

TCSWCD,s Nutrient Reduction Report - Keppers Farm

This is a summary of the nutrient reduction into Van Heel Creek.

Biological Oxygen Demand (BOD). Amount of Dissolved oxygen needed to break down (oxidize) organic materials to Carbon Dioxide, water and minerals in a given volume of water at a certain temperature over a specified time period.

BOD5 is what the MNfarm looks at and this is the time period of 5 days and is measured in pounds/year.

P is phosphorous and is in pounds/year.

Tom's project is collecting all feedlot runoff, therefore no feedlot runoff is entering the creek. Tom has reduced the amount of BOD5 (232 pounds) and Phosphorous (20 pounds).

MPCA limits on Tom's farm (this is what MPCA would allow to discharge) BOD5 125 pounds, Phosphorous 5 pounds. Tom has eliminated all runoff.

Phosphorous Facts from MPCA:

One pound of phosphorous can produce 500 pounds of aquatic vegetation.

Phosphorous is recognized as the limiting nutrient in most lakes.