

**Title: Update WWAT user interface to display registration information**

**Investigators:** Andrew LeBaron, EGLE; multiple DTMB staff to be determined

**Problem statement:**

The WWAT was designed for assessment and registration of new large quantity water withdrawals. The user submits the intended withdrawal construction and operation characteristics as an application to obtain a registration. The withdrawal's characteristics, and the projected impact of operating the withdrawal on the local watershed(s) as calculated by the WWAT, are stored in the WWAT's supporting database. The cumulative impact of registered withdrawals is also stored in the database in a numerical accounting table and is accessed internally by the WWAT to produce the results output to the user. None of the WWAT's data on registrations, their individual impact, or their cumulative impact and the current status of a watershed is available to the user in a readily accessible form. This information could be useful to WWAT users for proposing prospective withdrawals, existing water users for watershed planning, or to other interested parties.

**Project description:**

EGLE and DTMB staff will develop a methodology to effectively communicate information from the WWAT database to users through the WWAT's interactive map interface. Minimally, a GIS layer of point data sourced from the WWAT database will be created by EGLE. DTMB will program the WWAT application code to access the layer and make it available for interactive user query.

**Contract budget:**

**Budget narrative:** This project is a collaboration among Michigan EGLE program staff and DTMB application development and enterprise GIS staff. Analysis and project development will be accomplished via existing EGLE resources and interagency billing with DTMB. Additional input will also be sought from experts associated with technical aspects of the WWAT (J. Asher, MSU, Institute for Water Research) as needed.