



Project Goals:

Read More about the Big Eau Pleine Flowage

The objective of this project is to provide multiple years of sediment and nutrient data to be used for the development of a TMDL for the Big Eau Pleine Watershed. Chemistry, physical, habitat and biological data will be collected over multiple years by combining monitoring efforts of The Wisconsin Valley Improvement Corporation, a citizen volunteer monitor, and DNR biologists.

Specifically, the project will provide multiple years of monthly tributary monitoring along with streamflow (already monitored by USGS) to provide more accurate loading estimates from the watershed. The project request funded the cost of sample analysis, postage and volunteer travel. This project began in FY10 and continues to the present day.

The citizen volunteer has collected monthly samples since July 2007 and the continuation of monthly sampling through June 2011 helped provide mulitple years of loading data from three tributaries to the Big Eau Pleine Reservoir: the Big Eau Pleine River, Freeman Creek and Fenwood Creek. Monthly water chemistry samples have been analyzed for suspended solids, total phosphorus and dissolved phosphorus. In addition to the water chemistry samples, field parameters of dissolved oxygen, temperature, pH and turbidity tube measurements were collected during each visit. The data from this study will be analyzed by WDNR biologists and included in a summary analysis of conditions during the development of a larger study of impaired waters in Central Wisconsin. This information will be used with other data collected by DNR to calculate nutrient and sediment loads to the flowage from the watershed. The information will also be used with a response model (BATHTUB) to determine how the flowage responds to phorsphorus increases and decreases from the watershed.