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MODERN SCREENING FACILITY PROTECTS NARRANDERA STP

CASE STUDY

THE CLIENT

Narrandera Shire is a local government area in the Riverina region of south-western New South Wales.

It is a large shire in the geographical centre of the Riverina, with over 1,000 kilometres of roads within its boundaries. The shire includes the town of Narrandera and the villages of Grong Grong, Binya and Barellan.

OVERVIEW

Hydroflux was chosen to deliver a contract that involved designing and installing screenings removal and washing technology at the Narrandera Sewage Treatment Plant (STP).

The benefits of the facility include

- High screenings capture due to perforations
- Significantly less maintenance required in the downstream process
- HUBER screen integrates screenings removal, washing and dewatering in a single unit
- Fully enclosed, WHS compliant, sealed bagging unit provides hygienic management of screenings

Hydroflux also supplied all the necessary ancillaries such as the control system, site installation works, excavation, the incoming rising main, a concrete slab and reinstatement of bitumen surfaces.

The technology installed is a HUBER Ro9 Inclined Spiral Screen, one of the range of high-quality German-manufactured screens designed specifically for smaller sewage treatment plants of up to 5ML/day. In this instance, it was sized for 215 L/s of peak flow.

The ROTAMAT® Micro Strainer Ro 9 operation is based upon a unique system that allows a combination of screening, washing, transport, compaction and dewatering in a single unit.

It removes gross solids from the raw sewage, thereby protecting the facility from accumulation of solids, rags and plastics.

The key benefit to the Narrandera Sewage Treatment Plant is that this technology reduces maintenance and increases efficiency of the treatment process. It is also a fully-automatic operation – the solids removed are collected in a bagging unit, which is hygienic.

Also, given its stainless steel construction and therefore virtually unlimited life, it comes as no surprise that this installation is among 3,000 installations worldwide.

Hydroflux's Project Team engaged local contractors for the project which started in May 2015 and was completed in August 2015.

Item	Value
Peak Flow	215 L/s
Average Flow	35 L/s
Aperture	6mm perforations
Spiral Diameter	700mm