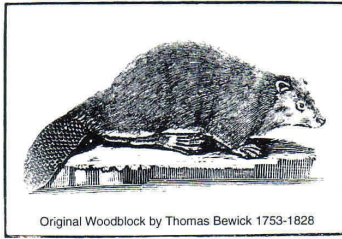


Little Beaver Creek



Land Foundation

Erosion & Sedimentation

EROSION

Erosion occurs when soil and other particles are detached from banks and channels, then displaced down stream, due to flowing water

Water flowing through it's channel has the potential to transport soil and substances supplied to it from seasonal flooding and/or runoff

The majority of erosion takes place during times of flooding, this is due to the fact that streams/creeks are flowing faster, deeper, and wider

The increased turbulence due to flooding may also result in substances and soil churning up and joining the water flow

Eroded soils may contain pollutants— which are then carried farther down stream, diminishing the water quality

Although erosion is a natural process, it can create problems for the surrounding habitat when the process is accelerated due to human activities (deforestation, urbanization, or overgrazing)

Well established riparian zones reduce the ill effects of erosion

Heavy-use pads also aid in reducing erosion by impeding the soil on the bed of streams and creeks from joining the water flow

SEDIMENTATION

Sedimentation is the depositing and later settling of soil and substances onto stream/creek beds

Water quality can be diminished due to excess sediment

The likelihood of sedimentation is greatedened when soil erosion occurs, it is often the result of uncontrolled erosion

The effects of sedimentation are long lasting, due to the fact that the soil and particles will be deposited and re-suspended in the water flow until they are deposited into lakes or rivers

Sedimentation (and erosion in turn) causes a loss in fertile topsoil, the filling of streams and lakes, and damage to animal and plant habitats

The amount of particles in the water has adverse affects of aquatic organisms that rely on light—more light is reflected and scattered, rather than absorbed, when stream water is cloudier, these particles are referred to as turbidity

Silt fences aid in minimizing the total amount of soil deposited from surface runoff during the phases of construction

Sedimentation ponds are another way to control the amount of sediment that enters streams and trap surface runoff water

LITTLE BEAVER CREEK LAND FOUNDATION

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