

CASE STUDY

PROJECT SLUDGE DEWATERING PURCHASE FOR MEAT PROCESSOR

PRODUCT Dewatering Screw press
INDUSTRY Food and Beverage
LOCATION Wingfield, South Australia



BACKGROUND

A meat processing plant in Adelaide wanted to reduce its disposal costs for the sludge from its Dissolved Air Floatation (DAF) plant.

Following a successful 4-week trial of a Dewatering Screw Press (DSP), including customised polymer optimisation, the business bought the plant to immediately capitalise on savings from greatly reduced disposal costs.

SOLUTION

Dewatering Screw Press (DSP) treating 100 kg/hr of DAF feed sludge at 10% dry solids (DS) produced dewatered cake at 18.6% DS.

MAK WATER KEY SOLUTIONS

- Plug and play dewatering equipment
- Simple automated solution with low operator input
- Easily integrated to existing process
- Polymer optimisation for site specific sludge producing maximum DS cake
- Robust and low energy equipment

RESULTS AND BENEFITS

- **18.6% DS cake.** Dry cake with high solids content achieved, enabling business to instantly save on sludge disposal costs.
- **Fast Pilot to Production Timeframe.** Once pilot plant established successful results, recommissioning it into production was done within a week.
- **Technical Support.** Support and assistance during commissioning and into production was seamless and allowed production to continue with minimal disruption.
- **Reduced operating costs.** Sludge disposal costs reduced dramatically with payback period of less than 6 months.



Dewatered sludge exiting DSP via chute



DSP during pilot testing