

M U N I C I P A L

SEWER
&

WATER™

FOR SANITARY, STORM AND WATER PERFORMANCE PROFESSIONALS

August 2018

www.mswmag.com

BETTER MOUSETRAPS: CALL OUT CREWS
WITH A SINGLE CLICK

PAGE 22

SEWER: NEW APPROACH TO UPGRADES
BY CLEANING COLLECTIONS SYSTEMS

PAGE 28

STAYING SAFE: PROTECT YOUR
OPERATORS, AND THE PUBLIC

PAGE 36

ELEVATING THE DISTRICT

Coachella Valley takes comprehensive
approach to conservation, recharging its main
aquifer and ensuring a sustainable water supply

PAGE 12

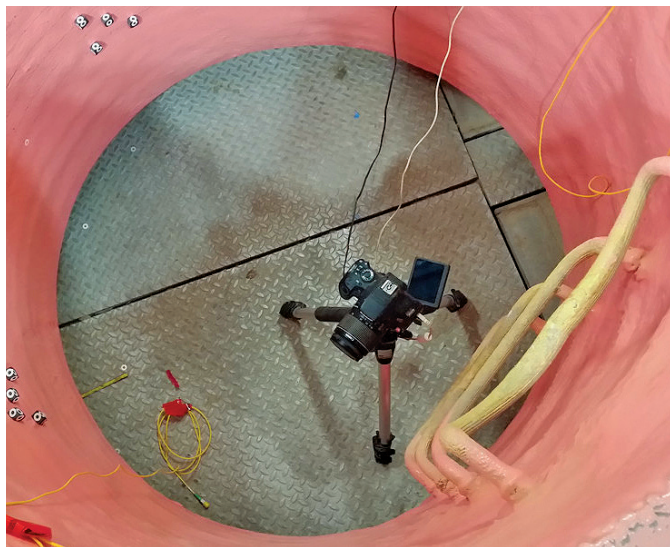
Steve Bigley and Dan Charlton
Coachella Valley Water District
Coachella Valley, California

PRODUCT FOCUS:

PIPELINE INSPECTION, SURVEYING AND MAPPING



FEATURED CASE STUDY

Proving the effectiveness
in resisting infiltration and corrosion

Municipal governments and other infrastructure owners are increasingly taking an interest in understanding rehabilitation methods to prevent groundwater infiltration and corrosion in wastewater structures. **SpectraShield** has participated in three independent studies for the evaluation of effectiveness in resisting infiltration and corrosion.

In 1996 SpectraShield participated in the CIGMAT program at the University of Houston. The objective of the study was to evaluate SpectraShield for adhesion, resistance to external hydrostatic pressure, and chemical resistance. SpectraShield passed in all three categories.

In 2013 SpectraShield was evaluated by the U.S. Army Corps of Engineers at Fort Bragg, North Carolina. The Corps released their report and findings in April 2016 and rated SpectraShield with a return on investment of 5.5.

In 2017 SpectraShield was evaluated by The Geo Engineering Centre at Queen's University, Kingston, Ontario, Canada for resistance to external water pressure. The test was conducted to over 120 feet of hydrostatic pressure and the SpectraShield Liner remained intact.

800-284-2030; www.spectrashield.com.

Tools help develop a proactive
maintenance program**Problem:**

The city of Cocoa in central Florida has a wastewater collections system that includes approximately 200 miles of sewers. Recognizing the importance of proactive collections systems maintenance, the city developed a six-year capital plan to reline or replace problematic pipes based on CCTV footage gathered by RedZone Robotics. In search of an effective proactive assessment platform for the city's ongoing collections system maintenance operations, Chris Collier, field operations manager, researched emergent technologies that could enable their team to be more efficient while maximizing the effectiveness of their cleaning and CCTV assets.

Solution:

In February 2017, Cocoa integrated the SL-RAT from InfoSense. The acoustic inspection tool is the first step in their collections system maintenance program. Collier describes it as a "game-changer in terms of operations," since the acoustic assessment is so fast, "in approximately 3 minutes, you can obtain the degree of blockage in gravity sewer segments." It helps drive the decision on where more expensive CCTV or cleaning resources should be deployed. And, its integration with their GIS system allows the city to quickly identify problem areas for further analysis.

RESULT:

By proactively assessing their system, Cocoa is able to focus more time and resources on the pipes that need attention. They utilize the SL-RAT on a weekly basis and "it has already paid for itself," Collier says. 877-747-3245; www.infosense.com. ♦