



## Shoreline Protection Project

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### Objective

The State of Idaho Department of Fish and Game and Ducks Unlimited, in a joint venture, wanted to do a shoreline protection project in Idaho. The project was to protect the Duck & Geese that nest on islands in the Pack River Delta. The Project was started in May 2009.

### Geotube® container sizing

Geotube® containers are manufactured from high strength polypropylene fabric and designed to allow effluent water to escape through the pores of the fabric while retaining the chemically conditioned solids. The containment location selected at the site allowed

for 34' x 150' Geotube® units to be installed.

### The Result

Clearwater Dewatering and WaterSolve LLC, worked with Idaho Fish & Game, Ducks Unlimited, and their contractor to place the Geotube® units and scour apron in front of the island to make a wave break. Sand was pumped into the bags from a pit dug on site. The sand was pumped into the Geotube® units using Godwin pumps. Flat ends were used on two ends of the units so they would butt up tight and not leave a gap where they could wash out. After the units were filled, dirt was pushed in behind and over the top of the units to look natural.



Geotube® unit laid out on scour apron ready to start filling.



Filling Geotube® units using flatend technology.

