

We Energies
2012 Annual Report - Nuisance Plant Control Survey
Pine Reservoir
FERC Project #2486

We Energies' Environmental Department staff, Mr. Mike Grisar and Mr. Bill Braunschweig, conducted a survey from a boat of the entire shoreline at the Pine Reservoir project on July 31, 2012. All waters and appropriate wetlands accessible from the boat were evaluated. Those species targeted for the survey included purple loosestrife (*Lythrum salicaria*) and Eurasian water milfoil (*Myriophyllum spicatum*). The visual meander survey included areas of shallow water adjacent to the shorelines. Shallow water was surveyed to a point where the water depth and clarity excluded visibility conducive to observing submerged vegetation.

No stands of Eurasian water milfoil or purple loosestrife were documented from visual observations along the shores of the Pine Reservoir in 2011. A genetics analysis of Eurasian water milfoil was conducted each year between 2010 and 2012 under a separate project funded by the Wilderness Shores Mitigation Enhancement Fund. In 2010, all analyzed stems were determined to be pure strain northern water milfoil (*Myriophyllum sibiricum*). In 2011, this analysis determined hybrid Eurasian water milfoil was present in 2011. Of the 2011 stems analyzed, two individual stems were genetically determined to be a hybrid. The stems analyzed in 2012 were all determined to be pure strain northern water milfoil. The morphological characters displayed by the milfoil in the Pine Reservoir are not conclusive to be able to distinguish between pure strain northern water milfoil and the hybrid when the hybrid is present.