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**RESULTS OF THE WATER SAMPLING OF WELL**

**02/02/94**

**DOE-0755-94  
DOE-FN/CITIZEN  
3  
LETTER**



**Department of Energy**  
**Fernald Environmental Management Project**  
P.O. Box 398705  
Cincinnati, Ohio 45239-8705  
(513) 738-6357

FEB 02 1994  
DOE-0755-94

Welch Sand & Gravel  
ATTN: James Welch  
8953 E. Miami River Road  
Cincinnati, Ohio 45247

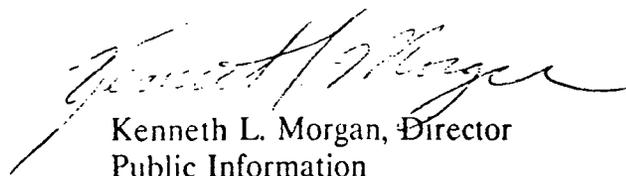
Dear Mr. Welch:

The purpose of this letter is to provide you with the results of the water sampling of your wells conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your well and surface water at 11489 Hamilton-Cleves Road were sampled for total metals as part of our continuing Environmental Monitoring Program in July 1992 and 1993. The attachments provide results from the 1992 and 1993 total metal analyses, expressed in milligrams of a particular element per liter of water (mg/L). The established standards are also provided, where applicable.

The data do not indicate any unusual results. All of the results are within the recommended primary drinking water guidelines established by the Department of Energy (DOE) and the U.S. Environmental Protection Agency (USEPA). Manganese exceeds the secondary drinking water standards. However, this is not uncommon as secondary standards were established by the EPA to address aesthetic qualities of drinking water and do not impose any health risks. Environmental Monitoring will continue to provide you with the results from our monthly well water collection conducted on your well as part of the routine monitoring program.

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

Sincerely,



Kenneth L. Morgan, Director  
Public Information

FN:Quaider  
Enclosure: As stated

J. Welch

ATTACHMENT  
Gravel Pit Surface Water  
11489 Hamilton-Cleves Road

TYPE OF METAL	CONCENTRATION		STANDARD
	(mg/L) <u>1992</u>	(mg/L) <u>1993</u>	
Arsenic	<0.010	<0.010	0.050 <sup>a</sup>
Barium	<0.200	<0.200	2.000 <sup>b</sup>
Cadmium	<0.005	<0.005	0.005 <sup>b</sup>
Calcium	61.000	67.780	N/A <sup>c</sup>
Chromium	<0.010	<0.010	0.100 <sup>b</sup>
Copper	<0.025	<0.025	1.300 <sup>c</sup>
Iron	<0.100	0.251	0.300 <sup>d</sup>
Lead	0.003	<0.003	0.015 <sup>c</sup>
Magnesium	27.000	25.340	N/A <sup>c</sup>
Manganese	<0.015	0.030	0.050 <sup>d</sup>
Nickel	<0.040	<0.040	N/A <sup>c</sup>
Potassium	<5.000	<5.000	N/A <sup>c</sup>
Selenium	<0.005	<0.005	0.050 <sup>b</sup>
Silver	<0.010	<0.010	0.100 <sup>d</sup>
Sodium	8.000	9.089	N/A <sup>c</sup>
Zinc	<0.020	<0.020	5.000 <sup>d</sup>

- a. Code of Federal Regulations, Title 40, Part 141, National Primary Drinking Water Regulations - Subpart B - Maximum Contamination Levels, July 1, 1992.
- b. Code of Federal Regulations, Title 40, Part 141, National Primary Drinking Water Regulations - Subpart G - National Revised Primary Drinking Water Regulations: Maximum Contamination Levels, July 1, 1992.
- c. Code of Federal Regulations, Title 40, Part 141, National Primary Drinking Water Regulations - Subpart I - Control of Lead and Copper, July 1, 1992.
- d. Code of Federal Regulations, Title 40, Part 143, National Secondary Drinking Water Regulations, July 1, 1992. These regulations establish guidelines for the aesthetic qualities relating to the public acceptance of drinking water.
- e. N/A: Not Applicable; No DOE or USEPA standards have been established for calcium, magnesium, nickel, potassium, and sodium.

<: The "less than" symbol (<) indicates that the laboratory was unable to detect this particular metal in your water. The number following this symbol represents the lowest concentration the laboratory is able to detect; i.e., <0.04 means the laboratory can only detect as low as 0.04 mg/L and your water sample may contain 0.0 to 0.04 mg/L of that metal.

J. Welch

ATTACHMENT  
Well Water  
11489 Hamilton-Cleves Road

TYPE OF METAL	CONCENTRATION		STANDARD
	(mg/L) <u>1992</u>	(mg/L) <u>1993</u>	
Arsenic	NS	<0.010	0.050 <sup>a</sup>
Barium	NS	<0.200	2.000 <sup>b</sup>
Cadmium	NS	<0.005	0.005 <sup>b</sup>
Calcium	NS	139.300	N/A <sup>c</sup>
Chromium	NS	<0.010	0.100 <sup>b</sup>
Copper	NS	<0.025	1.300 <sup>c</sup>
Iron	NS	0.294	0.300 <sup>d</sup>
Lead	NS	<0.003	0.015 <sup>c</sup>
Magnesium	NS	36.450	N/A <sup>c</sup>
Manganese	NS	220.5	0.050 <sup>d</sup>
Nickel	NS	<0.040	N/A <sup>c</sup>
Potassium	NS	<5.000	N/A <sup>c</sup>
Selenium	NS	<0.005	0.050 <sup>b</sup>
Silver	NS	<0.010	0.100 <sup>d</sup>
Sodium	NS	8.277	N/A <sup>c</sup>
Zinc	NS	<0.020	5.000 <sup>d</sup>

- a. Code of Federal Regulations, Title 40, Part 141, National Primary Drinking Water Regulations - Subpart B - Maximum Contamination Levels, July 1, 1992.
- b. Code of Federal Regulations, Title 40, Part 141, National Primary Drinking Water Regulations - Subpart G - National Revised Primary Drinking Water Regulations: Maximum Contamination Levels, July 1, 1992.
- c. Code of Federal Regulations, Title 40, Part 141, National Primary Drinking Water Regulations - Subpart I - Control of Lead and Copper, July 1, 1992.
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'NS' indicates no sample collected.