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**RESULTS OF THE WATER SAMPLING OF WELL**

**02/22/91**

**DOE-695-91  
DOE-FSO/CITIZEN  
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LETTER**



[REDACTED]  
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**Department of Energy**  
**FMPC Site Office**  
 P.O. Box 398705  
 Cincinnati, Ohio 45239-8705  
 (513) 738-6319

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 C: ERG Project File  
 AR File

FEB 22 1991  
 DOE-695-91

**Mr. William Knollman**  
 [REDACTED]

Dear Mr. Knollman:

The purpose of this letter is to provide you with the results of the water sampling of your well conducted by Westinghouse Materials Company of Ohio (WMCO), contractor to U.S. Department of Energy for the Feed Materials Production Center (FMPC). Your well at [REDACTED] was sampled on January 15, 23, 29, 1991 as a follow-up to the monthly sampling conducted in December. The results of this sampling are expressed below in parts of uranium per billion parts of water (ppb), followed by milligrams of uranium per liter of water (mg/L) and finally by picocuries of uranium per liter of water (pCi/L). Picocuries per liter are the units used to express groundwater data in the Annual Environmental Report.

<u>Sampling Date</u>	<u>Uranium Concentration</u>		
	<u>(ppb)</u>	<u>(mg/L)</u>	<u>(pCi/L)</u>
January 15, 1991	1.8	0.0018	1.21
January 23, 1991	1.9	0.0019	1.28
January 29, 1991	2.0	0.0020	1.35

For comparison, a groundwater study conducted by an independent consultant for the FMPC determined that background concentrations of naturally occurring uranium in the groundwater for this area range from less than 0.1 ppb to 2.7 ppb (0.0001 to 0.0027 mg/L or 0.068 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 (0.0001 to 0.010 mg/L or 0.068 to 6.8 pCi/L) in most natural water within the United States.

W. Knollman

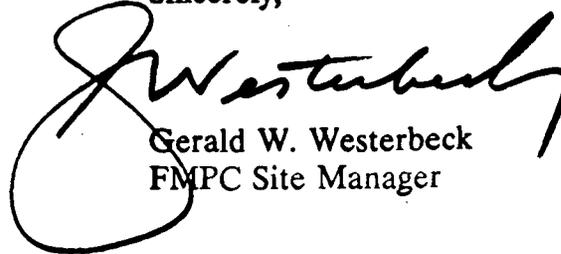
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The results from this sampling indicate an upward trend in the uranium concentration in your well. However, the uranium concentration in the samples from this round is within the range expected for naturally occurring background uranium in this area.

Environmental Monitoring will continue sampling your well weekly until the results stabilize or show a downward trend.

If you have any questions regarding the results reported to you in this letter or of any aspect of our environmental program, please contact Wally Quaider by phone (738-6160) at your convenience.

Sincerely,



Gerald W. Westerbeck  
FMPC Site Manager

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