

DATE: February 25, 1981

cc. J. T. Garrett
 G. W. Buttler

SUBJECT: Analysis of Biological Samples for
 tetrachlorodibenzo p-dioxin (TCDD)

REFERENCE:

TO George Roush, Jr.

At this time facilities capable of analyzing biological samples for the 2,3,7,8 isomer of TCDD are as follows:

1. Prof. Michael L. Gross, Director
 Midwest Center for Mass Spectrometry
 University of Nebraska - Lincoln
 Department of Chemistry
 Lincoln, NE. 68588
 Tel. (402) 472-3507
 (Assistant Director: Phil Lyon)

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SUBJECT TO PROTECTIVE ORDER.

Dr. Gross has been involved in federal government agency and industry work over a period of four years. His group has analyzed a broad range of biological samples of human origin. Until 1979 his analyses were TCDD specific, but not specific for the 2,3,7,8-isomer. His group now has the capability of quantifying the specific isomers down to ppt levels in suitable matrices. They have experience in spiking and recovery of both C¹² and C¹³ 2,3,7,8-TCDD.

2. Prof. Thomas Tiernan
 The Brehm Laboratory
 Wright State University
 Fairborn, Ohio
 Tel. (513) 873-2202 and 2203 (Joe Solch)

This group was extensively involved with the Air Force on the Agent Orange project for monitoring 2,3,7,8-TCDD in blood. Their expertise is in blood work. The project has been severely reduced since 1979 due to changes in interest within the laboratory.

3. Profs. Rudi Buser & Christopher Rappe
 University of Umea
 Sweden

World class capability on all types of human samples. Provides samples of all 22 isomers of TCDD in high purity to all workers involved in this analysis. High credibility.

At this time the Ultratrace Laboratory at MRC, Dayton is reluctant to perform analyses on biological samples. Certain exceptions have been made in the past such as research interest projects; e.g., monkey milk

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and monkey embryos for PCB's, but there is little interest in providing a commercial or routine analytical service for such samples. Despite this, their technology and expertise appears to have developed to world class level.

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