

Austin Water Selects Electro Scan for Innovative Inflow & Infiltration Project

Evaluation of 8-inch to 24-inch Diameter Sewers Focuses on Known Areas of High Infiltration Unable to Locate Infiltration Using Legacy Inspection Methods.

SACRAMENTO, CALIFORNIA, USA, May 11, 2022 /EINPresswire.com/ -- [Electro Scan Inc.](#) announced today that it has been awarded a contract by [Austin Water](#), Texas, to conduct a 20,000 linear feet (LF) assessment of 8-inch to 24-inch sewer mains that the City has been unable to locate sources of infiltration using legacy inspection techniques.



Electro Scan Inc. has been awarded a contract with the City of Austin Water, Texas, for 20,000 LF project to evaluate known areas of high infiltration where sources have not been found using legacy inspection methods.

Cities and utilities have traditionally used closed-circuit television (CCTV) cameras, dye flood testing, ground penetrating radar, lasers, smoke testing, and sonar to assess gravity sewer mains. Recently, some cities have tried using acoustic sensors and artificial intelligence to re-assess CCTV video.

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It's great to be returning to the City of Austin, Texas, which was a long-time customer of mine when I owned HANSEN SOFTWARE.”

Chuck Hansen, Chairman & CEO, Electro Scan Inc.

What makes infiltration so difficult to find is when rainfall percolates through the soil, water enters cracks, bad joints, and leaky customer connections through pathways that can't be easily seen or traced contributing to sewer backups, overflows, and street flooding.

In contrast, Electro Scan can automatically evaluate the pipe wall of sewer mains when either empty or full of water, 365-days a year.

Using its patented technology, Electro Scan uses electrical current to systematically assess full-length 360-degrees of a pipe, mapping all cracks that go through a pipe wall, leaking joints, bad connections, and other openings; automatically locating every location where unwanted water

can enter or exit a pipe traveling through a pipe at 30-45 feet per minute.

Today, Austin Water serves approximately 195,000 sewer connections connected to 2,600 miles of sewer mains, including 124 lift stations.

As part of this project, Austin Water selected numerous pipe materials, including Cured-In-Place Pipe, Polyvinyl Chloride, Reinforced Concrete Pipe, and Vitrified Clay Pipe, with a variety of ages to determine if combinations of pipe materials and age are contributing factors for infiltration.

Austin Water crews will also support Electro Scan in the field by providing jet trucks & operators, traffic control, and access to back easements, right of ways, and city streets.

Electro Scan's machine-intelligent technology represents a next generation assessment tool for underground pipes.

Using simple electric current, equivalent to no more than six (6) AA batteries, Electro Scan is able to locate every location where water is able to leak from a pipe and measure the size of the hole or orifice to determine severity in either Gallons per Minute or Liters per Second.

Recent large scale benchmark testing has shown the biggest factor of determining pipe condition often is the contractor that installed the original pipe or completed recent repairs or relining.

Due to difficult to access sewers, Electro Scan will use both its ES-600 truck-mounted probe and ES-600 mobile unit.

SEWER



Aries
Cues
IBAK
iPek
Rausch
Custom

ES600

ES400


ES200

Services

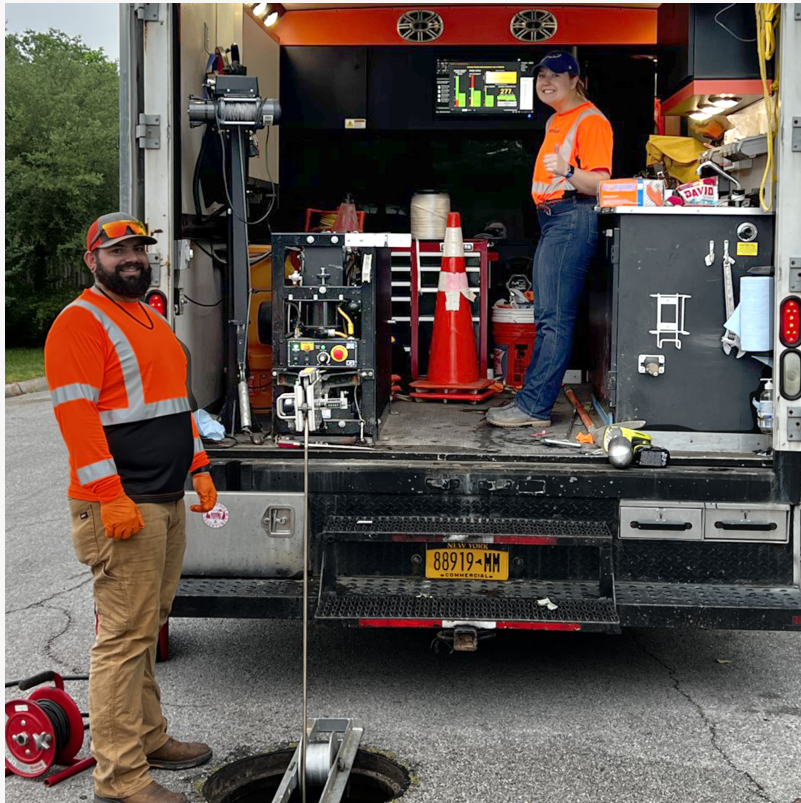
Portable

CCTV Truck

Sewer Mains



Electro Scan provides a full range of products to assess sewers from 3" to 72" diameter pipes, including force mains.



Mackenzie App and John Murdock set up for the day in Austin, Texas.

Austin Water officials and staff, including hydraulic modelers, will be visiting Electro Scan in the field to view how the technology is 3-5 times faster than CCTV camera operations, how real-time data is displayed during each assessment, and how data is transmitted and available on the cloud.

One pipe pre-selected sewer main had a previously Abandoned CCTV Survey, which Electro Scan tends to easily navigate to correctly and more thoroughly assess and quantify major defects.

Prior to the COVID-19 pandemic, Electro Scan completed a successful demonstration inspection of a sewer siphon for Austin Water. Combined with results from a nearby Electro Scan project at San Antonio Water Systems, (SAWS), Austin Water reached out to Electro Scan to organize the current project.

ABOUT ELECTRO SCAN

Electro Scan Inc., is a leading supplier of machine-intelligent pipeline assessment products and services for the water & wastewater pipeline market, developing proprietary pipe condition assessment equipment and delivering field services, and cloud-based applications that automatically locate, measure, and report leaks typically not found by legacy inspection methods. The company's products find leaks that have gone unseen and unheard for years, and in some cases, present since a pipe's original installation. Entirely self-funded, the company is a leading provider of cleantech solutions providing needed Environmental, Social, and Governance (ESG) asset stewardship.



Using a simple electric current, Electro Scan is able to locate every location where water is able to leak from a pipe and measure the size of the hole or orifice to determine severity in either Gallons per Minute or Liters per Second.



Electro Scan's readings automatically detect buried manholes, as found in Austin, Texas, not included on GIS.

HASHTAGS

#acousticsensors #ai #amp7 #artificialintelligence #asce #askchuck #awwa #awwam77
#britishwater #californiadrought #chuckhansen #cipp #conditionassessment #conductivity
#deeplearning #drainage #drought #electromagnetic #electroscan #epa #esg #esginvesting
#fell #gpm #infrastructure #innovyze #inspection #iot #leak #leaks #leakdetection
#leakdetectionoftheyear2021 #lps #m77 #machinelearning #megadrought #ml #nassco #pacp
#pcat #piperepair #pressuretransient #pvc #resilient #resiliency #sewer #sewerai #sustainability
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