27 February 1933.

Dr. E.R. Gunther,
"Discovery Investigations",
c/o British Museum (N.H.),
Cromwell Road,

Dear Dr. Gunther:

I am afraid I may be delaying you to no purpose by keeping the sampling data. The new facts you last sent me, go a good way towards clearing up the apparent effects of dilution; probably you will want to reconsider all you have put down under that head.

On the question of volume, either one of two methods should give a good curve for interpolation among the experimentally determined points:

(i) Plot the reciprocal of the length against the cubic root of the number. Animals of constant shape will then give a straight line through the origin, and a curve other than this will give a good empirical allowance for change of shape with growth.

(ii) If you have not convenient cube root tables it might be better to plot the log. length against log. number, which should again give a straight line with a 3 : 1 slope, for
animals of constant shape. It would seem from your figures
that the peeling method overestimates the volume, though
perhaps not enough to matter.

I am sending the paper back so that you may have it
all together. If you think I can help, do not hesitate to
send any specific point with the relevant data.

One reassuring thing about the sampling is the good
agreement of the parallel samples (ii) and (iii). You
might like to try the on this whole series, so as to
establish this point from your whole data.

Yours sincerely,