

Item ID Number 04085



Not Scanned

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Report/Article Title Typescript: TA C-52A TCDD Sampling Program

Journal/Book Title

Year 0000

Month/Day

Color

Number of Images 4

Description Notes Handwritten note says "Oct 1980 Tyndall Meeting."

OCT 1980
Tyndall MEETING

TA C-52A TCDD SAMPLING PROGRAM

OBJECTIVES

The objective of this effort is to determine and further define the current concentrations of TCDD in soils of TA C-52A. Data obtained from this sampling program will be used to determine which, if any, portions of TA C-52A can be used for unlimited testing and personnel entry. These data will also serve as a data base for future determination of type and extent of necessary decontamination and/or controls.

RATIONALE

Because of the extreme toxicity and other health problems attributed to TCDD, together with the political climate of Herbicide Orange and legal claims associated with it, testing on TA C-52A has been restricted because of TCDD contamination identified during previous sampling programs. Since it has been several years since soil samples have been analyzed, it is necessary to resample the area to further define contamination areas and to determine the extent of degradation of TCDD in the soil. Although this sampling program has been designed to concentrate on areas with the highest probability of release for unlimited use, the information may also be useful as a data base for future programs in areas of higher contamination.

SAMPLING STRATEGY

The sampling program will be conducted in four phases, each phase being dependent on the results of the prior phase. If all four of the phases are completed, a total of eight-four (84) samples will be analyzed. Each sample will consist of a four inch core sample taken by DLV and SGPE personnel. DLV personnel will monitor the contract for analyses of the samples.

At the conclusion of each phase a recommendation will be made by Major Shingler (SGPE), Dr Wolfgang (DEEV), and Mr. Harrison (DLV) as to whether the program should be continued into the next phase.

FUNDING

Estimated funding for the four phases of this program is 70K.

PHASE I - Twenty two (22) samples

The objectives of this effort are (1) to determine the rate of degradation from 1974 - present and (2) to determine the extent of contamination on commonly used areas. The data from phase IA will be used to determine the feasibility of identifying larger areas that could be made available for unlimited use by further sampling (i.e. Phases II, III, IV).

- A. Twelve (12) samples from previously determined TCDD contaminated areas. 1974 samples ranged from 30-1500 ppt.
- B. Six (6) samples from major clay roads through TA C-52A.
- C. Four (4) samples from area immediately around 300' tower.

PHASE II - Fifteen (15) samples

The objective of this phase is to determine the extent of contamination in the northwest quadrant of TA C-52A. This quadrant received the least quantity of herbicide during 1962-1970 and has been shown through previous testing to have relatively low concentrations. Data and interpretations will be used to determine the advisability of sampling in more highly contaminated areas (i.e., phase III).

Fifteen (15) samples from northwest quadrant

PHASE III - Thirty two (32) samples

The objectives of this phase is to determine the extent of contamination in the northeast and southwest quadrants of TA C-52A. These quadrants received moderate quantities of herbicides in relation to the remainder of TA C-52A.

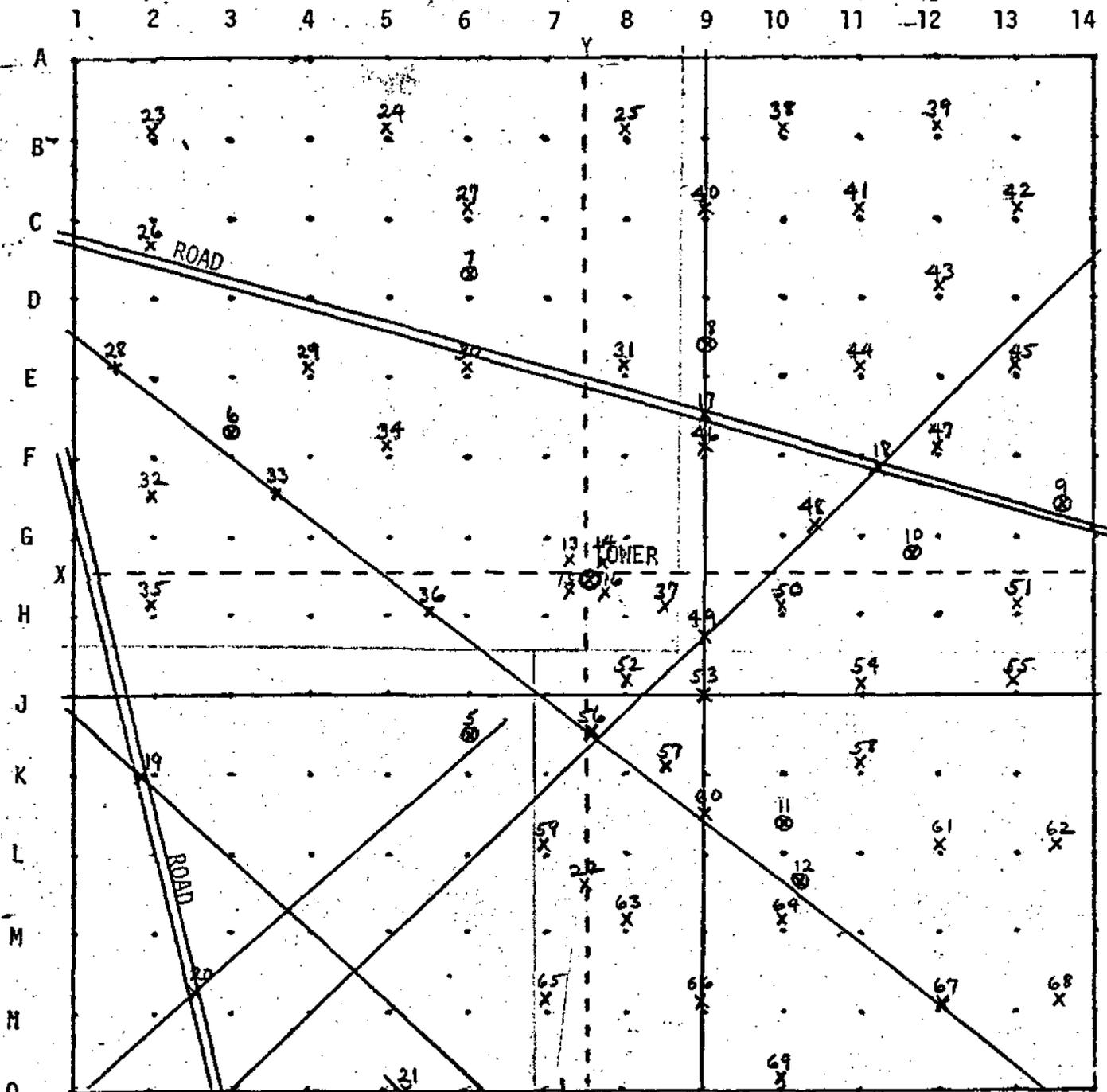
A. Fourteen (14) samples from northeast quadrant

B. Eighteen (18) samples from southeast quadrant

PHASE IV - Fifteen (15) samples

These samples will be used to resolve any problems noted during the performance of previous phases as well as further define the boundary of the area proposed for unlimited use.

Fifteen (15) samples from the three quadrants already sampled.



— FLIGHT PATHS
 • PERMANENT SAMPLING STATIONS
 x PROPOSED SAMPLE SITES

