



BROOKHAVEN NATIONAL LABORATORY
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Safety & Environmental Protection Division

November 30, 1977

Dr. George Voelz
Division Leader, Health Research (H Division)
Los Alamos Scientific Laboratory
P. O. Box 1663
Los Alamos, New Mexico 87545

Dear Dr. Voelz:

I would like to take this opportunity to express my thanks, though delayed, for the opportunity to attend the Hazardous Waste Disposal Conference. It was a very fruitful one in every sense of the term. I would also like to express my thanks to Dr. Healy, Dr. Agnes Stroud and all of you for making the Conference a rewarding one. My thanks to Mr. Larry Wangen, Dr. Dave Curtis and his colleagues, Mr. R. Weeks and Mr. R. Peters for providing me the opportunity to look at your Bioassay Lab and for all the helpful suggestions and procedures in Plutonium Analysis. It was indeed a pleasure meeting you in Livermore.

In continuing our efforts to have the urine samples, collected in our Marshall Island projects, analyzed for Pu and other radionuclides like ^{241}Am and ^{137}Cs , I took the opportunity during my visit to your Laboratory to discuss with Mr. Weeks the possibility of doing such analyses by your Lab. It was decided that I write to Mr. Weeks on my return to Brookhaven National Laboratory. However, on my return, discussions held with Drs. Conard (BNL) and Weyzen (DOE-Wash. D.C.) it was decided that Dr. Weyzen would talk to you about the possibility of doing the urine samples for us (BNL), and that I should write to you directly in this matter. When I met you at the Livermore meeting, I had mentioned that such a letter was on the way. However, Mr. Meinhold felt that the letter should wait for my return from Livermore, as certain details such as number and frequency of samples were not yet available. Consequently, I am rewriting the letter with the required information.

- (a) We expect that the number of samples to be about 80 per year.
- (b) The volume per sample may vary from 4 liters to 20 liters depending on duration of the sampling period (per sample), that is, sample collected during our quarterly visit to the islands or sample collected over a period of three months. The pH of the samples will be adjusted to pH 2 using hydrochloric acid.
- (c) The samples will be sent to your Laboratory every three months, however, the total number per year will not exceed 80.

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- (d) We would like to explore the possibility of having one of our chemists visit your Laboratory to learn, discuss and actively do a few plutonium analysis on urine samples. Such an opportunity would hasten building up our own capabilities in the field of transuranic chemistry of environmental samples.

I am indeed looking forward to hearing from you in this matter. Thank you.

Yours truly,



Janakiram R. Naidu, Ph.D.
Ecologist

sls

cc: Dr. Walter H. Weyzen

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