

# WWS Case Study

## Project: Aqwest

### Bunbury WA Nov 2009



Manufacturers of  
BluBac BoreClean

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Aqwest is a Western Australian State Government Statutory Authority providing potable water services to the City of Bunbury. Aqwest aims to achieve on-going success in the water industry based on service excellence and compliance to statutory requirements while providing sustainable, high quality water services at minimum long term cost. Maintaining their water bores at maximum efficiency is integral to this. Waterwell Solutions was contracted to provide pre and post camera inspections, brush and air-lift of their Skewes bore and treat remaining iron bacteria with BluBac Boreclean. Skewes Bore is 52m deep with 250mm FRP casing and 9m of 168mm stainless steel screen. Biofouling from iron bacteria causes restriction of the bore water flow through the gravel pack and screen apertures.

BluBac was chosen because of :

- Approval. It has approval from the WA Health Department for use in potable water bores
- Transport. It is not a dangerous good for transport.
- Worker Safety. It is not classed as a poison. It is classed S5, safe to use With Caution. BluBac contains no copper, hydrochloric or oxalic acid.
- Environment. Minerals removed by BluBac are readily available to plants as nutrients.
- Efficiency. BluBac is ready to use straight from the drum. No mixing or worker contact is required.



BluBac dosing the bore via cam lock connection



Fitting the brush

Waterwell Solutions sub-contracted works to Southern Irrigation for pump disconnection and removal and AGE Developments for brushing and air-lift. 530 litres of BluBac were supplied in an IBC. The IBC is ready-fitted with a cam lock connection for ease of dosing via a small displacement into the bore through the AGE brush string, ensuring precise placement of the BluBac over the screen area. The next day the treatment water containing dissolved iron biofouling and iron deposits was tested for residual pH. The bore was purged in to a tanker until the pH was within the required range. This was discharged into an evaporation basin. There was a very pleasing improvement in the productivity of the bore.



Purging BluBac water



Water purged to tanker



Water within 0.5 pH as required