



EJ Whitten Bridge Hydro-Demolition 2019

The EJ Whitten Bridge opened in 1995 and forms part of the M80 Orbital Freeway around Melbourne, Australia.

Since opening, congestion, bottlenecks, and accidents have caused delays for the 165,000 motorists and 22,000 trucks that use the route daily.

Aqua Prep was engaged by Fulton Hogan to demolish the approach slabs, main spans, and expansion joints to allow the joining of two bridges.

Contact



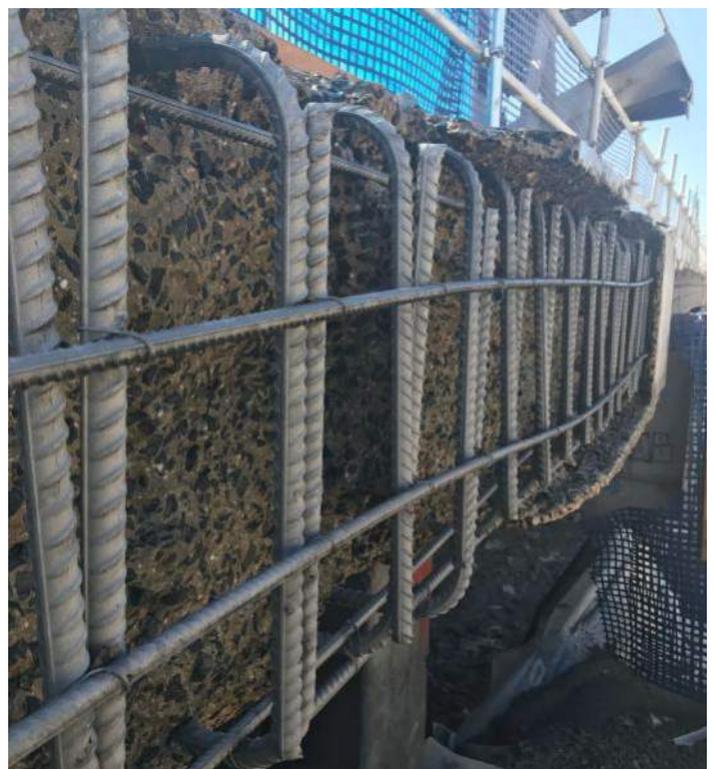
Peter Bradford - 0468 388 751



sales@aquaprep.com.au



www.aquaprep.com.au





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As the “Leaders of change and innovation for the safety of people and the environment”.

Aqua Prep worked with Fulton Hogan to design an access and capture system to capture all hydro-demolition water from the main spans. This water was then pumped off the bridge to our water treatment plant.

All work on the main spans exposed more than 22,000 starter bars, which would later be butt-welded to form the new connecting bridge.

The approach slabs involved exposing the edge beam reinforcing; works were completed using our then-new Aqua Cutter 410 and Aqua Cutter 710 robots.





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No hand lance works were required on the main bridge spans thanks to the innovation of our staff on-site and the use of the;

- Aqua Jet - Aqua Spine.

We pumped the hydro-demolition-impacted water off the bridge and treated it to a standard that it could be safely discharged into stormwater under strict supervision from Fulton Hogan's Environmental Management.



RESOURCES UTILISED

- Aqua Cutter 710 and 410 – standard set-up on approach slabs and expansion joints
- Aqua Cutter 410 – Aqua Spine
- Mini Water Treatment System
- Cappelotto – Vacuum Combi 2600 6x4
- Various Smaller pumps and hand lance crews trained in Working at Heights and EWPs.

