

### SCOPE OF PROJECT

**BARKER LEMAR** began working with the city of Creston's park and recreation board to develop a master improvement plan for McKinley Park and Lake McKinley. As part of the planning process, recreational use of McKinley Park (and the required water quality) became a primary concern for the residents of the city of Creston. After analyzing water quality data from the watershed, **BARKER LEMAR** staff identified high levels of contaminants entering the watershed after large storm events. Upon further investigation the Creston Livestock Auction, Inc., located within the Hurley Creek Watershed and inside the urban district of the city of Creston, was identified as a probable generator of discharge entering the storm sewer and the primary waterway entering Lake McKinley.



The storm water runoff from the animal paddocks, animal trailers, and the livestock auction's parking lot carried sediment and animal waste into a storm sewer inlet which then discharged into Hurley Creek.

### IMPLEMENTATION

To help attenuate the run off, **BARKER LEMAR** identified a federal grant to design and construct a bioswale infiltration system to retain storm water runoff and to absorb contaminants from the animal waste.



This system was designed and constructed to reduce or eliminate the contaminants entering Hurley Creek from a five-year storm event.

### SERVICES

Grant development services; bioswale design; construction observation.

### TIMELINE

Project Start Date: Fall 2007

Project Completed: Spring 2008