

*UNIVERSITY OF WASHINGTON*

Department of Chemistry, BG-10

Seattle, WA 98195

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Dear Cindy,

Here is the trace metal analysis for the samples you sent me (finally!). I have enclosed both hard copies and a disk copy of the data. The following is an explanation of the data files:

- "rawdata" directory - contains the activity and concentration information for the different samples. There are 18 files in this directory because the 9 samples were counted twice on our detectors. The first count "longs" (isotopes with half lives of 15 hr - few days) are in files named C1 or C2. The second count "longs" (isotopes with half lives greater than several days) are in files named C3 or C4.
- "avgmsfac.xls" - contains the average mass factors determined from 8 standards; mass factors are used to convert activity into concentration
- "ctnotes.xls" - contains general information on the samples summarized from the KOFSE log, notes written on the sample bags, and my notes when packaging the samples for irradiation.
- "twohysht.xls" - contains the concentrations of the short lived isotopes determined at MIT, also contains concentration of vanadium in excess of that expected from crustal input
- "twohylng.xls" - contains the concentrations of the long lived isotopes determined at UW
- "combconc.xls" - contains the combined short-lived (measured at MIT) and long-lived (measured at UW) isotopes in one data matrix

As you suggested in your fax concerning the error analysis, I took a very conservative approach when propagating the error. The error was propagated using the root sum square method. I think at this point the best thing to do is have you look over the data and call me with questions. I've checked over the data somewhat, but to be honest, my ability to see errors in the data has been dulled because I've looked at it so much already. I'm also sending the KOFSE log notes in case you've misplaced your copy.

I look forward to your assessment of this data set. It will be a relief when I can bring this analysis to a completion. It's given me a lot of headaches, but it has also given me ideas how to treat future data sets. I will show Bill the data set and see what ideas he comes up with.

Until then,

Tris

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