

## Illicit Discharge Elimination Program (IDEP) Phase 2 Macomb County, Michigan

The Macomb County Public Works Office (MCPWO) IDEP Project is part of an ongoing effort by the County to reduce the amount of pollution entering the Clinton River and Lake St. Clair. The County received grants from the Environmental Protection Agency (EPA) to develop the IDEP program, the purpose of which is to locate sources of cross connections or illicit discharges into the storm system.



### OWNER / CLIENT

Macomb County Public Works  
Commissioner

### PROJECT START - END

October 2004 - June 2006

### SDA PROJECT NO.

OM04-015

**Spalding DeDecker Associates, Inc.** was contracted by the MCPWO to assist in the implementation of the IDEP Program. SDA developed the Quality Assurance Project Plan (QAPP) for the Grant of behalf of the County and to perform the inspection of the large enclosed drains. The Schoenherr Relief Drain is a major storm water conveyance trunkline owned and maintained by the MCPWO. The drain serves as one of the primary storm water conductors for the City of Warren. Initial sampling at the drain outlet indicated the possible presence of illicit connections.

SDA was responsible for inspecting and sampling the entire length of the Schoenherr Relief Drain, including:



- 2,600 Linear Feet of 12' Diameter Pipe
- 8,000 Linear Feet of 14' Diameter Pipe
- 9,000 Linear Feet of 14'6" X 14'6" Box
- 21,000 Linear Feet of Twin 13' Horseshoe Boxes

The purpose of the Schoenherr Relief Drain inspection was to locate and, if possible, identify sources of illicit discharge into the storm sewers. In addition, the inspection provided valuable information as to the existing condition of the drain and the location of all 144 taps. The inspection included sampling at each potential source of inflow and televising the interior of the sewer.

### SPECIAL FEATURES

SDA worked closely with MCPWO to document over 144 taps. Samples were collected from the 86 taps where water was present and 15 samples were taken from the drain itself. Samples were tested for E.Coli, detergents, color, turbidity, and chlorine. Sewer inspection was performed using confined space entry procedures, with Certified Confined Space Entry & Tunnel Rescue from SDA. Protective clothing, full body harnesses, and Emergency Breathing Apparatuses (EBA) were used by sewer specialists and attendants to complete the task.