

# CASE STUDY

## SPR™ RO

BELMONT, AUSTRALIA  
DN 1350 (54 in), 6m (119.6 ft)

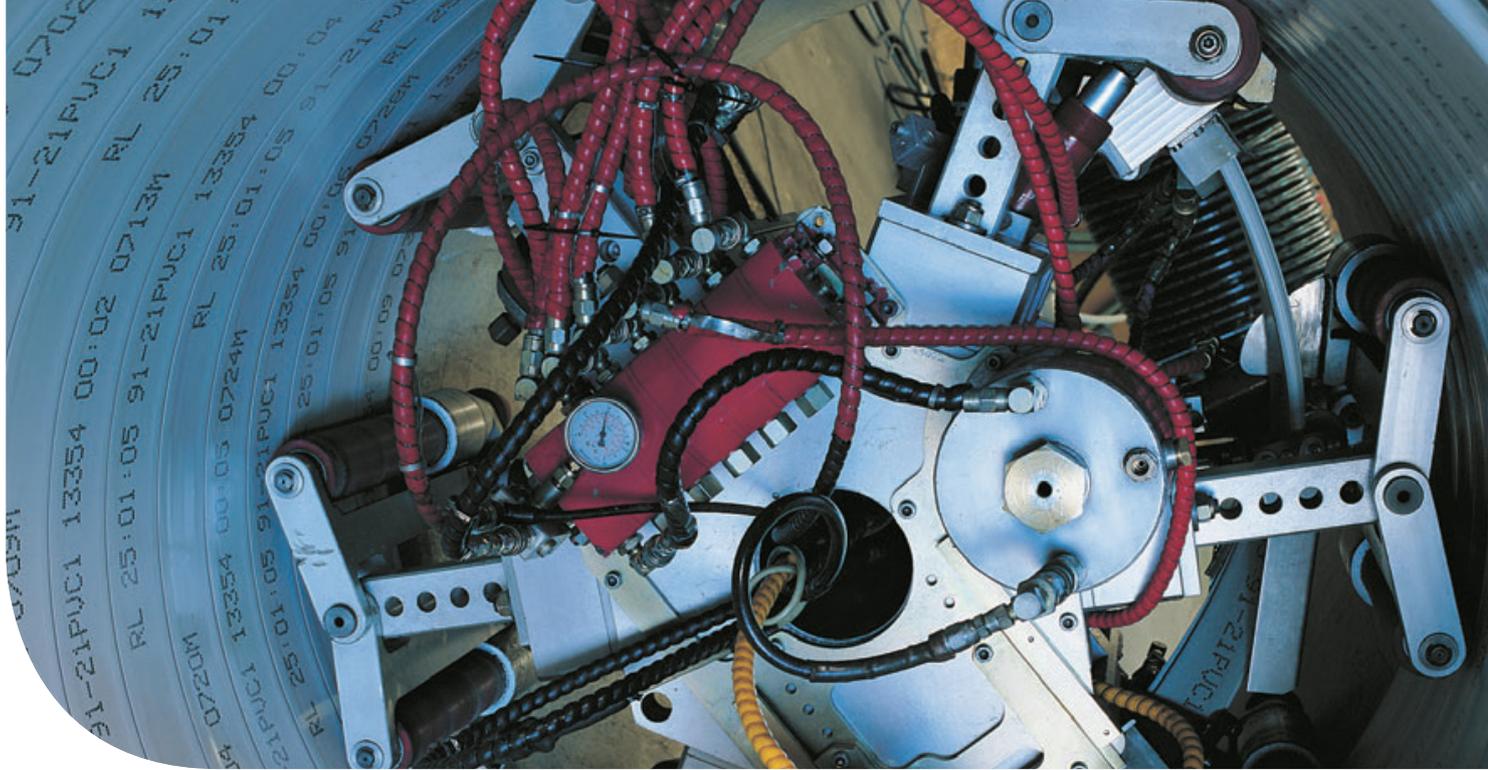


Rotaloc installation in a 6 metre (19.6 ft.) deep 1350mm (54 in.) diameter sewer in Geelong.

**A large diameter, deep sewer collapse in a prestigious residential area allowed SPR™ RO to demonstrate its ability to respond to a serious emergency.**

### **The problem**

A section of Geelong's 1350mm (54 in.) diameter sewer trunk main collapsed leaving a hole some 6m (19.6 ft.) deep. The collapse was in a footpath in the prestigious suburb of Belmont.



**The solution**

The Australian licensee, Interflow, was able to rapidly install a SPR™ RO liner in an operation that caused minimal community disruption.

**The project**

After the collapse was reported, Barwon Water responded quickly to clear the blockage then shore up and cover the hole.

It was decided to install a SPR™ RO liner in the 160m (524.9 ft.) long section. This liner met the project requirements of:

- Capable of taking all loads on a deep pipeline from soil, groundwater and traffic
- Installation around several bends
- Full service maintained during installation
- No bypass pumping
- No excavation

The first challenge on the project was the cleaning of the deteriorated pipelines. Debris had washed into the pipelines as a result of the collapse, and in places filled the line to a depth of 40% of its diameter.

To maintain services, work was only carried out during low flow periods after 10pm. Winding of the liner continued until the pumping stations needed to be operated to relieve the upstream storage capacity. This was necessary at least once each night. Work in the pipeline had to cease until the flow subsided. As installation of SPR™ RO does not block the pipeline, and as no heating is involved, there was no need to remove winding machinery or take any special precautions to protect the installed liner due to these flow conditions. Despite the best efforts in flow management, there was always at least 300mm (12 in.) of flow in the pipeline at all times during installation of the liner.



Winding of the SPR™ RO liner in the 160m (524 ft.) long pipeline was completed in a total of 4 working nights. External voids were filled with cementitious grout after this installation.

[info@sekisuispr.com](mailto:info@sekisuispr.com)  
[www.sekisuispr.com](http://www.sekisuispr.com)



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