

## **Executed project report**

## Slope restoration in Nestlé Waters bottling plant in Viladrau, Girona

Review and execution: Naturalea **Customer:** Excavaciones Rossell

Starting and ending date: January 2012







## INTRODUCTION

After several efforts to adapt the external slopes of the Nestlé Waters bottling plant to efficiently manage surface water runoff, a slope of 16m length and 40m width with slopes of 45-55° was generated.

Land was composed by sandy material that considerably reduces its stability. For this reason it had to be consolidated with a system that ensure surface protection and accelerate the revegetation process.



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## Slope protection with organic netting and runoff control rolls.

The work consisted of the installation of a coir net to cover the entire slope and the use of rolls to control the water runoff.

These rolls aimed to avoid that surface water runnoff generate preferential pathways, increase soil stability, and act as reservoir of organic matter and humidity.

The planting was carried out on the rolls to take advantage of the favorable conditions that they generate which in turn reduces the maintenance of the introduced plant. The plantation consisted of authoctonous shrub species and a mixture of herbaceous seeds that will quickly colonize the area and protect them against erosion.





Initial view of the slope and evolution of the actions.



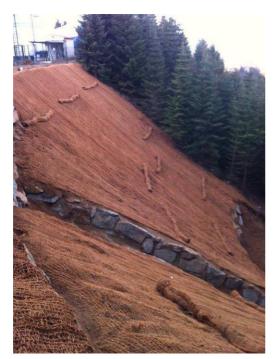






Detail of some actions







General view of the slope after the restoration actions





General view of the slope after a few months during the revegetation period

**KEY CONCEPTS**: slope restoration.

**TECHNIQUES APPLIED**: organic netting, runoff control rolls, manual seeding, plantations.

