

# Blockbuster/Drain Corp Joint Venture Projects.

## Sewer pipe replacement under tar

**A townhouse complex in Boksburg has** fibre pitch sewer lines running under the tarred area between two rows of houses. They were reluctant to dig up the pipe to replace it. Not only would the re-tarring of the area be very costly, but the disruption to residents would be severe. They elected to use BB&DC's HDPE "tight lining" method of fibre pitch sewer replacement.



First – cut small “windows” in the tar.

The replacement of this pipe necessitated the cutting of two small windows in the tar for the launch and winch pits. Once these are cut, the pits are excavated.



The completed winch pit – 1x1m

Although some other utilities were encountered – electric cable, Telkom and galvanised water pipe, these did not present us with any major problems.



Ready to be pulled in.

The actual pull was uneventful and the re-connection took about an hour. The entire job was completed within one day!



HDPE leading in.

The pits were filled and compacted. The tar debris removed and the only evidence that this work had taken place were the two small un-tarred areas. These, to be patched when any settling has taken place.

## **OLD repair method re-visited – Grout.**

A client in Witbank was experiencing ongoing blockages of his clay sewer pipe that ran under his house. CCTV camera inspection revealed that the pipe had a hole in it and there was a cavity behind the hole. We suspect that this was caused by a now abandoned water main that had burst and de-stabilised the soil around the pipe.

We had no idea how big the cavity was, so we elected to use mining grout to fill the cavity and simultaneously repair the pipe. This was achieved by using a grout pump and 110mm packer. We have previously used this method with resin.



The project was not without some challenges however – how do you know when the cavity is full? When you can't pump any more grout in – but watch out that you don't mess any upstream of the packer!

The sewer is now working as it should and the repair was particularly cost effective – the specific problem was targeted and fixed.

Website with more info on Santar used as sewer pipe is at [www.blockbusterdrain.co.za](http://www.blockbusterdrain.co.za)

## **Conclusion.**

**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!**

**You can still get into your complex while we are at work!**

**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 tarred 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 joins will provide hassle free sewerage flow for the next 100 years!**

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