

MAREEBA AIRPORT WATER SUPPLY UPGRADE TMSC2016-07



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fgf was awarded the upgrade of the Mareeba airport water supply which involved the supply and installation of potable water lines, pump station and two fire mains. The scope of works involved the following components:

- Supply and installation of all materials for potable water and fire mains:
 - Excavation, sand, surround, supply, lay, test, backfill, compaction, fittings, DN150 oPVC RRJ Potable water and fire main (approx. 3km)
- Design, manufacture, supply and installation of pump station building and all electrical equipment complete
- Supply and installation of potable water pump set including control panel and pressure vessel
- Supply and installation of standby generator
- Supply and installation of electromagnetic flow meter and telemetry equipment
- Testing and commissioning of booster pump system, generator and other infrastructure associated with the project.
- Replacement of existing fire pumps with 2 new KSB Etanorm 40-250 18.5 kw 2 pole units including testing and commissioning.
- Liaising with MSC for cut in works.

Project opportunities and challenges included:

- Identification of unknown services not shown on project drawings or DBYD documentation and installing pipe line around these services.
- Management of large rocks encountered within trench by trenching ahead and removing boulders with larger excavator.
- On-site rock breaking to manage removal of large boulders from trench and to transport to offsite stockpile.
- Maintaining pipe laying production by trenching ahead using a larger excavator and following with a pipe laying crew.

Location:

Mareeba Airport

Client:

Mareeba Shire Council

Civil Engineering

Consultant:

Jacobs

Duration:

August 2016 –
December 2016