

LANDOWNER: Fred & Merna Salmon

LOCATION: 1713 S Balsam Lake Court

LANDSCAPER: Pro-Lawn



#### PROJECTS:

- Infiltration Pit
- Downspout Burial
- Native Hillside Plantings

PROJECT: Infiltration Pit

AREA: 54 square feet (1,500 gallon holding capacity)

COST: \$3,250



ISSUE: The property is located on a hillside between the road and the lake. During rain events, all the water from the road, parking area, and garage runs down the tote road on their property. This causes severe erosion and washout along the tote road, as well as pooling of water in the lower, flatter areas of the yard.

SOLUTION: An infiltration pit was constructed to capture the rainwater and allow it to soak into the soil. The pit itself was dug into a vegetated area in the upper portion of the yard. Aquablox—a matrix of hollow plastic cubes—were placed inside the pit and wrapped in filter fabric to prevent sediment from entering and reducing the holding capacity of the blocks. Water is then directed into the pit by means of a large drain-type structure placed on the road and connected to the blocks via draitile. Additionally, repairs were made to the tote road to prevent further erosion.



BEFORE





AQUABLOX







AFTER





PROJECT: Downspout Burial

AREA: 320 square feet of roof area draining to downspout

COST: \$640



ISSUE: The house is fitted with gutters, but the downspouts are directed down the hill and towards the lake. Due to the amount of water that is discharged from the downspouts, there was significant erosion occurring, especially at the output on the northeast corner of the house. As a result, it was a real challenge to grow and mow the lawn, and attempts at plantings were unsuccessful. The water was also pooling in the low areas of the yard where the clayey/rocky soils didn't allow it to soak into the soil.

SOLUTION: The downspout was buried and now drains underground.



BEFORE



AFTER



PROJECT: Hillside Planting

AREA: approximately 700 square feet

COST: \$1,400



ISSUE: The excessive amount of water flowing down the yard—both from the tote road and the downspouts—was causing erosion of the hillside.

SOLUTION: Native plants and shrubs were planted on the hillside. Their deep root systems should serve to anchor the soil in place and encourage infiltration of any surface runoff. New grass was seeded at the base of the tote road. A netless erosion control blanket was used to keep the seeds in place until the lawn is established.

BEFORE







AFTER

