

GROUT FILLING

Abandoned Pipework & Voids

A SVI Contract Service solution used to remotely and permanently decommission abandoned underground pipes and voids.

Filling abandoned underground pipework, sleeves, ducts and other voids is necessary to prevent surface slump, to stabilise the ground prior to construction or to prevent the passage of water, odour

and vermin. At SVI, our Contract Service team has been carrying out filling and sealing operations using cementitious grout for over 40 years.

Varying grades of grout are available to the Contract Service technicians who select the composition depending on the application. The grout is mixed in a machine on site and is pumped through a delivery tube.

On some projects, our FOAMBAG™ technique is used to create a dam in pipework so that the grout can be pumped into the required area.

For projects where inserted cables or pipes need to be removed from sleeving or ducts at a later stage, a non-setting grout is used.

Abandoning Redundant Pipework

When sealing off redundant pipework, such as old cast iron gas mains, each end of the pipe is sealed using a SVI ENDSEAL™.

This lightweight alternative to using a metal cap is fitted over the end of the pipe and injected with expanding resin foam.

A sponge dam, placed inside the pipe keeps the liquid foam in place until it expands and cures.

The pipe is then drilled, and standpipes fitted through which the grout is pumped.



ENDSEALS are used to avoid reinstatement slump. By sealing off the annular space the risk of backfill gradually finding its way into the gap and causing slumping at the surface is removed.

Remote application through gravity fed grout rig reduces disruption. Ability to fill from a distance of 150m in sensitive locations.



GAS



WATER



NUCLEAR



CONTRACT SERVICES



SMARTESTER



HIRE

Filling annular space in ducts & sleeves

The annular space between a duct or sleeving and an inserted pipe often needs to be sealed. This is achieved in a similar way by pumping in grout, although the ends are sealed with our ENDSEAL™.



Pipe diameters up to 1.2m filled

Pipe sizes up to 48" diameter can be permanently sealed off. Sloping, uneven or even badly corroded gas mains are not a problem.

Our Contract Service team also undertake the filling and sealing off all types of underground voids from chambers and manholes to abandoned cellars and storage tanks.

GROUT FILLING CASE STUDY

SVI Supports Anglian Water with one of the largest infrastructure projects in Europe

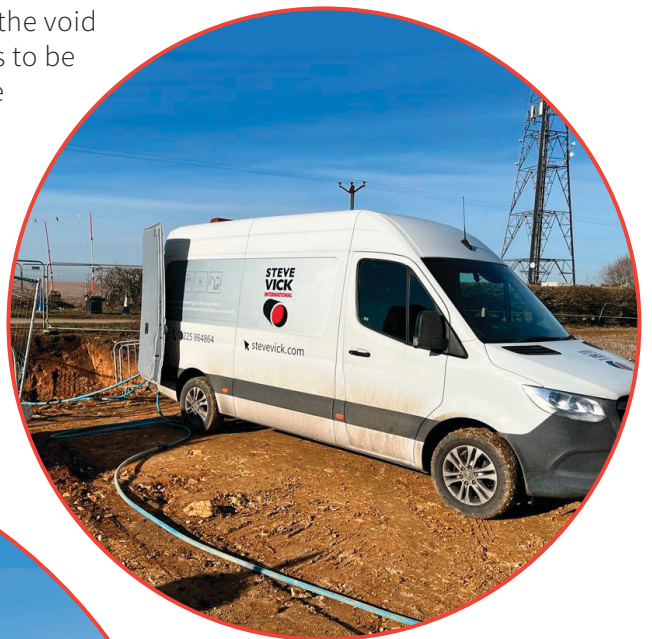
The SVI Contract Services team assisted Anglian Water, through JN Bentley, in a project which involved building a new network of interconnecting water pipelines from Lincoln to Grantham. The 34 km section starts south of Lincoln, near Waddington, and ends near Harrowby, east of Grantham.

This project is part of a bigger project with Anglian Water to create hundreds of kilometres of new, interconnection water mains to keep fresh, clean water flowing across the region. It is one of the largest infrastructure projects in Europe. Once complete, the new network of pipelines will be longer than any UK motorway and will help tackle future water shortages.

The SVI Contract Services team provided grout filling operations on the new pipework running under road sections across the 34 km stretch. The grout filling operation involved filling the annular space between the concrete / steel sleeve and the new PE or steel water main. Sizes ranging from 1,200mm to 400mm.

The grouting enabled the void between the two pipes to be filled ensuring that the newly inserted water main was protected from the risk of damage from the weight of the earth

from the road above and the unnecessary ingress of extraneous matter or animals. The grout will help to maintain the pipes strength and structure and prevent damage to the sleeve ensuring the integrity of the road surface.



Steve Vick International's Contract Services team fills 180 metre abandoned sewer pipes with cementitious grout for Yorkshire Water

Steve Vick International (SVI) recently carried out a project for JN Bentley on behalf of Yorkshire Water. The project involved filling with cementitious grout a 180-metre length of 300mm diameter abandoned sewer pipes. SVI's Contract Service teams are known for providing on-site solutions to a wide variety of pipe decommissioning and renewal problems, and the project for Yorkshire Water was no exception.

SVI's team mixed 6 tonnes of grout on-site using their specially adapted grout rig and injected it directly

into the 300mm decommissioned sewer pipe. The filling operation took one day to complete. JN Bentley's site manager, David Athersmith commented "I had the pleasure of working with Steve Vick International on this project to decommission a sewer, and I must say that their grout filling operation was a tremendous success. As the site manager, I was particularly impressed by how efficiently SVI's team handled the task. It's essential to seal off the void during the decommissioning process, and

SVI's grouting technique ensured that the sewer was entirely sealed off. This was critical to prevent the passage of water, odour, and vermin. The team provided a professional service and understood our requirements for safely sealing off the sewer. I highly recommend Steve Vick International for any decommissioning project, and I look forward to working with them again in the future."



About Steve Vick International

We are experts in innovative engineering for trenchless renovation and decommissioning of pipes worldwide.

Since our foundation in 1981, we have been dedicated to delivering cost-saving solutions for damaged, redundant or outdated underground pipe work. We are at the forefront in developing products and techniques across gas, water, nuclear and contract service sectors on a worldwide basis.

We are proud of our reputation for innovative product development, strong technical support and after sales care.

For more information on any of the products and services featured here, please contact: info@stevevick.com



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