



Department of Energy
Ohio Field Office
Fernald Environmental Management Project
P. O. Box 538705
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MAR 26 2003

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

DOE-0284-03

Dear Mr. Raab:

TRANSMITTAL OF WELL PLUGGING AND ABANDONMENT INFORMATION FOR 2002

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

This letter transmits monitoring well plugging and abandonment information to the Ohio Department of Natural Resources (ODNR). The enclosed plugging and abandonment information has been prepared based on correspondence (Reference 1) and subsequent follow-up conversations with Mr. James Raab of the ODNR. The information fulfills Ohio Revised Code 1521.05(B) requirements for submittal of well abandonment documentation information for monitoring wells abandoned at the Fernald Closure Project (FCP) during 2002. 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 area, 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. Enclosure I includes a list of the abandoned wells.

With one exception, the method for abandonment consisted of pulling the complete well riser, screen, and sump and filling the resulting borehole with bentonite to within 30 inches of the ground surface. Concrete was then placed above the bentonite to the

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Mr. James M. Raab

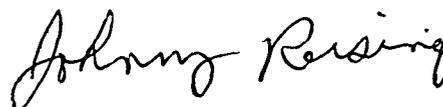
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surface. Due to the depth and poor condition of well FMPC-OAB, the screen and a portion of the riser could not be removed. The riser and borehole were filled with bentonite. Enclosure II includes a completed ODNR Water Well Sealing Report for FMPC-OAB 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 Kathleen Nickel at (513) 648-3166.

Sincerely,



Johnny W. Reising
Fernald Remedial Action
Project Manager

FCP:Nickel

Enclosures: As Stated

cc w/enclosures:

K. Nickel, OH/FCP
R. J. Janke, OH/FCP
M. Proffitt, OEPA, Dayton
J. A. Saric, USEPA, SR-6J
T. A. Schneider, OEPA-Dayton
R. Vandegrift, ODH
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosures:

D. J. Brettschneider, Fluor Fernald, Inc./MS52-5
M. Frank, Fluor Fernald, Inc./MS90
T. Hagen, Fluor Fernald, Inc./MS9
W. A. Hertel, Fluor Fernald, Inc./MS52-5
M. A. Jewett, Fluor Fernald, Inc./MS52-5
F. L. Johnston, Fluor Fernald, Inc./MS52-5
T. A. Poff, Fluor Fernald, Inc./MS65-2
K. Voisard, Fluor Fernald, Inc./MS12
ECDC, Fluor Fernald, Inc./MS52-7

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

County Hamilton Township Crosby Section/Lot Number 6
Owner/Builder United States Dept. of Energy/Fernald Closure Project
Address of Well Location 7400 Willey Rd.
City Hamilton Zip Code +4 45013-9402
Property Location Description on the 1/2 miles nw of S.R. 128 and Willey Rd.
Description on the n side of Willey Rd.

Location of Well in State Plane coordinates, if available N S X 482174.50 + ft. or m Y 11349127.76 + ft. or m

Elevation of Well 589.84 + ft. or m Datum Plain: NAD27 NAD83

Source of Coordinates: GPS Survey Other

ORIGINAL WELL ODNR Well Log Number FCPID# FMPC-OAB Copy attached? Yes or No

MEASURED CONSTRUCTION DETAILS

Date of measurements 3-19-02

Depth of Well 145 ft Static Water Level Unknown due to clogged screen
Size of Casing 6 in Length of casing Approx 147 ft
Well Condition Poor. Well blocked by debris @ 97 ft. and screen was clogged.

SEALING PROCEDURE

Method of Placement Tremie bentonite slurry. Pour bentonite chips from surface

| Placement: | From | To | Sealing Material | Volume |
|------------|-----------|------------|-------------------------|----------------------------|
| | <u>0</u> | <u>38</u> | <u>Bentonite slurry</u> | <u>7.5 ft³</u> |
| | <u>38</u> | <u>97</u> | <u>Bentonite chips</u> | <u>12.6 ft³</u> |
| | <u>97</u> | <u>145</u> | <u>unknown fill</u> | <u>N/A</u> |

Was Casing Removed? Yes* or No No * 0-38' removed

Condition of Casing Poor. Carbon steel casing severely corroded. Casing cut @ 38 ft and
Perforations: From 120 ft. To 140 ft overdrilled to 50 ft.

Date Sealing Performed 6-10-02
Reason(s) for Sealing No longer needed and not protective of aquifer

CONTRACTOR

Name Moody's of Dayton ODH Registration # _____
Address 4359 Infirmary Rd P.O. Box 509
City/State/Zip Miamisburg, OH 45342

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

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Attachment II

Well Plugging and Abandonment Summary Information for 2002

| Well | Reason for Abandonment | Coordinates NAD83N | Coordinates NAD83E | Diameter (in) | Depth (ft) | Riser Material | Date Abandoned |
|-------------------------|---|-----------------------|-----------------------|------------------|---------------|-------------------|-------------------|
| Complete Removal | | | | | | | |
| 1018 | Certified Area, no longer needed | 479479.55 | 1347192.76 | 4 | 18.4 | Stainless Steel | 2-27-02 |
| 1265 | Demolition and decommissioning activities | 479758.20 | 1348446.20 | 2 | 9.0 | PVC | 2-6-02 |
| 1403 | Demolition and decommissioning activities | 479810.98 | 1349092.34 | 2 | 14.0 | PVC | 3-1-02 |
| 1523 | Certified Area, no longer needed | 479437.72 | 1348476.37 | 2 | 20.0 | PVC | 3-2-02 |
| 1836 | Certified Area, no longer needed | 481120.24 | 1347265.67 | 4 | 16.4 | Stainless Steel | 2-28-02 |
| 1866 | Demolition and decommissioning activities | 479517.36 | 1350173.44 | 2 | 5.5 | PVC | 3-1-02 |
| 1868 | Demolition and decommissioning activities | 479546.33 | 1349222.00 | 2 | 15.0 | PVC | 3-1-02 |
| 1869 | Demolition and decommissioning activities | 479725.51 | 1349472.75 | 2 | 11.0 | PVC | 3-1-02 |
| 1894 | Certified Area, no longer needed | 480396.46 | 1346717.61 | 1 5/8 | 5.1 | PVC | 2-21-02 |
| 11032 | Certified Area, no longer needed | 478101.84 | 1348318.21 | 2 | 15.25 | Stainless Steel | 2-26-02 |
| 11069 | Certified Area, no longer needed | 479681.90 | 1347978.35 | 4 | 12.75 | Stainless Steel | 3-25-02 |
| 11128 | Certified Area, no longer needed | 478248.94 | 1347303.63 | 1 5/8 | 15.0 | PVC | 2-26-02 |
| 11129 | Certified Area, no longer needed | 478252.50 | 1347321.55 | 1 5/8 | 22.0 | PVC | 2-26-02 |
| 11204 | Certified Area, no longer needed | 480393.45 | 1346718.14 | 1 | 6.0 | PVC | 2-21-02 |
| 11205 | Certified Area, no longer needed | 480475.36 | 1346767.92 | 1 | 6.0 | PVC | 2-21-02 |
| 11207 | Certified Area, no longer needed | 480354.45 | 1346804.78 | 2 | 11.4 | PVC | 2-28-02 |
| 2388 | Excavation activities | 480512.56 | 1349955.83 | 4 | 69.0 | Stainless Steel | 11-26-02 |
| Partial Removal | | | | | | | |
| 11234 | Certified Area, no longer needed | 478252.813 | 1347304.45 | 1 5/8 | 14.0* | PVC | 2-26-02 |
| FMPC OAB | Compromised Well Integrity | 482174.50 | 1349127.76 | 6 | 145** | Carbon Steel | 6-10-02 |

*Lysimeter cup broke off riser when pulling.

**Well was cut at 38 feet and over drilled to 50 feet.