



CITY COUNCIL ACTION FORM

DEPARTMENT Public Works	PRESENTED BY David Lady - Public Works Director	DATE February 6, 2024
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ITEM

Council Action – Approve a Professional Services Agreement for Sewer Line Condition Assessment

Consent Agenda

BACKGROUND

The City of Salida owns and maintains the wastewater collection system within the service areas of Salida and Poncha Springs. The City has a maintenance program that includes scheduled line cleaning and inspection of mains. The City currently jets and inspects mains on a periodic basis in conformance with insurance-related requirements and as needed for specific line maintenance needs. These processes require approximately 3000 hours of labor each year.

In recent years, non-invasive diagnostic inspection using sonar (SL-RAT) has been developed and can be used for a much more efficient method for identifying lines that need maintenance or are indicating partial blockages. Incorporating this technology into the City's maintenance programs will allow for efficient utilization of staff time and is expected to further improve the level of service for customers by proactively identifying maintenance needs. Additional information will be available following the first/trial year of performing this inspection process but is it estimated that labor requirements would be cut in half. This is helpful for allowing other maintenance programs to be fully implemented. Final deliverables will have condition assessment integrated into GIS and allow for the advancement of technologies that will enhance service and assist with the prioritization of capital planning.

The project was advertised, and bids were received on December 29, 2023 as follows:

RH Borden and Company, LLC	\$69,157.90
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It is noted that this line of work is specialized and only a number of companies currently perform this service using the technology. RH Borden is based in Utah with multiple public utility customers in Colorado. RH Borden completed an on-site demo for staff and answered questions related to the final product.

FISCAL NOTE

The 2024 budget for sanitary sewer contracted services is as follows:

\$60,000 (21-30-5298)	Contracted Services
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A budget amendment is not anticipated at this time.



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STAFF RECOMMENDATION

Approve a Professional Services Agreement with RH Borden and Company, LLC and authorize the City Administrator to enter into a Professional Services Agreement in the amount of \$69,157.90 with a total project budget of \$75,000.00.

SUGGESTED MOTION

A Council person should make a motion to “combine and approve the items on the consent agenda.”

New Technology — Acoustic Inspection

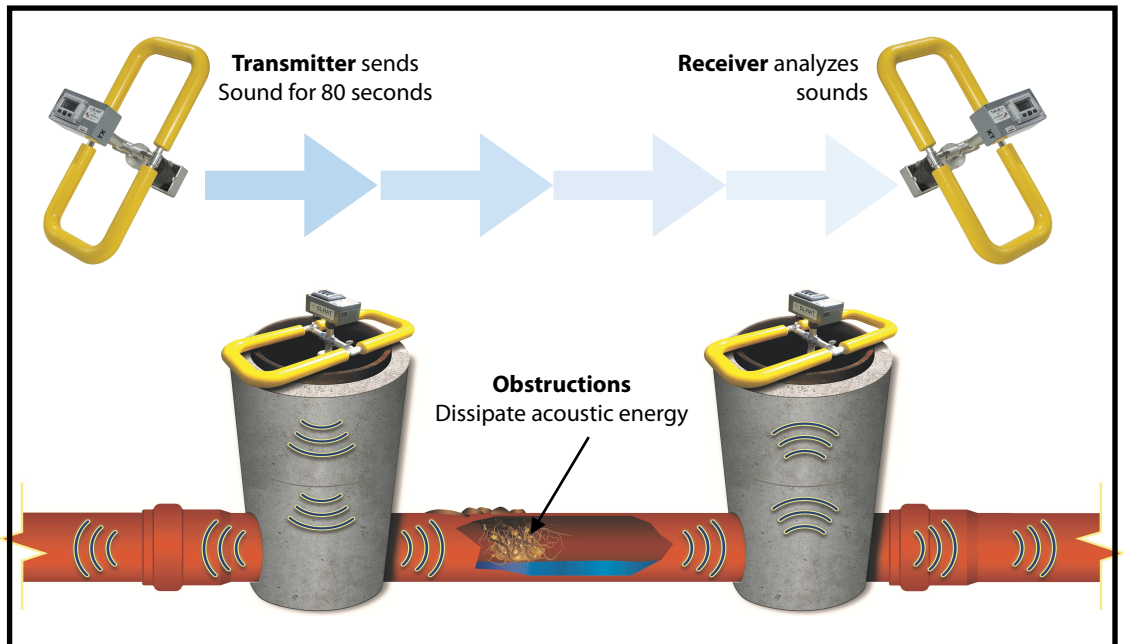


The Sewer Line - Rapid Assessment Tool (SL-RAT)

- Developed by InfoSense in 2008
- Uses acoustics to assess sewer lines
- Recommended by the EPA
- Used by hundreds of utilities worldwide
- Holds ASTM standard for use

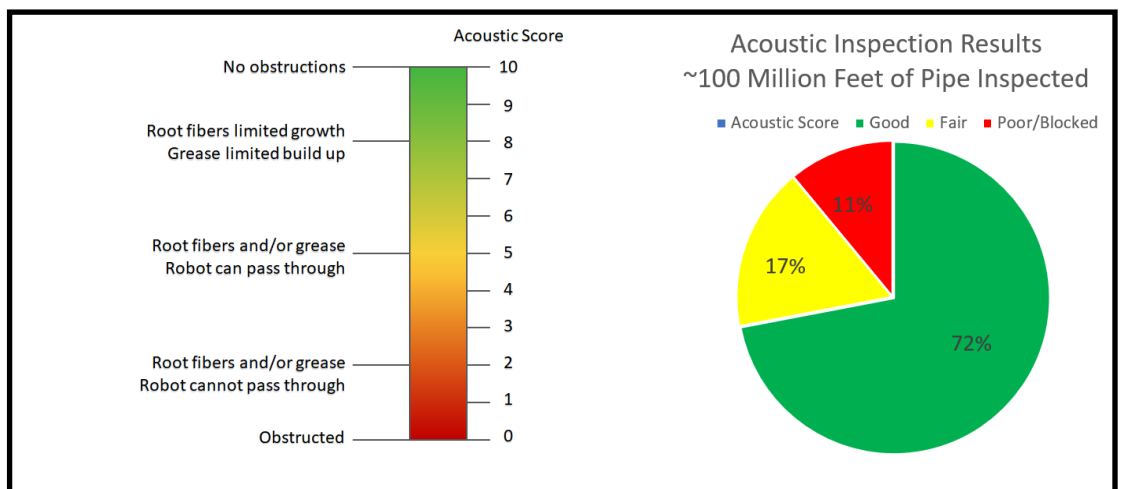
How it works:

The SL-RAT comes in two parts: a transmitter and a receiver that are placed on adjacent manholes. The transmitter sends tones down the pipe and the receiver analyzes those tones for degradation. Based on the quality of the sound, each pipe segment is given a blockage score from 0 to 10.



The Results:

Pipe segments scoring a 7 or above are flowing freely and need no further work. The SL-RAT has been used to inspect over 100 million feet of pipe, and in the average system, 72% had excess flow capacity. That means that more than 72 million feet of pipe did not need to be cleaned.



www.rhborden.com