

Blockbuster/Drain Corp Joint Venture Projects.

Challenging project at a townhouse complex in Benoni

This was probably one of the more challenging jobs we have done. A townhouse complex in Benoni had been having constant problems with a particular run of Santar pipe that serviced 6 units. This pipe had been cleared on numerous occasions and the intervals between clearing was getting shorter. A camera inspection revealed that most of the pipe was serviceable with the exception of a 15m section located more or less in the middle. Although digging was considered, this would create significant damage to gardens, walls and paving,



The problem – the rusted water pipe.

It was decided to replace this section using BB&DC's trenchless HDPE "tight" lining method. Two pits were excavated – for the "launch" and "winch". While digging the winch pit it became apparent that it was going to be in the wrong place, so it was moved to another location between two walls, under paving.



Winch positioned exactly right!

The excavation of the launch pit revealed a 60mm water pipe (badly rusted) running along next to and above the existing santar pipe. This presented us with a significant problem in the positioning of the winch!



Pig dressed and ready to be pulled in.

The limited space available on both ends made the project quite delicate – and the preservation of the old water pipe caused major concern. This caused some delays, but once everything was set up the actual pull took about 20 minutes.



A bit cramped!

The re-connection of the pipe to the existing system was routine and the whole project was completed in about 6 hours.



Winch out, pipe connected..

This project was very “tight” in terms of manoeuvrability and proved that our equipment exceeded our design criteria – we never thought we would be able to drop it into a hole, lever it sideways, chock it and still manage to pull the new pipe through without wrecking the rusted water main.



New pipe on the upstream end.

Website with more info on Santar used as sewer pipe is at www.blockbusterdrain.co.za

Conclusion.

Can be used in VERY confined spaces!

An extremely cost effective way of replacing sewer pipe that causes the minimum amount of destruction and disruption.

Hard to beat 30m of pipe in less than a day!

The garden, huts and paving are all still intact.

A Scaleable solution from 6m to 600m!

The Benefits of using BB&DC's pipe replacement method

1. The most cost effective solution – especially if you need to go under buildings, walls, paving and roads.
2. Minimal disruption to the property – we only dig a series of small pits.
3. Little or no contamination of the area we work in – we don't dig up all the contaminated earth and spread it around as you would have to using conventional methods.
4. We can replace the pipe in heavily contaminated ground that is in fact nothing less than a septic tank. The contaminants stay where they are and will ultimately become inert.
5. The replacement is quick and disruption to sewerage flow minimal.
6. Pipe is replaced. You thus have a brand new pipe that is round and smooth inside with no compromised structural integrity.
7. **Immensely strong HDPE (class 6-10) pipe with a minimum of joints will provide hassle free sewerage flow for the next 100 years!**

Contact : Graham Rogers – 083 6252267 or Lee Brand – 083 458 4836