



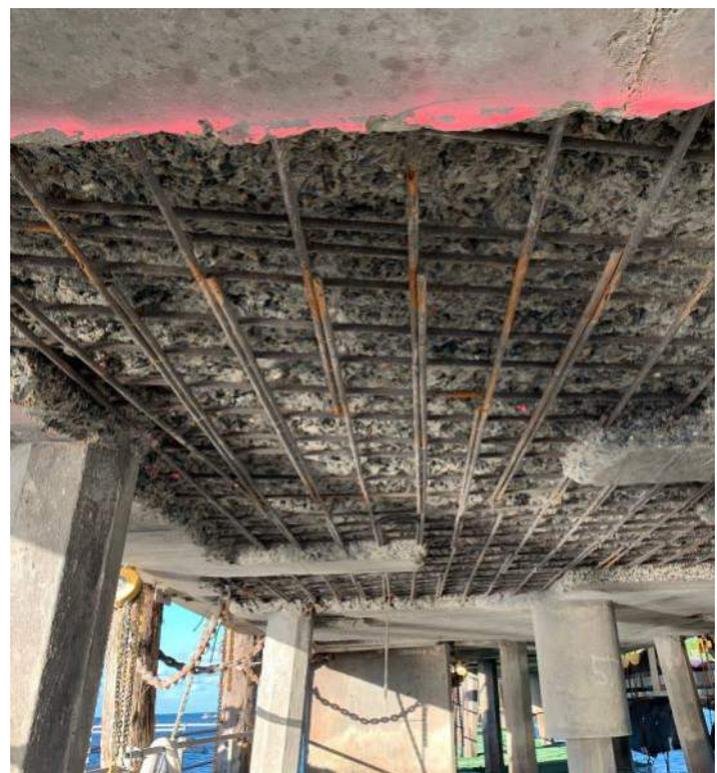
Green Island Hydro-Demolition



Green Island is a coral cay 27km off the shore from Cairns, Queensland, Australia, located within the Great Barrier Reef Marine National Park World Heritage Area.

A requirement for the work was that no debris, dirty water, or high-pH water enter or impact the marine national park.

SRG Global engaged Aqua Prep to hydro-demolition the defective concrete on the jetty soffit.



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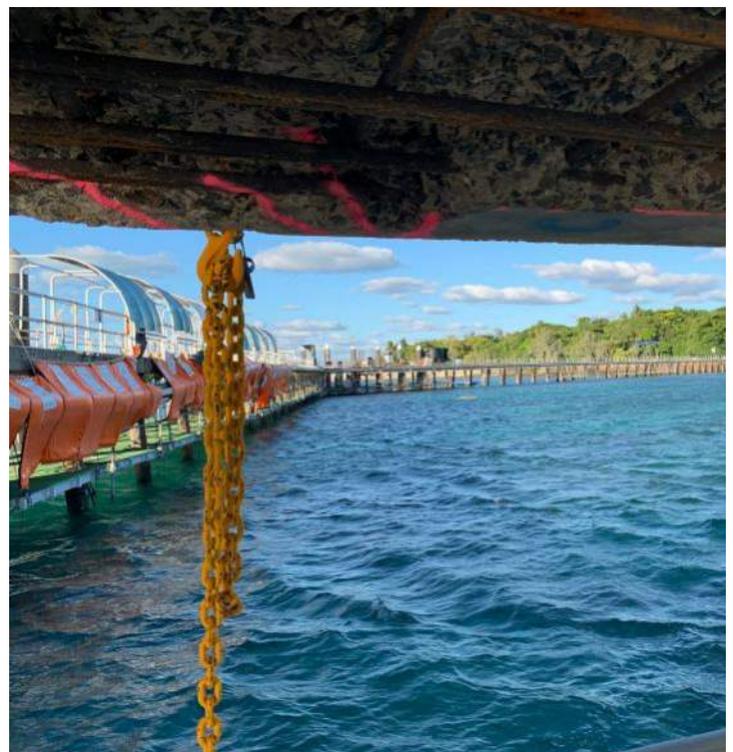
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All water and debris had to be captured, treated, and reused. We believe this to be an Australian first for full capture and reuse.

With safety and the environment a priority, Aqua Prep seized the opportunity to improve the wastewater impact from the hydro demolition process. Through trial and error, research and development and much determination, a complete modular system has been developed in-house over the last five years.

Aqua Prep can now treat Hydro Demolition Water (with a High pH and dirty) up to 100,000l per day to a standard that can be recycled through our high-pressure pumps. We have successfully achieved water clarity under 10 NTU and 3 microns.

We mobilised our water treatment plant, high-pressure pumps, vehicles, and equipment for the three-month project, which was over 3,000km by road, ferry, and barge, to the island, which was experiencing significant restrictions due to COVID-19.





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Aqua Prep's highly skilled operators hydro-demolished over 60m³ of concrete using high-pressure water jet handguns.

The custom-designed water treatment plant recycled over 35,000 litres daily without impacting our pumps and operating system.

The project was completed with zero environmental or safety incidents, delivered within the allocated budget, and met all scheduled milestones. Given the numerous operational challenges—including tidal constraints, adverse weather conditions, sensitive environmental considerations, and limited site access—this outcome represents a remarkable achievement.

The team's ability to maintain this high performance while adhering to strict COVID-19 protocols and restrictions makes these results particularly noteworthy. They demonstrate exceptional planning and execution throughout the project lifecycle.

