WE ARE AN INFRASTRUCTURE PRE-ENGINEERING FIRM
WE PROVIDE UNIQUE DATA & SURVEY SOLUTIONS

Deep Piles & Boreholes

ESSENTIAL DATA FOR INTELLIGENT DECISIONS
• Verticality
• Volumes
• Shape
• Cross-sections
• Depths of 2,000’ or more
• Measurements to 1” accuracy
• XYZ data suitable for CAD programs
• Video where possible

Since 1993 our goal has been to provide easily understood digital survey reports.
WE DELIVER THE DATA YOU NEED

• Multi-sensor data collection technology provides you with new and unrivalled definition of fixed assets

• If you have a challenging inspection or survey problem; our design team can help.

• We have designed & built robotic systems to position the sensors accurately

• We collect video & xyz point cloud data above and below water using Time of Flight (ToF) laser (LIDAR), video cameras and SONAR

• Since 1993, civil engineers have used our data to prioritize remedial work for their fixed assets.
INSPECTION SENSORS TO FIT YOUR NEEDS

- Digital video cameras captures clear images
- Time of Flight profiling lasers used to create above water AutoCAD drawings
- Digital profiling SONARS create CAD ready data below water
- Our 3D SONAR system provides a dense point cloud around a fixed point
- RTK GPS for survey positioning within 2 cm – $\frac{3}{4}$" accuracy
- Additional sensors are easily incorporated onto our system

Video and sonar survey of a drilled intake shaft, 400’ deep
Available Work Platforms

- Profiling sonar optimized for drilling mud
- 3D Sonar system
- Profiling laser 25 m range, 10 mm accuracy
- Panoramic HD video cameras
- 5,400’ of armored electro fiber cable
- Propane Powered Six Wheel Drive Amphibious Vehicle
- Our deliverables are designed to make your life easier
**AQC KEY POINTS**

- We are an infrastructure pre-engineering firm that develops unique data gathering solutions.
- Our data helps you prioritize areas of concern and can be instrumental in reducing cost of repairs.
- We design and build robotic systems capable of meeting any challenge and develop software that transforms data into useful information.
- We control the data from collection to deliverables without outsourcing; therefore, we respond to client input directly and completely.
- Our technological solutions generate actionable information that reduces costs.
- We personally pick up the phone & answer your technical questions.

Profiling sonar setup for a deep shaft
AREAS OF INFRASTRUCTURE INSPECTIONS

IF YOU HAVE A PARTICULAR INTEREST OR CHALLENGE, WE CAN DISCUSS SOLUTIONS ON THE PHONE OR WE CAN SEND ADDITIONAL INFORMATION ON THE FOLLOWING:

- Dams
- Bridges
- Tunnels
- Culverts
- Manholes
- Mine Stopes
- Ports & Marinas
- Large Diameter Pipes
- Mine Tailing Ponds
- Shafts and Boreholes
- Pipe and Cable River Crossing Surveys
- Historical Video Re-coding to New Standards
- Processing Client Collected Sonar & Laser Data
- Specialty Sonar/Laser Surveys

AQUACOUSTIC CAN PLAY A SIGNIFICANT ROLE IN YOUR RISK MANAGEMENT STRATEGY
Verticality survey of a mine vent shaft under construction