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Safety & Environmental Protection Division (516) 345- 4207

March 2, 1979

Dr. Allyn M. Seymour
Director
Laboratory of Radioecology
University of Washington
Seattle, Washington 98105

Dear Allyn:

Enclosed is the ^{129}I results on the soil samples that were analyzed by Dr. Fred Brauer (PNWL). It would be interesting to compare the ^{137}Cs values (or even ^{125}Sb, ^{155}Eu and ^{60}Co). Could I request you to look into your past data and check out the values? It would prove as an useful tool to verify the results. It is possible that we may also have ^{99}Tc and ^{135}Cs done on the same samples.

Hoping all is well. My regards to Mrs. Seymour.

Thank you for all your help.

Yours truly,

Jan

Janakiram R. Naidu, Ph.D.
Ecologist

JRN/slg

Enclosure

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SUMMARY OF ^{129}I AND GAMMA-RAY SPECTROMETRIC ANALYSIS RESULTS

Sample Number	PNL Number	Collection Date	^{129}I Atoms/g	Gamma Radioactivity as of 7/12/78: ^{125}Sb Atoms/g	^{137}Cs Atoms/g	^{155}Eu Atoms/g	^{60}Co Atoms/g	On 7/12/78 $^{129}I/^{137}Cs$	At Collection $^{129}I/^{137}Cs$	Location
7500	87161	3/54		1.8×10^{7}	5.1×10^{10}	7.1×10^{7}	9.8×10^{7}			Labardz, Rongelap
7501	87162	3/54	6.8×10^{10}	1.1×10^{7}	2.5×10^{10}	1.5×10^{7}	5.5×10^{7}	2.7	1.5	Labardz, Rongelap
9772	87163	7/54	4.8×10^{10}	1.0×10^{7}	1.7×10^{10}	5.9×10^{7}	6.4×10^{7}	2.8	1.6	Kabelle, Rongelap
9773	87164	7/54		1.1×10^{7}	4.7×10^{9}	3.2×10^{7}	7.0×10^{7}			Kabelle, Rongelap
19293	87165	1/55	1.3×10^{11}	6.9×10^{6}	7.7×10^{9}	1.7×10^{7}	1.7×10^{7}	17.	9.9	Kabelle, Rongelap
19297	87166	1/55	1.5×10^{11}		1.5×10^{8}			1000.	580.	Rongelap
19500	87167	10/55	2.2×10^{11}		2.4×10^{8}	6.2×10^{5}	3.2×10^{6}	920.	540.	Rongelap
19505	87168	10/55	2.5×10^{10}		1.2×10^{9}	1.7×10^{6}	4.8×10^{6}	21.	12.	Rongelap
19497	87169	10/55	3.0×10^{10}		9.6×10^{8}			32.	19.	Rongelap
5539	87170	7/56	4.7×10^{10}	1.4×10^{6}	1.9×10^{9}		1.1×10^{7}	25.	15.	Kabelle, Rongelap
5554	87171	7/56			1.5×10^{9}	2.5×10^{6}	4.6×10^{6}			Rongelap
5558	87172	7/56	2.0×10^{10}	5.4×10^{9}	1.6×10^{9}	1.3×10^{6}	2.7×10^{6}	13.	7.8	Rongelap
5562	87173	7/56	1.1×10^{10}		4.7×10^{8}	2.2×10^{6}	5.8×10^{5}	23.	14.	Rongelap
5728	87174	7/57			1.6×10^{9}	5.8×10^{6}	9.8×10^{6}			Kabelle, Rongelap
5729	87175	7/57	7.6×10^{10}	3.3×10^{6}	7.3×10^{9}	1.6×10^{7}	2.1×10^{7}	10.	6.2	Kabelle, Rongelap
5753	87176	7/57	3.9×10^{10}		1.0×10^{9}	1.8×10^{6}	3.6×10^{6}	39.	24.	Rongelap
19289	87177	1/55	4.1×10^{9}		7.0×10^{7}			59.	34.	Uterik
19290	87178	1/55	9.3×10^{8}				1.4×10^{6}			Uterik
37256	87179	11/74	4.2×10^{9}		8.7×10^{8}	3.0×10^{6}	3.6×10^{6}	4.8	4.4	Enewetak, ~~Rongelap~~ Rongerik
37330	87180	11/74	6.6×10^{9}		3.7×10^{8}	6.4×10^{6}	4.9×10^{6}	18.	16.	Enewetak, ~~Rongelap~~ Rongerik
	871	5/55	3.6×10^{8}		4.9×10^{8}		1.0×10^{7}	.73	.43	Nevada Test Site
	881	5/55	9.8×10^{7}		5.6×10^{6}			18.	11.	Nevada Test Site
	1450	1/57	2.3×10^{8}		5.0×10^{8}	3.3×10^{7}		.46	.28	Nevada Test Site
	90680	1/67	2.1×10^{10}							Eninman, Bikini
	90681	5/67	8.6×10^{11}							Aomen Yurochi, Bikini
9951	87217	12/54	1.8×10^{11}		1.2×10^{7}	4.5×10^{5}		15000.	8700.	Ponape
5591	87218	7/56	2.8×10^{10}		1.2×10^{6}		2.6×10^{5}	23000.	14000.	Kusaie
	4645	8/57	1.1×10^{7}							Florida
	8360	5/66	5.1×10^{7}							Hawaii

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