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HOBAS® SewerLine® in Banská Bystrica

Reasons to establish a new sewage system in Banská Bystrica, Slovakia, were to increase the capacity of the wastewater line leading to the wastewater treatment plant of Banská Bystrica and to extend and modernize the whole sewage system. This subsequently allows further growth of Banská Bystrica and all surrounding areas.

The decision for the construction had already been made in the 1980s. The project was divided into two phases: An interceptor A should be built along with the extension of the treatment plant and then the sewer network in Banská Bystrica and its surroundings would be reconstructed and extended.

A concrete interceptor was originally installed. However, having reassessed its hydraulic qualities, the client reconsidered and opted for HOBAS CC-GRP (glass fibre reinforced plastics) Pipe Systems. After the delivery of a HOBAS® SewerLine® DN 2000 Pipe, the works were stopped for the project was included in the European Pre-Accession Program ISPA. The project was technically filed by EU experts and redesigned to utilize HOBAS CC-GRP HOBAS® SewerLine® DN 1800 Pipes SN 5000. Decisive criteria were leak-tightness, durability, hydraulic and long-term static characteristics as well as numerous similar reference projects involving similar constructions to demonstrate the experience of HOBAS in the field.

The construction of the 1st phase of the HOBAS® SewerLine® DN 1800 interceptor was divided into two sections. The first section of 1.8 km was laid by open cut and the second 2.1 km long section was installed by tunnelling.

Open cut was chosen for a section where the traffic would not be disrupted. The pipe bed and the zones around the pipes were filled with gravel sand and compacted. The section situated in areas of heavy traffic was constructed with the help of trenchless technology, namely tunnelling. Steel and concrete casing pipes were used for tunnelling. The gap between the HOBAS CC-GRP Pipe and the casing pipe was then filled with suitable material.

In addition to the pipes, HOBAS CC-GRP (glass fibre reinforced plastics) Manholes were supplied as well to guarantee the leak-tightness of the complete sewer network and not just the pipeline itself.

The construction of sewage system realized directly in town was optimally timed since it was conducted without stopping the traffic flow. HOBAS CC-GRP Pipes proved to be highly advantageous during this phase, since their light weight and their push-to-fit couplings facilitated the installation considerably – even the larger diameters were easily aligned and jointed. Easy handling, simple jointing and dimensional accuracy confirm that HOBAS CC-GRP Pipe Systems are the right choice.

HOBAS SK spol. s r. o.
Vajnorská 136 | 831 04 Bratislava | Slovakia | T +421.2.446 311.61| F +421.2.446 311.62| hobas.slovakia@hobas.com | www.hobas.com

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Overview	
Year of Construction	Stage I 1998, 2004, 2005 Stage II 2006 - 2008
Length of Pipe	23.06 km
Pressure Class	PN 1
Diameter	DN 500 – DN 2000
Stiffness Class	SN 2500 - SN 10000
Installation Method	open trench, tunnelling
Application	SewerLine®
Client	StVS Banská Bystrica
Contractor	Stage I: SKANSKA BS Prievidza Stage II: Alpine Slovakia Bratislava and Combin Banská Štiavnica
Advantages	no traffic stop due to easy and fast installation; accurate and constant dimensions