

Case Study
105 kL Water Storage Unit
Tjirrkali Community

Abco Water Systems were contracted to supply a complete water storage and pumping system for the Tjirrkali Aboriginal Community in the Shire of Ngaanyatjarraku WA through the Department of Housing in WA

This is a unit manufactured by Abco Water Systems and is fully manufactured and tested in our Kelmscott workshops prior to transport direct to site

We manufacture in our own mould a fully engineered fibreglass unit 3,300 mm in diameter by whatever length the client requires while still being able to be road transported throughout Australia. In this case the unit was 14.4 metre long allowing 12.4 metre as water storage and 2.0 metre for the air conditioned control room containing water pumping and sterilization equipment. The client representatives inspected the completed system in our factory and after acceptance testing was loaded and transported direct to site using a tilt tray. This allowed the unit to be unloaded into position without the need for a crane to be sent to this remote site.

The system was as required by the client and contains the following features

- All the internal of the fibreglass tank unit was coated with black flow coat ensuring no algae growth in the water
- A ladder and handrail set were installed to ensure safe access at all times.
- A swivel crane divot was installed so that safe access for confined entry was available if required.
- The installed control panel was designed and built in-house to provide connection for pumps and all sterilization equipment
- The control room was fully air conditioned using a split system. All was designed to be lockable and vandal proofed to suit the location and the indigenous population

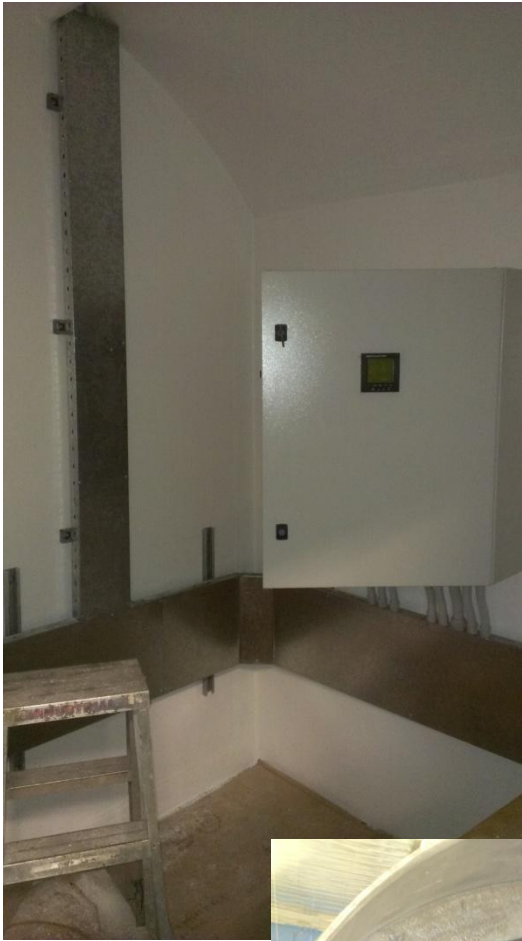
Abco Water Systems did not attend site. The installation was coordinated by the tilt tray truck driver with directions from the client representative.

Connection of the power and the water supply was handled by Kimberley contractors

Pump Specifications

Model	GHV20/5SV04F005T/M	Make	Lowara
No. Of Pumps	2		
Speed (rpm)	2900 rpm		
Number of Stages	4		
Max. Working Pressure	44.1 psi		
Flow Nominal	0.8 l/s		
Head Nominal	29.1 m		
Motor Size	0.55 kW		
Frequency Converter	Hydrovar		
Antiscalant	SPE0111		
Dosing Rate	3grams/hr		
Dilution Rate	50:1		





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Electrical Contractor EC11076



Regards



Murray Brown

Managing Director



EC011076

ISO Certified to ISO 9001:2008, ISO 14001:2004 & AS/NZS 4801:2001

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