Fw: DuSable Park
VERNETA SIMON to: Cathleen Martwick, Phillip Brown 02/24/2010 11:45 AM

Sender	Date	Subject
VERNETA SIMON	02/24/2010 11:45 AM	Fw: DuSable Park

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Larry Jensen /R5/USEPA/US To
12/26/2000 09:53 AM

Subject DuSable Park

EPA Region 5 Records Ctr.
366299

Chuck,

Results of radiological analyses on the three samples we took in DuSable Park have been returned from Argonne National Laboratory.

Soil sample #1	Radium-226 (Ra-226)	0.98 picocuries per gram (pCi/g)
	Ra-228 `	2.67
	Total radium (Ra-226 + Ra-228)	3.65
	Thorium-228	2.4
	Potassium-40	6.1
	Europium-155	0.27
Soil sample #2	Radium-226 (Ra-226)	0.79 picocuries per gram (pCi/g)
	Ra-228 `	10.4
	Total radium (Ra-226 + Ra-228)	11.2
	Thorium-228	9.7
	Potassium-40	less than 0.5
	Europium-155	less than 0.2
"Stone" sample	Radium-226 (Ra-226)	120 picocuries per gram (pCi/g)
	Ra-228 `	10,300
	Total radium (Ra-226 + Ra-228)	10,420
	Thorium-228	7,350
	Potassium-40	1,340
	Europium-155	440

By way of explanation, radium-226 and radium-228 are found in normal soils at about 1 pCi/g each. Our cleanup level for the Streeterville projects has been 7.1 pCi/g total radium. As can be seen here, the "stone" is extremely different from normal and much above our cleanup level.

Both radium-228 and thorium-228 indicate thorium is present. In wastes over about 20 - 30 years old they should be expected to be about equal, which they are in this data.