Monsanto

FROM (NAME & LOCATION) E. S. Tucker - Technology Department - S. Second Street

DATE September 15, 1970 cc: R. E. Keller - Res. 1

SUBJECT PCB ANALYSIS OF FLORIDA SOIL

REFERENCE

TO : W. B. Papageorge
General Offices

The concentrations of Aroclor 1242 found in the Florida soil samples are shown below:

Sample Identification	Probe Depth	ppm Aroclor 1242
19-F-1	6"	2820
19-F-2	6-16"	510
19-F-3	16-26"	26

The manner in which the samples were taken is described in a memo from J. M. Magner to R. E. Keller, a copy of which is attached.

Marsh Magner's description of how the material was applied to the soil is as follows. A hole approximately 15" in diameter and 16" deep was dug and after the walls were sprayed with a solution of Aroclor 1242 the soil was then replaced incrementally spraying each layer as it was added. When the hole was completely filled, the remaining Aroclor 1242 solution was poured on top, a total of 4 oz. of Aroclor being applied.

From the above dimensions, knowing the specific gravity of the sand (1.6 g/cm^3) and Aroclor (1.39 g/cm^3), it can be calculated that the average concentration of the Aroclor in the sand should be roughly 2200 ppm on a weight/weight basis. The average of the amounts found in the first 6" and 6-16" samples is ~1700 ppm which is fairly close to the original amount applied, considering the variables.

E. S. Tucker

db
Attachment

OSW 006368

WATER_PCB-SD0000055598

Monsanto

FROM (NAME & LOCATION): St. Louis - General Offices

DATE: July 17, 1969

SUBJECT:

REFERENCE:

TO: R. E. Keller
Queeny Plant

cc: H. S. Bergon
W. D. Carpenter
W. R. Richard
Scott Tucker, Queeny
E. P. Wheeler
J. B. Huffman

On May 25 and 26 with J. B. Huffman, School of Forestry, University of Florida, soil samples were taken from treatments in the Soil Poison Tests at Gainesville, as listed in the attached table.

After locating the desired treatments by careful measurement, the duff, soil and sand which had washed over the area during the past 30½ years were removed until the outline of disturbed soil was visable. The amount removed is shown in the column marked "overburden removed".

Samples were taken by means of a one-inch diameter soil probe. Approximately one pint samples were taken (4 probes per sample) from the top 6", bottom 10" and 10" below original treated soil, and are labelled in order "A", "B" and "C".

For background information on these plots, we are attaching to your copy of this memo a report prepared 6/28/39 by Ira Hatfield which covers in detail the establishment of the test plots from which the soil samples were removed.

The general area within the forest where this plot is located is receiving heavier use each year and there is always a threat of possible loss should a fire plow be run through the treatments. The University of Florida has agreed to supply the labor if Monsanto will bear the cost of materials as follows:

DSW 006369

WATER_PCB-SD0000055599

26 ea. 3" by 6½ft. posts @	$0.84	$21.84
2 ea. 3" by 8 ft. posts @	$1.20	2.40
1 ea. 4 pt. barbed wire, 15 guage		7.25
		$31.49
plus tax		1.22
		$32.71

If you decide to have the fence installed, Dr. Huffman should be so advised.

If I can be of further assistance, please let me know. I will be most interested to learn the analytical results on the soil samples.

J. M. Magner

nb

Attachment

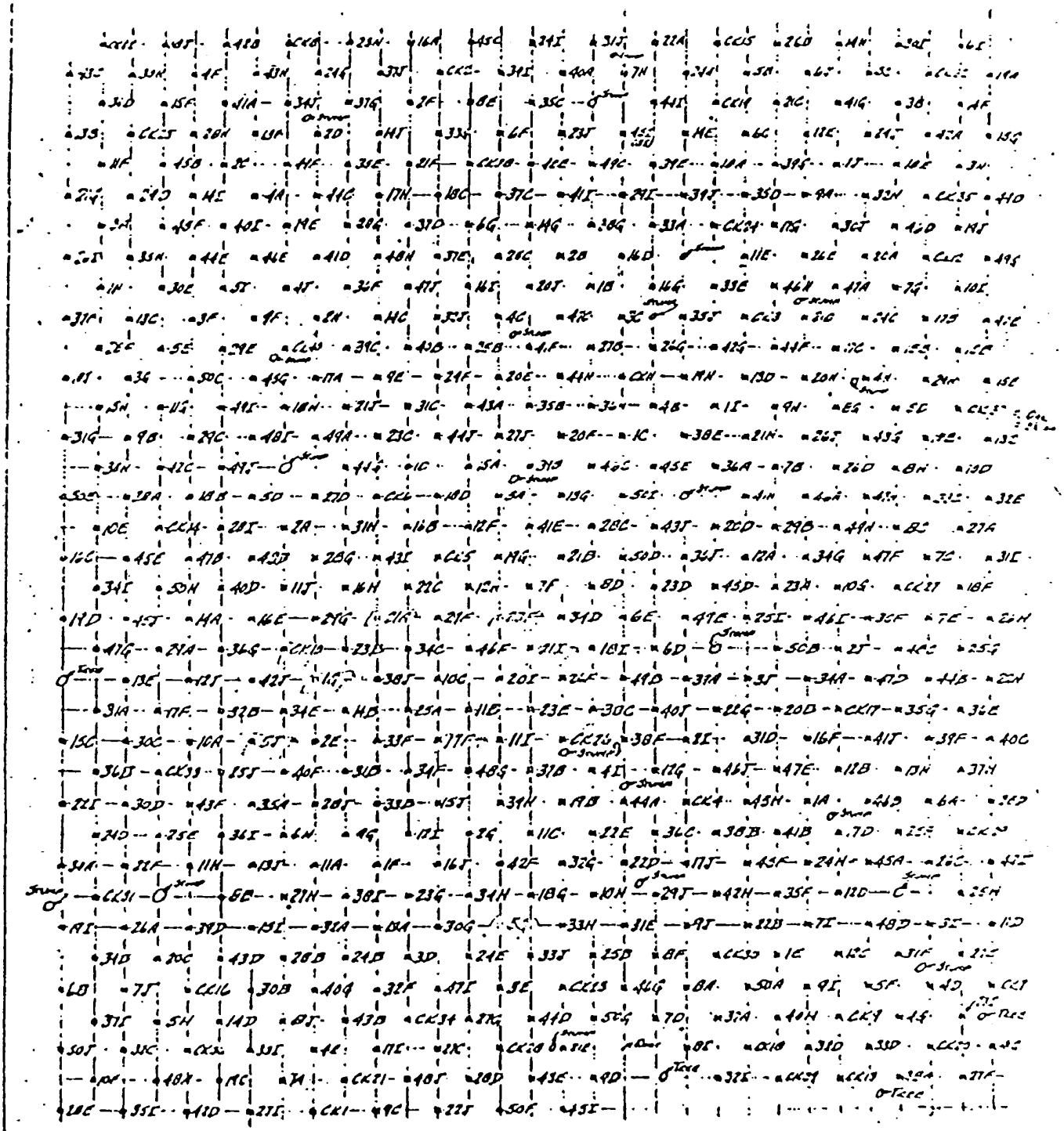
WATER_PCB-SD0000055600

Soil Poisons & Hots Co
Gainesville, Fla.
Installed 9/21 to 10/12/38

Date probed	Treatment Replicate	Inches of soil from surface	Overburden removed
5/26/69	1 - G - 1 ½ gal. PCP 5%	6"	4"
	2	6" - 16"	
	3	16" - 26"	
5/27/69	5 - G - 1 8 oz A 5442	6"	2"
	2	6" - 16"	
	3	16" - 26"	
5/26/69	5 - J - 1 "	6"	2"
	2	6" - 16"	
	3	16" - 26"	
"	19 - F - 1 4 oz A 1242	6"	2"
	2	6" - 16"	
	3	16" - 26"	
5/27/69	21 - A - 1 4 oz A 1248	6"	1"
	2	6" - 16"	
	3	16" - 26"	
5/26/69	21 - I - 1 "	6" -	2"
	2	6" - 16"	
	3	16" - 26"	
"	23 - F - 1 4 oz A 1254	6"	1"
	2	6" - 16"	
	3	16" - 26"	
"	CK - 10 - 1 -	6" -	4"
	2	6" - 16"	
	3	16" - 26"	
"	OUTSIDE CK - 1 -	6"	0"
	2	6" - 16"	
	3	16" - 26"	

DSW 006371

1/28/59	1 - B - 1 THRU 6	½ gal. PCP 5%
1/29/59	5 - A - 1 " 6	8 oz Aroclor 5442
[illegible]/59	CK - 1 " 6	No TREATMENT



DSW 006372

LOCATION MAP - SOIL BORINGS [illegible] FLORIDA

WATER_PCB-SD0000055602