

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

RAJ

DATE: APR 25 1985

SUBJECT: Groundwater Sample Analyses for EPA Region 5

FROM: *Sheldon Meyers*
Sheldon Meyers, Acting Director
Office of Radiation Programs (ANR-458)

TO: Steve Rothblatt, Chief
Air and Radiation Branch, Region 5

The results of the analyses of the ten groundwater samples requested in your memorandum of February 8, 1985 are attached. These samples were collected in the area of the Twin Cities Army Ammunition Plant from February 13 through March 7, 1985.

Our standard chain-of-custody procedures were followed during the analyses of these samples. You will note that only sample 51275 (S18U3) had detectable activity (2.4 pCi/l-⁶⁰Co.)

If you have any questions concerning the results or analysis of these samples, please contact Mr. Charles Porter or Mr. Charles Phillips at FTS 534-7615.

Attachment

cc: Valdas V. Adamkus, Regional Administrator, Region 5 (w/attachment)
David Kee, Region 5 (w/attachment)
Pete Tedeschi, Region 5 (w/attachment)
J. William Gunter (ANR-461) (w/o attachment)
Charles R. Porter, EERF (w/o attachment)
Carol Jordan (ANR-458)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: FEB 8 1985

SUBJECT: Analysis of Groundwater Samples by the Eastern Environmental
Radiation Facility

FROM: Steve Rothblatt, Chief
Air and Radiation Branch

*Sheldon Meyers
for S.R.*

TO: Sheldon Meyers, Director
Office of Radiation Programs

Assistance of the Eastern Environmental Radiation Facility is requested for analysis of groundwater samples to be taken near the Twin Cities Army Ammunition Plant located in New Brighton, Minnesota. Cesium-137 has been detected in sewer sludge on the plant and Superfund staff are concerned that radionuclides may be present in the groundwater. We expect about 5 samples will need at least an initial gamma screening. Additional analyses may be required based upon the screening. Charles Porter, EERF, has been contacted and has expressed a willingness to do the analyses. Your assistance on this matter will be appreciated.

Received in Radiation Office
Environmental Protection Agency
Date FEB 12 1985

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE FEB 19 1985

SUBJECT Request for Analysis of Groundwater Samples

RECEIVED

FROM

for RJ Guimond
Sheldon Meyers, Acting Director
Office of Radiation Programs (ANR-458)

FEB 25 1985

TO

Steve Rothblatt, Chief
Air and Radiation Branch, Region 5

EERF
Montgomery, Alabama

This is in response to your memorandum dated, February 8, 1985, requesting that the Eastern Environmental Radiation Facility (EERF) analyze groundwater samples from the area of the Twin Cities Army Ammunition Plant. We will be happy to assist you.

Contact Charles Porter directly to arrange for the delivery and details for the initial gamma screening and any additional analyses that may be required.

cc: ✓ Charles R. Porter, EERF
David Kee, Region 5
Pete Tedeschi, Region 5



Minnesota Pollution Control Agency
 Solid Hazardous Waste Division
 1935 West County Road B2
 Roseville, Minnesota 55113
 (612) 296-7373

S 06596

CHAIN OF CUSTODY RECORD

Project Name			Name of Sampler									
Field Number	Date	Time	Sample Type(s)							Sample Location	Analyses Requested	Comments on Samples
			monitoring well	existing well	surface water	wastewater	waste	other				
Alden Hills / Alden Hills			DANIEL R BERG									
51213	2/14/83	1545	X						T.C.A.P. Alden Hills	Gamma Scan 51275	1 - 1 gallon canister	
57913	2/14/83	1030	X						T.C.A.P. Alden Hills	Gamma Scan 51276	1 - 1 gallon canister	
51413	2/14/83	1200	X						T.C.A.P. Alden Hills	Gamma Scan 51277	1 - 1 gallon canister	
52713	2/14/83	1315	X						T.C.A.P. Alden Hills	Gamma Scan 51278	1 - 1 gallon canister	
	2/14/83							X	Field Blank	Gamma Scan 51279	1 - 1 gallon canister	

Remarks on Site: Samples have not been filtered.

Samples Relinquished by	Samples Received by	Comments	Date/Time
<i>Daniel R Berg</i>	<i>Debra Foster</i>		2/22/83

Means of Delivery: *Express Mail*

Seals intact: YES NO N.A.

Original and yellow copies to lab. Pink copy to MPCA. Lab forwards completed yellow copy to MPCA with analytical results.
 PQ-00343-01 (12/83)



Minnesota Pollution Control Agency
 Solid Hazardous Waste Division
 1935 West County Road B2
 Roseville, Minnesota 55113
 (612) 296-7373

S 06616

CHAIN OF CUSTODY RECORD

Project Name							Name of Sampler						
New Brighton / Arden Hills							Daniel R Berg						
Field Number	Date	Time	Sample Type(s)					Sample Location	Analyses Requested	Comments on Samples			
			monitoring well	existing well	surface water	wastewater	waste				other		
	2-20-85	0800						X	Field blank	Gamma Scan	1-1 gallon container		
409556	2-20-85	1530	X						MPCA 6	Gamma Scan	1-1 gallon container		
409557	2-22-85	1400	X						MPCA 1	Gamma scan	1-1 gallon container		
234324	3-5-85	1800	X						Harry Workien	Gamma scan	1-1 gallon container		
234391	3-7-85	1010	X						Stewart Lumber	Gamma scan	1-1 gallon container		

Remarks on Site

Samples were not filtered.

Samples Relinquished by	Samples Received by	Comments	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>		3/14/85
Samples Relinquished by	Samples Received by	Comments	Date/Time
Samples Relinquished by	Samples Received by	Comments	Date/Time
Means of Delivery		Seals intact: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N.A.	
Express Mail			

Original and yellow copies to lab. Pink copy to MPCA. Lab forwards completed yellow copy to MPCA with analytical results.
 PQ-00343-01 (12/83)

SAMPLE ID R588C1275
SAMPLE TYPE WATER
COLLECTION DATE, TIME 2/13/85 0: 0
LOCATION MN:NEW BRIGHTON
OTHER ID'S S18U3

TYPE OF ANALYSIS ***** GAMMA *****
NUCLIDE ACTIVITY 2 SIG ERROR UNITS DATE
CO-60 2.4000E+00 50.00 % PCI/L 2/26/85

SAMPLE ID R: 51276
SAMPLE TYPE WATER
COLLECTION DATE, TIME 2/14/85 0: 0
LOCATION MN:NEW BRIGHTON
OTHER ID'S S79U3

TYPE OF ANALYSIS ***** GAMMA *****
NUCLIDE ACTIVITY 2 SIG ERROR UNITS DATE
ALL 0.0000E-01 0.00 % PCI/L 2/27/85

SAMPLE ID R 451277
SAMPLE TYPE WATER
COLLECTION DATE, TIME 2/14/85 01 0
LOCATION MN:NEW BRIGHTON
OTHER ID'S S1403

TYPE OF ANALYSIS ***** GAMMA *****
NUCLIDE ACTIVITY 2 SIG ERROR UNITS DATE
ALL 0.0000E-01 0.00 % PCI/L 2/28/85

SAMPLE ID RE 31278
SAMPLE TYPE WATER
COLLECTION DATE: TIME 2/14/85 0: 0
LOCATION MN:NEW BRIGHTON
OTHER ID'S S2703

TYPE OF ANALYSIS ***** GAMMA *****
NUCLIDE ACTIVITY 2 SIG ERROR UNITS DATE
ALL 0.0000E-01 0.00 % PCI/L 3/ 1/85

SAMPLE ID RE 51279
SAMPLE TYPE WATER
COLLECTION DATE: TIME 2/19/85 0: 0
LOCATION MN:NEW BRIGHTON
OTHER ID'S

TYPE OF ANALYSIS ***** GAMMA *****
NUCLIDE ACTIVITY 2 SIG ERROR UNITS DATE
ALL 0.0000E-01 0.00 % PCI/L 3/ 4/85

SAMPLE ID RE 32085
SAMPLE TYPE WATER
COLLECTION DATE: TIME 2/20/85 0:0
LOCATION MN:NEW BRIGHTON
OTHER ID'S 409550

TYPE OF ANALYSIS ***** GAMMA *****
NUCLIDE ACTIVITY 2 SIG ERROR UNITS DATE
ALL 0.0000E-01 0.00 % PCI/L 3/27/85

SAMPLE ID R 152084
SAMPLE TYPE WATER
COLLECTION DATE+ TIME 2/20/85 0: 0
LOCATION MN:NEW BRIGHTON
OTHER ID'S

TYPE OF ANALYSIS ***** GAMMA *****
NUCLIDE ACTIVITY 2 SIG ERROR UNITS DATE
ALL 0.0000E-01 0.00 % PCI/L 3/27/85

SAMPLE ID R J52086
SAMPLE TYPE WATER
COLLECTION DATE, TIME 2/22/85 0:0
LOCATION MN:NEW BRIGHTON
OTHER ID'S 409557

TYPE OF ANALYSIS ***** GAMMA *****
NUCLIDE ACTIVITY 2 SIG ERROR UNITS DATE
ALL 0.0000E-01 0.00 % PCI/L 3/27/85

SAMPLE ID R: 52087
SAMPLE TYPE WATER
COLLECTION DATE: TIME 3/ 5/85 0: 0
LOCATION MN:NEW BRIGHTON
OTHER ID'S 234386

TYPE OF ANALYSIS ***** GAMMA *****
NUCLIDE ACTIVITY 2 SIG ERROR UNITS DATE
ALL 0.0000E-01 0.00 % PCI/L 3/27/85

SAMPLE ID R 52088
SAMPLE TYPE WATER
COLLECTION DATE, TIME 3/ 7/85 01 0
LOCATION MN:NEW BRIGHTON
OTHER ID'S 234391

TYPE OF ANALYSIS ***** GAMMA *****
NUCLIDE ACTIVITY 2 SIG ERROR UNITS DATE
ALL 0.0000E-01 0.00 % PCI/L 3/28/85