

## Hydrant and water supply requirements for developments within the standard QFES response area

The National Construction Code, clause E1.3 requires the installation of a fire hydrant system to serve a building having a total floor area greater than 500 m<sup>2</sup> and where a fire brigade station is –

- No more than 50 km from the building as measured along roads; and
- Equipped with equipment capable of utilising a fire hydrant

QFES interprets ‘a fire brigade station is equipped with equipment capable of utilising a fire hydrant’ to mean: -

The fire brigade station is staffed by:

- QFES permanent fire-fighters, or
- QFES Auxiliary fire-fighters, or
- A combination of (1) and (2), or
- Rural fire officers whose appliance is: -
  - Capable of connecting to the hydrant system infrastructure required to protect the building; and
  - Able to provide the flows and pressures required – as per Table 2.1 and 2.2 of AS 2419.1 – 2005 – for the building to be protected.

Where a fire hydrant system is required to be installed to serve a building with a total floor area greater than 500 m<sup>2</sup> and where a fire brigade is available to attend as determined by the QFES interpretation above, then the water supply requirements for hydrant systems as specified in AS 2419.1 – 2005 should be met.

If an existing bore is proposed for the water supply, QFES recommends the bore water be fed to a storage tank fitted with dual booster pumps and a large bore suction connection from the tank.

Alternatively, consideration could be given to adopting a performance solution approach.