

Attached is an updated summary of the Marshall Island plutonium data which I just received from HASL. The more recent analyses tend to show lower levels which is encouraging. I would conclude from the data that:

1. If the plutonium levels are not due to contamination the body burdens appear to be derived from contamination of the islands and not from absorption of fallout during the testing program since:

(a) The school children on Rongelap had comparably high levels,

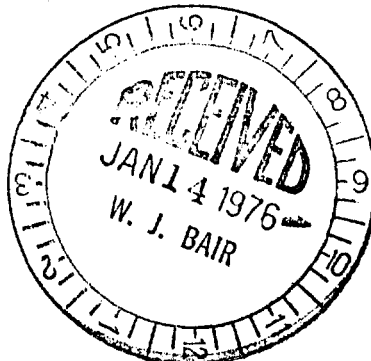
(b) The Peace Corp volunteer had as high levels as others,

(c) The more southern islands (Ebeye and Wotje) personnel showed levels not very different from N.Y. residents.

2, Contamination may still be a factor.

I will look forward to the report of your committee. With best regards,

Bob
Robert A. Conard, M.D.



Pu Analyses of Large Volume Urine Samples

Source	Collection Period	Description	Volume analyzed (liter)	fCi Pu per liter
RIKINI	Oct. 1975 BNL Survey	split pool of 17 specimens	4.7 4.7	11 ± 2 12 ± 2
"	Spring 1976 "	composite of 24 specimens	5.8	9 ± 2
"	Fall 1976 "	"pool of 5 families"	4.3	3 ± 2 (+)
RONGELAP	Spring 1976 "	composite of 17 specimens	5.8	9 ± 2
"	" "	24 hour specimen*	1.2	14 ± 7
"	Fall " "	"pooled"	14.0	2.3 ± 0.6 (+)
"	" " "	"pool of school"	3.2	7 ± 3 (+)
EBEYE	Fall 1976 "	"pool of 4 families"	14.2	1.0 ± 0.6 (+)
WOTJE	" " "	"pool"	6.3	1.4 ± 1.4 (+)
HASL	Fall 1975	pool	20	0.9 ± 0.4
"	May-June 1976	"	20	1.1 ± 0.4
"	" " "	"	20	0.9 ± 0.4
"	Aug 15 - 30, 1976	indiv.tot. collection (age 37)	20.5	0.1 ± 0.1
"	"	1st child of above " (age 9)	8.6	0.05 ± 0.05
"	"	2nd " " " (age 6½)	8.9	0.1 ± 0.1

*Peace Corps Volunteer
(-) new analysis

REPOSITORY PNNL
COLLECTION Marshall Islands
BOX No. 5684
FOLDER From Files of Transuranium
Technical Group

DOCUMENT DOES NOT CONTAIN ECI

Reviewed by A. J. Schultz Date 4/30/97