

## alternative water and sewer design

**ADW Johnson** has been involved in the analysis and design of numerous alternate water and sewer systems including recycled water, irrigation inlet works, storage lagoons, leachate collection galleries, stormwater reuse and on site sewer treatment and reuse.

### Projects

Cessnock Road,  
Gillieston Heights

Horizons Retirement  
Village,  
Dubbo

Club Phoenix,  
Mayfield

Wilfred Barrett Drive,  
The Entrance North

### Club Phoenix, Mayfield

Sewer upgrade for registered club  
redevelopment



**Key issues:** design of directionally drilled watermain connection to conventional pipe work.

### Cessnock Road, Gillieston Heights

Water servicing for 1,600 lot staged  
residential development



**Key issues:** design of directional drilled 355mm polyethylene watermain under creek crossing in poor ground conditions.

### Wilfred Barrett Drive, The Entrance North

Integrated tourist facility, golf course  
resort and residential development



**Key issues:** design of golf course irrigation and residential reuse of recycled water.