

Armagh Street and Hordern Street - Waste Water Pump Stations

The Armagh and Hordern St Wastewater Pump Station site is located at the in Perth, Western Australia. The Armagh Street pump station is the third large waste water pump station in the state which operated at maximum levels of availability and capacity; while the Hordern station represents a complete standby station in the event of problems at the Armagh station. The stations required to be upgraded to increase capacity and reliability to deliver waste to the Woodman point waste water treatment facility some 20kms away, or to another pump station across the Swan river in East Perth some 10kms away. The location is such that any pump station wetwell overflow goes to an also new limited capacity underground overflow storage, and subsequently to the Swan River and the City of Perth.



The design capacity is 680L/s at 55.0m for Armagh St pump station, and 564L/s at 45m for the Hordern St pump station. Due to the criticality and central location of the pump stations, a 100% load fully automatic emergency generator system was also installed and commissioned, along with automated valve switching on the pressure main and all intra pump station redundancy of the control systems to ensure one of two station operation only due to trunk main pressure restrictions.

The projects were valued at \$35M, and required to be carried out while maintaining one or both of the old stations for the bulk of the build works, which occurred in a part greenfields, part brownfields environment.



The project delivered fully performance and water hammered tested facilities, and has been referred to as the new benchmark for planning, commissioning and handover within the WA Water Corporation.



MO Consultants delivered the following services to the above project:

- **Commissioning Manager**