



**KelairPumps**

# PumpAction..... Issue 54 Oct 08

## Case Study

### Wastewater treatment at sensitive Tassie site

Sales Engineer Peter Doran TAS

Wastewater treatment and disposal are important but often overlooked facets of residential developments in areas that do not have ready access to a municipal sewerage scheme.

Choosing a reliable, well-proven and correctly sized treatment package will not only provide a desirable end result but can also make negotiating the development approval process quicker and easier.

Kelair-Blivet™ packaged wastewater treatment plants have been providing reliable and cost-effective wastewater treatment solutions in Australia and overseas for several years, with plants designed to cater for equivalent populations (E.P.) of between 30 and 400 people per unit.

One of the many remote Kelair-Blivet™ installations within Tasmania is at a small holiday shack area



which required a wastewater treatment and disposal system to replace a series of old septic tanks. Due to



the environmentally-sensitive nature of the location it was decided that some nutrient removal

would be desirable in order to minimise the impact of the treated effluent should it eventually come into contact with any nearby waterways.

With this in mind Kelair supplied a BL1500 Blivet unit along with a B1000 Kelair-Aerotor Biozone (connected



in series with the Blivet); an anoxic feed tank; effluent recirculation system; simple dosing system; chlorine disinfection and an effluent disposal system to transfer the effluent to soakage trenches.

## Products

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Building & Fire

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The package enables significant reduction in nitrogen and phosphorus levels and produces a higher quality of effluent than the basic Class B.

Kelair's ability to also provide packaged pump stations to enable wastewater to be transferred from individual shacks to the treatment plant meant that the installing contractor could work with one supplier to provide a complete packaged solution for his client.

## Case Study

### Sandpiper's 'little master'

Sales Engineer Hassab Saib VIC

With sewer mining fast becoming the norm, councils and municipalities, with the help of Local and Federal Government, have started a campaign of educating people on the benefits of reclaiming / mining grey water.

So watching what we put down the drain can ultimately

impact on massive treatment costs. NSW has made the first move to monitor what garages, service centres and washing facilities etc are discharging into the waste lines and special attention is being paid to the disposal of oil, grease, solvents and chemicals as these alter the nature, or inhibit, the biological breakdown of waste in sewage treatment plants.

With this being the focus, a Victorian company has designed a unique and economical vehicle wash treatment system that provides a solution for businesses that don't have a constructed wash-down bund. Wash-down water is captured and treated and more than 90% of the oils and 60% of suspended material are removed before discharge into

the main sewer line or storage tanks.

The operation is simple, easy and no fuss. The vehicle is driven onto a mat that has a fall on one side with a capture point. A trolley with the treatment unit or oil/water separator is wheeled to the capture mat and suction pipe connected. (All service centres have com-

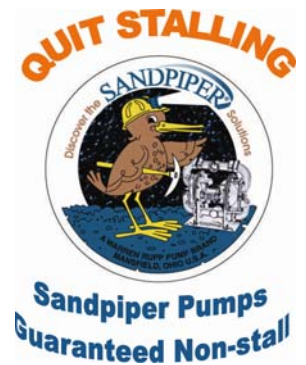
Sandpiper's 'little master' Sales Engineer Hassab Saib VIC (Cont.)

pressed air). Sitting on one side of this trolley, and at the heart of the operation is the unobtrusive, aesthetically-pleasing "little master", Sandpiper's PB1/4, quietly working away and getting about its business

So impressed is the company with the performance of the PB1/4 that it has become a standard design feature.



Not only does the PB1/4 come with a 5-year non-stall warranty, vital to an operation like this, the price tag is just as pleasing, where economy is coupled with quality and the confidence of a full 5 year back up.



## News

### Building and Fire Division hot up

Sales Engineer James Kavanagh

Established in 1994 to support the construction and plumbing industries, the Building and Fire Division's core focus is to support our customers from project conception through to design construction to defects liability period and beyond.

The team can design and construct hot and/or cold water packaged pressure and booster systems to suit clients' individual project requirements, offering piece of mind due to ease of installation as all necessary components are supplied on a pre-assembled baseplate for simple suction / discharge plumbing connections on-site.

Customers receive many benefits as Kelair provides fully-compliant units, in-

house design with full technical specifications including CAD drawings. Kelair can also supply routine maintenance and service 24/7 as required to totally support our client's individual needs for any pump brand in-house and on-site.

Kelair's Fire Division team



was established to support consultants and plumbers to provide a full range of diesel and electric fire protection sprinklers and hydrant-based systems that are fully compliant to AS2941-2008, AS 2419.1-2005 and AS2118.1-1999,

with all manufactured packaged systems being fully tested to above standards on our AS2417/2001 compliant in-house test rig prior to dispatch for installation.

Kelair's Fire Division is currently the preferred supplier to most major fire companies as well as architects, consultants and plumbers that request suitably-designed systems to meet their client's individual needs. To further complement our client's capability Kelair Pumps also provides on-site commissioning and service repairs to any fire hydrant and sprinkler-based system. Kelair can also perform any required repowering of older diesel/electric-based systems that fully comply with stringent Australian Standards

Pictured below is a project currently under construc-

tion for a mining company: Dual Hydrant Sprinkler Pumpset consisting of 1 x 223kW diesel-driven Southern Cross ISO150x125-388-Impeller and 1 x 160 kW, electric-driven Southern Cross 125x100-337-Impeller.



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