



PIPELINE SOLUTIONS

Quality

Environment

Health & Safety

CASE STUDY

Stormwater Drain Joint Repairs



Market

Infrastructure - NSW

Scope of Works

Sectional patch repair of 200+ out of tolerance joints in drains ranging from DN375 – DN900

Network Type

Stormwater

Project Value

\$450k

Project outcome

Works completed on budget and 2 weeks ahead of schedule, expediting principal contractor practical completion.



TDMPS Applied Solution

TDMPS assessed that regular suppliers of mechanical seals were not recommended for this project given the short lead time, as they are often sourced from overseas and take 2-3 months to arrive on-site.

The team chose to use a self-locking, expandable, stainless steel, mechanical sealing system that could be locally sourced. This ensured the team could have the seals delivered on-site quickly. Fast curing times of around 30 minutes also contributed to the project being completed 2 weeks ahead of schedule - just 16 days for all 200 seals.

Client Feedback

"Professionalism on display at a top industry level. One of the fastest turnaround projects I have seen to date. Well done and thanks for the product support from the TDM Pipeline Solutions trenchless crew."



CASE STUDY

Stormwater Drain Joint Repairs



Resin-soaked fibreglass



Preparing the seal



Solution Applied

TDMPS Detailed Solution

A key challenge for the TDM Pipeline Solutions team was to minimise disruption to the network while completing the project in a very short time. The internal joint repairs needed to be completed efficiently with a limited lead time, so choosing a local supplier was preferable.

Internationally sourced solutions were out of the question due to long lead times and excessive freight costs. The TDM Pipeline Solutions team sourced a local mechanical sealing system called SmartLock.

The seals utilise fibreglass matting with an added silicate resin providing structural support to the joints. As an added benefit, the resin also infiltrates minor cracks, fractures, and defects at the joint locations, assisting in the sealing process.

Utilising the seals, the TDM Pipeline Solutions crew were able to repair all 200 joints within just 16 days, almost half the expected project completion time. The work was carried out over a 300km long stretch of the draining network which only added to the challenge.