

4261

RESULTS OF WATER SAMPLING OF WELL

**DOE-FN/CITIZENS
DOE-1168 TO 1175-93
8
LETTER**



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

March 3, 1993

DOE-1168-93

Mr. Jackie M. Tidwell
[Redacted]

Dear Mr. Tidwell:

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 [Redacted] was sampled on February 4, 1993, in response to your request. The result of this sampling is expressed below 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 Annual Environmental Report.

<u>Sampling Date</u>	<u>Uranium Concentration</u>	
	<u>(ppb)</u>	<u>(pCi/L)</u>
February 4, 1993	0.5	0.3

For comparison, 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 ppb to 2.7 ppb (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 (0.068 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 concentration in your sample is well below this limit and is within the range expected for naturally-occurring background uranium in this area.

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J. Tidwell

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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 (738-6160) at your convenience.

Sincerely,


Wally Quaider
Acting Assistant Manager
Technical Support

FN:Quaider



Department of Energy
Fernald Environmental Management Project
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March 3, 1993

DOE-1169-93

Mr. Earl Simmonds
[Redacted]

Dear Mr. Simmonds:

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 [Redacted] was sampled on January 26, 1993, in response to your request. The result of this sampling is expressed below 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 Annual Environmental Report.

<u>Sampling Date</u>	<u>Uranium Concentration</u>	
	<u>(ppb)</u>	<u>(pCi/L)</u>
January 26, 1993	0.7	0.5

For comparison, 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 ppb to 2.7 ppb (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 (0.068 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 concentration in your sample is well below this limit and is within the range expected for naturally-occurring background uranium in this area.

E. Simmonds

-2-

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 (738-6160) at your convenience.

Sincerely,

Wally Quaider
Wally Quaider
Acting Assistant Manager
Technical Support

FN:Quaider



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March 3, 1993

DOE-1170-93

Welch Sand and Gravel, Inc.
 Attn: Mr. Jim Welch
 10217 Columbia St.
 Harrison, OH 45030

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 wells at 8953 E. Miami River Road were sampled on January 26, 1993, in response to your request. The results of this sampling are expressed below 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 Annual Environmental Report.

<u>Sampling Date</u>	<u>Uranium Concentration</u>	
	<u>(ppb)</u>	<u>(pCi/L)</u>
Office well January 26, 1993	0.6	0.4
Shop well January 26, 1993	1.0	0.7

For comparison, 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 ppb to 2.7 ppb (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 (0.068 to 6.8 pCi/L) in most natural water within the United States.

J. Welch

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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 your samples are well below this limit and are within the range expected for naturally-occurring background uranium in this area.

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

Sincerely,


Wally Quaid
Acting Assistant Manager
Technical Support

FN:Quaid



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March 3, 1993

DOE-1171-93



Ms. Ann Carrington
[Redacted]

Dear Ms. Carrington:

The purpose of this letter is to provide you with the results of the water sampling of your cistern conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your cistern at [Redacted] was sampled on January 29, 1993, in response to your request. The result of this sampling is expressed below 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 Annual Environmental Report.

<u>Sampling Date</u>	<u>Uranium Concentration</u>	
	<u>(ppb)</u>	<u>(pCi/L)</u>
January 29, 1993	0.1	0.1

For comparison, 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 ppb to 2.7 ppb (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 (0.068 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 concentration in your sample is well below this limit and is within the range expected for naturally-occurring background uranium in this area.

A. Carrington

-2-

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 (738-6160) at your convenience.

Sincerely,



Wally Quaider
Acting Assistant Manager
Technical Support

FN:Quaider



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March 3, 1993
 DOE-1172-93

Mr. John Zimmerman
 [REDACTED]

Dear Mr. Zimmerman:

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 [REDACTED] was sampled on January 11, 1993, in response to your request. The result of this sampling is expressed below 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 Annual Environmental Report.

<u>Sampling Date</u>	<u>Uranium Concentration</u>	
	<u>(ppb)</u>	<u>(pCi/L)</u>
January 11, 1993	0.7	0.5

For comparison, 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 ppb to 2.7 ppb (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 (0.068 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 concentration in your sample is well below this limit and is within the range expected for naturally-occurring background uranium in this area.

J. Zimmerman

-2-

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 (738-6160) at your convenience.

Sincerely,

Wally Quaider
Wally Quaider
Acting Assistant Manager
Technical Support

FN:Quaider



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March 3, 1993

DOE-1173-93

Mr. Donald L. Zimmerman
 [REDACTED]

Dear Mr. Zimmerman:

The purpose of this letter is to provide you with the results of the water sampling of your spring conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your spring at [REDACTED] was sampled on December 17, 1992, in response to your request. The result of this sampling is expressed below 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 Annual Environmental Report.

<u>Sampling Date</u>	<u>Uranium Concentration</u>	
	<u>(ppb)</u>	<u>(pCi/L)</u>
December 17, 1992	1.0	0.7

For comparison, 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 ppb to 2.7 ppb (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 (0.068 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 concentration in your sample is well below this limit and is within the range expected for naturally-occurring background uranium in this area.

D. Zimmerman

-2-

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 (738-6160) at your convenience.

Sincerely,


Wally Quaider
Acting Assistant Manager
Technical Support

FN:Quaider



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DOE-1174-93

Mr. Doug McComas
 [REDACTED]

Dear Mr. McComas:

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 [REDACTED] was sampled on December 14, 1992, in response to your request. The result of this sampling is expressed below 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 Annual Environmental Report.

<u>Sampling Date</u>	<u>Uranium Concentration</u>	
	<u>(ppb)</u>	<u>(pCi/L)</u>
December 14, 1992	0.3	0.2

For comparison, 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 ppb to 2.7 ppb (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 (0.068 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 concentration in your sample is well below this limit and is within the range expected for naturally-occurring background uranium in this area.

4261

D. McComas

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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 (738-6160) at your convenience.

Sincerely,



Wally Quaid
Acting Assistant Manager
Technical Support

FN:Quaid



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4261

March 3, 1993

DOE-1175-93

Mr. Marvin Johnson
 [Redacted]

Dear Mr. Johnson:

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 [Redacted] was sampled on December 4, 1992, in response to your request. The result of this sampling is expressed below 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 Annual Environmental Report.

<u>Sampling Date</u>	<u>Uranium Concentration</u>	
	<u>(ppb)</u>	<u>(pCi/L)</u>
December 4, 1992	0.2	0.1

For comparison, 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 ppb to 2.7 ppb (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 (0.068 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 concentration in your sample is well below this limit and is within the range expected for naturally-occurring background uranium in this area.

M. Johnson

-2-

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 (738-6160) at your convenience.

Sincerely,

Wally Quaid
Wally Quaid
Acting Assistant Manager
Technical Support

FN:Quaid