

Case Study RO Roy Hill Village

As the construction of the Roy Hill Mine proceeded it became apparent that additional accommodation for 300 persons needed to be found.

ABCO Water Systems was contracted to supply water and wastewater services for this additional 300 person accommodation camp.

The water supply consisted of:

- Raw water tanks to receive water direct from the bore supply on site
- Potable water tanks to hold two days' supply of water for this camp. The tanks were either poly tanks or the ABCO galvanised steel tanks, fitted with liners
- A six-metre sea container was insulated and fitted out with a split system air conditioner and lighting. Alteration to the door allowed for egress from the container should it be locked from the outside
- Installed was:
 - Automated feed pumps to transfer water from the raw water tank
 - Filtration to reduce water particles to less than one micron
 - Brackish water RO plant offering 70% recovery
 - Reject water sent to the irrigation tank of the WWTP
 - Automatic chlorination of all water stored in the potable water tanks
 - Dual water pressure pumps (VSD drive) to supply water to the reticulated water mains
 - UV sterilisation to UV all water after the pumping system
 - All necessary alarms and stop and start floats to automatically control the complete system



