

## Case Study: Flood Defence Bund, Woldingham, Surrey

### Products: Geoweb® GW30V4 & Geojute



Following the catastrophic flooding of early 2014 temporary reservoirs were put in place to slow and divert the Caterham Bourne, an underground watercourse which had swollen following the excessive rainfall. During the summer more permanent defences were constructed comprising bunds surrounding storage areas for 10,000m<sup>3</sup> of water.

The surfaces of these bunds were composed of 1600m<sup>2</sup> of 100mm deep Geoweb Slope Protection System. Geoweb was selected as having the most suitable installation method including patented tendons which allowed the Geoweb to be installed without puncturing the impermeable liner that forms the waterproofing element of the Bund.

Once the impermeable liner and its protection fleece had been installed a deadman pipe was buried in the anchor trench with the ends of the tendon secured to it. When the trench had been filled ATRA Anchors were sunk into the top of the embankment. The top edges of the Geoweb panels were fastened to these anchors and tendon was threaded through the I-SLOT in the Geoweb panels as they were expanded down the slope.

ATRA Tendon Clips are load transfer devices to transfer slope gravity forces from the Geoweb® cell wall to the tendon. The device engages securely with the Geoweb cell wall, allowing hands-free connection while securing the tendon.

GeoJute was installed over the filled Geoweb panels. GeoJute is a lightweight 100% biodegradable erosion control net which allows vegetation to establish while it degrades over 1-2 years adding to the organic content of the soil.



Client



Contractor

