

7144

G-000-1012.146

**RESULTS OF WELL SAMPLING (2 LETTERS)**

08/30/95

DOE-1287-95  
DOE-FN       CITIZENS  
5  
LETTERS



Department of Energy  
Fernald Environmental Management Project  
P. O. Box 538705  
Cincinnati, Ohio 45253-8705  
(513) 648-3155

6-7144

DOE-1287-95

Mr. William Knollman  
7493 Willey Road  
Hamilton, Ohio 45013

Dear Mr. Knollman,

The purpose of this letter is to provide you with the results of the water sampling of your well conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your well at 7493 Willey Road was not sampled during the month of July 1995 due to construction at the house. However, samples were collected from the house well located at 7312 Willey Road and from the house at 7513 Willey Road during the month of July. Environmental Monitoring will continue to collect samples from these wells and provide you with the results on a monthly basis.

The Environmental Protection Agency (EPA) has proposed an interim drinking water standard for total uranium of 20 ppb (13.5 pCi/L). The uranium concentration in the samples from 7312 Willey Road are below this limit. However, the result from the sampling of the well at 7513 Willey Road indicate levels of uranium above background and the interim EPA standard. The results from the water filtered through the ion exchange system (first and second columns) indicate that the uranium is being removed and that the uranium concentrations in the treated water are within the background range for this area (<0.1 ppb to 2.7 ppb).

If you have any questions regarding the results reported to you in this letter or any aspect of our environmental program, please contact me by phone (648-3137) at your convenience.

Sincerely,

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

Enclosure: as stated

**ENCLOSURE I  
WELL WATER RESULTS**

| SAMPLING<br>LOCATION/ DATE   | UNTREATED<br>WELL WATER |         | 1 <sup>st</sup> TREATED<br>COLUMN |         | 2 <sup>nd</sup> TREATED<br>COLUMN |         |
|------------------------------|-------------------------|---------|-----------------------------------|---------|-----------------------------------|---------|
|                              | (ppb)                   | (pCi/L) | (ppb)                             | (pCi/L) | (ppb)                             | (pCi/L) |
| 7493 Willey<br>July 19, 1995 | NS                      | NS      | NS                                | NS      | NS                                | NS      |
| 7513 Willey<br>July 19, 1995 | 91.0                    | 61.5    | 2.0                               | 1.4     | <0.1                              | <0.1    |
| 7312 Willey<br>July 26, 1995 | 2.3                     | 1.6     | NA                                | NA      | NA                                | NA      |

NOTE: NS - not sampled.

NA - not applicable.



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Fernald Environmental Management Project  
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DOE-1287-95

Mr. Melvin Knollman  
7513 Willey Road  
Hamilton, Ohio 45013

Dear Mr. Knollman,

The purpose of this letter is to provide you with the results of the water sampling of your well conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your well at 7513 Willey Road has been sampled during the month of July. Also, samples were collected from the house well located at 7312 Willey Road and from the house at 7493 Willey Road during the month of July. An ion exchange system was installed in your home on June 18, 1992. This system is designed to remove the uranium from your well water by filtering the water through two columns.

Samples have been collected from three different sample points to determine the effectiveness of the system: untreated well water; treated water from the first column; and treated water from the second column. The results are expressed in Enclosure I in parts of uranium per billion parts of water (ppb), and picocuries of uranium per liter of water (pCi/L). Environmental Monitoring will continue to collect samples from these three points and provide you with the results on a monthly basis.

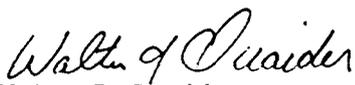
The Environmental Protection Agency (EPA) has proposed an interim drinking water standard for total uranium of 20 ppb (13.5 pCi/L). The uranium concentration in the samples from 7312 Willey Road are below this limit. However, the results from the sampling of the wells at 7513 and 7493 Willey Road indicate levels of uranium above background and the interim EPA standard. The results from the water filtered through the ion exchange system (first and second columns) indicate that the uranium is being removed and that the uranium concentrations in the treated water are within the background range for this area (<0.1 ppb to 2.7 ppb).

M. Knollman

-2-

If you have any questions regarding the results reported to you in this letter or any aspect of our environmental program, please contact me by phone (648-3137) at your convenience.

Sincerely,

  
Walter J. Quaider  
Deputy Associate Director  
Office of Safety & Assessment

Enclosure: as stated

M. Knollman

**ENCLOSURE I  
WELL WATER RESULTS**

| SAMPLING<br>LOCATION/ DATE   | UNTREATED<br>WELL WATER |         | 1 <sup>st</sup> TREATED<br>COLUMN |         | 2 <sup>nd</sup> TREATED<br>COLUMN |         |
|------------------------------|-------------------------|---------|-----------------------------------|---------|-----------------------------------|---------|
|                              | (ppb)                   | (pCi/L) | (ppb)                             | (pCi/L) | (ppb)                             | (pCi/L) |
| 7493 Willey<br>July 19, 1995 | NS                      | NS      | NS                                | NS      | NS                                | NS      |
| 7513 Willey<br>July 19, 1995 | 91.0                    | 61.5    | 2.0                               | 1.4     | <0.1                              | <0.1    |
| 7312 Willey<br>July 26, 1995 | 2.3                     | 1.6     | NA                                | NA      | NA                                | NA      |

NOTE: NS - not sampled.  
NA - not applicable.