

AQUATALK



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colleague you think may
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Visit us at Ozwater'10

AWQC will be exhibiting at the Ozwater'10 Brisbane trade exhibition in booth 35. Come and see for yourself that AWQC is at the forefront of water quality science through its excellence in research, development and innovation.

Its free to attend for trade visitors from Monday 8 March until lunchtime on Wednesday 10 March. Over 200 exhibitors will showcase the latest in water industry science. Get your invite or

Dear Aquatalk Subscriber

Welcome to the 3rd Edition of AQUATALK

With the New Year we're launching our fresh format e-newsletter, which you'll find provides briefer articles with links to our website if you'd like to read more. In the coming months we'll also be revamping our website to provide more information on our services. In this, our third issue of AquaTalk, we cover the latest news on changes in South Australian DOH requirements for Legionella, improved methods for the identification of organics in water, reporting of results, and the very latest on the research front. As always, we value your feedback on any items you'd like us to cover in future issues. Happy reading!

Karen Simpson Manager Laboratory Services
and Chris Saint Research Development and
Innovation Manager

Reporting results and invoice delivery

AWQC currently offers two methods for reporting final results, pdf report and excel spreadsheet. These are sent via email, however can also be sent via fax or post. Emailed results can be sent to as many as 5 separate contacts if required.

Preliminary pdf reports can be provided as requested at any time to enable you to receive completed results. If you have a requirement to report results that exceed specific guideline levels to governing bodies (EPA, DOH) AWQC can provide an instant notification via an email to your nominated contacts at the time of result authorisation. Please note these results are subject to change as they are not fully NATA endorsed until a final report is produced.

All invoices are sent as two documents. A detailed debit report and a tax invoice. Invoices can be sent via email (2 separate

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attachments), fax or post. Please note invoices can only be sent to one contact, however this doesn't need to be the same person that receives the results, for example invoices can be sent directly to your accounts payable department.

For further details please contact AWQC Customer Service on 1300 653 366 or [EMAIL HERE](#)

Change to sampling requirements for Legionella in hot or warm systems

In 2008, The Department of Health (DOH) in South Australia released new regulations and guidelines for the control of Legionella and the management of hot and cold water systems. The most significant change to the sampling regime for hot and warm systems (45C or greater) involves collection of samples prior to flushing. So water samples are to be collected into a sterile sample container (PET 600mL, Sodium Thiosulphate dosed) from the initial run of water from the outlet of the shower, bath tap or other outlet. Contrary to sampling for other microbiological examinations **do not flush the outlet prior to collection**. Separate samples, collected after flushing are required if evaluating heterotrophic colony counts.

For further information, including definitions of hot and warm water systems, please refer to South Australias [DOH's Legionella web page](#)



New GC/MS Scan method

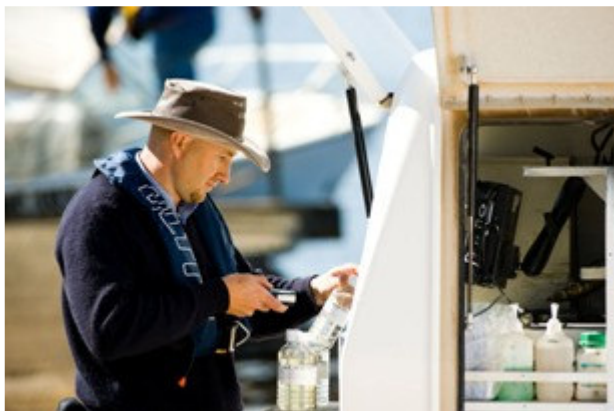
Gas Chromatography Mass Spectrometry or GC/MS Full Scan is a widely used analytical scan technique for determining the presence of unknown organic compounds in water samples. The Organic Chemistry Services Lab has employed Hexane Extraction GC/MS Scan and Purge and Trap GC/MS Scan for determining certain groups of organic contaminants. Now, we offer a new test method — Dichloromethane Extraction GC/MS Scan to improve the extraction efficiency. This method enables a wider range of organic contaminants to be detected from water assisting greatly in dealing with water quality incidents.



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Field analyses now available

The AWQC's Field Laboratory Services Team are now offering more tests in the field. To meet holding time requirements of standard AS/NZ 5667, all pH and Conductivity analyses are now performed on collection of the water sample. These new field tests are NATA accredited as per the equivalent laboratory test and are in addition to our Chlorine residuals and Dissolved Oxygen analyses already conducted in the field. The cost of field analyses is the same as the laboratory analysis and all pH and Conductivity samples currently collected by AWQC will be replaced by the field based tests.



The limitations of current pathogen indicators

AWQC Microbiology Research undertook a Water Environment Research Foundation (WERF) project to investigate process indicators for a range of human pathogens and viruses in wastewater. Pathogen indicator pairs were identified and their removal or inactivation was investigated in commonly used domestic wastewater treatment processes in Australia, and two sites in both South Africa and the United Kingdom. [READ MORE](#)

Water Research Centre projects with AWQC

The Water Research Centre at the University of Adelaide brings together scientists, engineers and economists to address water management issues of national significance. The special relationship with AWQC is growing, with a number of collaborative projects. [READ MORE](#)



Water Quality Solutions

www.awqc.com.au

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