



## Western Sydney Replacement Flows, NSW

The St Marys Water Recycling Plant is a key project in the Western Sydney Replacement Flows Project, part of the NSW Government's Metropolitan Water Plan to increase water recycling in the Sydney region to 70 billion litres a year by 2015.

The St Marys Water Recycling Plant produces up to 18 billion litres of highly treated recycled water a year. The water is used to help maintain the flow of the Hawkesbury-Nepean River. It reduces the volume of nutrients in the river and means more water will be available in Warragamba Dam for drinking.

The project was awarded to Deerubbin WaterFutures - a consortium of companies consisting of United Group Infrastructure, McConnell Dowell Constructors (Aust) and GE Water and Process Technologies. Deerubbin WaterFutures will also operate the St Marys Water Recycling Plant for the next 10 years.

The project involved the design and construction of:

- pipelines to connect the Penrith, St Marys and Quakers Hill water recycling plants to the new water recycling plant at St Marys.
- the St Marys Water Recycling Plant, where recycled water is further purified using ultra filtration and reverse osmosis technology.

The highly treated recycled water, which is similar in quality to drinking water, is then pumped to Penrith. It is released into the Hawkesbury-Nepean River below Penrith Weir.

### Evans & Peck's role

In October 2007, Evans & Peck and TSA Management, as JV partners, were appointed to provide contract management services and other specialist services for the Western Sydney Replacement Flows project.

The scope of works generally consisted of:

- managing and administering the terms of the contract on behalf of Sydney Water under the direction of Sydney Water's Representative, including cost and time management
- managing and coordinating interfaces and communications between Sydney Water, the Independent Verifier and the Contractor in relation to the verification of the Contractor's compliance with the requirements of the contract
- managing and coordinating the interfaces and communications between Sydney Water, the contractor (Deerubbin WaterFutures) and other stakeholders including authorities, the community and other project participants
- providing surveillance staff to monitor quality, environmental and OH&S compliance of the contractor – Deerubbin WaterFutures.

### FACTS AND FIGURES

Client: Sydney Water

Project value: \$209 million

E&P involvement: 2007 - 2010

### Results

Construction commenced in May 2008 and was completed in mid 2010. The plant came into full operation in September 2010 after an extensive testing and commissioning period.

This major water recycling project was delivered on budget and within agreed timeframes.

In 2011, Sydney Water, Evans & Peck and TSA Management received a Project Management Achievement Award from the Australian Institute of Project Management for the project in the Sustainable Projects Division.

Providing contract management services for the delivery of a recycling plant that will provide up to 18 billion litres of highly treated recycled water a year

