

S O I L S

Lab. of Radiation Biology
Univ. of Washington

Beta-Activity in Soils Collected at Rongelap Island February-March, 1958 * Feb. 1959

41544G94

Plot No.	1	2	3	
Depth in inches	d/m/g dry	d/m/g dry	d/m/g dry	
	Per cent	Per cent	Per cent	
0-1	1760±72	96.5	1700±70	80.7
1-2	32±6	1.8	103±24	4.9
2-3	32±17	1.8	175±32	8.3
3-4	Bg -		95±24	4.5
4-5	" -		32±17	1.5
5-6	" -		Bg -	"
6-7	" -		" -	"
7-8	" -		" -	"
8-9	" -			
		8	17	18
0-1	1160±104	92.4	1410±60	91.2
1-2	64±15	5.1	56±10	3.6
2-3	32±13	2.5	24±8	1.6
3-4	Bg "		24±8	1.6
4-5	" "		16±7	.1
5-6	" "		16±7	.1
6-7	" "		Bg "	"
7-8	" "			
		19	20	
0-1	1720±72	80.1	1720±72	80.7
1-2	223±26	10.4	199±17	9.3
2-3	64±14	3.0	80±10	3.8
3-4	80±15	3.7	48±8	2.3
4-5	24±11	1.1	32±8	1.5
5-6	Bg 32±15	1.5	16±7	.8
6-7	" "		24±7	1.1
7-8	Bg		16±7	.8

*Determinations made with an Anton end-window tube. Corrections for counting efficiency and self absorption based on K40. Errors given are 0.95 counting error.

-ENIAETOK-
Gross Beta Activity

PLOT NO.	Depth in inches	d/m/gr dry	per cent	d/m/gr dry	per cent	d/m/gr dry	per cent
0-1	2300	496	67.8	2890	480	87.5	4450
	119	410	3.5	191	25	5.8	175
	366	437	10.8	143	21	4.3	32
	30	416	2.4	40	13	1.2	40
	56	414	1.7	Bg			24
	358	437	10.6	40	13	1.2	24
	111	418	3.3	Bg			24
	Bg						8