

BRENDALE STP UPGRADE INCLUDES HEADMAX® SUCTION TUBE CLARIFIER MECHANISM

CASE STUDY



A Hydroflux Epco HeadMax Suction Tube Clarifier mechanism was installed into an existing clarifier at the Brendale STP.

The unique feature of the EPCO suction tube machine is the seal between the rotating trough and the RAS column.

The seal comprises an off the shelf Vee Ring seal mounted in a seal support situated beneath the rotating trough bridge and keeping the seal in contact with the underside of the GR316SS seal plate .

As a consequence of this arrangement the seal can be changed whilst working in the trough after removing the bearing and slippers. This arrangement precludes the need to completely empty the tank to change the seal.



Item	Value
No. of Units	1 x 18.3M diameter
Scraper Type	HeadMax® Suction Header
Drive	Peripheral Drive
Scum Control	1 x EPCO Scum Boxes
Launder	316SS V-Notch

Key benefits include:

- Flat floor construction of the clarifier saves on civil costs.
- Full suspended system meaning there is no contact with the floor, hence minimal wear.
- Fully adjustable rubber squeegees.
- Reliable suction tube, fully adjustable with slotted arrangement to suit civils.
- Proprietary sliding gate to adjust the flow to the suction tubes.
- All stainless steel construction for wetted parts.
- Heavy duty drive system with minimum maintenance requirements.