

CASE STUDY

Geocontainer

Project: Lake Whakamaru Ski Club
Date: October 2010
Client: Chris Brasell Landscapes Taupo
Location: Lake Whakamaru



ELCOROCK® Bags

Significant erosion has occurred at various places around the lake edge. This can be attributed to changing water levels in the lake affecting the plant growth needed to hold the soil together. This included the frontage to the Whakamaru Ski Club, where the erosion was threatening to compromise the stability of the concrete boat ramp and reduce the available recreational space.

The erosion also formed a significantly steep bank at the waters edge limiting access to boats for club members. The need to climb up and down the bank to access boats has further increased bank erosion reducing the length of natural shoreline available and creating a safety hazard.

The client required a simple but effective solution to enable the current activities of the club to continue in a more safe manner. The solution had to be aesthetically pleasing and environmentally sound.

Options such as a rock armour or stone revetments were considered, but with the high boating activity involved, this solution was not seen to be practical due to the potential for damage to boats and the concern for safety of members needing to climb over rocks to access the lake.

ELCOROCK® are extremely robust user friendly geotextile containers designed to be filled with local materials. The high resistance to puncture and abrasion along with the flexible nature of the product provided a soft solution making it ideal for improving the amenity of this site. The design allowed for the activity of boats over the shoreline as well as human traffic, without damage being incurred to either party.

ELCOROCK®, filled with locally sourced materials, was used to rebuild the shoreline. This provided a benefit in cost of construction with minimal environmental impact. **ELCOROCK®** can be filled using Geofabrics supplied filling frames and placed with standard earthworks equipment making it ideal for lake edge applications.



Pre-installation



ELCOROCK® containers being placed



Finished project with ELCOROCK®

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