

Assessment First

What is in your pipe?

Reduced flows, inaccessibility, or high maintenance costs troubling your sewer? Subject to DEQ and EPA violations?

Aware of sediment content, condition, and possible weak points hiding in your pipelines? SSI specializes in providing clear answers to these murky questions.

Avoid costly pipeline cleanouts with a pre-clean survey. Small blockages can result in a large flow loss.

With our associate, Frontier Geosciences, SSI can locate pipeline damage and buildup. Our data provides debris volume and density estimations. Let SSI inspect your pipes today and start making accurate cost projections and clear job planning for tomorrow.



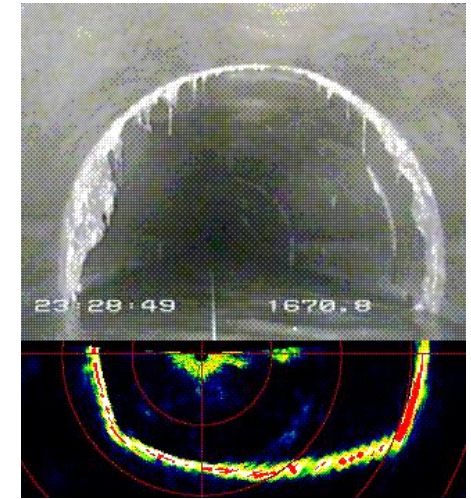
Sewer, Dam, Bridge,
and beyond...

Inspections and Surveys

*Know the Type, Depth,
and Location of Sediment!*

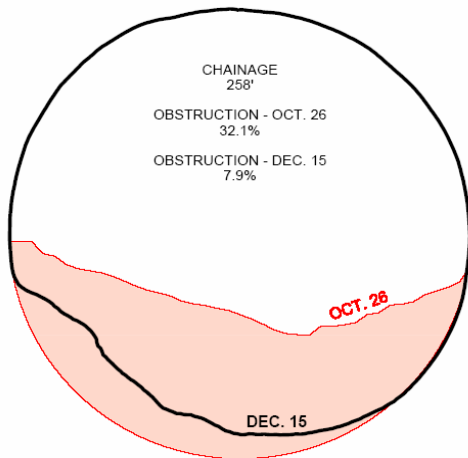


Sonar Solutions International, Inc.
Frontier Geosciences



Products & Services
Internal Pipeline Survey

- Sediment density
- Structural damage
- Organic buildup



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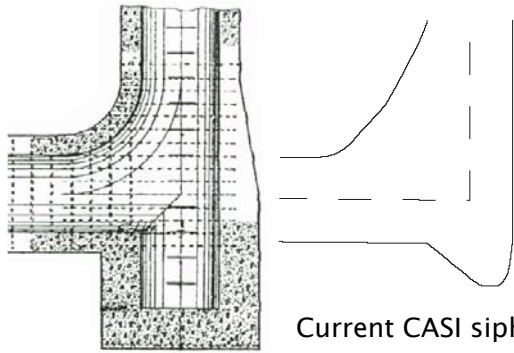
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Our Service

What can I expect from SSI?



Original siphon
Blue Print drawing.

Current CASI siphon
drawing showing wear
and sedimentation.

SSI Sonar Solutions International stands for quality. Utilizing cutting edge sonar technology and imaging software to produce superior inspection results compared to traditional video or diver surveys.

Our CASI or Computer Aided Sonar Imaging system produces data imaging in conditions and locations previously considered beyond inspection. CASI can survey up to **3 mile sections** of pipeline with active effluent flow and zero visibility conditions. As shown in the illustrations SSI can produce XYZ dimensions producing accurate sediment and erosion calculations.

Outfitted with multiple data collection tools including CCTV all being recorded simultaneously in real time means that we collect more information with greater accuracy.

Sonar Applications

CASI technology has a broad range of service applications reaching far beyond pipelines; capable of performing surveys on:

- Siphons, Forcemains, Pressure sewers, long line tunnels
- Dams
- Bridges
- Marinas/Harbors
- Ship Berths
- Waterways/Channels
- Virtually any in water structure

Rest easy knowing SSI inspected and monitors your pipelines and wet structures.



3D visualization of a fully flooded zero-visibility situation in a vertical pipe. Note the heavy rag buildup on the rungs of the access ladder on the left.

Advantages of Sonar Imaging

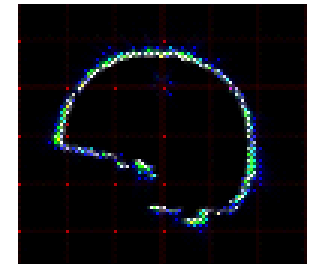
See Through Murky Obscure Waters
No Video, No Divers, No Problem!

Increased: Safety, Assessment Plan Accuracy, Capabilities, Application Range. Know where to put you money to make the most of it.

Decreased: Liability, Clean Out Costs, Assessment Confusion. Takes the guess work out of it.

SSI puts quality first. We produce accurate surveys providing the information necessary for a successful assessment management program.

Right: Sonar profile or "slice" of a pipeline.



Left: Video frame captured in real time with above image.



*Note video quality the word "hello" can be read on passing debris.



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