

BABINDA WATER MAIN



FGF Developments constructed additional trunk water infrastructure for the Babinda Reservoir. The location of the Dedicated Inlet Main is along the western side of the Bruce Highway from Christian Street northwards for 432m, passing under existing tram tracks and an open stormwater drain.

The location of the reservoir outlet and reticulation main extensions is essentially along the southern side of Munro Street from Pollard Road to Knowles Street with a branch line running parallel to Wilkie Street.

The project included:

- Construction and connection of additional trunk water infrastructure to the 4.5ML Babinda Reservoir, requiring:
 - Completion of the final 432m section of the DN355 Dedicated Inlet Main along the Bruce Highway;
 - A 172m directional drilled extension of the DN280 reservoir outlet main along Wilkie Street; and
 - A 685m extension of the DN200 reticulation main along Munro Street between Knowles Street and Pollard Road.

Project opportunities and challenges included:

- Constructed through Babinda Township during inclement weather with minimal disruption to residents and traffic flows.
- FGF in conjunction with SKM Global, Golder Associates, PDR Engineers and the client undertook investigation and design to identify a cost effective solution to thrust block sizing in soils with a low bearing capacity.
- FGF worked collaboratively with Cairns Water to facilitate connections to existing mains.
- Extensive directional drilling undertaken in conjunction with Tracksons to install mains under existing water infrastructure and through rocky areas.
- EF couplings utilised to expedite works, reducing disruption to residents.



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Location:

Babinda

Client:

Cairns Regional Council

Civil Engineering

Consultant:

SKM Global

PDR Engineers

Golder Associates

Duration:

June 2013 – Oct 2013