

## Munson-Fox LWQMA



**Figure 5-8. Munson-Fox LWQMA.**

The Munson-Fox LWQMA contains about 1,350 acres (**Figure 5-8**). The only lakes in this LWQMA are Munson and Fox Lakes. Both are small lakes, at 129 and 138 acres, respectively, but both are also elongated, giving them good amounts of shoreline. Both lakes are fed by groundwater and have adjacent wetlands and some shoreline runoff, but neither has a significant inlet stream. Both lakes have small outlets.

Both Munson and Fox are heavily used for game-fishing, boating and other summer and winter recreational activities. Munson Lake has a public access, and therefore provides recreational opportunities to non-residents as well as residents.

Munson and Fox lakes have relatively small watersheds. Land within these watersheds is a little more than 25 percent forested, and 50 percent cultivated, grassland or pastureland. Less than 2 percent is covered by impervious surface. Some major gravel mining operations are found in the area.

Much of the shoreline around Munson and Fox is heavily developed. There have been extensive modifications to the shorelines as a result of riprap, retaining walls, shore-impact zone structures, and the addition of sand blankets. The occurrence of these shoreline alterations has increased in recent years, as have the number of boats. Given the Munson-Fox LWQMA's proximity to Detroit Lakes, development is expected to continue on the shorelines and farther from the lakes.

Both Munson and Fox have relatively good water quality and have had stable phosphorus and water clarity readings for the past 10 years. There are no known major upstream phosphorus sources. Shoreland development and agricultural practices surely provide some phosphorus load, and the nutrient load from gravel mining, if any, is not known. In addition, Fox Lake residents have formed a lake association and have expressed interest in helping monitor water quality and other parameters.