

# CHISAGO LAKES GOLF COURSE

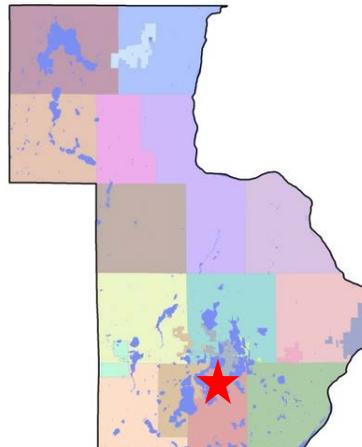
## WATER QUALITY PROJECTS

The Chisago Lakes Golf Course water quality projects are a joint venture between the Chisago Lakes Golf Course, the Chisago Lakes Lake Improvement District, and the Chisago Soil and Water Conservation District.

Next to the clubhouse, a two-cell rain garden captures runoff from the parking lot and clubhouse roof. Water is allowed to infiltrate in the garden and be used by native plants.

In the ditch between the parking lot and 292<sup>nd</sup> street, two vegetated swales were installed. Periodically throughout the swale, there is a small berm of dirt. These ditch checks hold water back to allow it to slow down and soak in. The native species planted in the swales are able to tolerate ponded water for a short period of time.

The largest swale is located along Hole 10 of the course, between a pond outlet and a culvert. The area is naturally low lying and often has water standing in the bottom of the swale. Instead of trying to maintain turf in the area, the golf course has installed thousands of native grass-like species that will do well in the wet conditions. The grasses will help infiltrate and filter water before it leaves the golf course property.



### Partners:

Chisago Lakes Golf Course  
Chisago Lakes LID  
Chisago SWCD

### Pollution Reduction:

TSS: 1655 lb/yr  
TP: 4.7 lb/yr  
Vol: 4.1 ac-ft/yr  
(WinSLAMM)

### Targeted Water:

South Center Lake  
South Lindstrom Lake

### Completion Date:

August 2012

### May I Visit?

Yes – The rain garden and two swales are gardens are located on the North side of the Clubhouse and parking lot. The other swale is along Hole 10.

