Abandonment Summary Information for 2001

Method 2
In-Place Abandonment

Well	Reason for Abandonment	Coordinates NAD83N	Coordinates NAD83E	Diameter (in)	Depth (ft)	Riser Material	Date Abandoned
1196	Planned Building Demolition	480657.3	1349038.3	4	15.0	PVC	11-1-01
1197	Planned Building Demolition	480655.8	1349069.4	4	15.0	PVC	11-1-01
1223	Planned Building Demolition	480429.5	1348818.0	4	19.0	PVC	11-1-01
11211	Planned Building Demolition	480301.5	1348803.1	2	24.2	PVC	11-1-01
1227	Planned Building Demolition	480346.9	1349005.6	4	12.0	PVC	11-1-01
1779	Planned Building Demolition	480621.9	1348690.3	4	20.1	Stainless Steel	11-1-01
1780	Planned Building Demolition	480623.6	1348742.8	4	18.8	Stainless Steel	11-1-01
1781	Planned Building Demolition	480569.7	1348705.6	4	19.7	Stainless Steel	11-1-01
1782	Planned Building Demolition	480568.7	1348748.3	4	19.7	Stainless Steel	11-1-01
1783	Planned Building Demolition	480720.2	1349038.8	4	16.0	Stainless Steel	11-1-01
1784	Planned Building Demolition	480707.8	1349077.3	4	16.0	Stainless Steel	11-1-01
1785	Planned Building Demolition	480299.8	1348791.9	6	21.0	Stainless Steel	11-1-01

4211

Attachment 2

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
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/Bullder 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 1350605.70 +/- ft. or m y 481692.05 +/- ft. or m

Elevation of Well 586.80 +/- ft Datum Plain: NAD27 NAD83

Source of Coordinates: GPS Survey Other

ORIGINAL WELL ODNr Well Log Number FEMP 3421 Copy attached? Yes or (NO) (circle one)

MEASURED CONSTRUCTION DETAILS

Date of measurements 12-10-91

Depth of Well 142 ft. Static Water Level 69.7
 Size of Casing 4 in. stainless steel Length of casing 130
 Well Condition Good

SEALING PROCEDURE

Method of Placement Formation allowed to collapse naturally to 23 ft. Pour bentonite chips then inject grout slurry.

Placement:	From	To	Sealing Material	Volume
	<u>0</u>	<u>7 ft.</u>	<u>Grout</u>	<u>.609 ft³</u>
	<u>7 ft.</u>	<u>23 ft.</u>	<u>Bentonite chips</u>	<u>1.39 ft³</u>
	<u>23 ft.</u>	<u>142 ft.</u>	<u>Natural Collapse</u>	<u>N/A</u>

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

Condition of Casing Good

Perforations: From 130 To 140
 From N/A To N/A

Date Sealing Performed _____
 Reason(s) for Sealing _____

CONTRACTOR

Name Moody's of Dayton ODH Registration # 636
 Address 4359 Infirmary Rd. P.O. Box 509
 City/State/Zip Miamisburg OH 45343

Signature [Signature] Ferns geologist

I hereby certify the information given is accurate and correct to the best of my knowledge.