Name(s)

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Project Number

J1106

Project Title

It All Flows to the Ocean

Abstract

Objectives

Our goal was to see if the change of slope effects how well a bioswale filters water.

Methods

We built a bioswale that we could change to different slopes, and poured polluted water down the bioswale. Then we tested the water with a turbidity meter.

Results

We filtered polluted water through a bioswale, setting the bioswale at three different slopes: 3%, 6%, and 10%. then we tested it with a turbidity meter. The water was filtered the best when the bioswale was set at 6%.

Conclusions

Multiple trials revealed that when bioswales are set to a 6% slope they filter water the best. This means that a 6% slope can give the best results when filtering pollution out of water.

Summary Statement

Our project is about filtering polluted road runoff with bioswales before the water reaches a storm drain and flows to the ocean to enter the water cycle.

Help Received

We got help from a Hydrolic Engineer, as well as from books supplied by Cal. Trans.