

# DAM SURVEILLANCE

## CAPABILITY STATEMENT



**Dam Safety Management System (SMS) is a requirement for declared dam owners under the Dams Safety Act 2015 and Dams Safety Regulation 2019. Dams Safety NSW “declares” those dams which have a potential to threaten downstream life, or cause major property, environmental, or public welfare damage.**

Surveillance is an integral part of any Dam Safety Management System (SMS).

Dam integrity and safety is important for water security, water management, and to protect against failure. Between 2000 and 2009, more than 200 notable dam failures occurred globally with disastrous effect to human life, environment and economy.

In line with the physics concept of increasing “entropy”, the natural tendency is for environmental systems is to move towards disorder and failure. Therefore, systems such as dams are typically not inherently “safe,” and continual human effort is needed to maintain order and prevent failure.

Our approach is to customise an environmental surveillance inspection program based on the consequence category of your particular dam and identify any possible opportunities to improve efficiencies either through technology or dam management.

With a dedicated team of Environmental Technicians qualified by NSW Dams Safety Committee, we carry out routine surveillance inspections, record embankment pressure data via piezometers, measure V notch seepage flows and carry out ground water and rainfall monitoring.

## CONSEQUENCE CATEGORIES

We carry out surveillance program for all dam consequence categories.

A dams consequence category can range from Extreme to Very Low depending on the nature and severity of adverse consequences.

