

SPECIAL RE-REVIEW

FINAL DETERMINATION

DECLASSIFICATION CONFIRMED

BY A.E. Barber DATE 2-25-82

BY P. Cleary DATE 3-2-89
TO: File

BEST AVAILABLE COPY

Classification Cancelled (Change to)

By Authority of Specialist
Classification Specialist

By W.C. Kay Date 10-2-60

Classification Cancelled (Change to)

Declassified

By Authority of May 1973

DDC

P. Cleary 3-2-89
3-2-89

The accompanying graphs indicate the trend of vegetation contamination as evaluated from one gram samples counted for 5 to 60 minutes on a mica window beta set. A correction factor of 3 for self-absorption of the beta contamination in the sample has been applied. (1) There is included a graph of the estimated number of Curies of radio iodine dissolved per week by the two separation plants.

Samples of various species of vegetation were taken in areas of high and low contamination. The variation in counting rate between samples taken in high contamination was 8x. The variation in areas of low contamination was 2x. Dry, leafy material seems to give the maximum counting rate in any given location of sampling.

Since the number of Curies that are evolved from the stacks of the separation plants has decreased considerably, the amount of contamination near the area has remained about the same while in outlying areas it has decreased. Tolerance levels (2) exist near the separation plants and near Hanford.

Off-Area locations have not been as consistently surveyed although more complete surveys were obtained from M.I. personnel.

RECORD
COPY

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3.3603

- Copy #1 - H.M. Parker
→ 2 - C.C. Gamertsfelder -
C.M. Patterson
3 - J.W. Healy-L.D. Turner
4 - F.P. Seymour-C.R.E. Morkle -
M.L. Mickelson-300 Area file
5 - F.B. Vaughan-J.D. Ellett
6 - W.C. Kay-700 Area file
7 - Yellow file
8 - Pink file

August 6, 1946

VEGETATION CONTAMINATION FOR
SECOND QUARTER OF 1946

THIS DOCUMENT IS
PUBLICLY AVAILABLE

L.D.Turner }
J.W.Healy } To File

-2-

8/6/46

The Off-Area surveys indicate a greater area of contamination on vegetation to the North and Northeast of the separation plants. Some contamination (.07 $\mu\text{c}/\text{kg}$) (3) and was observed 50 miles North of Spokane, Washington. One spot to the South and West, near the Dalles, Oregon indicated .15 $\mu\text{c}/\text{kg}$. (3)

L. D. Turner
L. D. Turner

LDT/JWH:mlw

J. W. Healy
J. W. Healy

- REFERENCES:
- (1) "Vegetation Contamination for First Quarter of 1946", Doc. 3-3495, 5/1/46
J. W. Healy to File.
 - (2) "Tolerable Concentration of Radio Iodine on Edible Plants", Doc. 7-3217, 1/14/46
H. M. Parker to W. D. Norwood.
 - (3) #75-E, "H.I. Environs Report for the Week Ending 6/12/46", Doc. 7-4238, 6/14/46
C. C. Gamertsfelder to F. B. Vaughan.

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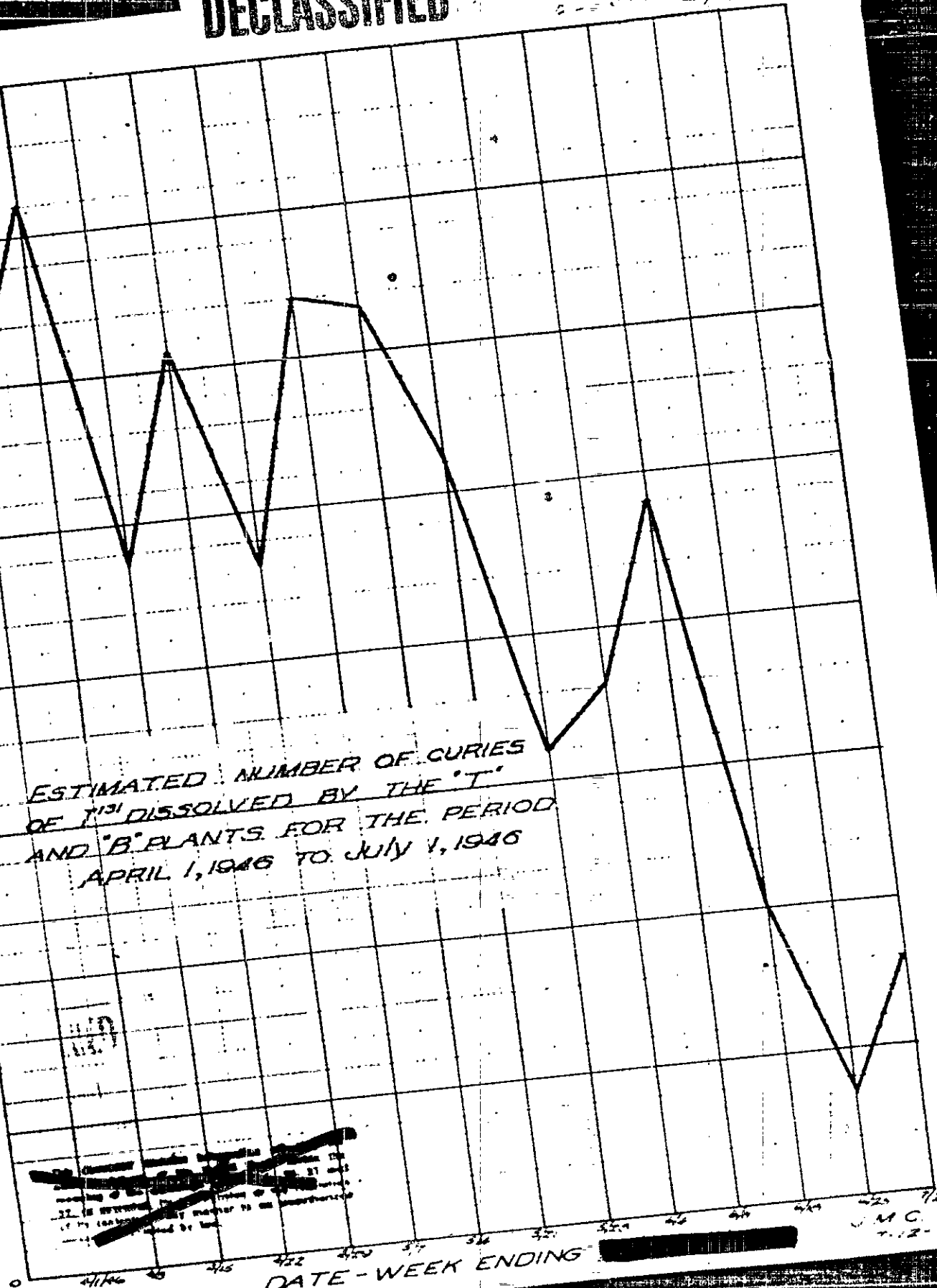
2-7-62

CURIES I^{131}
PER WEEK

ESTIMATED NUMBER OF CURIES
OF I^{131} DISSOLVED BY THE "T"
AND "B" PLANTS FOR THE PERIOD
APRIL 1, 1946 TO JULY 1, 1946

DATE - WEEK ENDING

J.M.C.
7-12-46



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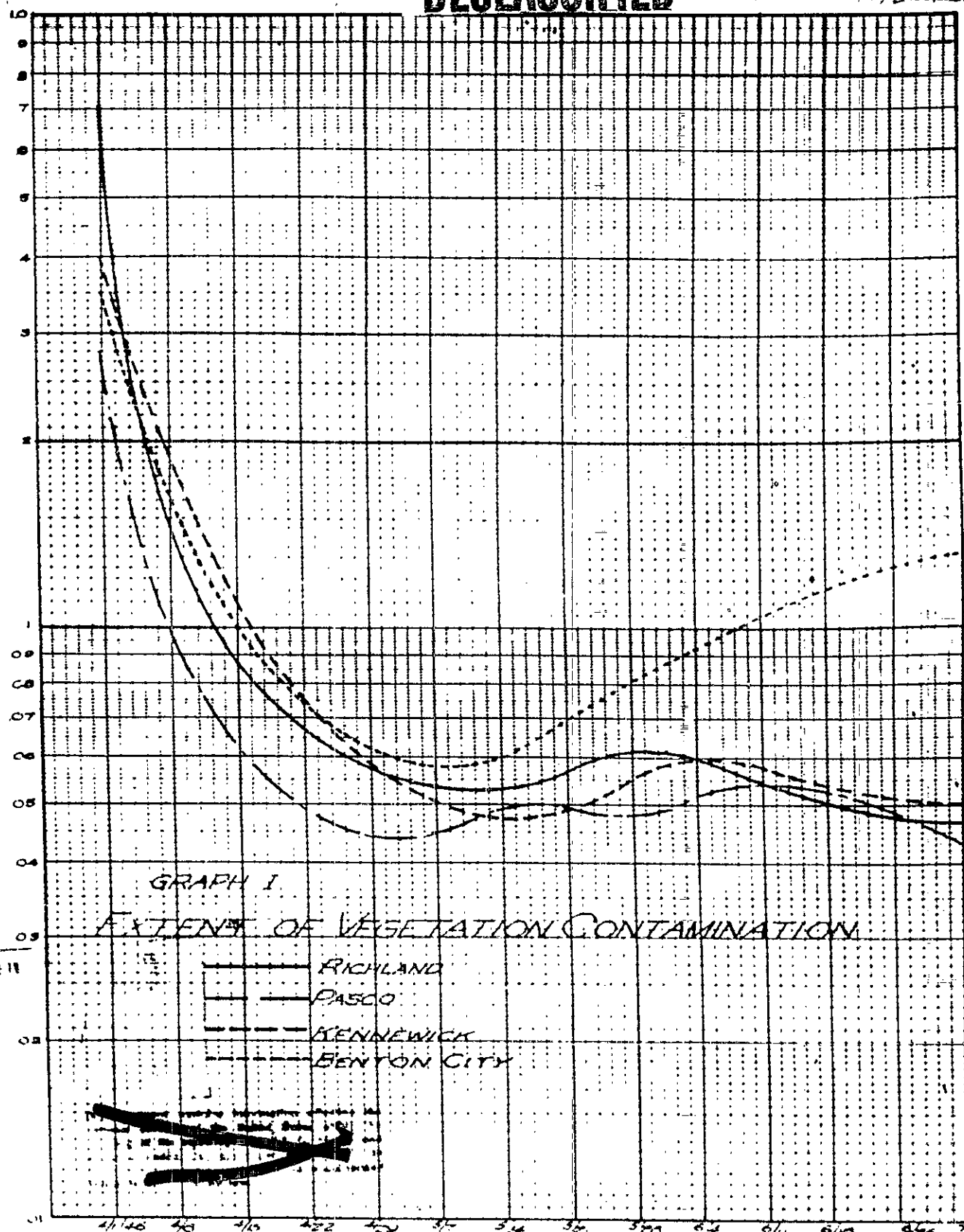
4-3603

NO 340 1210 DISTRICT HEADQUARTERS

NO 340 1210 DISTRICT HEADQUARTERS

RECEIVED 10/10/46

VEGETATION CONTAMINATION - MC/Mg



GRAPH I

EXTENT OF VEGETATION CONTAMINATION

- RICHLAND
- PASCO
- KENNEWICK
- BENTON CITY

DATE - WEEK ENDING

JMC

7-12-46

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EUGENE DUTTON CO

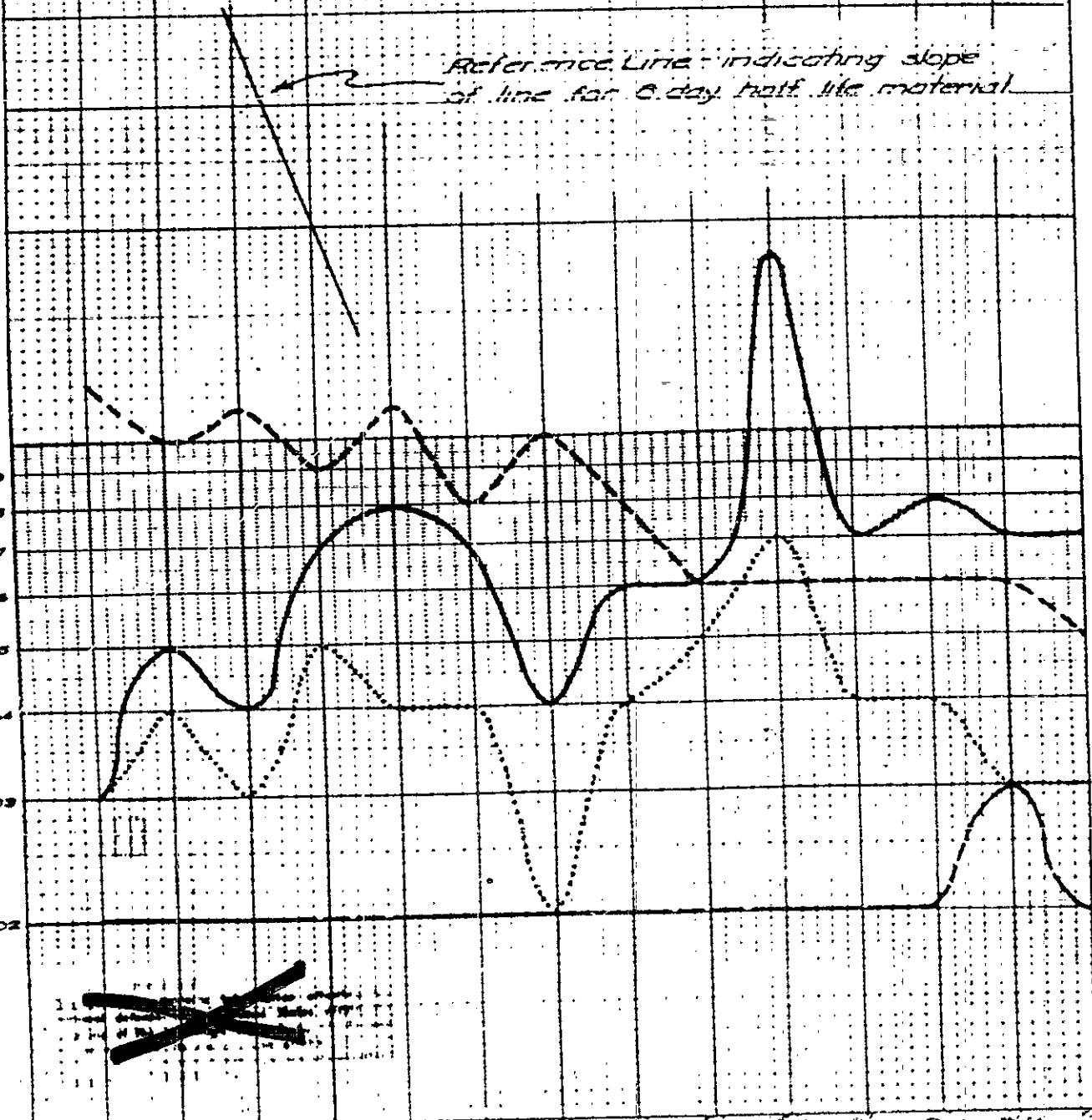
340-1310 DUTTON GRAPH PAPER
SEMI-LOGARITHMIC
2 CYCLES X 10 DIVISIONS PER INCH

IONIZATION CHAMBER READING - mrcp/hr

GRAPH II
AIR MONITORING - M-22 CHAMBERS

- Rt 4-5 MI 6
- Rt 2N MI 10
- - - - - Rt 3 MI 1
- Rt 10 MI 1

Reference Line - indicating slope
of line for 6 day half life material



DATE, WEEK ENDING

JNIC
7-12-46

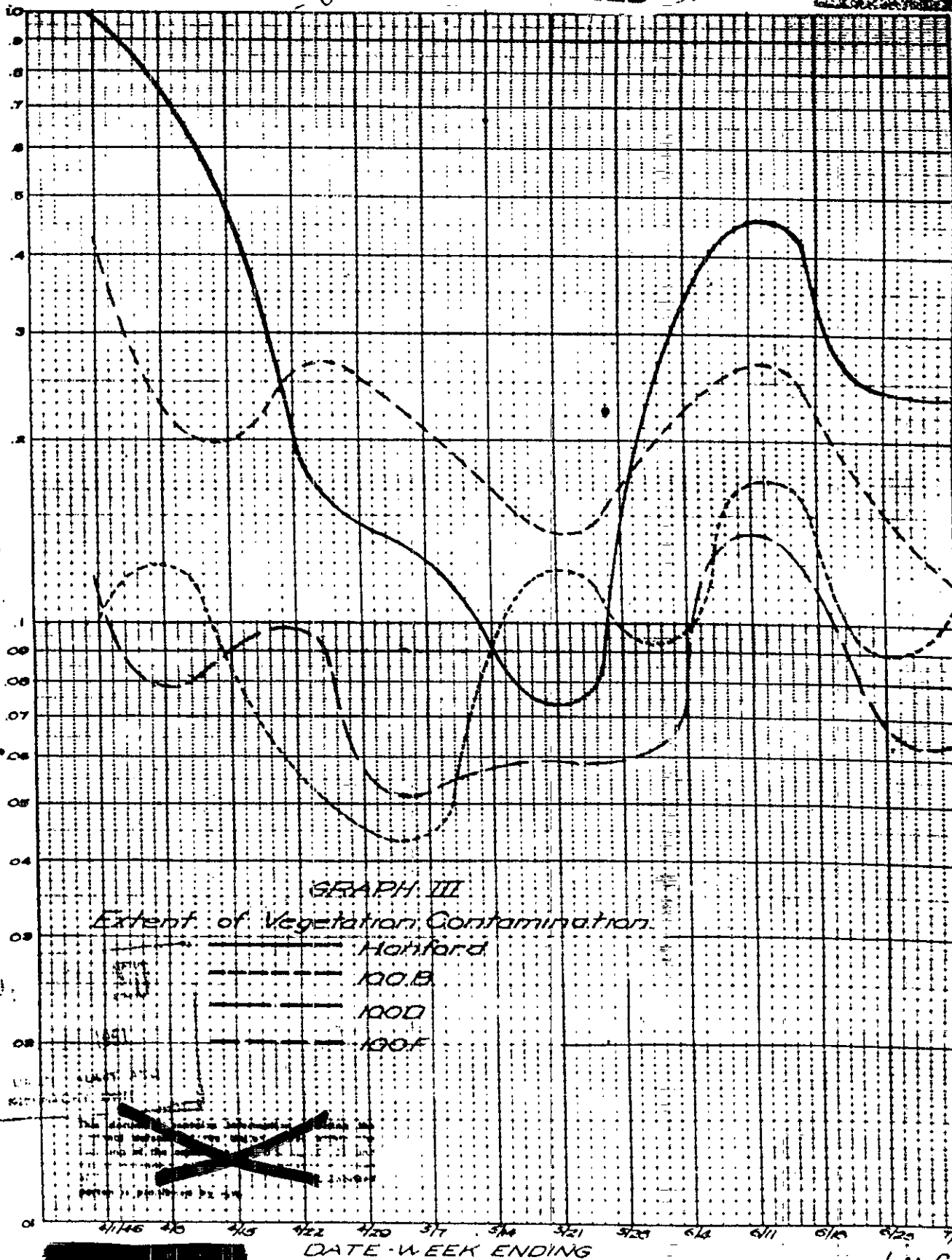
6 - **DECLASSIFIED** 3603

ENGINE DESIGN CO

NO 340 L210 DIEZEL GRAPH PAPER

SEMI LOGARITHMIC
2 CYCLES & 10 DIVISIONS PER "INCH"

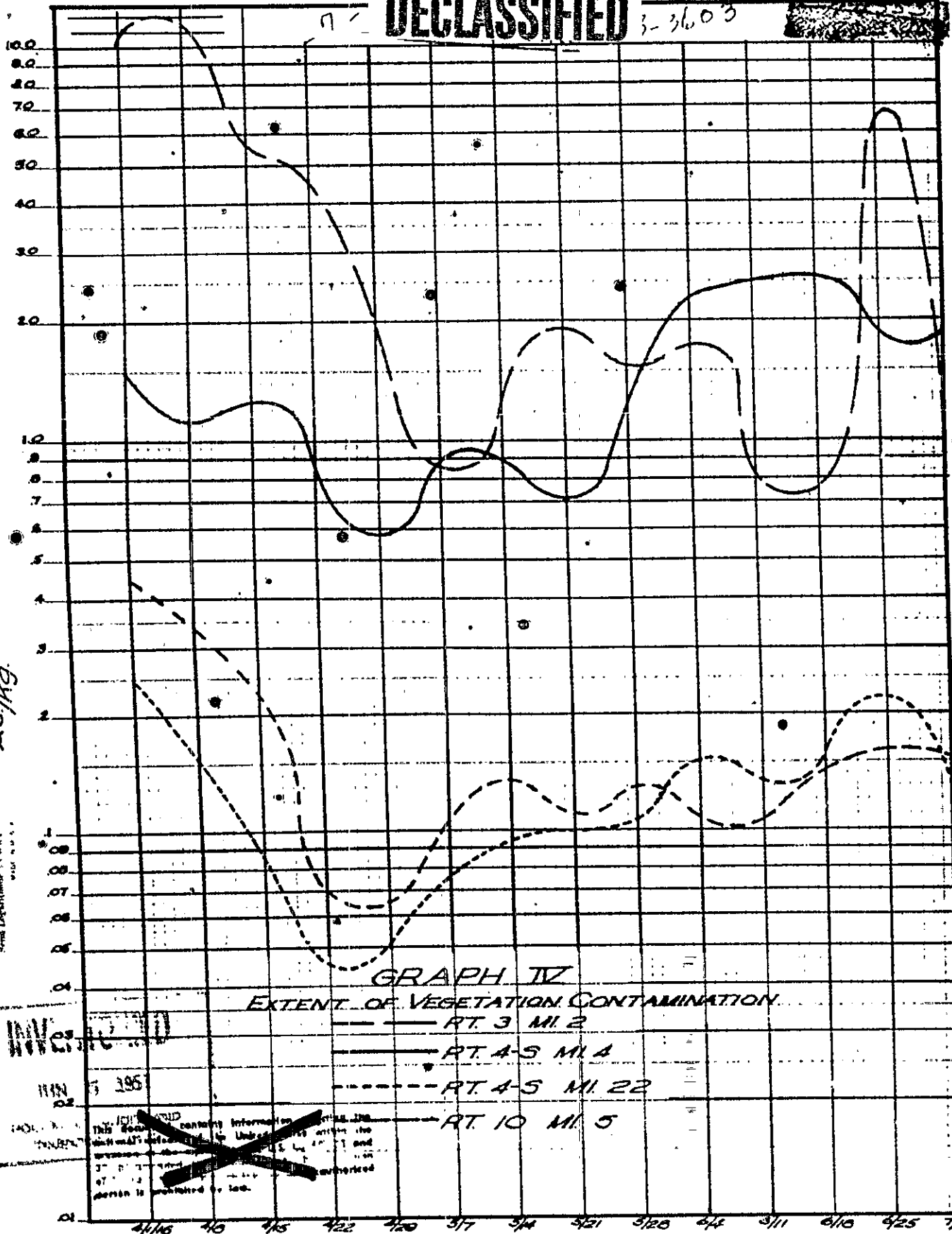
4C/K9



J M C
7-12-46

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3-3603



SCOTT & ESSER CO., N. Y. NO. 10077
 Small Logarithmic Scale, 100 to 0.1

INVESTIGATED
 JUN 5 1965
 100-100-100

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DATE-WEEK ENDING

L.D.T.
 7-23-46

HANFORD ENGINEER WORKS

EXTENT OF VEGETATION CONTAMINATION

DATE April 13, 1976 DRAWN BY LDT

CHECKED _____ BLDG NO. _____

DWG.

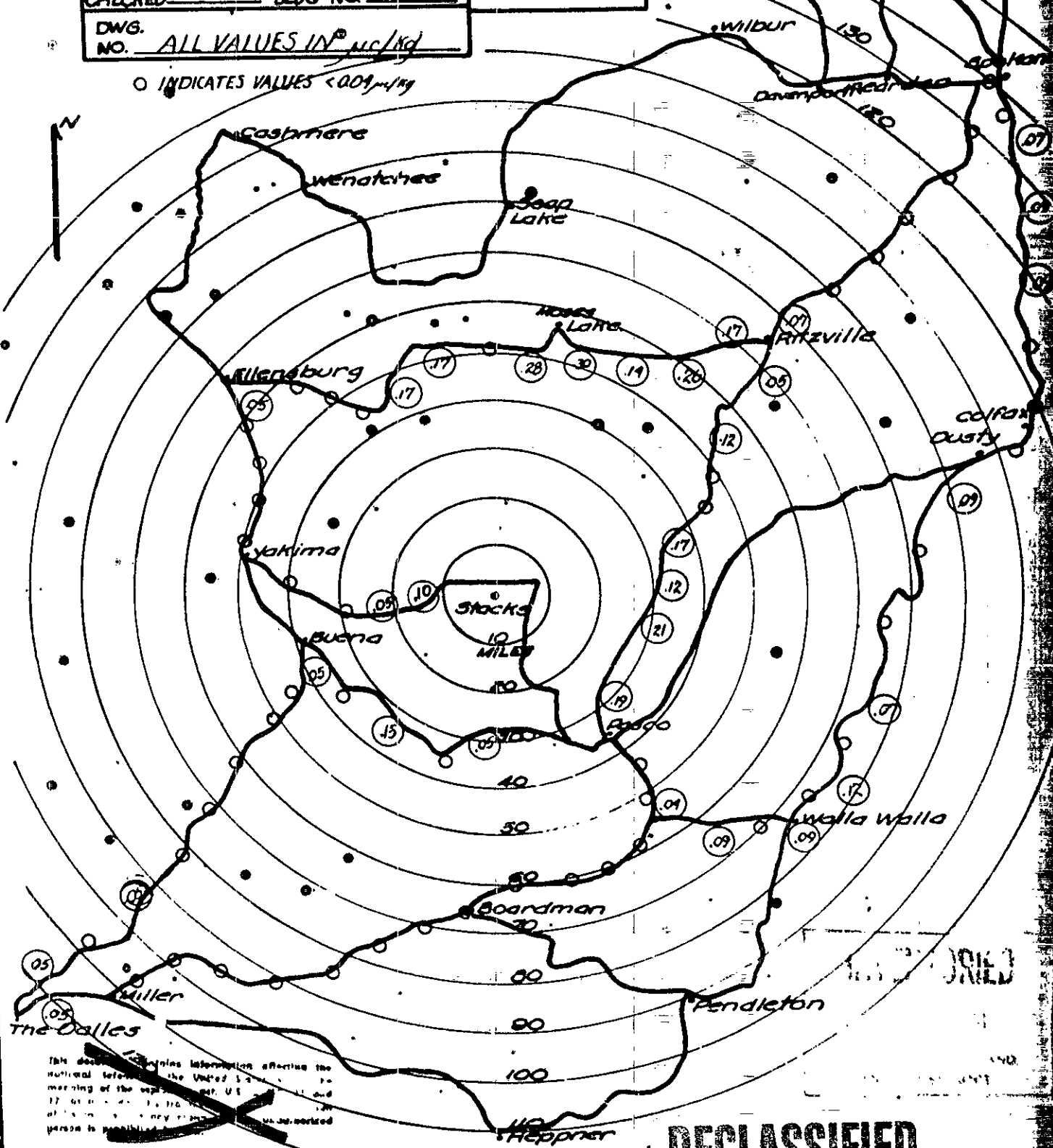
NO. ALL VALUES IN $\mu\text{C/Kg}$

○ INDICATES VALUES $< 0.01 \mu\text{C/Kg}$

Chewelah.

Hunters Grays

3-36.03 HUNTERS
Grays 7-4551



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HANFORD ENGINEER WORKS

EXTENT OF VEGETATION CONTAMINATION

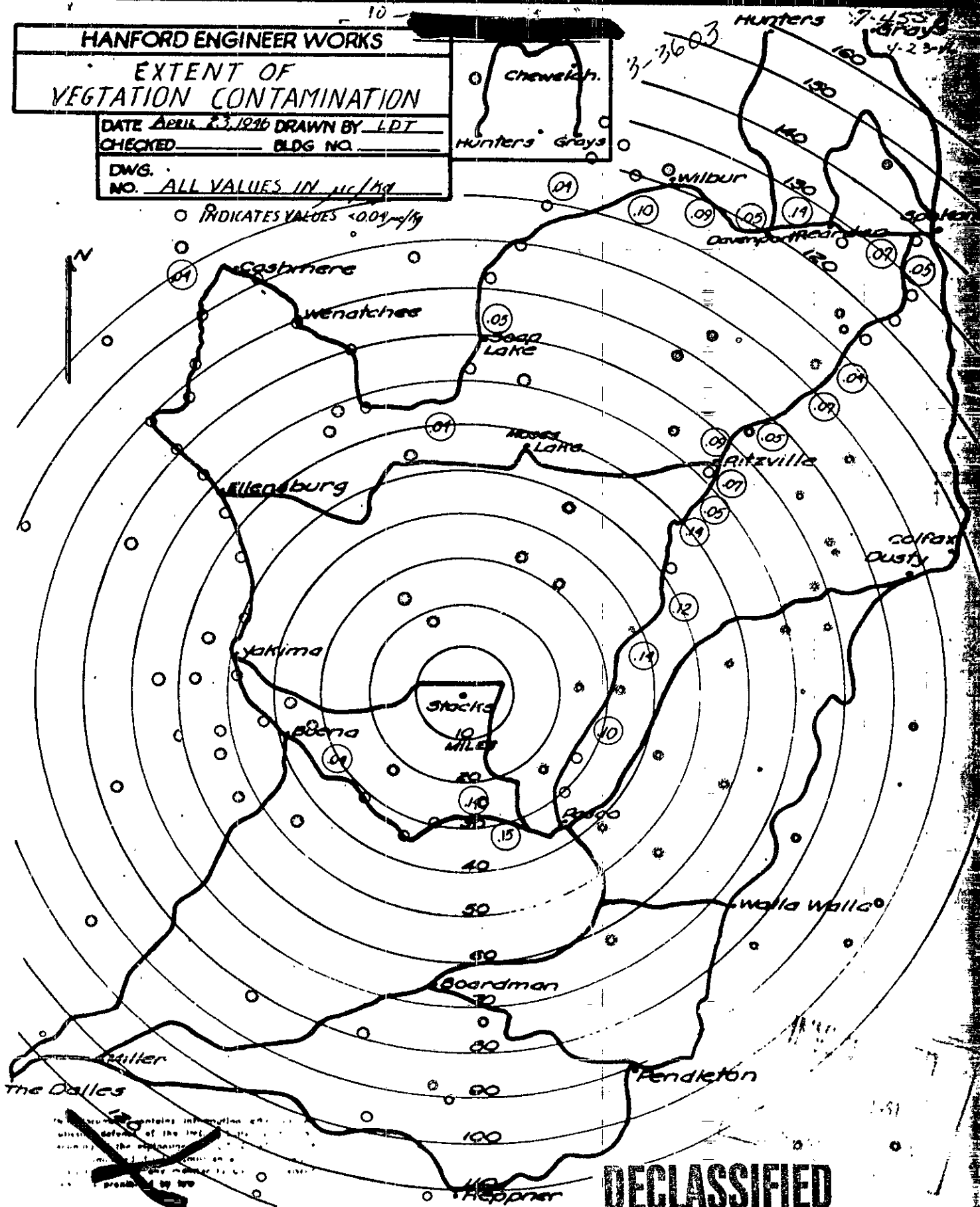
DATE April 23, 1946 DRAWN BY LPT

CHECKED _____ BLDG NO. _____

DWG. NO.

ALL VALUES IN $\mu\text{C}/\text{kg}$

○ INDICATES VALUES $< 0.01 \mu\text{C}/\text{kg}$



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