



# CITY OF GLENWOOD RAVINE REPAIR PROJECT



## PRACTICE:

Ravine Repair

## YEAR CONSTRUCTED:

2012

## COMPONENTS:

3 rock check dams, inlet structure, underground water line with line access, chimneys, control structure, culverts, and rip rap

## BENEFITS:

WATER QUALITY

## PARTNERS:

CITY OF GLENWOOD

POPE SWCD

WSN

## WATERSHED:

CHIPPEWA RIVER WATERSHED

## POLLUTION REDUCTION

### ESTIMATES:

603 TONS/YEAR SEDIMENT

512 LBS/YEAR PHOSPHORUS

### PROJECT TOTAL COST:

\$162,738.49

### CITY'S SHARE OF PROJECT COST

\$84,719.75

### GRANT:

BWSR CLEAN WATER FUNDS  
AWARDED TO POPE SWCD



*Photo Credits: Pope SWCD*

## PROJECT DESCRIPTION:

The City of Glenwood (City), Pope Soil and Water Conservation District (SWCD) and Wiseth Smith & Nolting (WSN) have taken an active roll in protecting the water quality to Lake Minnewaska this was accomplished through partnership and identifying project areas in the Stormwater Management Plan. The City was divided into 5 drainage areas. State Highways contribute runoff through the City. Estimated runoff in the Dairyland Basin ranges from 39 to 97 minutes before the stormwater reaches Lake Minnewaska. Stream monitoring has shown that most of the pollutant loading is coming in storm events.

The highest priority projects were located in the Dairyland Basin. This covers 462 acres with only 26% of that within the City and has 82.9 acres of impervious surfaces and 379.1 acres of pervious surface. Ravines were found originating from highway 55 and have been the worst in the last 10 years. The ravines measure 20' to 30' deep in some places. The project repaired the ravine using 3 check dams, an inlet structure, underground water lines, a control structure, and rock rip rap.