

Archive of DEQ Information Related to Review of the University of Michigan Dioxin Exposure Study (UMDES)

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The University of Michigan Dioxin Exposure Study (UMDES) is a large observational study intended to identify factors associated with levels of dioxin-like compounds (DLCs) in human blood serum in the Midland/Saginaw area of Michigan. The Dow Chemical Company (Dow) and others have suggested that these studies provide results that could be useful to the Michigan Department of Environmental Quality (DEQ), the Michigan Department of Community Health (DCH), and Dow in managing risks of DLC exposure in the Midland and Saginaw areas where DLCs are known to persist in soil, sediments, and biota.

The DEQ requested Kern Statistical Services, Inc. (KERN) to review and evaluate the UMDES for this potential application with focus on:

- Assessing the utility and applicability of the UMDES results;
- Identifying how and in what context(s) they may be used, if appropriate; and
- Determining if modifications are necessary to improve their utility in risk management decisions.

Kern Statistical Services, Inc. completed their review and provided their response to the DEQ on March 3, 2009.

- [Kern Statistical Services, Inc. Review of UMDES Statistical Modeling Methods, Analysis, and Interpretation](#) (3/3/2009)

Communications associated with the previous review:

- [DEQ \(KERN\) Presentation](#) - Meeting with UMDES and Dow (3/30/2009)
- [DEQ Follow-up from Jim Sygo to UMDES](#) (4/2/2009)
- [DEQ 9/28/2004 Letter to David Garabrant](#)- Summary of the 9/15/2004 meeting with the UMDES Team on the Protocol for the UMDES
- [UMDES Letter to MDEQ Director Chester](#) (9/25/2009)
- [DEQ Response to Dr. Garabrant](#) (10/20/2009)

Additional documents available upon request.

***[UMDES web page](#) (Note that references or links in this Web site do not constitute endorsement or recommendation by the DEQ. The DEQ is not responsible for the content of any "off-site" Web page referenced from this server.)