

Archive of DEQ Tittabawassee River Floodplain Information

Agency: Environmental Quality

DEQ CONTACTS

Floodplain Soil and Sediment contamination: [Al Taylor](#), 517-335-4799

Dow License and Community Involvement: [Cheryl Howe](#), 517-373-9881

Toxicity of Dioxin: [Deborah Mackenzie-Taylor](#), 517-335-4715

INFORMATION BULLETINS

- [February 2002](#)
- [August 2002](#)
- [June 2003](#)
- [March 2004](#)

WILD GAME INFORMATION (posted 9/15/2004)

- Department of Community Health (DCH) [Eat Safe Fish and Game - Advisories](#)
- [2008 DCH Wild Game Advisory](#)
- [Map of Wild Game Hunting Area of Concern](#)
- [DEQ 2004 Wild Game Analysis](#)
- 2004 Wild Game Data - DEQ Graphs
 - [Deer Liver](#)
 - [Deer Muscle](#)
 - [Squirrel](#)
 - [Turkey](#)
- [Environmental Protection Agency \(EPA\) Desk Statement](#)
- [EPA Risk Analysis](#)
- [Food and Drug Administration \(FDA\) Total Diet Study for Dioxins](#)
- [Other FDA Links to Dioxin Information](#)

ADVISORIES

- [Soil Movement Advisory](#) (published 6/2003)
- [Fish and Game Advisories](#)
- [Food Farming and Gardening](#) (published 2/2002)
- [Department of Community Health Dioxin Information](#)

SOIL CONTAMINATION

- June 2003 Tittabawassee/Saginaw River Dioxin Flood Plain Sampling Study
 - [Executive Summary of Final Report Phase II](#)
 - [Final Report Phase II \(less Appendices\)](#)
 - [Appendices \(posted July 31, 2003\)](#)
- [Phase II Soils Data and Fingerprints](#)
- [Map of Tittabawassee and Saginaw Rivers, and Saginaw Bay Sediment and Floodplain](#)

[soil data in parts per trillion \(ppt\) TEQ](#)

MAPS OF MIDLAND AREA

- [Michigan Soil Background Dioxin Data](#)
- [Summary of 1983-1998 Midland Area Dioxin Samples](#)
- [February 2004 Preliminary Residential Dioxin/Furan Soil Sampling Results of 22 residential properties in Saginaw County](#)
 - [Aerial Maps](#)

SEDIMENT CONTAMINATION

- [Final Report on the Tittabawassee River Sediment Study](#)
- [Map of Tittabawassee and Saginaw Rivers, and Saginaw Bay Sediment and Floodplain soil data in parts per trillion \(ppt\) TEQ](#)

ECOLOGICAL RISK ASSESSMENT

- [Tittabawassee River Aquatic Ecological Risk Assessment - Final](#). Prepared for the DEQ by Hector Galbraith, October 2003; MS PowerPoint presentation (This file is large and may take a few minutes to download)
- [Dr. Galbraith's Final Aquatic Ecological Risk Assessment Report for the Tittabawassee River](#)
 - [Figure 6-1](#)
 - [Figure 6-2](#)
 - [Figure 6-3](#)
 - [Figure 6-4](#)
 - [Figure 6-5](#)
- [Galbraith Environmental Science comments on Entrix \(2004\) Wild Game Study Report](#) - Presents a discussion of the extent that data contained in the Wild Game Study Report support or refute the conclusions of the two DEQ ecological risk assessments, and the limitations of Wild Game Study Report data in evaluating ecological, rather than human health, risks.
- [Galbraith Environmental Science analyses of data in Entrix \(2004\) Wild Game Study Report](#) - Examines Wild Game Study to determine the extent to which the data support the prediction of the DEQ Screening Level Terrestrial Ecological Risk Assessment that risks to floodplain wildlife species due to dioxin and furan contamination cannot be discounted.
- December 1, 2003 - [Press Release: DEQ Funded Aquatic Ecological Risk Assessment Identifies Risks and Impacts to Wildlife Resulting from Dioxin and Furan Contaminated Sediments in the Tittabawassee River](#)
- [Dow's December 19, 2003 Comments on the DEQ Aquatic Ecological Risk Assessment](#)
- [DEQ's February 4, 2004 Response to Dow's December 19, 2003 Comments on the DEQ Aquatic Ecological Risk Assessment](#)
- [Tittabawassee River Floodplain Screening-Level Ecological Risk Assessment](#)
- [Ecological impacts due to PCDD/PCDF contamination along Tittabawassee River](#) - Discusses to what extent existing dioxin environmental data can be used to identify impacts to ecological resources in the Tittabawassee River study area, as distinct from the risks identified in the Ecological Risk Assessment.
- [Dioxin/Furan sediment and soil guidelines](#) - Identifies certain non-U.S. guidelines or standards for dioxins and furans in freshwater sediments or terrestrial soils.
- [Review of recently published studies on effects of dioxin-like contaminants on tree swallows and mink](#) - Summarizes the findings of three additional studies on tree swallows and mink completed since release of the DEQ Final Aquatic ecological risk

assessment, and discusses the implications for the results of the existing DEQ ecological risk assessments.

- [Pervasiveness of dioxin/furan contamination in the Tittabawassee River watershed](#) - Summarizes current understanding of the extent to which ecosystem components in the Tittabawassee River are contaminated with dioxin and furans, quantifies differences in contamination levels among ecosystem components upriver and downriver of the City of Midland, and compares levels of dioxins, furans, and dioxin equivalent contamination in the Tittabawassee Watershed with those from contaminated sites elsewhere. The memorandum also addresses two further issues: the identification of ecosystem components for which contamination data are sparse or non-existent, and additional steps that could be taken to further clarify the implications of the existing data set.

RELATED LINKS

- [Dioxin Information](#)
- [Dow Hazardous Waste Facility Operating License Information](#)
- [Midland Area Soils Cleanup](#)
- [EPA Region 5: Tittabawassee River/Saginaw River/Saginaw Bay Cleanup](#)
- [Archived Information Related to Dow's Offsite Cleanup](#)
- [Michigan Department of Community Health Dioxin Information](#)