

## 16" SeeSnake Inspection Tool

- Wastewater
- Water
- Industrial



## Overview

Unsurpassed in sensitivity, cornering ability and range, the new 16-inch See Snake represents the state-of-the-art in Remote Field Technology (RFT) inspection of metallic pipes. By combining some of the latest improvements in RFT technology with traditional pipeline pig designs, the 16-inch See Snake tool provides to municipal engineers the same type of information historically only available to oil and gas pipeline operators; with one major difference: "The See Snake tool determines the remaining wall of the pipe through internal scale and deposits."

The 16-inch See Snake tool has been specifically designed to inspect the wall thickness of the pipe at variable lift-offs to accommodate wall thickness variations, pipe ovality, liners and internal scale. The ultimate goal of the tool is to provide accurate condition assessment information that will allow reliable planning for critical mains. Using the See Snake's results operators will be able to determine the weak links in the line and address potential failures before they happen as a result of an external trigger.



"Good Decisions Start with Good Information."  
[www.picacorp.com](http://www.picacorp.com) | 1 (800) 661-0127

## Project Snapshot

- Where: South Carolina
- What: Wastewater Force Main Inspection
- When: Spring 2012
- How: Tethered
- Why: Understand a previous failure and plan for an anticipated increase in capacity
- Distance: 4,300 feet inspected (3,000' section and 1,300' section)



## Details

Growing cities are often confronted with the need to upsize the capacity in their force mains before originally scheduled. When the current condition of a pre-existing pipe is unknown, the asset manager is often caught deciding between a range of sizes. "If the current pipe is in good condition, I can run a parallel 16-inch line; if the current pipe is heavily corroded and needs to be replaced; maybe I should abandon it and install a 36-inch line." These types of decisions heavily influence the decision tree of municipal engineers.

With two previous failures on the line, our client was hopeful the force main could be salvaged with a liner or spot repairs. PICA was called in to assess the condition of a 16" force main that was selected based on a Risk Assessment profile. The line was dewatered and split into two sections with winches positioned to pull the tool through the line. After traversing multiple 45° bends, the tool arrived safely each day and data was downloaded for analysis.

The Final Report contained the following information:

- PICA analyzed 211 pipe joints
- We located and sized the three worst defects in each pipe joint
- Possible through-holes were seen in 8 different joints
- Average Wall Thickness was 95.5% (relative to its installation)
- All of the Advanced corrosion was located within a 10% section of the pipe



For more information about this project or how PICA can make your life easier, give us a call!



"Good Decisions Start with Good Information."  
[www.picacorp.com](http://www.picacorp.com) | 1 (800) 661-0127