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RESULTS OF WELL SAMPLING

05/03/95

DOE-0911-95
DOE-FN CITIZEN
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LETTER



Department of Energy
Fernald Environmental Management Project
P. O. Box 398705
Cincinnati, Ohio 45239-8705
(513) 648-3155

MAY 3 1995
DOE-0911-95

Mr. Scott Stevens
[REDACTED]

Dear Mr. Stevens:

The Fernald Environmental Restoration Management Corporation (FERMCO), in cooperation with the Ohio Environmental Protection Agency and the Department of Health, has been collecting water samples from wells in the area as part of our continuing environmental monitoring program. These samples are analyzed for uranium concentration in order to assess any possible effects of Fernald Site operations on groundwater quality.

In response to your request, this letter provides the historical minimum, maximum, and average of uranium concentrations in water samples from the well at [REDACTED]. The data are attached and expressed in parts of uranium per billion parts of water (ppb), and picocuries of uranium per liter of water (pCi/L). Picocuries per liter are the units used to express groundwater data in the Site Environmental Report.

A groundwater study conducted by an independent consultant for the Fernald Site determined that background concentrations of naturally-occurring uranium in the groundwater for this area range from less than 0.1 to 2.7 ppb (0.07 to 2.0 pCi/L). Also, a U. S. Geological Survey study (J.D. Hem, 1970, Geological Survey Water-Supply Paper 1473) reported a range of uranium concentration of less than 0.1 ppb to 10 ppb (0.07 to 6.8 pCi/L) in most natural water within the United States.

The Environmental Protection Agency (EPA) has proposed an interim drinking water standard for total uranium of 20 ppb (13.5 pCi/L). The uranium concentrations in samples collected from this well between 1984 and 1993 are below this limit and within the range expected for naturally-occurring background uranium concentrations in this part of the country.

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Environmental Monitoring no longer collects drinking water samples from this location. At the request of the property owner, sampling was terminated in August 1993. If you have any questions regarding the result reported to you in this letter or on any aspect of our environmental program, please contact me by phone (648-3137) at your convenience.

Sincerely,



Walter J. Quaid
Acting Associate Director
Safety, Operations, & Technical Support

Enclosure: As stated

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ATTACHMENT
(Historical Data for [REDACTED])
Total Uranium

	MIN (ppb)	MAX (ppb)	AVG (ppb)	MIN (pCi/L)	MAX (pCi/L)	AVG (pCi/L)
1984	1.1	1.7	1.4	0.74	1.1	0.95
1985	1.1	1.7	1.4	0.74	1.1	0.95
1986	1.2	1.8	1.4	0.81	1.2	0.95
1987	1.0	2.1	1.7	0.68	1.4	1.1
1988	1.4	1.9	1.7	0.95	1.3	1.1
1989	1.5	2.0	1.7	1.0	1.4	1.1
1990	1.3	1.7	1.5	0.88	1.1	1.0
1991	0.9	2.0	1.5	0.61	1.4	1.0
1992	1.6	2.1	1.8	1.1	1.4	1.2
1993	1.4	1.6	1.5	0.95	1.1	1.0