



Case Study Category: CAWW

Case Study Title: Inspection of Large Diameter Reinforced Concrete Storm Sewer Pipelines with Sonar by Aurora Water in Aurora, Colorado

Utility Name: Aurora Water

Case Study Abstract: The City of Aurora, Colorado, hired ICON Engineering, Inc. to manage a pipeline inspection of large diameter corrugated metal and reinforced concrete storm sewer in 2007. The first phase consisted of an inspection using a subcontractor, RedZone Robotic Services, to document internal pipeline conditions with digital fiber-optic closed circuit television, laser scans, and measurements of hydrogen sulfide gas. In order to demonstrate the capabilities of the RedZone Responder platform, sonar was used to assess a pipeline below the flow line in a 42-inch diameter reinforced concrete pipe. The sonar was successfully used to assess the pipeline and provide an estimate of the sedimentation within the pipeline and give cleaning recommendations for the pipeline.

Case Study Link: <http://waterid.org/content/inspection-large-diameter-reinforced-concrete-storm-sewer-pipelines-sonar-aurora-water-auror>