

Case Study



South East Water Limited 'us' - Utility Services Alliance

(Alliance between South East Water Limited, Thiess Services Pty Ltd & Siemens Limited)



Value

AU \$500 Million

Project Time-frame

April 2005 - June 2017

'us' Alliance Partners

South East Water Limited
Thiess Services Pty Ltd
Siemens Limited

The 'us' Utility Services Alliance provides expertise across a diverse range of water and utility infrastructure related services. It is an intelligent community committed to environmental issues provides 'us' -Utility Services with an opportunity to tap into market demand and expectation of sustainable measures and solutions.

Benefits include a reduction in cost and allow the client the option of monitoring sites on a temporary or permanent basis.

Leading the way in Sustainability

'us' – Utility Services is committed to sustainable management principles and seeks solutions that are driven by environmental, sustainable and social considerations.

An innovative culture, broad skill base and technological advancements ensure that 'us' has the capability to seek alternative solutions that are synonymous with environmental concerns.

'us' – Utility Services incorporates an educational role in the delivery of their services, achieved by both the customer interface as works are carried out, and by the promotion of products that will raise awareness about the need to conserve and manage the water resource for the long term.

By way of promoting its services and in the manner that works are undertaken, 'us' – Utility Services demonstrates its real commitment to sustainability and the need to continuously seek out solutions that are driven by environmental, sustainable, social and economic management principles.

Key Project Features

Reactive Works

- Emergency Works performed to Water, Waste Water, Recycled Water and Mechanical and Electrical Assets
- Inna Tube Relining works to water services into properties
- Programmed Maintenance works to Hydrants, Valves and other Water Assets
- Air Scouring of Water Assets
- Replacement of Manhole Lids
- Programmed Maintenance works to Waste Water Systems including Closed
- Circuit Television (CCTV) and Jetting of Waste Water Systems



Field Works

- Water, sewer and reuse pipeline construction using open cut, and various trenchless technologies
- Low pressure pipe construction including delivery of total pressure system from main pipe lines to plumbing of customers into system
- Pumping station construction and reconstruction (water and sewer)
- Pressure reducing/sustaining station construction
- Water supply tank construction
- Land remediation
- Odour facility construction
- Contingency tank development
- General structure erection i.e. pump station buildings, sludge drying facility erection, etc
- General earthworks – drying pans, mounds, land clearing etc
- Reuse facility development

Field Management

- Acceptance of works inspections and reporting
- Planning and implementations of complete infrastructure commissioning
- Provision of as-build (record) drawings of assets
- Construction Inspection (i.e. early detection of potential deviations from plans specifications, schedules)
- Direct supervision of contractors
- Site management and coordination of day to day works
- Sub-contractor management and direction
- Accident prevention and loss control
- Plant auditing and reporting
- Promoting contractor/subcontractor/staff involvement in OH&S programs
- Public safety management system implementation

- Checking, investigating managing and reporting construction incidents
- After hours construction emergency services coordination

Communications Centre

Staff at a 24 hour Communications Centre monitor alarms and respond to all incoming calls, record information and pass information regarding faults on to Works Coordinators / Duty Officers.



Incorporating Technology & Innovation

Innovation is represented throughout the business and is a key strength of the Alliance group. Thiess Services and Siemens broad skills base compliments that of South East Waters, hence, and contributes to the broadening of business, and scope of works that can be undertaken.

'Hydroshare' is a good example demonstrating innovation whilst also providing a strong competitive advantage to 'us' – Utility Services. 'Hydroshare' is a newly developed device that allows for on-line monitoring of data reporting. Where sites were traditionally monitored manually, Hydroshare enables live data capture via the internet.

Roadworks

The Roadworks team undertakes streetscape reconstruction projects, with activities including:

- Installation of pipes and cast in-situ and pre-cast pits
- Installation of Road Slow points and Raised Pavement areas
- Removal and replacement of complete kerb and channel
- Repair and replacement of vehicle crossovers
- Removal and replacement of concrete footpaths
- Re-sheeting of Asphalt Road
- Rectification of nature strips following works

To ensure sustainable solutions are met, the team seek opportunities for the recycling of materials. Concrete removed from sites is delivered, where possible, to a recycling plant to be used as substitute for crushed rock.

The use of Compact Pipe, used to rehabilitate pressure pipelines, and Inna Tube, used for long sided service connections, minimize the potential risk of environmental damage, are cost effective and minimize disruption time to customers.

'us' - Utility Services utilises Burst Aid, a mobile filtering system that protects the environment by treating water and removing sediments while works are being conducted on-site.

Traffic Management

'us' Utility Services maintains a Traffic Management Service, which provides 24 hour coverage to client's requirements including:

- Management of road closures
- 20 Traffic Control Vehicles and 10 Arrow boards
- Computerised Traffic Management Plans

'us' - Utility Services has provided traffic management services for large scale events including several events at the Melbourne Commonwealth Games, i.e. men's and women's marathon races in the Melbourne CBD.

Leading the Way In Safety

'us' – Utility Services has already in 2 years of operation, completed 2.5 million hours Loss Time Injury Free.

'us' – Utility Services personnel look outside the square for new ways to improve safety within the workplace without jeopardising the quality of service delivered or time taken to perform tasks.

All 'us' – Utility Services trucks are fitted with reversing cameras to improve driver visibility.

The Development of BridgeSafe, ensures that when bridging metallic water services, which have conductivity, maintenance personnel cannot be electrocuted.

Installation of water tanks onto our water reactive fleet, provides a continuous water supply for the cutting of asbestos pipe, and provides a source of water during total fire ban periods.

