

Case Study WWTP
Camp 25A – Fortescue Mining Group
Port Hedland – Rail Access Camp

ABCO Water Systems was contracted by Fortescue Metals Group to provide a camp for contractors to duplicate the railway from the port at Hedland to Cloud Break Mine. This section of the rail required a 750 person camp. As is typical of a mining company, the camp was required without delay.

ABCO was able to have installed prior to the approvals being in place. The client was so desperate they populated the camp and used the treatment tanks as storage. Prior to the approval to operate, all sewerage was carted off site for disposal in Port Hedland. This camp was from the ABCO Water Systems rental fleet. We were able to have it in operation within four weeks of receiving the client's order.

This plant was in continuous operation for two years during this rail upgrade construction period. All tanks and equipment were then removed from site and the land returned to its former natural state. Even though all treated effluent was disposed of by spray irrigation, the client required quality effluent for disposal. ABCO provided filtered and sterilised effluent to Class B at all times.

The process provided was an Intermittent Decant Extended Aeration (IDEA) plant comprising:

- Continuous Aeration (CAT Tank)
- Decant Aeration (DAT Tank)
- Break Tank – this stores the decant from the DAT Tank and provides a continuous feed to the installed filters
- Dual filters in process container 2
- Irrigation tank
- Chlorine recirculation within the Irrigation tank
- Poly Aluminium Chloride (PAC) recirculation within the Irrigation Tank
- Effluent disposal to fenced area approx. 800 metre from the WWTP



