

Jezzine Army Barracks

Location

Townsville, North Queensland

Work Performed

Earthenware and copper pipe relining

Benefits

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70 meters of 100mm earthenware pipe, along with 5 meters of 100mm copper pipe relining.

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Jezzine Barracks has been used for defence purposes since the late 1800's. The Department of Defence along with the Commonwealth and State Governments committed to a \$40 million dollar redevelopment plan.

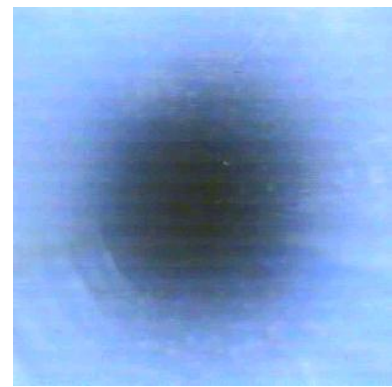
During the site works it was discovered that major infiltration and exfiltration was happening in all of the underground sewer lines. A quick solution was sought as it had the capacity to stop all other works from being completed. Being an historic site meant extreme care was required to not disturb any of the property above ground and minimise damage to the sewer lines due to their historical significance.

The Closed Circuit TV (CCTV) Investigation

The CCTV investigation showed the problem as being all the earthenware pipes to be either cracked or displaced, with a large amount of infiltration and exfiltration. This was causing an environmental issue with sewerage leaching into the surrounding ground water. All the pipes required cleaning by high pressure jet, before installation of any liners could commence.

Alternatives

Due to its historical significance the alternative of excavating and replacing the damaged pipes was not an option. This would have caused lengthy delays as it could have involved archaeological monitoring of any disturbed area of ground and due to the location of the pipes in the old toilet and shower blocks the floor surfaces would have had to be removed.



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