

sub-surface pockets

409858

B

1.

Don't quantify - just get yes-no.

Broken (sub) pockets much less than 1/4 ha.

DOCUMENT DOES NOT CONTAIN ECI

Reviewed by A. Swartz Date 4/30/92

no aver. just yes-no

BEST COPY AVAILABLE

- continue with back-hoe

- is this location inside the pocket?

faster to use back-hoe <sup>can do 40 sample</sup> ~~excavator~~ a day (very fast) + sample 300 a day

1. back hoe on grid spacing (variable mo. ~ 25 or 10m spacing)

2. From center to proposed (unexcavated) boundary of pocket

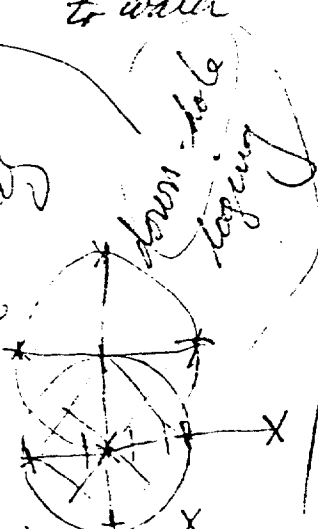
3. Depth - at least 100-170 cm - be prepared to go down to water

REPOSITORY PNNL  
COLLECTION Marshall Islands  
BOX NO. 5685  
FOLDER EMMETT May 1978

*Gross Volume*

Total Curbs ~ 64 meters  
smaller boundary ~ 203 meters  
one meter boundary ~ 203 meters  
spring will be ~ 200 meters  
Baker's pocket

Broken pockets can be mapped + perhaps extremely irregular



Change from intentional boundaries to problem is ok

Broken pockets go down ~120 cm (perhaps)

- Get condition D rewritten

[person's  
opinion]

- Use lower than 160 because lake  
point samples are so variable.

Ex: vicinity of — a coherent  
burned area

alice

~~-----~~

					18	16	26	80	
		24	23	20	14	13	13	21	61
		13	14	15	17	30	31	117	290
	19	20	33	33	41				
58	69								

sum of  
digits  
8.

1. Duplicates and spikes are, according to the "Quality Control Procedure" supposed to be run once a week. In fact, the frequency has been once a month for months Aug - December.

Reasons: a) During early months there were very few field samples collected  
⇒ no one is doing duplicates.  
This also inhibited running of spiked samples.

b) Procedures were not typed up and signed by DOE manager.

2. No interpretation or statistical analysis of GC data is done. Reports to DOE/ERSP manager consist only of lists of data with little or no comment.

3. If the difference between the "true" and "observed" concentrations on spiked samples is more than 20 or 25%, then all the field samples done in the same batch as the spike are reanalysed (I presume a new aliquote is taken)

4. % error are 70

5. aliquots are 5g size

- rough estimate.
9. Beta readings are no longer being taken.
10. The highly variable and positively biased  $^{239}\text{Pu}$  (and perhaps  $^{241}\text{Am}$ , wet chemistry) concentrations from spiked samples done during Sept. 1977 were not ball-milled. The poor agreement with the "true" concentration led to the routine procedure of ball-milling all samples.  
(Don't know whether this includes subsurface samples.)
11. Michael Artyz will be on the atoll during late June and July.