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Edwin Dodds

"FALL OUT" SAMPLE ANALYSIS

J-12

These samples were analyzed and the results are enclosed. At the request of William Ogle, I am including a representative sample and my comments.

The "Dog" samples were obtained from one of the folding doors on a field trailer belonging to the Evans Signal Corps. It was shown that a small sample, when observed in one of our threshold detector counters, was quite active. The analysis made by Staritzky and Phelps (CMI-1) seemed to indicate that these samples were formed by some welding on the trailer rather than being some actual fall-out. This, of course, does not explain their activity but this could be due to fission fragments sticking to the sample. No long counts were taken on the samples to determine a half-life nor has any attempt to wash the samples clean of contamination been made as yet. Staritzky did, however, make the statement that he had seen such particle shapes in samples obtained from Trinity and also some fairly similar "glass beads" on one of Spence's air borne filters.

One might conclude from this analysis that it seems rather unlikely that particles of these sizes could be transported such a distance through the air and collect in such numbers in one place, but rather that the observed activity is due to contamination of the beads due to the fall-out.

The second sample analyzed was collected from a tarp covering our counting laboratory on Parry Island and its observed activity is most certainly due to contamination by fall-out only.

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cc: ^{W. Ogle} Frederick Reines (6)

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