

Troubleshooting Onsite Systems With Sewer Cameras

PRESENTED BY: BRENT D. HERSHEY

Introduction



- Septic Maintenance
- Orenco Distributor
- Water Treatment
- Plumbing





- Onsite Septic Testing and Design
- Stormwater Infiltration Testing

Topics to Cover

- **Why Camera?**
- **Common Sewer Cameras**
- **Overview of a Camera and Locator**
- **Available Camera Features**
- **Conducting a Sewer Camera Inspection**
- **Identifying Common Issues**
- **Documentation and Reporting**
- **Limitations and Challenges**
- **Conclusion**
- **Additional Resources**

Why Camera?

- Undisputable evidence for inspectors (less theory and more facts)
- Locate and find more work for service companies
- Locate tanks for pumpers
- Locate distribution boxes, mystery tanks, surprise laterals, and much more!
- Find running toilets and malfunctioning water treatment equipment
- Locate and pinpoint stormwater infiltration
- Provides brevity to push owners forward
- Easy sales
- Avoid litigation
- Stand out as professional and capable

Common Sewer Cameras















Overview of a Camera and Locator



Camera Features and Benefits

- Self leveling camera
- Pan/tilt/zoom capability
- Length of the cable
- Record video
- Record audio
- Storage amount
- Battery powered
- Corded (AC and DC options)
- Color and quality of the video
- Verbiage on video
- Distance counter
- LED light (adjustable)
- Camera skids for larger pipes
- Waterproof monitor/control box
- Locator tool
- Carry case

Camera Limitations and Challenges

- Sewer traps
- Size of laterals vs size camera head
- Pipe Materials
- Push distance
- Debris buildup on camera (sludge and water)
- Cost to purchase
- Kinked cables
- Proprietary parts
- Cost to repair
- Customer support
- Camera repair turn around time
- Neighbors

Conducting a Sewer Camera Inspection





MIC ON

+0041. 8f
+0012. 7m

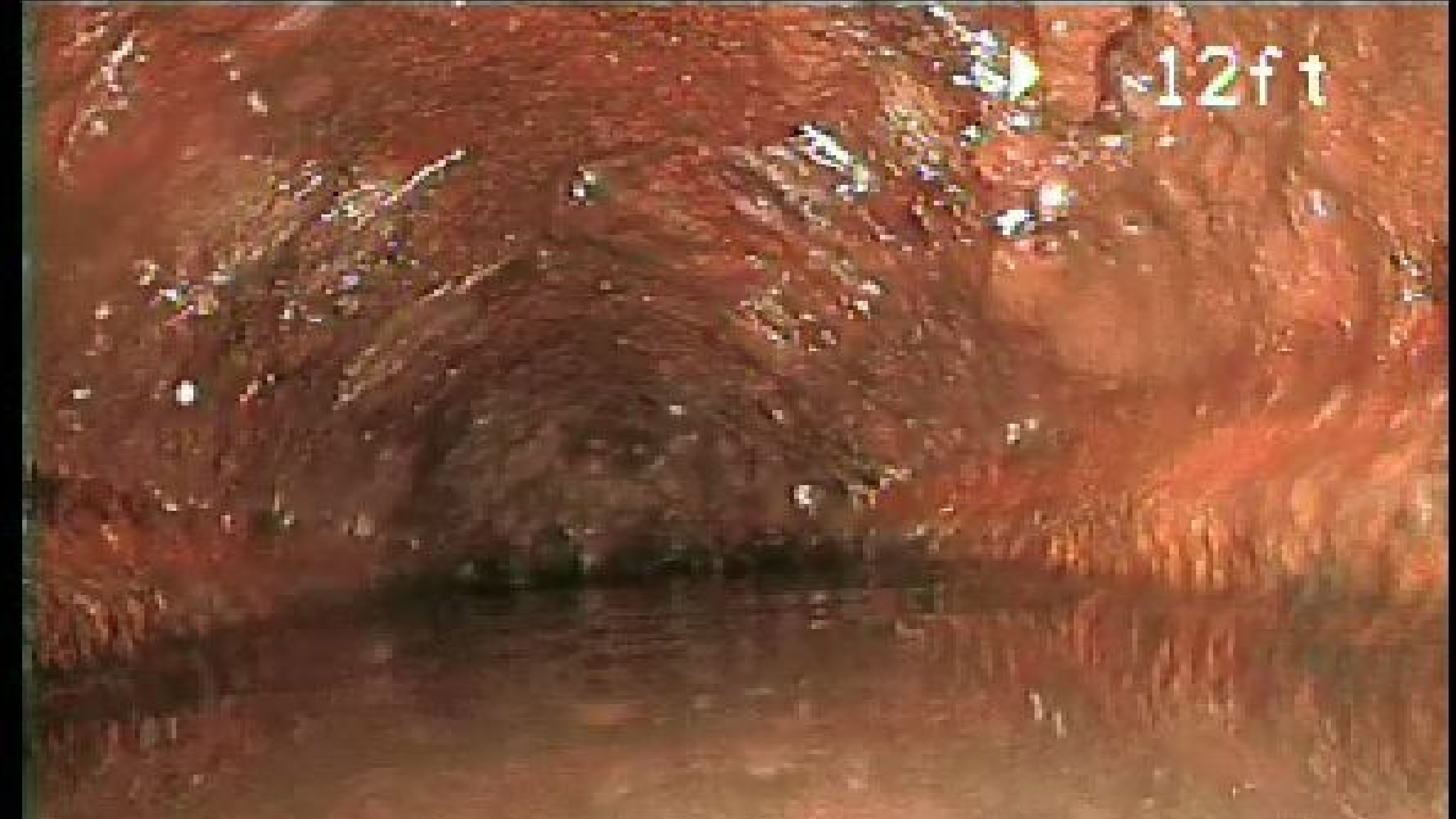


Identifying Common Issues During the Inspection



[41ft 3in] ↑

~12ft



10/26/2016 8:29 AM

A

85.1 FT

Upstream node: 2102-0118

Downstream node: 2102-0118

Can ID: Downstream



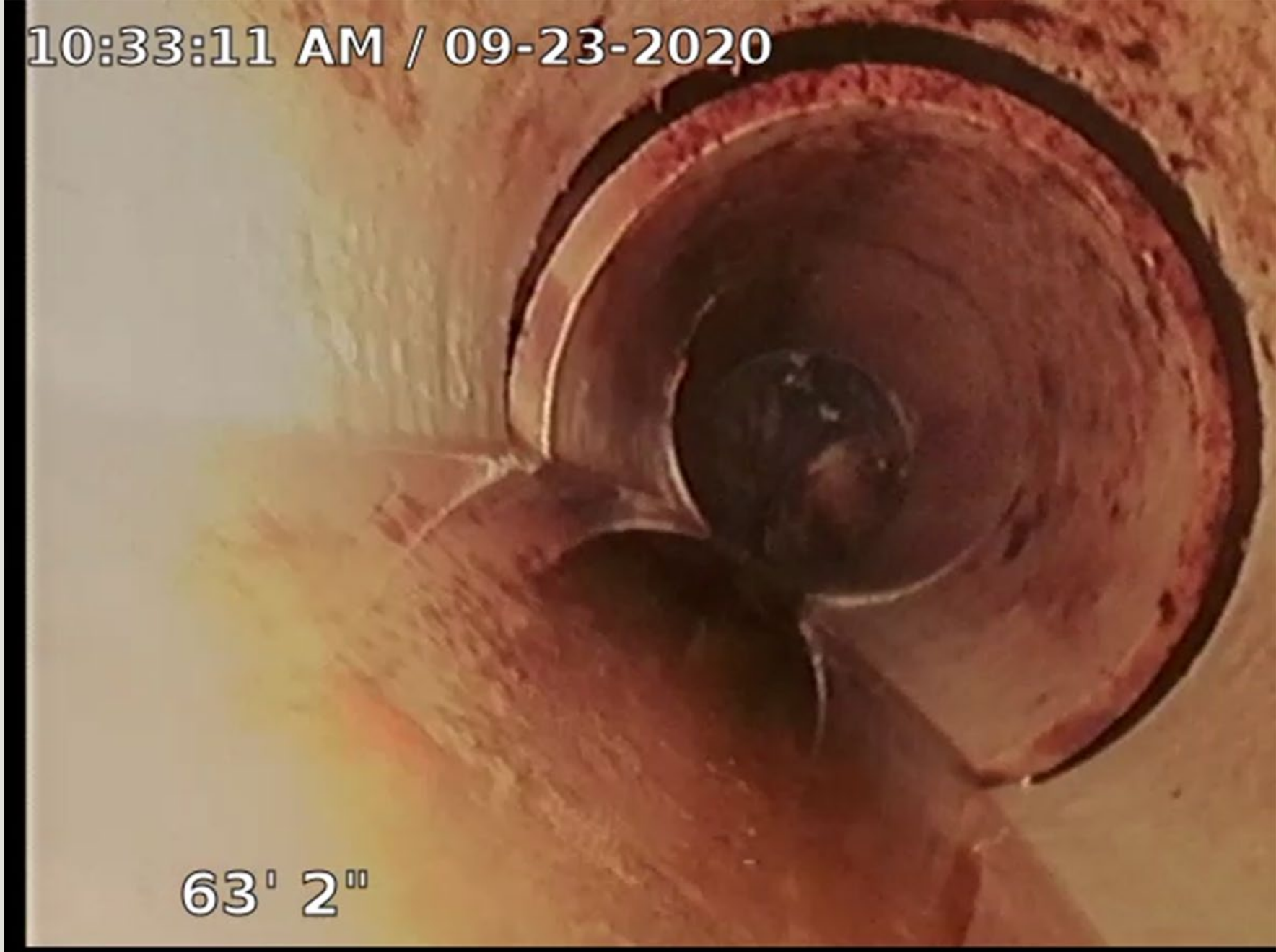
13.2 ft

11-02-2021 10:42AM



10:33:11 AM / 09-23-2020

63' 2"

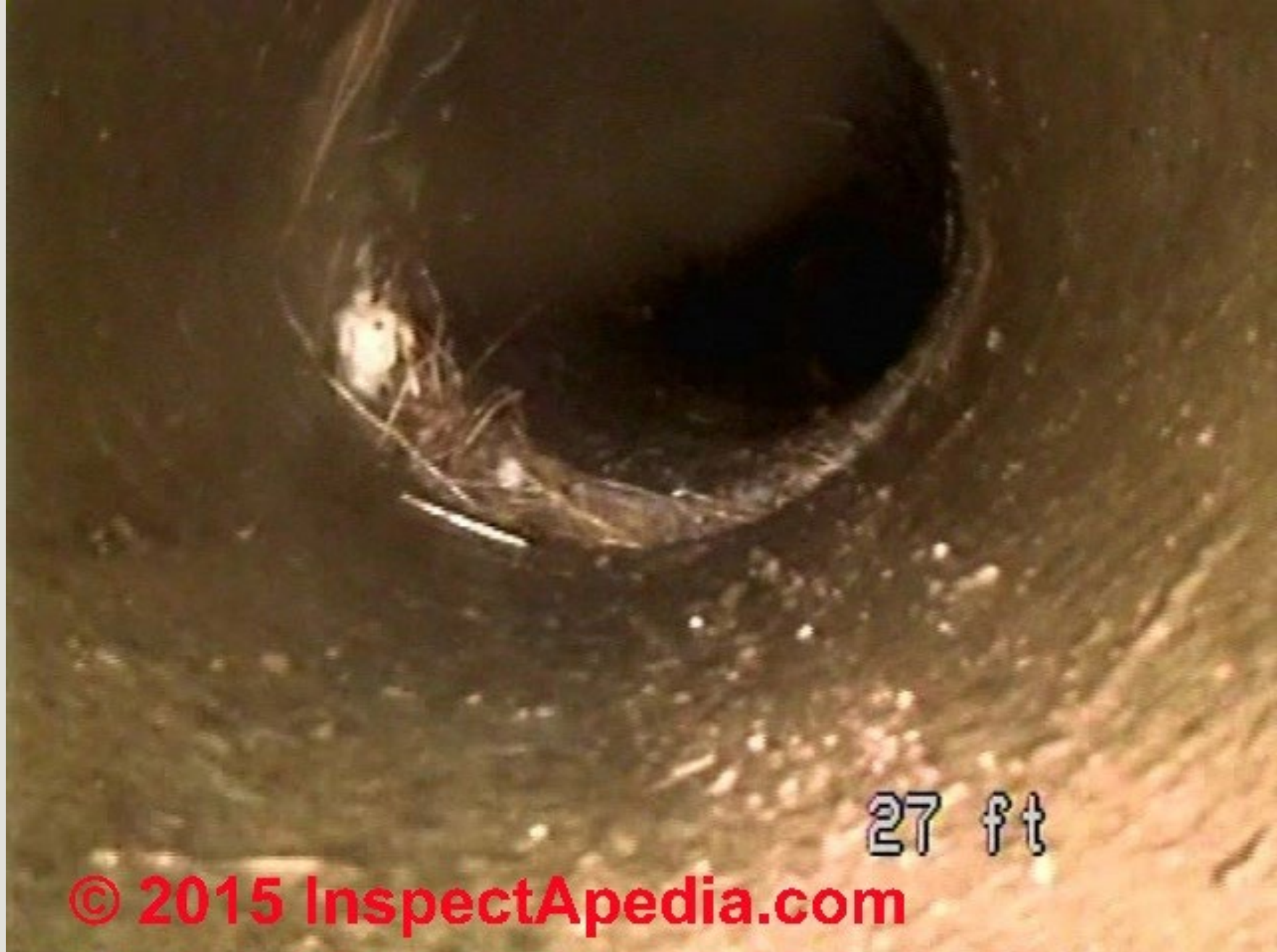




11/9/2011

10:07:30 AM

9' 30"



27 ft

© 2015 InspectApedia.com

Documenting and Reporting

- Label your video
- Be sure your distance meter is zeroed out
- Record your surroundings and location
- Use the microphone to narrate your findings
- Mark the location of the issue with flags or paint
- Save to a flash drive or other storage device
- Share, send, or give the video to your client
- Include your video with your written report
- Include your video with your estimate

Conclusion

- Improve the accuracy and thoroughness of septic inspections
- Improve field service by accurately providing a solution and cost to the owners
- Increase sales while better serving your customers
- High ROI
- Every plumber has one and knows how to use it (avoid making a wrong call)

Additional Resources

- **Special Thanks to Gap Power for lending us the Milwaukee Sewer Camera.** 717-442-8970. www.gappower.com. *Camera Model: M18 200' Mid-Stiff Pipeline Inspection Reel (2975-20). Monitor: M18 Wireless Monitor (2971-20). Locator: M12 Pipeline Locator Kit (2580-21)*
- Wohler Inspection Camera and Locator Kits. www.wohlerusa.com
- Electric Eel Cameras. www.electriceel.com
- Pipe Tools Inc. Mike Wilkins. 215-514-5554