

7438

G-000-1012.163

**FERNALD ENVIRONMENTAL MONITORING OHIO EPA RESULTS FROM  
RESIDENTIAL WELL SAMPLING (5 LETTERS TO CITIZENS)**

01/12/96

**OEPA  
11  
LETTERS**

**CITIZENS**



State of Ohio Environmental Protection Agency

Southwest District Office

401 East Fifth Street  
Dayton, Ohio 45402-2911  
(513) 285-6357  
FAX (513) 285-6249

7438

J-0869  
JAN 12 1996

George V. Voinovich  
Governor

January 12, 1996

RE: FERNALD  
ENVIRONMENTAL MONITORING  
OHIO EPA RESULTS FROM  
RESIDENTIAL WELL SAMPLING

Mr. Ronald Poston  
Delta Steel Corporation  
10860 Paddys Run  
Harrison, Ohio 45030

Dear Mr. Poston:

This letter is to provide you with the analytical results of the water samples collected from your well by Ohio EPA's Office of Federal Facilities Oversight staff, Southwest District Office, on September 27, 1995. The split sampling efforts between Ohio EPA and the Fernald Environmental Restoration Management Corporation (FERMCO) are a part of an Agreement in Principle (AIP). The AIP is an agreement between the Department of Energy (DOE) and the State of Ohio to provide independent oversight and conduct environmental monitoring.

The analytical results are expressed in concentrations of micrograms per liter (ug/l). These units are equivalent to parts per billion (ppb). The samples collected from your well were analyzed for total uranium. The U.S. Environmental Protection Agency (USEPA) has set drinking water standards, or maximum contaminant levels (MCL), for some metals (see attached definitions). However for total uranium, USEPA has established a proposed enforceable standard of 20 ug/l or 20 ppb that will come into effect in the future. The analytical result the laboratory reported on your well sample for total uranium is 170.0 ug/l on December 8, 1995. Although this value is over the proposed MCL for total uranium (20 ppb), historically, it is within the range of results FERMCO's laboratory has detected through their monthly sampling events.

The purpose of split sampling is to check the quality of the laboratories' analyses by comparing both parties' sample results. This process ensures that the results reported are accurate. Once FERMCO receives their results, Ohio EPA will make the comparison and you can do the same. Also, Ohio EPA will continue to sample your well monthly and continue to compare both labs' analytical results.

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## ENVIRONMENTAL TERMS - DEFINITIONS

Maximum Contaminant Level (MCL): The maximum permissible level of a contaminant in water delivered to any user of a public water system. MCLs are enforceable standards.

Maximum Contaminant Level Goals (MCLGs): A non-enforceable concentration of a drinking water contaminant that is protective of adverse human health effects and allows an adequate margin of safety.

Action Level (AL): A level of a chemical that requires installation of treatment techniques for lowering the contaminant level.

Detection Limit (DL): The detection limit is the lowest level of a chemical that can be distinguished from the normal "noise" of an analytical instrument or method.

Milligrams per Liter (mg/l): A unit used to measure analytical results in concentrations which are equivalent to parts per million (ppm).

Micrograms per Liter (ug/l): A unit used to measure analytical results in concentrations which are equivalent to parts per billion (ppb).

PicoCuries per Liter (pC/l): A unit of measurement for radioactivity. A picocurie is a trillionth of a curie, and represents about 2.2 radioactive particle disintegrations per minute.

7438

THERMO NUTECH  
ROSS ANALYTICAL SERVICES

9509204-03

DS-15

DATA SHEET

SDG/Version 9509204 Client/Case no Ross Analytical FERNALD  
 Contact Chandra Bales Contract \_\_\_\_\_  
 Lab sample id 9509204-03 Client sample id DS-15  
 Dept sample id \_\_\_\_\_ Location/Matrix \_\_\_\_\_ WATER  
 Received 09/28/95 Collected/Volume/Basis 09/27/95 1051 ML  
 % moisture \_\_\_\_\_ Custody/SAS no/Level \_\_\_\_\_

ANALYTE	CAS NO	RESULT pCi/l	2σ ERR (TOTAL)	MDA pCi/l	RDL pCi/l	QUALI- FIERS	TEST
Total Uranium (ug/l)		170	5.7	0.90	0.10		TU

000003

Lab id ABQ  
 Protocol -  
 Version 1  
 Form DVD-DS  
 Version 3.08  
 Report date 11/30/95



State of Ohio Environmental Protection Agency

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George V. Voinovich  
Governor

January 12, 1995

RE: FERNALD  
ENVIRONMENTAL MONITORING  
OHIO EPA RESULTS FROM  
RESIDENTIAL WELL SAMPLING

Ray Evers Welding Company  
Attention: Manager  
4849 Blue Rock Road  
Cincinnati, Ohio 45239

Dear Manager:

This letter is to provide you with the analytical results of the water samples collected from your well by Ohio EPA's Office of Federal Facilities Oversight staff, Southwest District Office, on September 27, 1995. The split sampling efforts between Ohio EPA and the Fernald Environmental Restoration Management Corporation (FERMCO) are a part of an Agreement in Principle (AIP). The AIP is an agreement between the Department of Energy (DOE) and the State of Ohio to provide independent oversight and conduct environmental monitoring.

Analytical results are expressed in concentrations of micrograms per liter (ug/l). These units are equivalent to parts per billion (ppb). The samples collected from your well were analyzed for total uranium. The U.S. Environmental Protection Agency (USEPA) has set drinking water standards, or maximum contaminant levels (MCL), for some metals (see attached definitions). However, for total uranium USEPA has established a proposed enforceable standard of 20 ug/l or 20 ppb. All parameters tested from your well water samples were below the maximum contaminant levels (see attached results).

The purpose of split sampling is to check the quality of the laboratories' analyses by comparing both parties' sample results. This process ensures that the results reported are accurate. Once FERMCO receives their results, Ohio EPA will make the comparison and you can do the same.

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THERMO NUTECH  
ROSS ANALYTICAL SERVICES

7438

9509204-02

RE-19

DATA SHEET

SDG/Version <u>9509204</u>	Client/Case no <u>Ross Analytical</u>	<u>FERNALD</u>
Contact <u>Chandra Bales</u>	Contract _____	
Lab sample id <u>9509204-02</u>	Client sample id <u>RE-19</u>	
Dept sample id _____	Location/Matrix _____	<u>WATER</u>
Received <u>09/28/95</u>	Collected/Volume/Basis <u>09/27/95</u>	<u>1044 ML</u>
% moisture _____	Custody/SAS no/Level _____	

ANALYTE	CAS NO	RESULT pCi/l	2σ ERR (TOTAL)	MDA pCi/l	RDL pCi/l	QUALI- FIERS	TEST
Total Uranium (ug/l)		0.007	0.001	0.030	0.10	U	TU

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Lab id <u>ABQ</u>
Protocol <u>-</u>
Version <u>1</u>
Form <u>DVD-DS</u>
Version <u>3.08</u>
Report date <u>11/30/95</u>



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George V. Voinovich  
Governor

January 12, 1995

RE: FERNALD  
ENVIRONMENTAL MONITORING  
OHIO EPA RESULTS FROM  
RESIDENTIAL WELL SAMPLING

Norman Knollman  
Knollman Farms, Inc.  
7218 Willey Road  
Hamilton, Ohio 45013

Dear Mr. Knollman:

This letter is to provide you with the analytical results of the water samples from your well collected by Ohio EPA's Office of Federal Facilities Oversight staff, Southwest District Office, September 27, 1995. The split sampling efforts between Ohio EPA and the Fernald Environmental Restoration Management Corporation (FERMCO) are a part of an Agreement in Principle (AIP). The AIP is an agreement between the Department of Energy (DOE) and the State of Ohio to provide independent oversight and conduct environmental monitoring.

Analytical results are expressed in concentrations of micrograms per liter (ug/l) on the water analyses. These units are equivalent to parts per billion (ppb). The samples collected from your well were analyzed for total uranium. The U.S. Environmental Protection Agency (USEPA) has set drinking water standards, or maximum contaminant levels (MCL), for some metals (see attached definitions). However, for total uranium USEPA has established a proposed enforceable standard of 20 ug/l or 20 ppb. All parameters tested from your well water samples were below the maximum contaminant levels (see attached results).

The purpose of split sampling is to check the quality of the laboratories' analyses by comparing both parties' sample results. This process ensures that the results reported are accurate. Once FERMCO receives their results, Ohio EPA will make the comparison and you can do the same.

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THERMO NUTECH  
ROSS ANALYTICAL SERVICES

7438

9509204-01

BOK-14

DATA SHEET

SDG/Version <u>9509204</u>	Client/Case no <u>Ross Analytical</u>	<u>FERNALD</u>
Contact <u>Chandra Bales</u>	Contract _____	
Lab sample id <u>9509204-01</u>	Client sample id <u>BOK-14</u>	
Dept sample id _____	Location/Matrix _____	<u>WATER</u>
Received <u>09/28/95</u>	Collected/Volume/Basis <u>09/27/95</u>	<u>1052 ML</u>
% moisture _____	Custody/SAS no/Level _____	

ANALYTE	CAS NO	RESULT pCi/l	2σ ERR (TOTAL)	MDA pCi/l	RDL pCi/l	QUALI- FIERS	TEST
Total Uranium (ug/l)		2.4	0.071	0.030	0.10		TU

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DATA SHEETS

Page 1

SUMMARY DATA SECTION

Page 12

Lab id <u>ABQ</u>
Protocol <u>-</u>
Version <u>1</u>
Form <u>DVD-DS</u>
Version <u>3.08</u>
Report date <u>11/30/95</u>



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George V. Voinovich  
Governor

January 12, 1995

RE: FERNALD  
ENVIRONMENTAL MONITORING  
OHIO EPA RESULTS FROM  
RESIDENTIAL WELL SAMPLING

Mr. A. J. Nieman



Dear Mr. Nieman:

This letter is to provide you with the analytical results of the water samples collected from your well by Ohio EPA's Office of Federal Facilities Oversight staff, Southwest District Office, on September 27, 1995. The split sampling efforts between Ohio EPA and the Fernald Environmental Restoration Management Corporation (FERMCO) are a part of an Agreement in Principle (AIP). The AIP is an agreement between the Department of Energy (DOE) and the State of Ohio to provide independent oversight and conduct environmental monitoring.

Analytical results are expressed in concentrations of micrograms per liter (ug/l). These units are equivalent to parts per billion (ppb). The samples collected from your well were analyzed for total uranium. The U.S. Environmental Protection Agency (USEPA) has set drinking water standards, or maximum contaminant levels (MCL), for some metals (see attached definitions). However, for total uranium USEPA has established a proposed enforceable standard of 20 ug/l or 20 ppb. All parameters tested from your well water samples were below the maximum contaminant levels (see attached results).

The purpose of split sampling is to check the quality of the laboratories' analyses by comparing both parties' sample results. This process ensures that the results reported are accurate. Once FERMCO receives their results, Ohio EPA will make the comparison and you can do the same.

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THERMO NUTECH  
ROSS ANALYTICAL SERVICES

7438

9509204-04

NN-04

DATA SHEET

SDG/Version	<u>9509204</u>	Client/Case no	<u>Ross Analytical</u>	<u>FERNALD</u>
Contact	<u>Chandra Bales</u>	Contract	_____	
Lab sample id	<u>9509204-04</u>	Client sample id	<u>NN-04</u>	
Dept sample id	_____	Location/Matrix	<u>WATER</u>	
Received	<u>09/28/95</u>	Collected/Volume/Basis	<u>09/27/95</u>	<u>1065 ML</u>
% moisture	_____	Custody/SAS no/Level	_____	

ANALYTE	CAS NO	RESULT pCi/l	2σ ERR (TOTAL)	MDA pCi/l	RDL pCi/l	QUALI- FIERS	TEST
Total Uranium (ug/l)		1.4	0.053	0.030	0.10		TU

000009

Lab id	<u>ABQ</u>
Protocol	_____
Version	<u>1</u>
Form	<u>DVD-DS</u>
Version	<u>3.08</u>
Report date	<u>11/30/95</u>



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George V. Voinovich  
Governor

January 12, 1995

RE: FERNALD  
ENVIRONMENTAL MONITORING  
OHIO EPA RESULTS FROM  
RESIDENTIAL WELL SAMPLING

Ruetgers Nease, Inc.  
Attention: Manager  
10740 Paddy's Run Rd.  
Harrison OH, 45030

Dear Manager:

This letter is to provide you with the analytical results of the water samples collected from your well by Ohio EPA's Office of Federal Facilities Oversight staff, Southwest District Office, on September 27, 1995. The split sampling efforts between Ohio EPA and the Fernald Environmental Restoration Management Corporation (FERMCO) are a part of an Agreement in Principle (AIP). The AIP is an agreement between the Department of Energy (DOE) and the State of Ohio to provide independent oversight and conduct environmental monitoring.

Analytical results are expressed in concentrations of micrograms per liter (ug/l). These units are equivalent to parts per billion (ppb). The samples collected from your well were analyzed for total uranium. The U.S. Environmental Protection Agency (USEPA) has set drinking water standards, or maximum contaminant levels (MCL), for some metals (see attached definitions). However, for total uranium USEPA has established a proposed enforceable standard of 20 ug/l or 20 ppb. All parameters tested from your well water samples were below the maximum contaminant levels (see attached results).

The purpose of split sampling is to check the quality of the laboratories' analyses by comparing both parties' sample results. This process ensures that the results reported are accurate. Once FERMCO receives their results, Ohio EPA will make the comparison and you can do the same.

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THERMO NUTECH  
ROSS ANALYTICAL SERVICES

7438

9509204-05

RN-32

DATA SHEET

SDG/Version <u>9509204</u>	Client/Case no <u>Ross Analytical</u>	<u>FERNALD</u>
Contact <u>Chandra Bales</u>	Contract _____	
Lab sample id <u>9509204-05</u>	Client sample id <u>RN-32</u>	
Dept sample id _____	Location/Matrix _____	<u>WATER</u>
Received <u>09/28/95</u>	Collected/Volume/Basis <u>09/27/95</u>	<u>1040 ML</u>
% moisture _____	Custody/SAS no/Level _____	

ANALYTE	CAS NO	RESULT pCi/l	2σ ERR (TOTAL)	MDA pCi/l	RDL pCi/l	QUALI- FIERS	TEST
Total Uranium (ug/l)		0.034	0.003	0.030	0.10	J	TU

000011

Lab id	<u>ABQ</u>
Protocol	_____
Version	<u>1</u>
Form	<u>DVD-DS</u>
Version	<u>3.08</u>
Report date	<u>11/30/95</u>