

28/12/2011

All State City Council

The following table contains a brief summary of the key findings from the reservoir inspection and cleaning services performed by Aqualift Potable Diving Pty Ltd.

High St No1

Type	Comment
OH&S	Guard rails are required around the platform area and the internal ladder is heavily corroded and unsafe to use in a confined space entry or rescue situation.
Security	There is no secure compound around the tank and the entry hatch is not secure against unauthorised access.
Water Quality	There is a lot of leaf contamination entering the tank past the unsealed hatches and platform areas.

High St No2

Type	Comment
OH&S	
Structural	Corrosion nodules are forming over most of the floor - Cathodic protection will help prolong the coating life if it is installed promptly. The 1993 PWD coating report stated - `minor pitting on the floor`, and this problem has developed significantly over the last 15 years.
Water Quality	The kick plates are allowing debris and water ponding to occur - large drainage holes need to be cut into the base areas to avoid contamination from draining back into the tank.

Reservoir Hill No1

Type	Comment
OH&S	The asbestos roof is not safe to walk on and unauthorised persons could fall through it and into the tank. Access and rescue are restricted as there is no solid area on the roof to set up a rescue system.
Structural	There is a high carbonation factor of 76%, due to shallow steel covering in the external walls - a protective coating should be applied to help mitigate any further concrete deterioration.
Water Quality	The roof gutter is unsealed, full of leaf debris, and is draining back into the tank. The entry hatch area is also unsealed around the edges, allowing contamination to enter the tank.

Reservoir Hill No2

Type	Comment
OH&S	The internal ladder is corroded and caged, making a confined space rescue difficult
Structural	Three areas of external spalling were noted where the rafters sit on top of the wall - the internal walls need to be checked in more detail by using an inflatable boat.

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Water Quality Water is ponding and draining back into the tank, where the roof joins the entry hatch frame. Possums have been entering this tank on a frequent basis and their dead remains were removed in the sediment. The ladders, cages and platform have significant corrosion present and this will also be affecting the water quality.

Reservoir Hill No3

Type	Comment
OH&S	The ladders and platform are heavily corroded and are unsafe for use in any access or rescue situation.
Structural	The middle wall area joint is weeping and there is evidence of external of leakage.
Water Quality	The tank needs yearly cleaning, as there was 300mm of sediment built up over 4 years. A raised edge and fitted entry hatch cover are required to efficiently seal the tank against natural or deliberate contamination. The platform area is also not sealed - leaf debris and other natural contaminants are entering the tank.