

BARWON WATER ALLIANCE: PIPE AND CIVIL WINS ON PROJECT MANAGEMENT

Pipe and Civil Constructions (P&C) were awarded the contract to manage and complete the Bellarine1 Transfer Main Stage 5A1 (BTM5A1) project on behalf of the Barwon Water Alliance (BWA).

The project included the construction of 2.5km of 1290mm diameter mild steel cement lined (MSCL) pipeline and 400m of 1085mm diameter MSCL pipeline. It also included the installation of a new line valve to the existing 1283mm water main and off-take connections.



To avoid draining 4.4km of 1283mm water main containing 5 million litres of water, work scope included the use of TD Williamson's (TDW) Stopple Plug method of pipeline isolation for cut-in works. The tie-in works included installation of a new 1200mm line valve into the existing 1283mm diameter water main and 1290mm diameter connection off-take by completing a 914mm hot-tap of the main and the insertion of a 1225mm diameter folding plug (called a stopple) within the hot-tap.



Subcontractor management and tying into live infrastructure were areas of concern. They were negated through excellent communication, workplace/process assessment and planning between Pipe and Civil Management, Barwon Water Alliance and subcontractors. As a result there were no loss time injuries, no incidents and no damage to plant or machinery during the hot tap process."

The works were delivered within 75 hours of shutdown time and a total of 5 days of works including management of a failed gibault joint which impacted the work site and required further liaison with Barwon Water to isolate and repair to achieve the 'planned' tie-in works.

A traditional shutdown method involving drainage of 4.4km of 1283mm water main would have required approximately half a day for shutdown, 36 hours of scouring time, 48 hours for tie-in works, 48 hours for recharging and approximately one week to commission to ensure suitable water quality. Therefore total scheduled working time was 11 days including 96 hours shutdown time.



Barwon Water was very appreciative of the effort and results achieved with the stopple and tie-in works. Very little impact on operations was experienced due to this innovative technique in work methods and project management. In addition, the project has received a special commendation in the Civil Contractor Federation's Earth Awards 2010 held in Victoria in August.

For further information visit the website www.pipeandcivil.com.au.

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The new hydraulic design provides superior efficiency and NPSHr levels with the all-stainless steel construction allowing drinking water certification to WRAS, ACS and NSF thus enabling the e-SV™ pump to meet municipalities' requirements for clean water while providing superior corrosion resistance.