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KC-2 WAREHOUSE/WELL NO. 67 UPDATE

05/18/94

DOE-1730-94
DOE-FN EPA
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LETTER



Department of Energy
Fernald Environmental Management Project
 P.O. Box 398705
 Cincinnati, Ohio 45239-8705

MAY 18 1994
 DOE-1730-94

Mr. James A. Saric, Remedial Project Director
 U.S. Environmental Protection Agency
 Region V - 5HRE-8J
 77 W. Jackson Boulevard
 Chicago, Illinois 60604-3590

Mr. Tom Schneider, Project Manager
 Ohio Environmental Protection Agency
 40 South Main Street
 Dayton, Ohio 45402-2086

Dear Mr. Saric and Mr. Schneider:

KC-2 WAREHOUSE/WELL NO. 67 UPDATE

- Reference:
1. Letter, Jack R. Craig to James A. Saric, "KC-2 Warehouse/Well No. 67, Removal Action Fact Sheet," dated September 27, 1993.
 2. Letter, James A. Saric to Jack R. Craig, "Removal Action 30: KC-2 Warehouse/Well No. 67 Fact Sheet," dated November 5, 1993.
 3. Letter, Graham E. Mitchell to Jack R. Craig, dated October 21, 1993.

This letter serves to update monitoring activities at the KC-2 Warehouse/Well No. 67. As per the Department of Energy, Fernald Field Office (DOE-FN) recommendation, and with United States Environmental Protection Agency (USEPA) and Ohio Environmental Protection Agency (OEPA) concurrence, further plugging and abandonment activities have been postponed until final decommissioning of the KC-2 Warehouse. Semi-annual sampling of Well No. 67 for uranium and HSL metals has begun with the first round of samples collected on January 31, 1994.

The analytical results from these samples are consistent with those obtained from the August 15, 1993, sampling event. Table 1 provides a comparison of these results. Duplicate samples were collected during the January 31, 1994, sampling event and Table 1 reflects the highest of the two samples. The analytical results were typically less than levels from the August 15, 1993, sample event, with the exception of the filtered values for manganese, potassium, and vanadium which showed a slight increase in concentrations. Filtered and non-filtered total-uranium values were also at or below

previously detected levels collected during the August 15, 1993, sampling event. The next semi-annual sampling event will occur during July 1994.

In addition, Enclosure 1 presents responses to comments issued by USEPA and OEPA (Reference 2 & 3 respectively) concerning the "Removal Action 30: KC-2 Warehouse/Well No. 67 Fact Sheet" (Reference 1). The enclosed response to comments provides clarification for the three issues identified by the USEPA and OEPA in regard to the subject Fact Sheet. If you or your staff have any questions, please contact Kathi Nickel at (513) 648-3166.

Sincerely,


Jack R. Craig
Fernald Remedial Action
Project Manager

FN:Nickel

Enclosure: As Stated

cc w/enc:

K. A. Chaney, EM-424, TREV
D. Kozlowski, EM-424, TREV
J. Kwasniewski, OEPA-Columbus
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J. Michaels, PRC
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AR Coordinator, FERMCO

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R. L. Glenn, Parsons
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J. W. Thiesing, FERMCO/2

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Table 1
Summary of Groundwater Sample Detections
KC-2 Warehouse/Well No. 67

Analyte	August 15, 1993 Results ($\mu\text{g/L}$)	January 31, 1994 Results ($\mu\text{g/L}$)	MCL ($\mu\text{g/L}$)
Metals	Unfiltered/Filtered	Unfiltered/Filtered	
Aluminum	29700/22	214/<33.4	
Antimony	112/45	<34.4/<34.4	5.0
Arsenic	71.1/1.1	<1.6/<1.6	50.0
Barium	757/333	103/105	2000
Beryllium	2.3/1	.41/<.41	1.0
Cadmium	44.6/3	4.0/<2.9	5.0
Calcium	912000/1119000	60600/61200	
Chromium	1560/4.4	9.2/<4.0	100
Cobalt	69.4/6.2	<7.0/<7.0	NA
Copper	273/4.1	<6.7/<6.7	1300
Iron	375000/3240	9120/5250	
Lead	1880/1.1	3.5/<.33	15.0
Magnesium	228000/39100	37800/37900	
Manganese	5250/113	141/130	
Mercury	0.24/0.2	<.10/<.10	2.0
Nickel	898/19	<15.1/<15.1	100
Potassium	6500/1280	1450/1380	
Selenium	11.1/1.1	<.78/<.78	50.0
Silver	12.8/3	<6.9/<6.9	
Sodium	20900/19300	17500/17700	
Thallium	1.4/1.1	<.89/<.89	2.0
Vanadium	78.1/4	6.9/8.1	
Zinc	1260/9	54.2/<3.4	
Total Uranium Filtered	0.8 $\mu\text{g/L}$	<.1 $\mu\text{g/L}$	20
Total Uranium Non-Filtered	20 $\mu\text{g/L}$.3 $\mu\text{g/L}$	NA

"<" = less than detection level

ATTACHMENT 1

Commenting Organization: U. S. EPA

Commentor: James Saric

Original Specific Comment # 1

Comment: The Fact Sheet discusses sediment samples collected on January 13 and July 13, 1993. However, Tables 1 and 2 list analytical results for sediment samples collected on January 4 and July 2, 1993. This discrepancy must be clarified.

Response: The January 13 and July 13, 1993 sediment samples were analyzed for total uranium only. Therefore, we did not see the need to present a table for only two data values when they could be presented in the text of the Fact Sheet. The sediment samples of January 4 and July 2, 1993 were for a list of analytes which were better presented in a tabular format. The January 13 and July 13, 1993 sediment sample results are discussed on page 1 of the Fact Sheet. The January 4 and July 2, 1993 data presented in Tables 1 and 2 were discussed on page 2 of the Fact Sheet.

Action: None taken

Commenting Organization: U. S. EPA

Commentor: James Saric

Section #:

Pg. #:

Line #:

Code:

Original Specific Comment # 2

Comment: The difference between the designations "NA and "PNS" in Table 3 is unclear.

Response: The two designators are essentially the same. No data was available for those parameters on those particular dates.

Action: None taken

Commenting Organization: Ohio EPA

Commentor: Graham E. Mitchell

Section #:

Pg. #:

Line #:

Code:

Original Specific Comment # 1

Comment: In DOE's fact sheet concerning this decision (Page 3, third paragraph) it is stated that the well will be "left open". This term "left open" should be clarified. In addition, DOE should immediately install a lockable outer casing around the well to prevent accidental introduction of material into the well.

Response: The term "left open" was intended to mean the well would be left in such a manner that groundwater samples could be collected from it. A protective casing with a lock has been installed around the well and the DOE has self imposed storage restrictions for bay No. 2.

Action: None taken