

XHab™ – putting the steel back into pipelines

- What if you could really rehabilitate pipelines, and not just repair or patch small sections of them?
- Why not reinstate your pipeline to its original line pressure thus increasing its throughput and revenue generation?
- XHab™ adds ultra high-strength steel to the outer wall of bare pipe allowing it to meet or exceed the original MAOP/hoop stress requirements.
- XHab™ can bring your pipeline back to full duty at a significantly lower cost than line replacement.



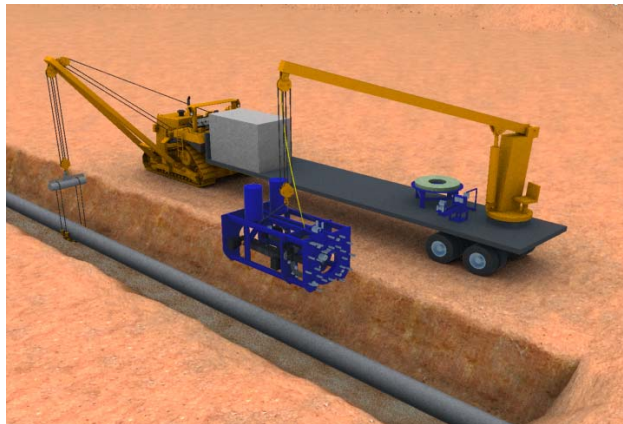
Left to right;

- simulated defect - 80% wall loss in a 10" pipe filled with an epoxy,**
- defective pipe overwrapped with XHab™ technology,**
- burst test - failure occurred in the pipe wall adjacent to XHab™ overwrapping – rehabilitated pipe is stronger than the original.**

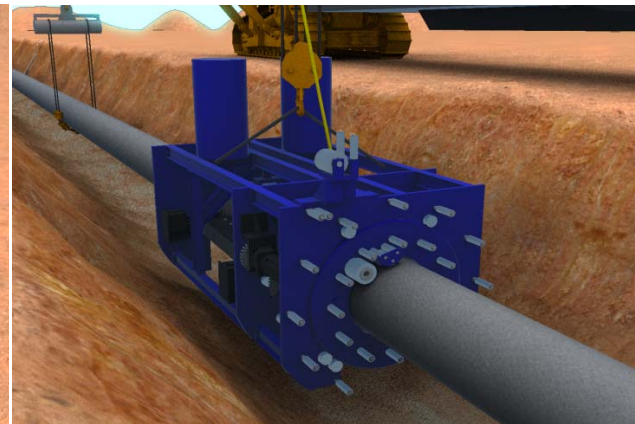
Pipestream’s patented XHab™ technology is designed to efficiently add steel wall thickness to existing pipelines while they are in operation. By means of bell-hole excavations, sections of pipe can be exposed for cleaning, blasting and overwrapping using Pipestream’s proprietary equipment. Pipestream’s XHab™ technology can also benefit owners where population encroachment has caused their pipeline to be de-rated.

Pipeline Rehabilitation Technology

“Replace the coating? – Replace the steel too.”



System concept



XHab machine

Example performance curves are shown below which demonstrate the degradation in MAOP with external wall thickness loss for typical pipe diameters, and the pressure recovery using XHab™ to overwrap pipelines. Based on X-52 linepipe with an initial wall thickness (WT) of 1 inch; XHab™ over-wrapping material is applied sequentially to rebuild the WT. Recovering or even exceeding the original design pressure is feasible, at a significantly lower cost than pipeline replacement.

XHab™ can reinstate the pipeline and justify a longer design life.

