



ENVIRONMENTAL TECHNOLOGY

Reducing maintenance costs, also reduced water consumption at an Iron Ore Mine

An iron ore mine in Australia was experiencing unacceptably high maintenance costs on its Warman Thickener Underflow pumps. The pumps were sealed with Gland Packing that was flushed with 48litres per minute. The pump packing required almost constant maintenance, one of the pumps required repacking 11 times over a 34 day period.

The customer turned to AESSEAL® for a solution. AESSEAL® recommended replacing the gland packing with a HDDSS dual slurry seal and SW02 water management system. The HDDSS has been specifically designed for sealing slurry in pumps like the Warman® range. The HDDSS is a dual back to back seal with large radial clearances and a non-clogging multi spring design. The HDDSS has been installed in numerous mining applications and has contributed to millions of dollars in saving for customers. When used in conjunction with a water management system, the solution reduces water consumption significantly (to almost zero) as water is no longer lost to drain.

The AESSEAL® solution performed so well on the first installation it was subsequently fitted to a further two pumps. Maintenance costs at the site have been significantly reduced without the constant need to repack the pumps. In addition, water consumption has been reduced by approximately 75 million litres per year, further reducing operating costs at the facility.



“75 million Litres / year of water saved”

Industry:	Mining
Product:	HDDSS and SW02
Application:	Thickener Underflow Pump
Water Saving:	75 million litres / year
Reference N.O:	CH01188, CH01189, CH01195



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