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November 7, 1979

Major Alvin Young
USAFSAM/EK
Brooks AFB, TX 78235

Dear Al,

Listed in the enclosed tables are the final pesticide analytical results for the soil samples from the Gulfport, Mississippi and Johnston Island Herbicide Orange storage facilities. These results along with the water sample analysis results discussed below represent completion of the chemical analysis for this contract. A formal final report will be forthcoming to summarize some of our observations of data trends and to augment the first year final report with any analytical procedure changes from last year.

The six enclosed tables contain results from three different types of soil samples for each of the two storage facilities. In Tables 1 and 2 are summarized the results from all the samples taken between July 1977 and August 1979 from Herbicide Orange spill sites at the Gulfport (GP) and Johnston Island (JI) facilities respectively. The sample date code is defined as follows: date code 9 for samples collected 28 July 1977 and 25 August 1977 from GP and JI sites respectively; date code 0 for samples collected in January 1978 from both sites; date code 1 for samples collected 6 November 1978 and 18 October 1978 from GP and JI sites respectively; and a date code of 2 for samples collected 14 June 1979 from a GP site and 8 August from JI sites. Given in Tables 3 and 4 are the results for soil penetration studies done at one GP and two JI sites respectively. The presence of pesticide components is here shown to extend more than 20 centimeters below that soil surface. The analy-tical results for non-spill sites for GP and JI are listed in Tables 5 and 6 respectively. The samples in these last two tables are primarily water drainage or ocean sediment samples but also include samples from two non-storage site islands in the Johnston Island area and two labor-atory blanks. The two laboratory blanks reported were run on Fisher Scientific Co. Washed and Ignited Sea Sand and give some indication of the lower detection limits for the analytical methods. The exact source of these small blank contaminations is uncertain but they appear to possibly come from previous sample carry over. Thus the stated pesti-cide values for all of the sediment or other low concentration samples represent upper limits of actual contamination.