**Project:** Reduce sediment loads into a DNR wetland by stabilizing a 30-ft wide x 100-ft long x 12-ft deep ravine caused by a storm sewer outlet at the top of a steep wooded slope. A series of diversion berms and riser inlets connected to 200-ft of 15" pipe were constructed to intercept and convey stormwater to the base of the hill where an energy dissipation structure will prevent erosion and scour at the pipe outlet.

**Costs:** Project costs were $6,500 for engineering and $21,307 for materials and installation for a total of $27,807.

**Funding:** Dakota County SWCD provided technical assistance and Conservation Cost Share funding in the amount of $4,000 and Non-Point Engineering Assistance of $6,500 for a total of $10,500.

**Location:** Eagan
Minnesota

**Practice:** Ravine Stabilization

**Benefits:**
- Reduced erosion & sediment into receiving wetland
- Improved aesthetics
- Improved water quality
- Slope stabilization

**Watershed:** Minnesota River

**Construction:** October 2007

**Partners:**
- Surrey Heights Homeowner’s Association
- Met Council
- City of Eagan
- Board of Water and Soil Resources
Surrey Heights Ravine Stabilization

View from the base of the slope prior to work

Eroded channel created by concentrated surface flow

Installation of 15" HDPE dual wall storm pipe and 12" Hickenbottom riser system

View of the completed project from the base of the slope

Grade stabilization structures and inlet riser pipes installed along the slope

View of the completed project from the top of the slope

Compaction of disturbed and backfilled areas

Backfilling excavated areas

Energy dissipation structure installed at the outlet to prevent further erosion and scouring

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