



# NovaForm™ Case Study

Trenchless line rehabilitation is key to avoiding catastrophic sewer line failure



Two years ago, the city of Hooker was in a pinch, literally, as a segment of pipe that carries the majority of the town’s flow was choked down with tuberculation build-up.



Providing professional sewer and water services to municipal and industrial customers throughout the Midwest USA

## Results

- Increased flow
- Reduced costs in emergency calls
- Peace of mind and immediate ROI

*“This is why our routine sewer maintenance program is vital...without annual cleaning and taking advantage of the TV Inspection offered we would have not found, and been able to fix, this problem before it became catastrophic.”*

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## Situation

The city of Hooker, Oklahoma has been on a preventative routine sewer maintenance cleaning program for well over a decade, cleaning a quarter of the town each year. Television inspection in 2018 discovered that pipe segment MH8 to MH7, a 12” sanitary sewer line that carries three-quarters of the town’s sewer and also runs under the railroad tracks, had been reduced to half it’s capacity due to tuberculation build-up. Bacteria in a pipeline’s water reacts to the iron found in the pipe’s interior and the result is a buildup inside the pipeline. Over time, this buildup grows thicker and disrupts the pipe’s flow. Tuberculation tends to occur in older pipelines and many built in the 50s-70s are more likely to start showing signs of pipe tuberculation today.

## Preparation

The city reached out to a few contractors about replacing the line; many were hesitant to do so because of the railroad running perpendicular over the sewer line. Mayer recommended trenchless re-lining and put together a proposal for the city’s review. The segment length manhole to manhole is 462’ with one lateral connection on the line. Heavy cleaning was needed to prep the line for relining and in April/May of 2020 a total of 173 hours were spent removing the build-up in the line. The line had to be plugged for cleaning and a chain cutter and specialized descaling tool were used. In January 2021 Manhole 7 was raised to grade and the invert of Manhole 8 was repaired so the liner could be installed.

## Installation

Lining took place in August 2021. Extruded and coiled onto reels, the product was heated and conditioned on the job site, then pulled into the sewer by mechanical means. The NovaForm™ liner was plugged and expanded by introducing steam and then air, allowing it to form snugly against the host pipe. As air was introduced, the pipe cooled and hardened producing a fully functional pipe. Once the liner was expanded and cooled it was ready for service; the only jobsite discharge was water. The lateral connection was quickly reinstated robotically and the line was placed back into service the same day – five hours from start to finish.

## Results

The city can rest easy knowing this line will no longer suffer from tuberculation build-up and credits their proactive approach of annual sewer maintenance cleaning with Mayer as an important component of providing this vital utility to citizens. As part of that program, Mayer not only found and brought this issue to the city’s attention they provided a solution start to finish. Mayer had just begun offering manhole-to-manhole lining as a service and this was their first install. Mayer is grateful for the city’s confidence and trust in their products and services.

Mayer Specialty Services, LLC is an authorized NovaForm™ installer for sewer and culvert rehabilitation. With NovaForm™ PVC liner you benefit from the many advantages of a modern trenchless rehabilitation technology including: time savings, the ability for local businesses and roads to remain open during operation, potential cost savings and reduced environmental impact over traditional open-cut methods.