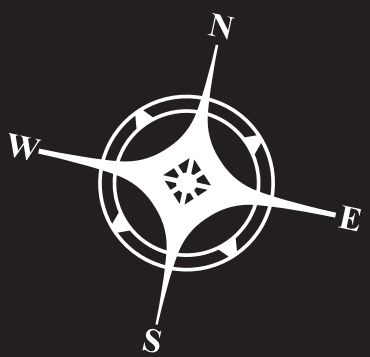
Figure 1: Sinking Pipeline at Port Stanvac

CASE STUDY 1 *Desalination Pilot Plant*

Item	**Response**
Title of Services Contract	Installation of underwater structures and pipelines for Adelaide Desalination Pilot Plant
Description	Supply and install the raw water intake and ocean outfall pipelines including the intake structure and outfall diffuser for the Adelaide Desalination Pilot Plant and install navigation buoys.
Location	Port Stanvac, South Australia
Value	$1,133,926
Scope of Work	• Procure all pipeline, steel clamps (weights), floats, intake primary & secondary screen, outfall diffuser, and steel beams/angles required for fabrication • Fabricate intake / outfall steel structures • Fabricate navigation buoys • Assemble pipeline on beach complete with steel weights and floats • Load intake and outfall structures onto landing craft • Tow pipelines 8Nm using 2 tugs and support boats to site • At location, connect pipeline to structure on landing craft • Pump seawater into intake pipeline to sink pipeline to seabed. Floats remain on pipeline to slow rate of descent. Landing craft crane to lower intake structure to seabed at same time matching slow speed of descent. • At location, repeat for outfall structure • Install Navigation Buoys at designated location, using landing craft crane to lower concrete dump and chain to seabed and connecting navigation buoy.
Contract Type (eg maintenance, construct-only, D&C to relevant Australian Standard Form of Contract or a relationship-based Agreement)	Design and Construct

Contract commencement date	18 April 2008
Contract completion date	19 August 2008
Contract Period	4 months
Key features of the provided service	The pipeline was towed in one piece from point of fabrication to site and sunk in location. The installation operation took just one day!!!
Outcome in terms of Timing, Budget, Quality and Contractual Close-out	Completed on budget and on time despite over 18 days of inclement weather
Innovation and continuous improvement (include description of each innovation and its results in terms of improved efficiencies and the extent of cost savings achieved)	MC designed steel sinkers that were clamped on to the pipe instead of the traditional method of installing concrete dumps over the pipeline after installing the pipeline on the seabed. This innovation allowed the pipeline to be towed in one piece, installed on site in just one day and avoided the use of divers. All this contributed to a substantial cost saving to the client in dollars and time.
Other points considered relevant	
Details of personnel involved with the examples presented and cross referenced to the CVs of key personnel nominated in the Proponent's Proposal where appropriate	*Imran Lambay- Project Manager Shane Fiedler- Construction Manager *Nominated key person in Proposal
Client Organisation Name and Address	Water Technology Australia; 55 Lavinia St Athol Park, SA
Contact Person and Phone Number(s)	Mr. Rob Nadin- Project Manager; 0413 458 620



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