



## Loose Fill – Cleeve Overbridge



### Project details:

Network Rail commissioned the Contract for the Cleeve Overbridge Embankment Stabilisation. The upgrading work has enabled the embankments to support the subsiding road leading up to the bridge. This will help cope with the increased road haulage traffic-flow travelling to and from the surrounding industrial estates.

The 10 week period embankment strengthening and stabilisation project involved stripping and piling the four embankments leading to the bridge. Some areas also received mass concrete footings prior to installation of pre-cast concrete and in-situ concrete shear retaining walls.

Drainage has been improved by installing Lytag<sup>®</sup> Geofill<sup>®</sup> L2. Lytag<sup>®</sup> Geofill<sup>®</sup> is a strong and ideal medium for land drainage. Its particle size, rounded shape and regular grading give excellent hydraulic conductivity.

Lytag<sup>®</sup> Geofill<sup>®</sup> lightweight aggregate also reduced the dead load and lateral pressures on both foundations and retaining walls due to being approximately 50% of the weight of 'normal' aggregate. The spherical shape of the aggregate minimises required compaction.

Following the work the embankment was re-profiled. The road surface has also been programmed for future replacement.

### Project:

Cleeve Overbridge  
embankment stabilisation,  
Bishops Cleeve,  
Gloucestershire

### Date:

August 2010

### Client:

Network Rail

### Structural Engineer:

ARUP

### Main Contractor:

Dyer & Butler Limited

