

The official News Letter of the AJM Environmental Services Group of Companies

## ADI Ltd Clarification Plant Completed

**AJM** have successfully completed the design, construction and commissioning of a wastewater treatment plant for ADI Limited in Mulwala. This was AJM's second project on this site. For those that don't know where Mulwala is, (we didn't until the first project) Mulwala is located about an hour west of Albury on the NSW/Victorian border.

The project involved the design and construction of a fully automated, PLC and SCADA controlled wastewater treatment plant, including the following process equipment:

- Fully raked 7m clarifier designed to operate at up to 1.5ML/day
- Automatic liquid polymer blending system
- Automatic inline flow controlled coagulant and polymer dosing
- Inline pH correction
- Discharge monitoring, including turbidity and conductivity
- Pumped delivery and discharge systems
- Standby duplication of all pump units
- All civil works and services
- Comprehensive PLC and SCADA control utilising Allen Bradley PLC's and Citect SCADA package



AJM also fitted continuous load cell torque monitoring of the heavy-duty clarifier rake system and sludge blanket level monitoring. These features allow operators to accurately determine the optimum sludge removal rate.

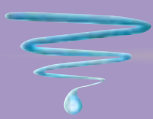
The client, ADI Limited, has advised that they are very pleased with the plant that is operating within the specified performance targets. The project was completed on time and on budget.

### Also Inside.....

Oil Separator sales going well, More work with Australian Meat Holdings, improvements in sludge digestion, more (sort of) salesman stories, a caption competition, plus the usual back page stuff...



**AJM** have taken over the property next door effectively doubling it's office and factory space. Some claim that the reason for the take over was due to the considerable expansion of AJM's Sydney operations. Others on the other hand say that there was just not enough room for the table tennis table, or was it really to get Adrian away from the sales personnel. He did not have to go as far as the roof though!



## Oil Separator Sales Booming

**AJM** recently won a contract to design and install a wastewater treatment system for the Queensland Fire and Rescue Academy Live Fire Campus facility (what a mouthful!) in Brisbane. GHD's Brisbane offices issued a tender for the design and construction of the plant and due to a simple yet innovative design, AJM was successful. The system incorporates a first flush process that treats wastewater and up to 30mm of rainfall from a large catchment area before being discharged to the adjacent Caltex refinery treatment plant. The 1.5-hectare live fire training campus has been developed to international best practice and provides realistic fire training in a safe

environment. Training props simulate a variety of potential fire environments such as buildings, residential dwellings, light industry and industrial processes. The waste and storm water from these training exercises thus contains a variety of hydrocarbons, fuel and surfactants. The equipment supplied by AJM included an AJM EnviroSEP10000, which is a high quality, high performance oil separator designed to remove free oils and achieve discharge concentrations well below 10ppm. The EnviroSEP range is available in sizes up to 100KL/hr and are fabricated in stainless steel with a stainless steel plate pack. All EnviroSEP units have internal oil tanks, thus making them an integrated treatment package.



EnviroSEP10000 unit at Queensland Fire and Rescue Academy Live Fire Campus facility.



Top view of EnviroSEP unit

**AJM** have now supplied almost 100 oil separator units to Integral Energy to treat storm water collected in transformer bunds at substations around NSW.

### AJM Queensland winners with AMH...again!

For those who are regular readers of Liquidity we stress that this article was not left over from the last issue.

AJM has been awarded another contract by Australian Meat Holdings to supply and install a DAF system. The EnviroDAF in this case will be treating primary waste from the AMH Rockhampton abattoir and will have a capacity of up to 4.8ML/day. AMH are reputed to be one of the top 5 food processing organisations in Australia.

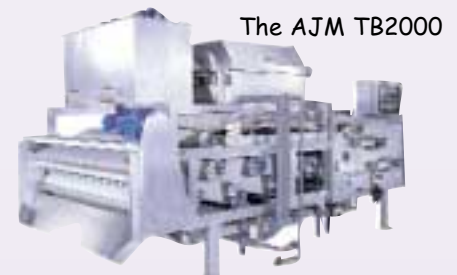
The system will be completed in July 2003.

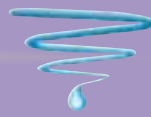


If you haven't been looking at our web site recently then you will not have noticed that we have a fresh operator friendly look. The new menu system and clearly formatted pages, with more technical information allows you to more easily find the products you are looking for. There are also many links available including the Huber Technology site.

### Whilst on the subject of meat works

**K2** Corporation have received a contract to install a 2.0m AJM TB series belt press at MC HERD's meat processing facility in Geelong, VIC. The unit will be dewatering up to 100 tons of DAF sludge per day. As with all AJM belt presses, the TB2000 is fabricated in stainless steel.





## Ways of Improving your Digester Performance #1

The HUBER Strainpress is an inline screen designed to remove and dewater screenings from primary sludge. It is ideal for use in any sewage treatment plant that operates anaerobic digestors, even if the head of the plant contains fine screens. Not only will the strainpress greatly improve the operation efficiency of the digester, it will protect re-circulation pumps and heat exchangers from blockages. Digester maintenance costs are significantly improved by screening the sludge as digestors will not require routine cleaning. This also means of course that you will not have to listen to junior operators whingeing or taking sickies on digester cleaning day!



Installations of more than 700 Strainpress units worldwide have shown some 20% increase in digester electricity generation. If that is not enough reasons to consider a strain press, the dewaterability of the digested sludge will be significantly improved due to a far greater degree of homogenization prior to flocculation and dewatering.



The Strainpress is typically installed in the primary sludge line upstream of anaerobic digestors. There is no need to install further pump stations and the head loss through the unit is minimal. The unit can also be used for mixed primary / secondary sludge and waste activated sludge.

The press consists of a 5mm perforated screen, conveying screw, dewatering section and pneumatically regulated pressure cone. The pressure cone dewateres the screenings removed from the sludge and is automatically regulated by the power consumption of the screw drive. The main case, internal screw and perforated screens are manufactured in stainless steel.

The strainpress has been designed to handle between 10 - 60 m<sup>3</sup>/h of primary sludge, adequate in most applications. If not, you will just have to buy 2! Screenings are generally dewatered to around 40% w/w solids. If you would like further information please contact John K at [johnk@ajmenviro.com.au](mailto:johnk@ajmenviro.com.au)



### Not quite salesmen stories

It is unfortunate that the original salesman so often mentioned in **LIQUIDITY** was banned from doing anything practical around the factory. (or anywhere really!) You may remember his drilling skills, or perhaps the infamous "grease trap waste in his face" story. These momentous occasions seem to have come to an end but luckily last week our engineering dept gave us something to write about.

On the way back from a recent trip down the coast Mr P and his family were feeling a bit peckish and stopped in at the local KFC drive through. Nothing too strange about that unless you were actually watching a Jeep with 3

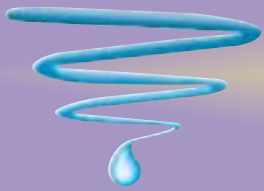
bicycles on the roof rack approaching a "2m max height" warning bar. Unfortunately Mr P had simply forgotten to subtract the RL of the ground from the RL of the handlebar on the largest bike whilst assuming constant tyre pressure, negligible wind, and a linear velocity of 1.3m/s, (as he normally does) hence he did not calculate that modifications were necessary to complete this particular manoeuvre. Anyway, the result....one broken roof rack, one deformed roof, two scrapped bikes and a long queue and round of applause at the drive through. He never did say if he carried on and bought the chicken. We suspect not!

### Caption Competition

The competition in this issue of **LIQUIDITY** takes on a different format. All you have to do this time is think of a suitable caption for the picture on the right. If you are not aware, the guy in photo is Brad, AJM's Installation Manager who was caught in action on site in Queensland recently. The best and most imaginative caption received will win a Sanity music voucher. More than one prize may be given (which is why we have not stated the amount) but it will be at least a CD's worth.



Email your captions to [captioncompetition@ajmenviro.com.au](mailto:captioncompetition@ajmenviro.com.au)



# Back page news

## Brain Teaser Competition RESULTS



In the last issue of **LIQUIDITY** we published a brain teaser competition. If you can't remember it, it was something about John wanting to marry Effie Chopopolis but her father thinking him not worthy (John K does have these problems but that's another story). Anyway the first correct answer was from Andrew Richardson from *Australian Water Services* in Sydney. The answer for those who did give it a go was **Room 7**. The solution is fully detailed on our web site if you are interested. Andrew (pictured below) very kindly donated the \$100 prize to the Red Cross. An excellent cause. Thanks Andrew. The date with John K we believe is still on the cards when John decides what to wear. If this happens we will keep you posted.



There will be no prizes for emailing us with a "look-a-like" but the resemblance to an ex footballer is quite uncanny don't you think?

## AJM in Western Australia



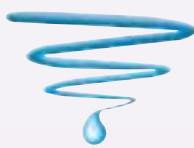
**EMA** Pumping Systems are announced as AJM's representative in Perth. Denis Hunt, (Managing Director of EMA) started in the pump game way back in 1968 with Ajax Pumps in Melbourne, working his way through to senior industrial estimator whilst studying for a Certificate of Engineering and Sales and Marketing at night school. 1975 to 1976 saw Denis based in London trying to earn a living on the tennis circuit. It didn't take him long to realise that his ambitions had some how got mixed up with his capabilities although he reportedly did manage to play a match against Jimmy Connors at one stage (no surprise who won!). So he

found himself supplementing his tennis earnings with stints working for Worthington Pumps and Mono Pumps in London.

A despondent Denis returned to Ajax Pumps in Perth at the end of 1976 as the sales manager until 1984. From there Denis moved to Malcolm Thompson Pumps and was promoted to the national sales and marketing manager where he remained until 2001. Denis decided to start his own business, E M A Pumps, in 2001 specialising in pumps and environmental services. The AJM Environmental Services Group wishes EMA great success with this venture.

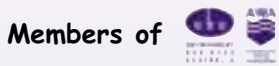
**Good Luck!**

**AJM** have been awarded a contract to supply a Huber MiniCOP inlet screenings machine for a project on King Island. John K is having a cheese and wine party on his return from commissioning. All are invited!



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## Sewage or Sewerage?

There seems to some to confusion as to the correct use of these two words. If anyone would like to offer a proper (or humorous) explanation of when sewage is sewerage and when sewerage is sewage we will publish it in our next issue.



If you are reading someone else's copy of this newsletter and would like one just for yourself, let us know and we will add you to our mailing list. On the other hand if you don't want to receive future copies of **LIQUIDITY**, email us your contact details and we will add or delete you from our list.  
Address to:  
[newsletter@ajmenviro.com.au](mailto:newsletter@ajmenviro.com.au)

- As you may have noticed we have not advertised in **LIQUIDITY** for the last two issues. It is not that we are selfish we just wanted to use all the space for ourselves. Lots to write about you see! If you would like to advertise though, send us an offer for consideration. You maybe lucky. Circulation is quite a lot really so it may be worth while!

ADVERTISING OPPORTUNITIES