

# BRIAN OLSON

## GRASSED WATERWAY & DIVERSION



Over many years of conventional farming a small gully had formed on a very steep agricultural field in Center City. This small gully fed a larger gully that carries sediment and phosphorus directly to North Center Lake.

A diversion was installed along the field to send runoff water to the established vegetated road ditch, instead of through the farm field. The vegetation in the road ditch helps to filter the runoff and removes sediment and phosphorus.

The grassed waterway is a permanently vegetated strip of land that was shaped to accept water from the field and carry it safely to the bottom of the slope without increasing erosion along the way. The producer will not till the field in the fall, which will reduce erosion during the non-growing season and also will be using conservation tillage practices on this property. Together, these practices are keeping 3 pounds of phosphorus out of North Center Lake.



### Partners:

Landowner  
Chisago Lakes Lake Improvement District  
Chisago Soil & Water Conservation District

### Pollution Reduction:

Total Suspended Solids: 3 tons/year  
Total Phosphorus: 3 lb/yr  
(BWSR Spreadsheet)

### Targeted Water:

North Center Lake

### Completion Date:

Summer 2016

### May I Visit?

No – These projects are entirely on private property. Please respect private property.

