

# CASE STUDY



**PROJECT** STP INLET WORKS UPGRADE  
**PRODUCT** Screw Screen  
**INDUSTRY** Municipal  
**LOCATION** NSW

## BACKGROUND

A northern NSW regional Council was seeking to upgrade their sewage treatment plant inlet works by replacing an old step screen that reached end of life. The Council was initially seeking a like for like replacement, however, wanted better removal efficiency and a solution that required minimal maintenance and operator input in day-to-day use.

Key requirements included the ability to retrofit the new screen into the existing concrete channel to minimise site modifications, and incorporated screenings compaction and washing.

## SOLUTION

Two screw Screens model SS-mK 390 with custom design features were selected for the project for side-by-side operation to meet all the replacement requirements.

## DESIGN SPECIFICATIONS

- Liquid treatment capacity of 175 L/s per screen
- Screen element with 6 mm perforated holes
- SS partitioning wall in channel
- Automated washing in screening and compaction zones

## DESIGN FEATURES

- Machine materials in SS316
- Custom partitioning wall in SS316 to split channel into two for side-by-side screen installation
- AS3000 Control Panel for automatic operation

## RESULTS AND BENEFITS

- **Turnkey solution.** Almost identical dimensional match to existing unit for ease of installation and minimal modifications to existing infrastructure when the unit was delivered to site
- **Improved removal efficiency.** With 6 mm diameter perforated holes, improved removal efficiency was achieved
- **Reduced volume of screenings.** With compaction, a 50% reduction in volume of screenings and disposal costs justified the new screen installation costs.



Installed new screw screens



Screw screens with bagging system