



## Green Hill Reservoir Rehabilitation



**LOCATION:**

Chapel Hill, Queensland

**CONTRACT VALUE:**

Undisclosed

**CONSTRUCTION PERIOD:**

May 2013 to Current

**TYPE OF CONTRACT:**

Supply

**CLIENT:**

Seqwater

**SCOPE:**

Waterproofing of two 77ML concrete reservoirs involving 3km of expansion/ saw cut joints and a combined roof surface area of 15,000m<sup>2</sup>.

**As an essential element of Brisbane's potable water assets, and also one of its largest, Green Hill Reservoir No 1 & No 2 in Chapel Hill were in need of significant refurbishment in order for Seqwater to maintain its high standards for water supply. These structures were built in 1968 and required detailed inspection and repair of all defects.**

Rob Carr Pty Ltd was engaged by SEQ Water to initially clean the Reservoir No 1, support a detailed inspection of the reservoir structure conducted by SEQ Water representatives and provide information to SEQ Water for a detailed report on its findings. Upon provision of the report, Rob Carr Pty Ltd supplied SEQ Water with detailed designs for repairs of the identified structural damage. The roof of the reservoir in particular, was in dire need of repair due to major cracks and other defects in the roof slab structure and existing expansion joints.

Rob Carr Pty Ltd specifically selected LRM Products' VersEseal proprietary membrane system that provided SEQ Water with a high quality solution for the defects at a competitive price. The membrane covered the entire roof slab of both reservoir No 1 and No 2 which comprises of approximately 15,000 m<sup>2</sup> combined.

Additionally, Rob Carr Pty Ltd has designed an in-house system to prevent the ingress of water through these same expansion joints, cracks and saw cuts on the roof, again utilising a VersEseal membrane system. Upon completion of all joint and crack repairs totalling 3km, a 2000 micron layer of VersEseal Quick Set specification product has been applied over the entire roof of reservoir No 1 & 2 sealing it 100% from any water ingress to the reservoir. Key attributes to this project include:

- High level planning, coordination and management of the works
- Key material and product selection
- Use of flexible AS4020 Potable Water approved membrane
- Confined space working environment
- Restricted site access and work space
- Construction in sensitive environments



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