



YOUR CHALLENGE. OUR EXPERTISE.

WHAT'S THE TRUE CONDITION OF YOUR UNDERGROUND INFRASTRUCTURE?

Many companies will offer a fast fix to your surface level problems without solving them for good or handling the root cause. We understand that solving a problem requires understanding the causes that originated the problem in the first place. While a fix may appear to save you time, it will often lead to a worsening of root issues which costs time and money down the road. All real solutions require a high-quality assessment and our **PHASED** approach solves your problems for good.

PHASE ZERO™



Assessment

Above Ground Site Assessment

- Drawings
- Process Medium Review
- Access to Lines
- Measurements for Inlets
- Access Configurations

PHASE ONE



Remote Visual Inspection & True Cleaning

CCTV Inspection and Cleaning

- Inspect to Clean
- Clean to Inspect
- Clean Using:
High Flow/Low Pressure
Low Flow/High Pressure
- Verify Cleaning

PHASE TWO



Trenchless Restoration

True Cleaning of Lines "on the Run" - A

- Specialty Nozzles
- Closed Loop System
- Removal of 100% Material

Repair of Lines Using - B

- Mechanical Seal
- Ultraviolet Fiberglass Liner
- LED Fiberglass Liner
- High Pressure Kevlar Liner
- Carbon Fiber Reinforced Liner
- Corrosion Resistant Spray
In Liner

PHASE THREE



System Mapping & Geolocating

Map Underground Piping

- Within 6mm
- Uses X, Y, Z coordinates to
get depth of lines
- GPS coordinates every
6 inches

PHASE FOUR



Risk Based Methodology

RAM - Risk Assessment Matrix

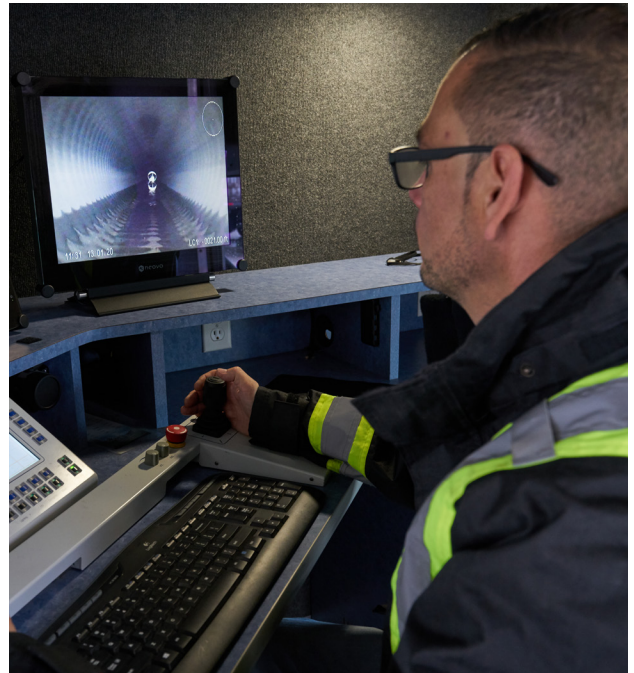
- Risk Based Inspection
Methodology for buried pipe
- No longer reactionary
- Clear picture as to what needs
repaired now and what can wait
until a later date

QUICKLY REESTABLISH PERFORMANCE OF YOUR PIPING SYSTEM.

BURIED PIPE

In plants, thorough video assessments are typically challenging to obtain, making it even more difficult to determine the pipe's condition. Often times residual material completely blocks camera access to useful imagery. To overcome these challenges and to make actionable assessments, IIA Field Services combines cleaning and inspection services, using them in-sync, either by "cleaning to inspect" or "inspecting to clean," depending upon the conditions.

Once the pipeline information is acquired, we then review, prioritize, and recommend corrective actions to reestablish the full functionality of your pipeline system. This information is delivered in a clear and direct format that is always easy for customers to interpret and understand.



0 Failures in 20 Years

BURIED WATER LINES

IIA Field Services has liners specifically designed for the Oil and Gas industry that overcome historical challenges as they relate to rehabilitation. Typically there were only two options, either decommission the line or dig and replace it. When partnering with IIA Field Services, our solutions help you become more efficient while saving time and money.



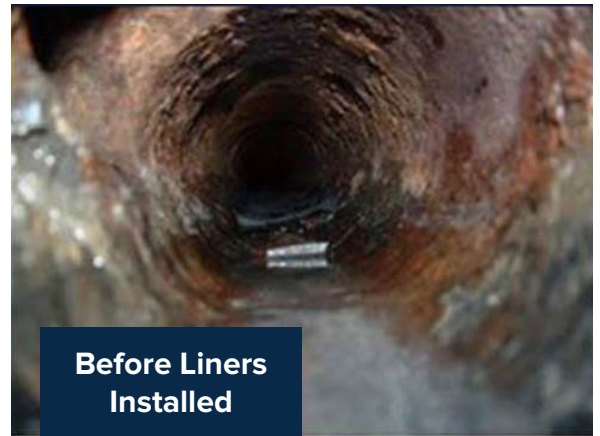
BURIED PRODUCT LINES

IIA's Pressure Piping liners can carry oil and natural gas, in addition to water. These engineered solutions have an impeccable success rate, with zero failures, and save time, process impact, and hard costs, especially when compared to replacement.

Our liners are:

- Composed of a seamless aramid fabric (DuPont Kevlar) in the core
- Completely resistant to aliphatic and aromatic hydrocarbons

Our team chooses the outer and inner layers, depending upon the medium, and we “plug and play,” depending on the service. Then, the liners are installed in sections of 10,000 feet, while negotiating 45 and 90 degree bends, enabling rehabilitation in days rather than months. We assure our installations' guaranteed performance because our technical team is very involved in the process from beginning to end.



**Before Liners
Installed**



**After Liners
Installed**

Enable Rehabilitation in Days vs Months

RISK BASED METHODOLOGY

It can become overwhelming when you assess your system in totality. Our Risk Based Prioritization provides highlights where we recommend you spend your time and money first. Our methodology considers the risk of each segment of pipe and each catch basin. Once the risk has been established you can effectively plan and schedule your system's maintenance and rehabilitation.

