

# HDD in WA's South West

The Water Corporation of Western Australia is upgrading its wastewater management facilities for the Australind-Eaton area.

The upgrade includes decommissioning of the existing wastewater treatment plants at Australind and Eaton and transfer of wastewater to a new facility located within the Kemerton Industrial Area Buffer Zone.

The project involves construction of 16.2 km of pressure main from Australind and Eaton to Kemerton as well as the construction of a new pump station.

The project area is located on the Swan Coastal Plain, mainly within the Bassendean Dune System. This area is located approximately 160km south of Perth.

The majority of the alignment runs along existing cleared corridors. The alignment also traverses the Brunswick and Collie Rivers.

To overcome the environmental issues associated with the river crossings, the decision was made to install the conduit utilising horizontal directional drilling (HDD).

Head Contractor DM Civil employed Coe Drilling Australia Pty Ltd



The 400 HDPE conduit will take raw waste water from the Australind-Eaton area to the new site at Kemerton, to undertake the river crossings.

Coe Drilling Australia currently operates several directional drilling rigs ranging in size from 20,000lb pullback capacity to 550,000lb. The Coe Drill 550 is currently the largest horizontal directional drilling rig operating in Australia. The company offers complete design and construct packages put together by experienced engineers and drillers.

Under the supervision of Jason Coe

from Coe Drilling Australia, some 670m of DN400 HDPE 100 PN 20 was successfully installed at an average depth of approx 22m below the Brunswick River bed. The design of the crossing, which was provided by Coe Drilling included a compound curve with a 34 degree horizontal alignment swing to meet the easement provided. The sandy soils made the drilling somewhat uneventful for Coe who opted to complete a 250mm pilot hole followed by a 600mm reaming pass before completing a cleaning pass prior to the successful pullback.

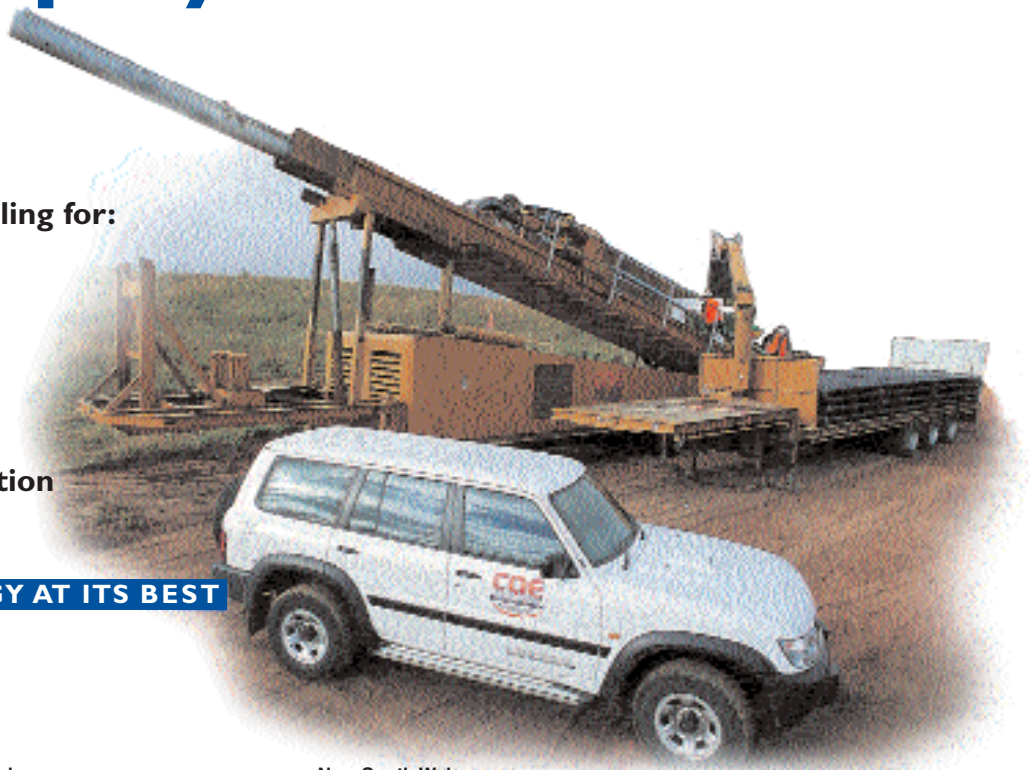
The second river crossing was a 400m crossing of the Collie River again of DN400 HDPE 100 PN 20 and it was installed at an average depth of 16m below the Collie River. The soils here are sandy clay in make up and a similar approach was adopted in completing the works.

Both crossings have been completed using the Coedrill 180 which was manufactured by Coe at their factory on Queensland's Gold Coast.

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