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HW-3-5055

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By Authority of H.E. Carroll

DATE, 11-14-62

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300 AREA
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- 8 - 700 file
- 9 - Pink file
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300
Chron.

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October 22, 1946

This Document consists of

Incorporated as pages 2 thru 7 of
Doc. 3-5055 Photos.

VEGETATION CONTAMINATION FOR PERIOD

JULY 2, 1946 to AUGUST 31, 1946

3-5049	8/30/46	c.10
3-5050	8/30/46	c.10
3-5051	8/30/46	c.10
3-5052	8/30/46	c.10
3-5053	8/30/46	c.10

The accompanying graphs indicate the trend of vegetation contamination during the period 7/2/46 to 8/31/46 as evaluated from one gram samples counted for 5 to 60 minutes on a mica window Beta set. The values have been corrected for self-absorption, (1) and for decay between sampling and counting. (2)

Samples of various species of vegetation that were taken in areas of high contamination maintained a variation in the counting rate between samples of a factor of 8. The dry material seems to be consistent in giving a maximum counting rate.

The number of Curies that are evolved from the stacks of the Separation Plants increased toward the end of the period, and was reflected in an increase in contamination at Richland, Kennewick, Benton City, Rt. 48, M1.4 and Rt. 48, M1.25. Other locations indicated a decreasing amount of contamination through this period.

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(1) "Vegetation Contamination for First Quarter of 1946", Doc. 3-3495
5/1/46, J.W. Healy to File.

(2) Correction for decay is based on the half-life of I^{131} of 8 days.

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LDT-file

10/22/46 3-5055

-2-

Isodose maps made for the Extent of On-Area Vegetation Contamination in July⁽³⁾ and August⁽⁴⁾ indicated a general decrease in contamination on the Project area.

Only one Off-Area survey was completed during this period. A plotting of the data is included in this report. Some of the results are high because of a large factor used in correcting for the decay between sampling and counting. A maximum correction factor of 6.2 was used on one route just north of the Project area, but the corrected results were consistent with previous data. Other routes were corrected for decay by factors of from 1.5 to 3.7. Decay studies on a few of the high counting samples indicated I^{131} contamination.

LDT:swc

L. D. Turner

L. D. Turner ^c

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-2-

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- (3) "#81-E - H.I. 'Environs' Report for the Week Ending 7/24/46,"
Doc. 7-4440, 7/25/46 C.C.Gamertsfelder to F.B.Vaughan.
- (4) "#85-E - H.I. 'Environs' Report for the Week Ending 8/21/46",
Doc. 7-4621, 8/22/46 C.C.Gamertsfelder to F.B.Vaughan.
-

3-5056

HANFORD ENGINEER WORKS

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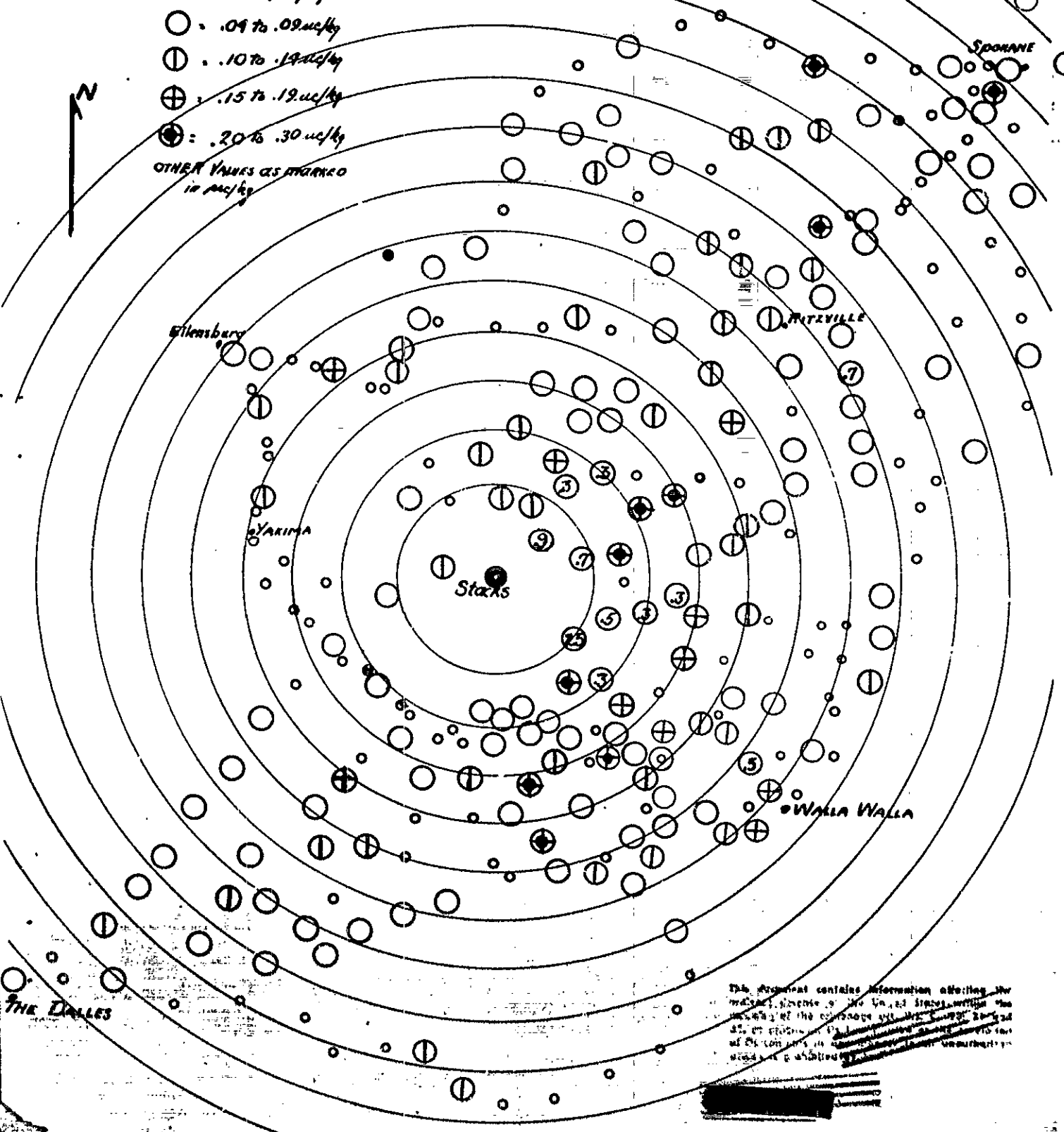
EXTENT OF VEGETATION CONTAMINATION
OFF AREA

DATE: Aug 30, 1946 DRAWN BY: LDT

3-5044
8-22-46
B-10

- .04 μ C/Kg
- .04 to .09 μ C/Kg
- ① .10 to .19 μ C/Kg
- ⊕ .15 to .19 μ C/Kg
- ⊙ .20 to .30 μ C/Kg

OTHER VALUES AS MARKED
in μ C/Kg



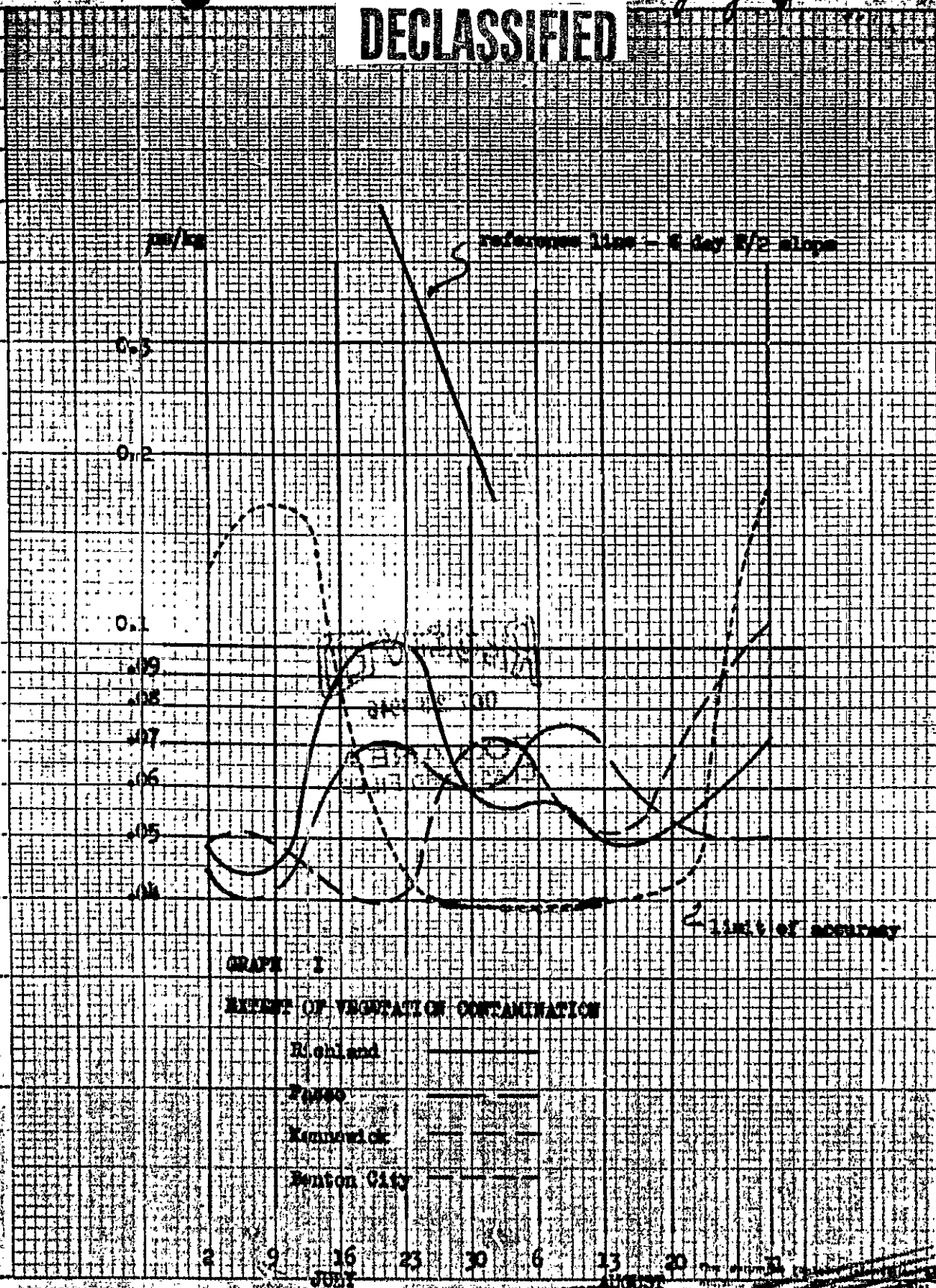
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2-50-76

B.H.
J.H.



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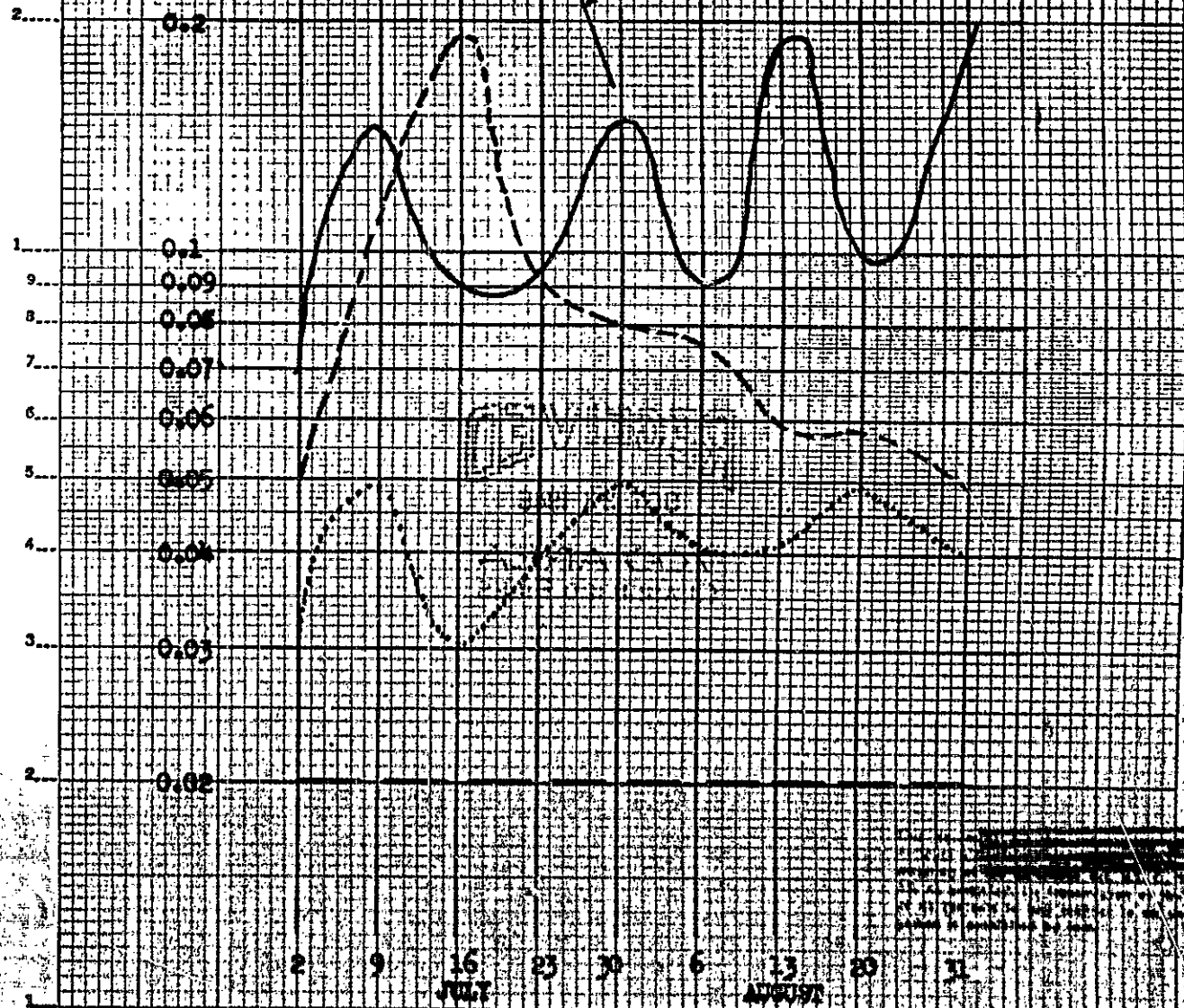
MAP 11

ALL MEASUREMENTS - 8-22 type automatic recorder

- Range 10 Mile 6
- Range 20 Mile 10
- Range 30 Mile 1
- Range 10 Mile 1

mpg/hr.

reference line - 6 day 7/2 slope

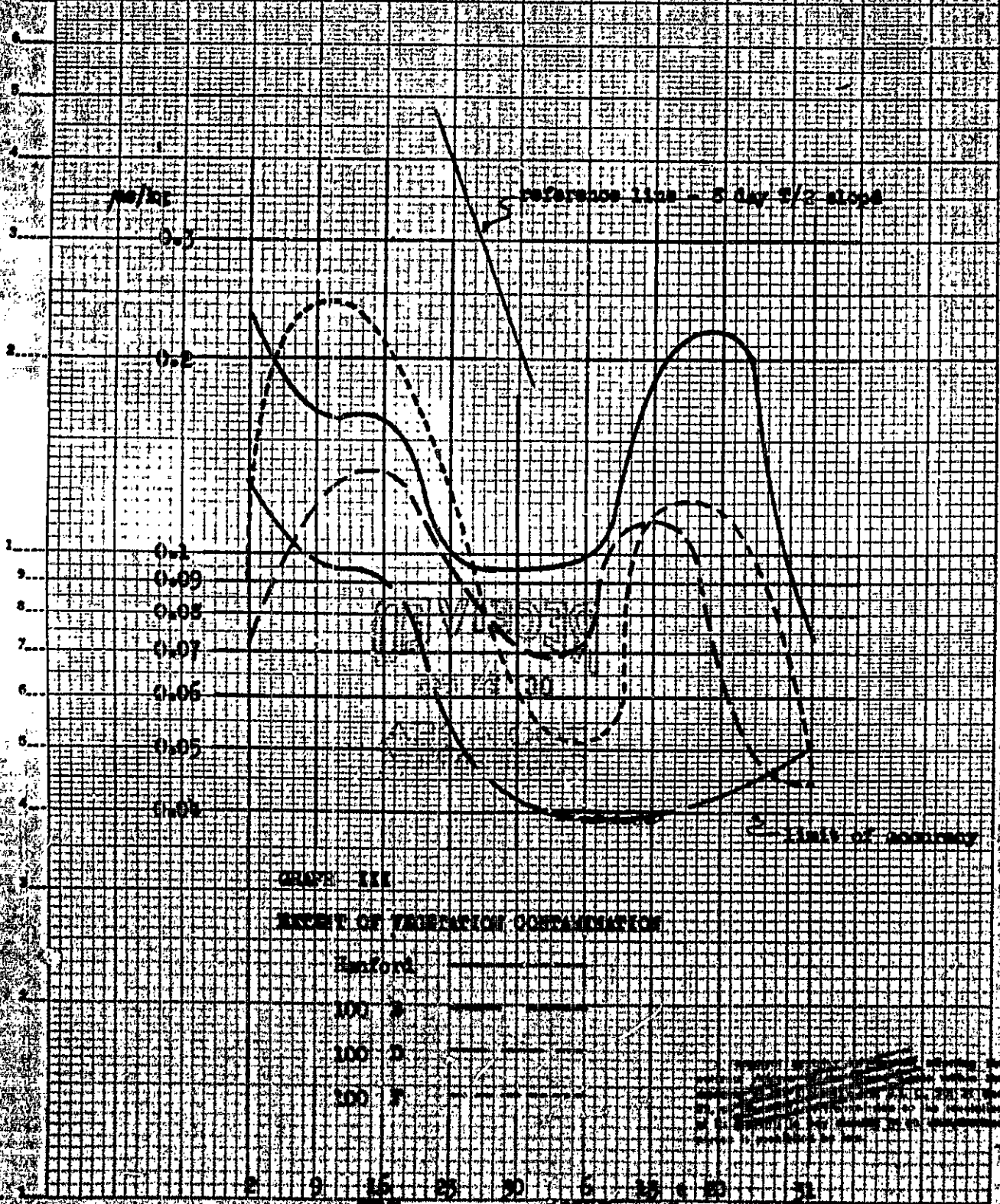


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GRAPH III
 PERCENT OF VEGETATION CONTAMINATION

Barford _____
 100 P _____
 100 D _____
 100 F _____

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 100 P
 100 D
 100 F

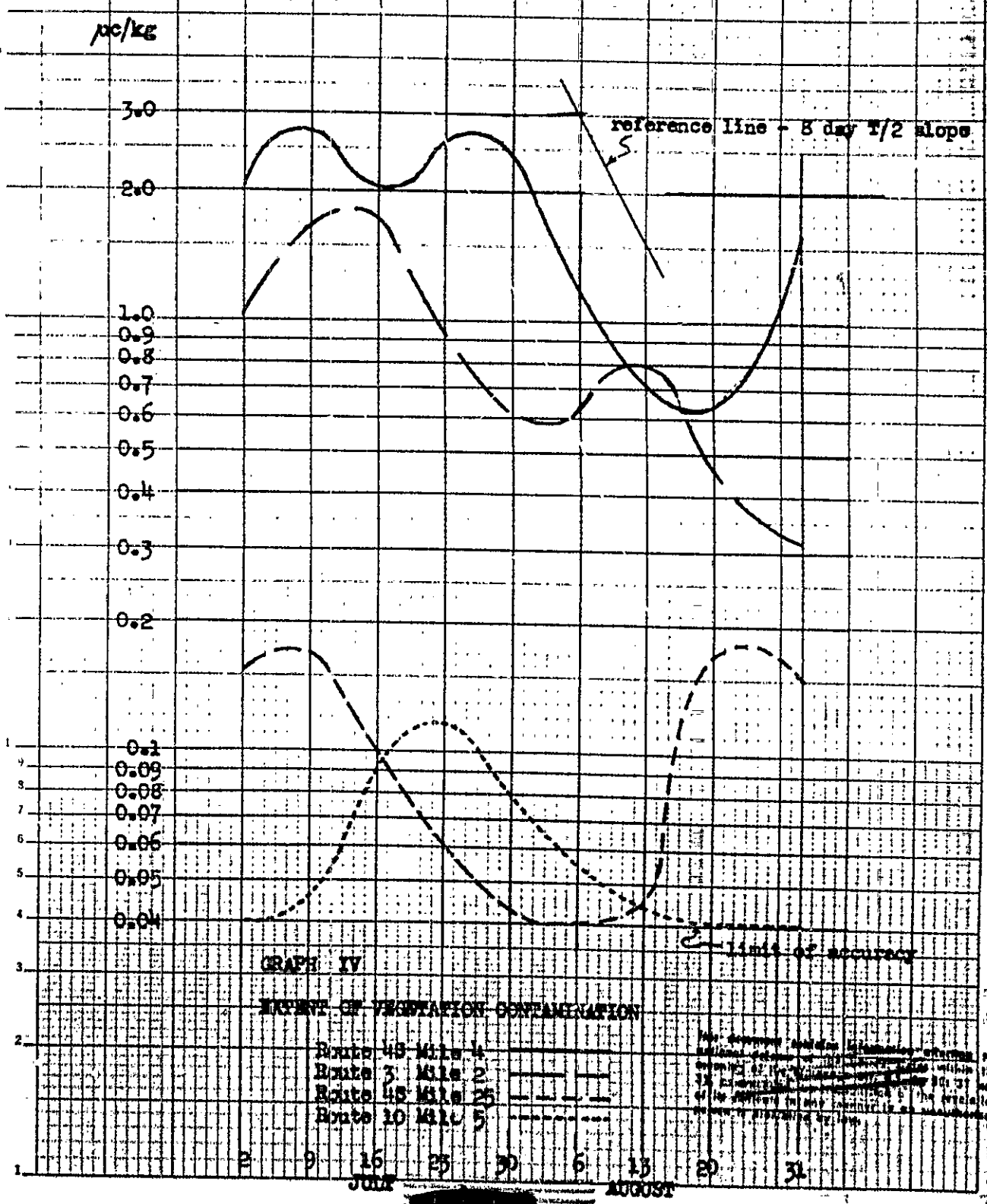
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 JULY AUGUST

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