



1 Interior view of the facility. 2 Scenic and pristine location along the coast. 3 Exterior view of the facility.

MANGAWHAI WATER TREATMENT PLANT

Opus International Consultants for Kaipara District Council

Project Location: Mangawhai



Highly regarded for its outstanding coastal environment, harbour and coastline; the Mangawhai water system serves a permanent population of 200 people. However, over the Christmas period this dramatically increases to 900 people as visitors' flock to the area. Kaipara District Council (KDC) engaged Opus International Consultants Ltd (Opus) in September 2016 to design and implement a new Water Treatment Plant for the Mangawhai bore water supply that complied with the Drinking Water Standards of New Zealand (Revised 2008).

Following project award, KDC requested the WTP be completed by 23 December 2016 to service the peak water demands over the Christmas period. This effectively halved the original project schedule, requiring detailed design and construction within just three months. The shortened timeframe was not possible following Opus' original proposed design-bid-build method, and led to the innovation of a tailored procurement method, coined design-collaborate-refine-build. Specialist contractors with a past working history with KDC or Opus were engaged by KDC to complete the various components of the project, with Opus fulfilling a contractor coordinator and management role.

This agility in project delivery, the crux of the innovation behind the project, coupled with a huge commitment to collaboration between all parties, ensured that the construction schedule and milestone dates were achieved. Combined with the dynamic of using contractors with local experience, the synergy created not only brought the project in under budget but more importantly achieved commissioning of the new WTP ahead of the aggressive project schedule and provided above and beyond client service.

Judging & Copyright Statement

This project is an entrant in the 2016 INNOVATE NZ Awards of Excellence competition. The winners will be celebrated at our Awards Gala Dinner on Saturday, 12th August 2017 in Taupo.

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