

PIPE JACKING CASE STUDY

Chatterley Whitfield Country Park



www.pipejacking.org

PROJECT Chatterley Whitfield Country Park

CLIENT Stoke MBC/Birse Civils

CONTRACTOR A E Yates Trenchless Solutions Ltd

TUNNELLING MACHINE Herrenknecht MH3 backacter

VALUE £140,000



PROJECT OVERVIEW

A collapsed stone culvert in Chatterley Whitfield County Heritage Park, formerly a disused colliery, required replacement to accommodate flows from a local brook. In addition to bulk earthworks, hard and soft landscaping and new footbridges, existing watercourses required opening up and diverting.

DESCRIPTION OF WORKS

Eighty metres of 1800mm diameter pipes were installed using a Herrenknecht MH3 backacter machine under the main access road to the site. The ground conditions encountered during the pipe jacking works were variable, with constant groundwater flows, and a number of artificial obstructions comprising colliery plant were removed.

The shallow drive pit required a combination of steel sheet piles and reinforced concrete to resist the jacking loads.

Surface settlement was monitored throughout and after the works and no movement was recorded. Immediately following the removal of the jacking equipment the water course was successfully diverted through the new pipes, ahead of programme.

FURTHER INFORMATION: www.aeyates.co.uk

