



ROESS_group



Project report

AquaRockBag solution used
for temporary repair and
prevent collapsing after
flooding Matlock UK



Site location

The site is located in Matlock in Derbyshire UK

Initial situation pre AquaRockBag®

After heavy flooding in February 2022 the small historical town Matlock in Derbyshire, UK, had a lot of erosion in residential areas near the river and scour erosion around the historical bridge.



Design solution for preventing further collapse of flooded area and costs

The work currently involves lifting 600 2t bags of aggregates into the river from the A6 to form a working platform for piling works to take place.

Temporary repairs were carried out to the flood defence by Jackson Civil Engineering earlier this year following the initial collapse using 50 rock filled bulk bags which were put in place using a mobile crane sited on the A6.

A further 100 bulk bags were put in place in April to minimise the risk of further erosion while geotechnical investigations were undertaken to support the design of the long-term solution.

The newly-installed crane will be used to reinstate permanent flood defences at the site.

“The large 800t crane situated on the A6 is helping us to carry out essential work on reinstating the flood defences on the River Derwent. This involves lifting materials and machinery across the river to where the replacement river wall and flood wall will be constructed.

“It will be in place until at least the end of the year and will then either remain in situ to enable the cladding of the sheet piles to take place or return in the spring when the weather is more conducive to the works being carried out.

Reasons for choosing AquaRockBags[®]

- The AquaRockBag[®] filling and installation process is quick, safe and easy which results in big savings on labour costs. (In this project the bags were pre filled and transported to the site and immediately installed.)
- The AquaRockBag[®] provides unique solutions for temporary support in emergency situations where life and property are on the first place.
- AquaRockBags[®] absorb water energy, preserving natural processes and minimizing the impact on the substrate.
- The AquaRockBag[®] in this case due to the high performance will remain 18 months.



Project pictures during installation



Project pictures after installation



