

10 Mile Drain Summary as of 8-11-2005:

In 2002 the EPA dredged the Lange street canals and removed PCB contaminated sediments from the drain by vacuuming and powerjetting approximately 1 1/4 miles of the TMD concrete piping. Macomb County Public Works also conducted sediment removal along 4 1/4 miles of the concrete piping and installed steel plates near the TMD outlet structure to serve as a trap to prevent any future PCB contaminated sediment from entering the canals.

Sediment and water samples were obtained following the cleanup to verify acceptable levels of PCBs within the drain and canals. In addition, quarterly monitoring of the sediments and water within the drain are being conducted.

During quarterly monitoring of water and sediments within the TMD piping during 2003 - 2004, PCBs were again detected in elevated concentrations (100,000 ppm). Due to this, during April - May 2005 DEQ & EPA conducted additional investigations of the drain and surrounding area to determine the source area.

Based upon results of the DEQ/EPA investigations, the area of greatest concern is the section of drain, surrounding fill material, and adjacent clay soils at the intersection of Harper and Bon Brae street. This section of the drain passes through an area measuring approximately 100 feet x 125 feet.

Within this area, elevated PCB levels as high as 31,820 ppm are primarily located 9 – 15 feet below ground surface in the sand/gravel fill and adjacent clay soils surrounding the large, 6 foot diameter, concrete drain.

Two holes were identified in the drain near the location where the highest soil PCB concentration was detected. One of the holes is approximately 1 foot in length. One theory is that PCBs previously present inside the drain, made their way into the surrounding sand/gravel fill material through these holes. Following the cleaning of the drain, these contaminated sediments appear to be slowly re-entering the drain, in part, through these type of openings.

DEQ has contracted Weston Solutions to perform a focused feasibility study (FS) to determine the best way to address the problem and provide corresponding cost estimates. Weston plans to have this report completed by the beginning of September for DEQ/EPA review. A stakeholder meeting is anticipated in early October to discuss DEQ/EPA course of action based upon the FS.

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