

Tasleem Hasan

Workgroup Manager – Drinking Water

Profile

Tasleem has 15 years of experience in drinking water quality management, including regulation, process improvement, risk management and auditing. He has been working extensively in the Australian water industry over the past several years, identifying and discussing key water supply issues and providing advice on potential improvements and regulatory compliance. These not only include engineering solutions but also establishing longer-term management systems for continued quality of service.

Tasleem has also worked extensively in a number of Pacific island developing countries on various high profile WASH projects, including water safety plans, water quality monitoring, water demand management, integrated water resources management, appropriate sanitation technologies and hygiene campaigns.

Project Experience

Risk Management Plan Development

Developed numerous risk management plans (DWQMP or DWMS), including risk assessment workshops, gap analysis against the requirements, drinking water treatment plants and reticulation networks inspection, investigated water sources and distribution infrastructure, prepared risk briefing papers, undertook comprehensive water quality data assessment, and established critical control points. For example, plans have been developed for:

Aussie World QLD, Mount Isa City Council QLD, Mount Isa Water Board QLD, Cloncurry Shire Council QLD, Carpentaria Shire Council QLD, Bellingen Shire Council NSW, Tenterfield Shire Council NSW, Inverell Shire Council NSW, Essential Water NSW, Tibbooburra Water NSW, Jenolan Caves Trust NSW, Armidale Dumaresq Council NSW, Parkes Shire Council NSW.

Risk Management Plan Review

Reviewed and/or updated Plans including process efficiency, system streamlining, assessment of water quality data, progress of the improvement plan, currency and accuracy of the document, review of the risk assessment and review of the monitoring plan and incident response protocol. These have included regulatory reviews also. For example, reviews have been undertaken for:

Central Coast Council NSW, Edward River Council NSW, Yass Valley Council NSW, Snowy Monaro Regional Council NSW, Balranald Shire Council NSW, Queensland Urban Utilities QLD, Mount Isa City Council QLD, Mount Isa Water Board QLD, Cloncurry Shire Council QLD, Carpentaria Shire Council QLD, Liverpool Plains Shire Council NSW, Tweed Shire Council NSW, Lithgow City Council NSW, Guyra Shire Council NSW, Corowa Shire Council NSW, Walcha Council NSW, Greater Hume Shire Council, NSW, Murrumbidgee Council, NSW.

Risk Management Plan Implementation

Worked with service providers to implement the Plan, including improvement actions such as developing standard procedures, reporting protocols, data investigation, presentation to Council, staff training and preparation of annual reports. Implementation support work has been undertaken for:



Qualifications

- MSc (Chemistry)
- BSc (Chemistry and Mathematics)
- Postgraduate Diploma in Chemistry
- Postgraduate Certificate IWRM
- Lead Auditor DWQMS

Affiliations

- Australian Water Association
- Small Community Water Supplies Network
- Asia-Pacific Water Safety Plans Network

Specialisations

- Risk assessment
- Water quality – management, monitoring and data analysis
- Auditing
- Project management
- WASH

Work History

Aug 2012 - Present

Viridis Consultants Pty Ltd
Workgroup Manager – Drinking Water (Feb 18 to present)
Senior Consultant (Jan 13 to Jan 18)
Consultant (Aug 12 to Jan 13)

Jan 2012 to Jul 2012

Department of Energy and Water Supply
Brisbane
Senior Project Officer – DWQMP Assessment

Jun 2009 to Nov 2011

Secretariat of the Pacific Community, SOPAC
Division, Fiji
Water Services Coordinator

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Workgroup Manager – Drinking Water

Mount Isa City Council QLD, Carpentaria Shire Council QLD, Walcha Council NSW, Liverpool Plains Shire Council NSW, Parkes Shire Council NSW, Guyra Shire Council NSW, Lithgow City Council NSW, Bellingen Shire Council NSW, Corowa NSW, Greater Hume Shire Council, NSW, Murrumbidgee Council NSW.

DWQ Incident and Emergency Response Plans

Prepared the drinking water quality incident and emergency response plans (IERP) for service providers. This involved incident and emergency levels, actions to be undertaken, reporting requirements, communication protocols and reporting forms. IERPs have been developed for:

Central Coast Council NSW, Snowy Monaro Regional Council NSW, Mount Isa City Council QLD, Carpentaria Shire Council QLD, Mount Isa Water Board QLD, Walcha Council NSW, Liverpool Plains Shire Council NSW, Parkes Shire Council NSW, Corowa Shire Council NSW, Bellingen Shire Council NSW, Guyra Shire Council NSW, Lithgow City Council NSW, Murrumbidgee Council, Greater Hume Shire Council NSW.

Investigations and Data Analysis

Undertook catchment and WTP assessments for application of health-based targets (HBTs) approach, comprehensive data analysis during the development of DWQMP or DWMS, as well as have undertaken studies to inform and improve operations or inform decision making. For example, projects include:

- Kyogle Council – TOC, chlorine demand and DBPs study
- Edward River Council – catchment risk assessment
- Department of Housing and Public Works – catchment and treatment plant assessment using HBTs approach for selected correctional centre facilities.
- Queensland Urban Utilities – parameter correlations for *E. coli* detections
- Mount Isa Water Board – chlorine dosing strategy
- Queensland Health – *Legionella* and water quality relationship
- Parkes Shire Council – chlorine decay study
- Mount Isa Water Board – laboratory QA/QC practice improvement
- Providers assisted with the development of the DWQMPs (earlier)

Audits

Exemplar Global certified lead DWQ management systems auditor; and on the Queensland Government, IPART NSW and Tasmanian DHHS approved auditors panels to provide audit services for water supply plans. Audits undertaken include:

- Isaac Regional Council – DWQMP regulatory audit
- Toowoomba Regional Council – DWQMP regulatory audit
- Far North Queensland Regional Organisation of Councils – DWQMP regulatory audit for 6 councils
- WaterNSW – operating licence audit (lead for water quality and catchment)
- Walcha Council NSW – DWMS internal audit
- QLD regulator – spot audit for a council
- Tweed Shire Council NSW – DWMS review and audit
- Seqwater DWQMP QLD – regulatory audit

2006 – May 2009

Water and Sanitation Programme, SOPAC Commission, Fiji

Water Quality Monitoring Programme Officer

2005 – 2006

Water and Sanitation Programme, SOPAC Commission, Fiji

Water Quality Officer

2004 – 2005

Analytical Laboratory, University of the South Pacific

Scientific Officer

2003 – 2004

Analytical Laboratory, University of the South Pacific

Research Assistant / Analyst

2000 – 2002

Chemistry Department, University of the South Pacific, Fiji

Graduate Assistant / Tutor

Publications

1. Ozwater 2016. Poster Presentation – Risk Based Management – Benefits and Opportunities for a Regional Council. 2016
2. Ozwater 2015. Technical paper – Overcoming Water Supply Challenges in Parkes Regional Community. 2015
3. Ozwater 2014. Technical paper – Improving Treatment Efficient in the Carpentaria Shire Outback. 2014
4. Journal Paper – Assessing Reported Use and Microbiological Performance of a Point-of-use Household Water Filter in Rural Fiji. 2013. Journal of Water, Sanitation and Hygiene for Development.
5. Journal Paper - Empowering Rural Communities: Simple Water Safety Plans. 2011. Water Science and Technology: Water Supply journal.
6. Journal Paper - Implementation of Drinking Water Safety Plans and Lessons from the Pacific islands. 2011. WaterLines: International Journal of Water, Sanitation and Waste.
7. Pacific Drinking Water Safety Planning Audit Guidelines. 2011. Joint Contribution Report. PR25. SOPAC Division, Suva.
8. Drinking Water Safety Planning and Water Quality Monitoring Training Package. 2010. SOPAC Secretariat, Suva.
9. Designing a Drinking Water Quality Monitoring Programme - a practical guide for Pacific Island Countries. 2008. SOPAC Technical Report 407.

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- Redland Water DWQMP QLD - regulatory audit
- Gold Coast Water DWQMP QLD - regulatory audit
- Gladstone Area Water Board DWQMP QLD - regulatory audit
- Water NSW DWQMS NSW – audit team
- Hunter Water DWQMS NSW – audit team
- Kooralbyn WTP – internal HACCP plan audit

SOPAC Secretariat, Suva.

Best Practices Guide for Water Laboratories. 2007. SOPAC Technical Report 405. SOPAC Secretariat, Suva.

10. *Country Level Implementation. Case Study: The Republic of the Marshall Islands. 2008. SOPAC Secretariat, Suva.*
11. *Contributed to WHO Guidelines for drinking water quality. 2011. 4th Edition. Name on page 512.*
12. *Drinking Water Safety Planning Guide for Pacific Island Countries. 2008. SOPAC and WHO, Suva. (contributed to)*