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**To:** RTPMAINHUB.INTERNET("jlewis@tis.eh.doe.gov","randy...  
**Date:** Friday, March 28, 1997 8:17 am  
**Subject:** Canyons Sediment Meeting, April 1, 9 AM

A meeting will be held in the EES-1 Tectonics Lab on Tuesday, April 1, at 9 AM to discuss sediment investigations in Los Alamos and Pueblo Canyons. Several items are planned for the agenda.

1. Last chance to provide input on approximate numbers of samples and analyte suites for 3rd round of reach P-4 samples (penciled in at 63 samples, including Pu-239,240 for all and Am, Cs, TALs for 1; note: more planned for P-1 for testing colocation in Pueblo Cyn), and 2nd round of LA-5 samples (penciled in at 40 samples total for 2nd and 3rd rounds, mostly only Pu-239,240; I suggest 25 samples in 2nd round, and 15 in 3rd). A spreadsheet showing tentative numbers of samples, analyte suites, and breakdown by units for the remaining pilot study reaches (developed at 3/20 meeting) is available.

2. Issues to address in 2nd round of LA-5 sampling (geologic, statistical, risk). Only Pu-239,240 has been identified above background in LA-5, and 2nd round will be limited to this analyte.

3. Process by which we reach agreement on specifics of inventory calculations to satisfy both geologic and statistical concerns. This includes deciding: A) what geomorphic units and stratigraphic layers within one or more units can be lumped together, and where subdivision of units is appropriate; B) what data to use to estimate contaminant concentrations in each grouping of units and/or stratigraphic layers; C) how to assign distributions to different parameters (unit thickness, concentration, etc.) to incorporate uncertainties. Once we agree on general process, I would like to work on specifics of estimated P-4 inventory to help guide 3rd sampling round, perhaps after this meeting in a smaller sub-group (me, Randy, +/- ?).

(Note: I distributed a preliminary cut at lumping and/or subdividing units for P-4 from geomorphic perspective, with accompanying rationale, at 2/24 meeting. This was intended to serve as a strawman framework for calculating inventory, but I have received little specific feedback on it. If there are specific parts that need clarification, discussion, or revision, this is an appropriate time to bring them up.)

4. Discussion of relation of sediment investigations in reaches to bigger picture: extrapolation to unsampled reaches; addressing interactions between sediments and water and air pathways; etc.

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