

GRID—Littledown to Cleeve Hill Pipeline

Overview:

Site Location:	>> South Western Region
Client:	>> Wessex Water



The Littledown Reservoir to Cleeve Hill scheme was part of the major redevelopment of the water supply network within the South Western Region of Wessex Water known as the 'Grid'.

This particular section involved the open cut and laying of approximately 9km of supply main comprising of 1.4km 630Ø PE pipe, 1km 600Ø DI main and 6.8km of 500Ø DI main. Works also involved 6No road crossings and a number of small water courses.

The route of the pipeline incorporated a steep escarpment of approximately 25 to 30 degrees at Kingsettle Wood. Due to the geotechnical sensitivity of the embankment, together with the design team, Lewis Civil engineering developed a safe system of work to enable this section to be constructed.



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Due to the steep angle, there was a relative risk of slope instability and washout of the backfill material. To ensure stability throughout and post construction, the trench was hand dug and backfilled with bagged granular material, with a geocell grid placed over the entire topsoil stripped area.

The area was then planted with native species to provide long term stability. Throughout construction the slope was monitored for any signs of movement, of which there was none.

Lewis Civil Engineering liaised with SSE to isolate the existing overhead HV powerline for the duration of the works.

There was a further 1km of geotechnically sensitive ground conditions, where dormant landslides had been recorded. Special working methods were adopted and the design required that the pipe should be wrapped over this section.

Overall, the Scheme was delivered safely, both on time and on budget .

All geotechnical and environmental factors were accounted for which is testimony to the construction teams skill and knowledge.



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