

## SPECIALIST EXPERTISE

### BYPASS PUMPING

We have an extensive range of bypass pumps, including various pipes, hoses and fittings for planned works and emergency response.

### CIVIL WORKS

We have experience in a full range of projects from small backyard excavations to major installations in heavily trafficked and densely populated areas.

### VALVES & FITTINGS

Complete in-house capability to undertake new valve installations and also remove, refurbish and refit older valves and fittings.

### MANHOLE REHABILITATION

Complete manhole rehabilitation using specialised coatings, such as epoxy and calcium aluminate cement. We also remove and replace metalwork, such as ladders, platforms, stepirons and covers.

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**WaterInfrastructure**  
A Tyco International Company **GROUP**

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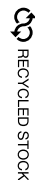
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RECYCLED STOCK

DESIGN  
BUILD  
OPERATE  
MAINTAIN

# WATER INFRASTRUCTURE GROUP

An Australian Leader for Pipeline  
Assessment, Maintenance and Renovation

DELIVERING A SUSTAINABLE FUTURE



**WaterInfrastructure**  
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# DESIGN BUILD OPERATE MAINTAIN



## PIPELINE

### SERVICES

Water Infrastructure Group pipeline services range from initial assessment to full pipeline renovation or replacement.

With over 200 people and dedicated research and workshop facilities in Brisbane, Sydney, Melbourne and Adelaide, we have a track record of solving difficult problems with award-winning innovation.

Our customers know that with one call, they can access skilled field personnel and equipment backed by a professional management and technical support team.

From the smallest house services to major sewer, water and irrigation trunk mains, we deliver streamlined pipeline services that meet community and business needs.

Formed in 2008, Water Infrastructure Group combines the complementary skills of the former Earth Tech water projects group with Tyco's Water Technology Australia and Water Services businesses to deliver an expanded range of design, build, operate and maintenance services for water and wastewater infrastructure.

## ASSESSMENT

### CCTV

Water Infrastructure Group has a full range of colour camera systems that cater for pipelines from DN100 to DN3000 and lengths up to 60m for pipes 600mm and larger.

Our accredited operators provide high quality surveys with detailed WINCAN reports and DVD video.

### SONAR SURVEYS

Our sonar CCTV systems provide a complete survey of pipelines with medium to high water levels to determine the extent of debris below the flow level.

### LASER PROFILING

Our laser CCTV systems indicate the location of deformities and ovality in pipelines. They are an essential tool for prelining assessment and post lining reports.

## MAINTENANCE

### CLEANING

Our pipe cleaning equipment includes a fleet of high pressure cleaning trucks and portable high pressure systems. These units provide flushing, root cutting, heavy cleaning and de-scaling for DN100 to DN2000 pipelines and man entry size culverts, wet wells and maintenance holes.

We have also developed in-house technology that removes concrete and other heavy debris from non man entry pipelines.

### CHEMICAL GROUTING

We can effectively seal leakage and infiltration by injecting a fast setting, hydrophilic chemical grout into pipe joints and associated chambers.

## RENOVATION

### PANEL LOK

This patented uPVC spirally formed lining system is an economical pipe renovation method for man entry size pipes from DN750 to DN3000.

The Panel Lok system has proven highly successful for the renovation and protection of sewer pipes, access chambers, wet wells, stormwater drainage pipes, irrigation pipeline, or tunnel and shaft lining.

Panel Lok is designed as a bonded structural liner. It forms a composite pipe section with the host pipe and is grouted to ensure sealing and bonding.

### PERMALINE

Permaline provides a new pipe within an existing unsound pipeline. The process is faster and cheaper than excavation, pipe replacement or concrete encasement, with far less disruption to the community.

The Permaline structural cured in place liner provides a smooth, durable surface that invariably improves flow capacity.

Permaline liners are specially manufactured for each project and are suitable for pipes from DN150 to DN200.

### PERMAPATCH

PermaPatch is a cured in place structural short form patch liner for DN150 to DN600 pipes.

### PIPEBURSTING

Size for size, or upsize replacement of DN100 to DN600 pipelines. The old pipe is broken up and displaced into the surrounding soil as the new pipe is installed.

### SLIPLINING

Full replacement of DN150 to DN3000 pipelines, including mild steel cement lined pipe. A slightly smaller pipe is inserted in the existing pipeline then positioned and graded using propriety technologies. The sliplined pipe is also grouted to ensure sealing and bonding to the host pipe.

