

PIPE JACKING CASE STUDY

Pease Pottage Sewer Upgrade



www.pipejacking.org

PROJECT Pease Pottage Sewer Upgrade

CLIENT Thames Water

CONTRACTOR Terra Solutions Limited

TUNNELLING MACHINE Herrenknecht AVN 600 & 1000



PROJECT OVERVIEW

The Pease Pottage sewer upgrade works formed part of an extensive programme of capital investment by Thames Water to upgrade its infrastructure. Work included the replacement of 2.3 km of rising main and gravity sewers, the construction of a 7.5m diameter sewerage pumping station and of a 2.5m diameter attenuation tank to hold and release sewage in a controlled manner.

A new trunk sewer was installed to connect existing infrastructures across the busiest feeder junction to the M23 and construct a new manhole in the centre of a dual lane roundabout.

DESCRIPTION OF WORKS

Terra Solutions carried out two micro-tunnelling drives using their Herrenknecht AVN600 and AVN1000 machines with both drives ending in the centre of the roundabout. Site planning and management was vital as the potential restrictions to motorist's field of view were closely monitored by the Highways Agency. Heavy restrictions were placed on access and egress to the site and all deliveries and replenishments had to be planned in detail to ensure minimal disruption to the project programme and as space on site was at an absolute premium.

CO₂ SAVINGS

CO₂ savings of the pipe jacking element compared to open cut construction were 38% for the 1000mm diameter drive and over 60% for the 600mm diameter drive.

Source: pipejackingco2calculator.com

FURTHER INFORMATION: www.terrasolutions.co.uk

