

# CASE STUDY

## SPR™

MUNICH, GERMANY

DN1000/1500 (39.3/59 in), 153 m (502 ft)



Pilot project for SPR™ technology during the rehabilitation of a combined sewer in Munich, Thierschstraße

The Thierschstraße in an old part of Munich is not only a main thoroughfare for automotive traffic but carries two tram lines as well. Below ground, a brick egg-shaped profile DN1000/1500 (39,3/59 in) has been draining a large part of the old town's sewage and rain-water since approx. 1880. In addition, important data communication of the city of Munich flows through a fibreglass cable that is located there. 130 years of uninterrupted use have left their mark on the masonry and have made it a top-priority rehabilitation case. However, a solution had to be found for

the significant problems associated with the sensitive location and especially its heavy traffic. An open-cut renewal was ruled out, as that would have required excavating the complete underground profile of the street. The trenchless rehabilitation solution offered by KMG Pipe Technologies, subsidiary of SEKISUI SPR Europe, won the tender. By employing the SPR™ spiral-wound method, KMG could guarantee a lasting renewal effect with minimum ground work and hardly any disruptions to traffic during the construction process.



Before installing the spiral-wound pipe, KMG drained the rehabilitation sections and removed sinter deposits down to the core of the masonry, in order to expose the actual profile. Additionally, two data cables attached to the walls were moved elsewhere and protruding obstructions were milled off. The live flow from the adjoining properties was upheld by cutting open the liner promptly and sliding in a plastic pipe.

The rehabilitation line was divided into four sections, of which one contained a bend. The winding-machine continuously wandered through the sewer

autonomously and left behind the finished wound pipe as it went along. The PVC-U profile strips, stored on drums above ground, were fed into the winding-machine via the start manhole and linked together to form a continuous pipe. After the winding process has been completed, the annular space between host pipe and liner was sealed off at the manholes as well as at the connecting pipes, to allow loss-free filling of the annular space with grout, leaving no gaps.

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