

JML CONTRACTS

BUILDING & CIVIL ENGINEERING SERVICES



Gabions: Loch Tay, Perthshire

PROJECT:
GABIONS: LOCH TAY,
PERTHSHIRE

CLIENT:
PRIVATE

MAIN CONTRACTOR:
LYON BUILDING
SERVICES LTD

DESIGN & INSTALL:
JML CONTRACTS LTD

Project overview

A series of severe winter storms in the past few years have caused heavy erosion on the banks of Loch Tay and stabilisation was required at this site to prevent further damage. The site comprised a graded garden leading down to the shoreline, where a bespoke pontoon provided access to the water. This had been damaged previously in the storms and was removed to allow for repair work to be carried out on dry land.



THE ARNS, AUCHTERARDER, PERTHSHIRE, PH3 1EJ
Tel: 01764 663271 Email: info@jmlcontracts.co.uk
www.jmlcontracts.co.uk





Gabions: Loch Tay, Perthshire

Challenges

Various challenges were encountered in this project due to the site's location and its limited access points. A very steep banking meant wagons could not gain access to the shoreline and therefore all materials had to be run in and out by a dumper from the main road. In addition, working in and around an environmentally sensitive body of water required liaison with SEPA to ensure all works were carried out within its strict guidelines. Specific to this was working during low tide levels in the summer, meaning there was only a restricted window of access and therefore effective and efficient project management was essential.

Services delivered

We carried out all enabling works on the project including the removal of existing trees and damaged concrete defences. The eroded tideline was reclaimed and the bank regraded, including the septic tank outlets and ground water drainage pipes. Heavy-duty needle-punched geotextile fabric was placed within the foundation and 300m² PVC woven mattresses installed with a 1m toe buried into the shoreline to prevent further scouring. Excavators were deployed to carry out bank regrading, foundation preparation and installation of large rip-rap boulder breakwaters to protect the new jetty. The supply and installation of fifty linear metres of Reno mattresses was completed with 80-100mm graded basalt and an additional 20m³ of gabion walling was placed to facilitate the creation of a new stairway down to the jetty.