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Manpower Education
Research and Training
Division

August 17, 1984

Mr. Martin C. Schumacher
NRC, Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Dear Mr. Schumacher:

A limited survey was conducted on July 20, 1984, on property belonging to Mr. Hartley, Bay City, Michigan. This survey consisted of walkover scans using portable Na(Tl) gamma scintillation detectors and ratemeters, and soil sample collection from trenches dug with a backhoe.

Three general areas of contamination were identified by the walkover scan. Attachment 1 is a map of these areas indicating gamma exposure rates at contact exceeding 10 μ R/h. Trenches were dug at the two highest locations of elevated contact radiation levels. These locations are also identified on the map, Attachment 1.

Attachment 2 is a table of the radionuclide concentrations found in the soil samples, and the depth at which they were collected. Elevated radionuclide concentrations were found only in the surface soil samples collected from 0-15 cm in both trenches. The material found in these samples consisted of gray rocks and clay similar to that found on SCA and DNR property.

Sincerely,

L. L. Sowell

Linda Sowell
Team Leader
Radiological Site Assessment Program

LS/lf

Attachments

9301070101 920526
PDR FOIA
MAYFIEL92-128 PDR

A/23

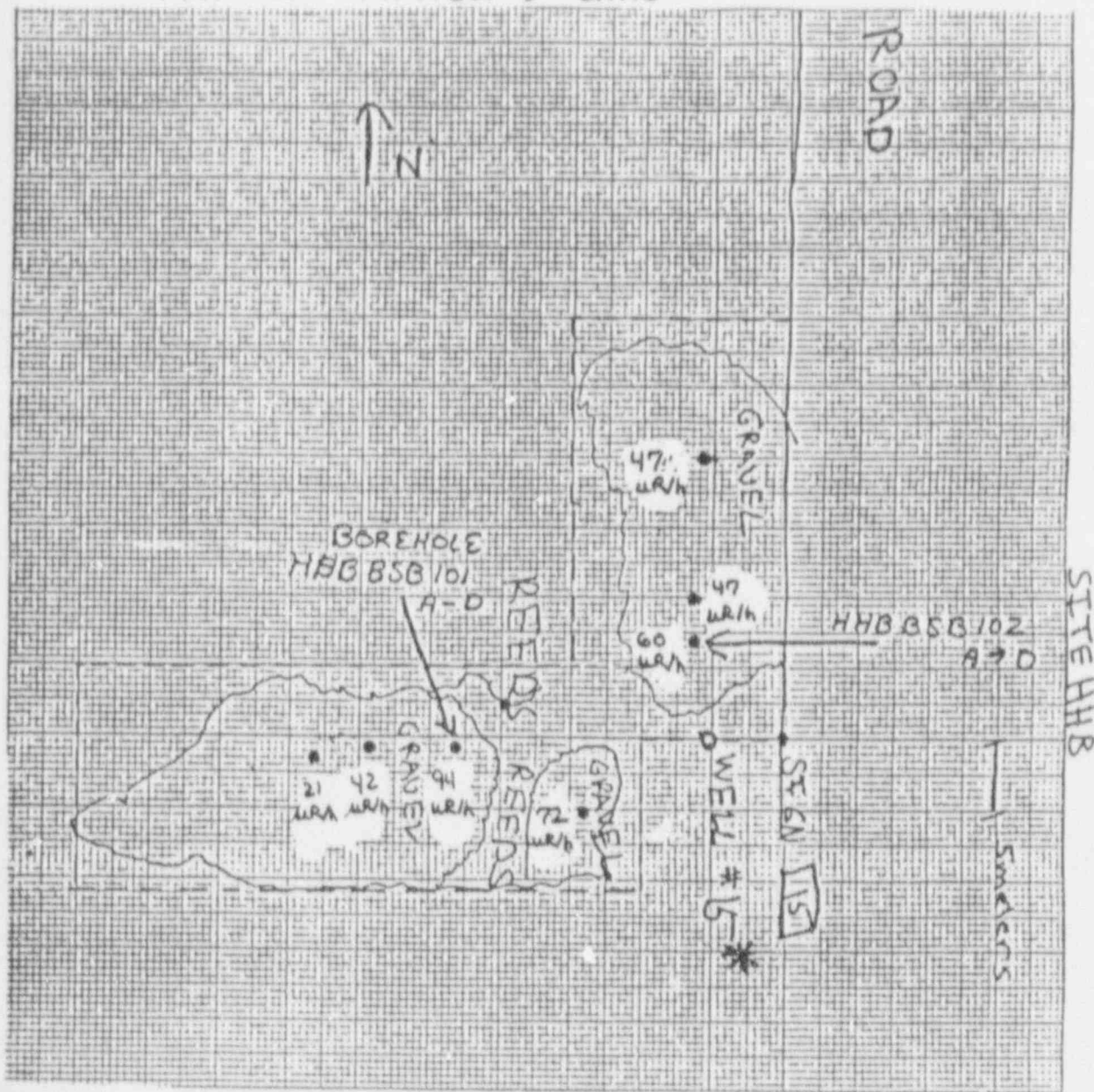
ATTACHMENT 2

RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES
COLLECTED ON HARTLEY PROPERTY, BAY CITY, MICHIGAN

Sample No.	Depth	Radionuclide Concentrations (pCi/g)			
		U-238	Th-228	Th-232	Ra-226
101 A	0 cm	<14.3	36.1 + 1.9	41.3 + 2.2	2.64 + 0.60
101 B	15 cm	<10.3	6.80 + 1.00	5.07 + 1.30	0.50 + 0.47
101 C	30 cm	<2.58	<0.13	0.37 + 0.22	0.15 + 0.10
101 D	65 cm	<3.39	0.38 + 0.21	<0.14	<0.05
102 A	0 cm	<11.5	58.7 + 2.2	55.9 + 2.22	0.80 + 0.60
102 B	15 cm	<3.57	1.96 + 0.32	1.65 + 0.32	0.20 + 0.14
102 C	40 cm	<2.73	0.14 + 0.14	0.13 + 0.20	0.17 + 0.11
102 D	70 cm	<3.63	3.81 + 0.39	3.44 + 0.46	<0.09

ATTACHMENT 1

MAP OF HARTLEY'S LAND



* WELL #15 IS 48 METERS NORTH AND (-) TWENTY SIX METERS EAST OF IRON PIN IN ROAD ON *pipe line* *pin* SOUTHWEST CORNER OF SCA PROPERTY.

--- INDICATES AREAS EXCEEDING 10 uR/h.

Constant $\frac{SWS}{118}$ $\frac{118}{SWS}$
 MP $\frac{118}{SWS}$
 (or corrected) Factor

Location of Sample taken 8/22 by
 D.H. + J.S.
 H.S.

Sample #

A	18	12	8,500	2.25
B	16	10.3	7,000	2.29
C	20	18	12,000	1.47
D	10	5.5	4,000	2.5
E	90	94	60,000	1.10
F	18	15	10,000	1.80
G	14	7.1	5,000	2.30
H	12	10.3	7,000	1.71
I	17	15	10,000	1.20

10M W of well 15'
 $2\frac{1}{2}$ M W of well 15'
 12 M W of well 15'
 7 M W of well 15'
 14 MW, 5 MW of well 15'
 7 M NW " "
 12 M N " "
 20 M N " "
 15 M N, 3 MW " "