

# water footprinting

## Principles, methods & guidelines

One day workshop at  
Waipuna Hotel, Auckland

**Tuesday, 27<sup>th</sup> March 2012**  
**9.15am – 4.45pm**

This workshop coincides  
with the **NZ LCA Conference**  
on 28<sup>th</sup> and 29<sup>th</sup> March, 2012.  
More information at [www.lcaconference.org.nz](http://www.lcaconference.org.nz)

### Registration and Fees:

Participants can register and attend the workshop as a part of the NZ LCA Conference 2012 or as a specialised stand-alone workshop. The fee is NZ\$249 for attending the workshop.

For registration and administrative enquiries, contact:

Carol Kelly

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Phone: 021 860 226

**For queries about the content of the workshop, contact Ranvir Singh or Alec Tang.**

Ranvir Singh

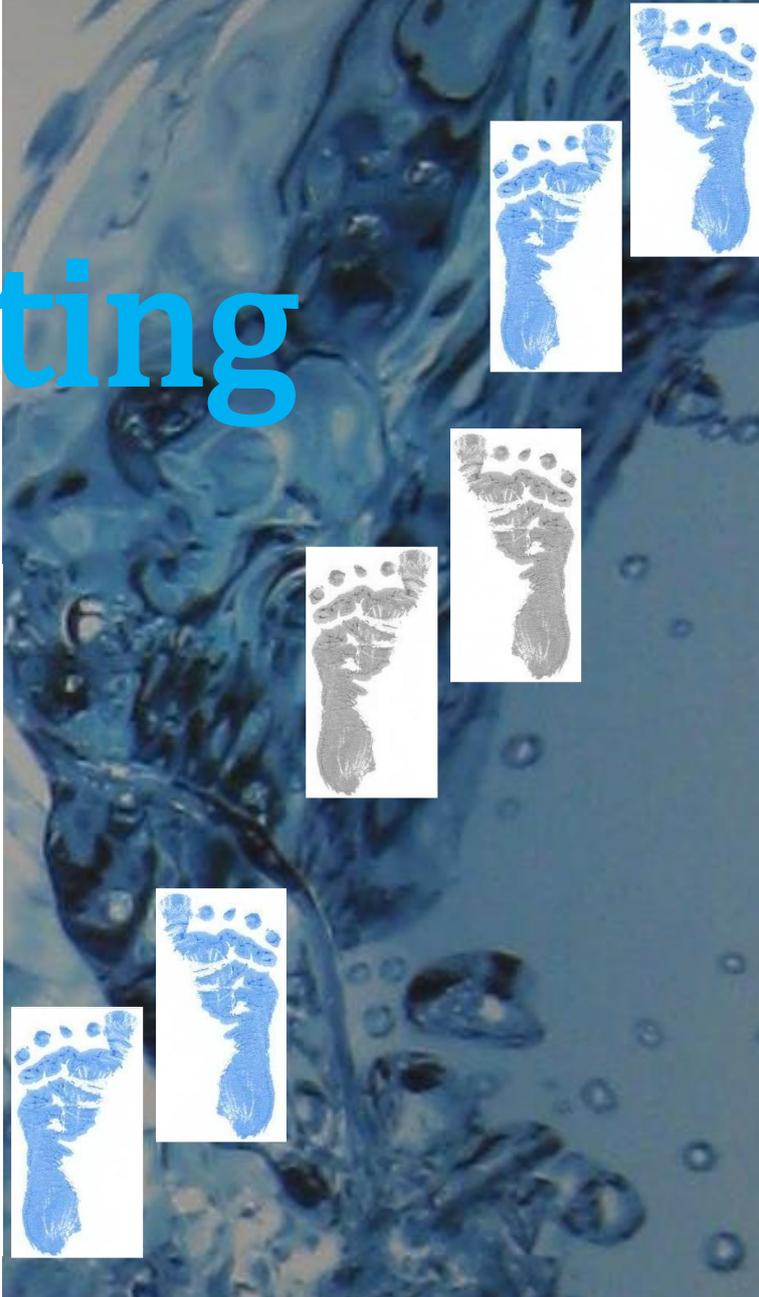
E-mail: [R.Singh@massey.ac.nz](mailto:R.Singh@massey.ac.nz)

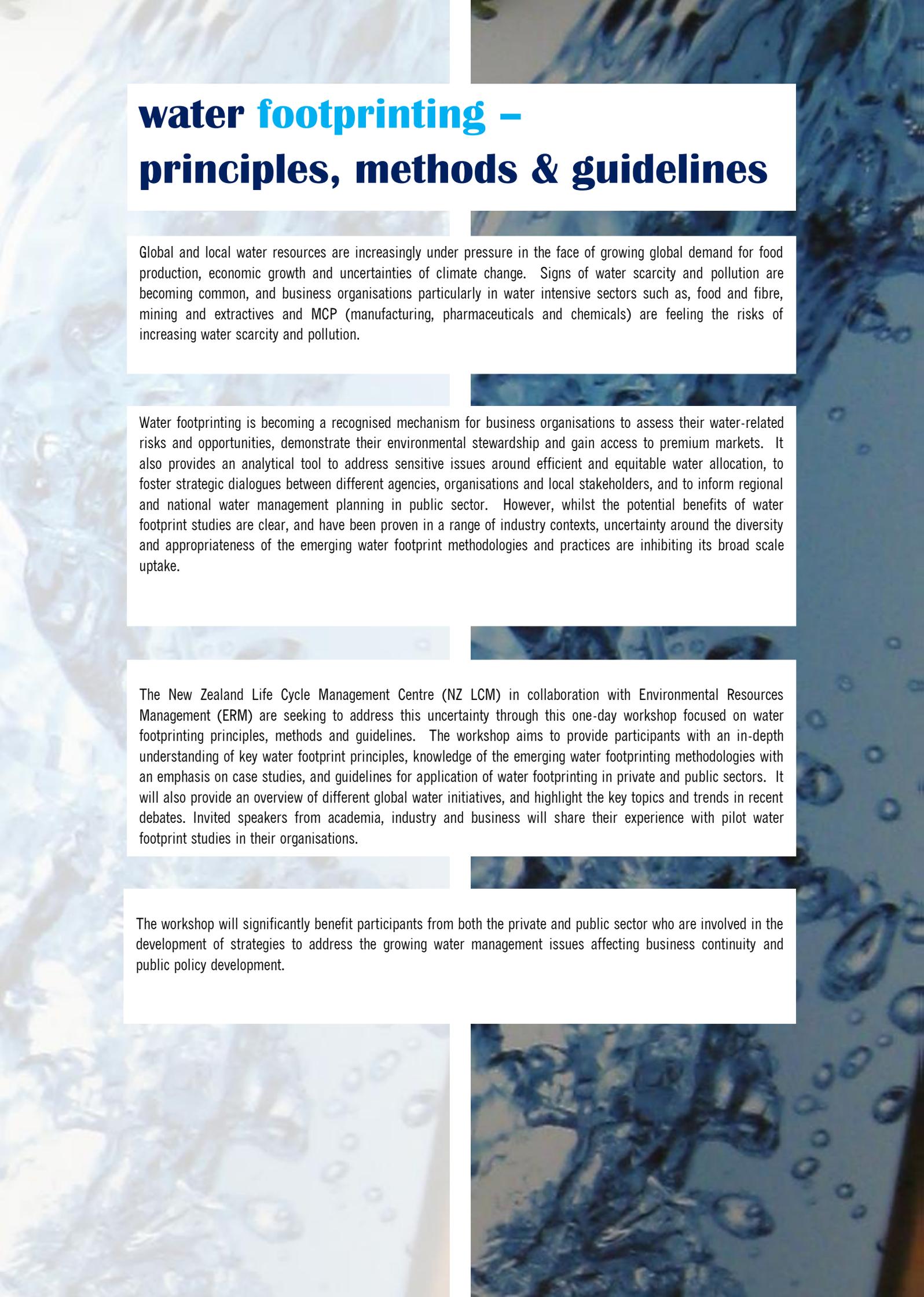
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# **water footprinting – principles, methods & guidelines**

Global and local water resources are increasingly under pressure in the face of growing global demand for food production, economic growth and uncertainties of climate change. Signs of water scarcity and pollution are becoming common, and business organisations particularly in water intensive sectors such as, food and fibre, mining and extractives and MCP (manufacturing, pharmaceuticals and chemicals) are feeling the risks of increasing water scarcity and pollution.

Water footprinting is becoming a recognised mechanism for business organisations to assess their water-related risks and opportunities, demonstrate their environmental stewardship and gain access to premium markets. It also provides an analytical tool to address sensitive issues around efficient and equitable water allocation, to foster strategic dialogues between different agencies, organisations and local stakeholders, and to inform regional and national water management planning in public sector. However, whilst the potential benefits of water footprint studies are clear, and have been proven in a range of industry contexts, uncertainty around the diversity and appropriateness of the emerging water footprint methodologies and practices are inhibiting its broad scale uptake.

The New Zealand Life Cycle Management Centre (NZ LCM) in collaboration with Environmental Resources Management (ERM) are seeking to address this uncertainty through this one-day workshop focused on water footprinting principles, methods and guidelines. The workshop aims to provide participants with an in-depth understanding of key water footprint principles, knowledge of the emerging water footprinting methodologies with an emphasis on case studies, and guidelines for application of water footprinting in private and public sectors. It will also provide an overview of different global water initiatives, and highlight the key topics and trends in recent debates. Invited speakers from academia, industry and business will share their experience with pilot water footprint studies in their organisations.

The workshop will significantly benefit participants from both the private and public sector who are involved in the development of strategies to address the growing water management issues affecting business continuity and public policy development.

## workshop

### presenters include:

Dr Brent Clothier



Brent is Group Leader of Systems Modelling within Plant & Food Research. He is an Adjunct Professor in the School of Earth & Environment of the University of Western Australia, as well as Adjunct Professor in the Life Cycle Management Centre.

Brent has a BSc (Hons) from Canterbury University, and a PhD and DSc from Massey University. Brent is a Fellow of the Royal Society of New Zealand, the Soil Science Society of America, the American Agronomy Society, the New Zealand Soil Science Society, and the American Geophysical Union.

Dr Sarah McLaren



Sarah is Director of the New Zealand Life Cycle Management Centre (NZLCM Centre), and Associate Professor in Life Cycle Management at Massey University, New Zealand.

Currently Sarah is Chair of the Standards New Zealand International Review Group on Carbon and Water Footprinting Standards, and New Zealand representative on the ISO 14046 "Water Footprint: Requirements and Guidelines" Working Group.

Ranvir Singh



Ranvir is a Senior Lecturer and member of New Zealand Life Cycle Management at Massey University.

Since 2000 he has gained significant knowledge and experience while working in different projects related to water management at different scales in different landscapes in India, USA, Australia and New Zealand.

He specializes in application and advancement of water accounting, water productivity and water footprinting methodologies to assess and improve water use and its management in private and public sectors. Ranvir received training from the Water Footprinting Network, and since then has been participating and contributing in the network's 'Grey Water Footprint' and "Water Footprint Response Strategy" Working Groups. He is also serving as a member of the Standards New Zealand International Review Group on LCA, New Zealand representative on the ISO 14046 "Water Footprint: Requirements and Guidelines" Working Group.

Alec Tang



Senior Sustainability Consultant and Asia-Pacific Lead for Integrated Water Management, Environmental Resources Management

Alec Tang is a Senior Consultant whose focus at ERM centres on the development of sustainable business through a combination of strategic insight and the identification and introduction of specific programs for change. Within this sphere, Alec also plays a central role in the growth of ERM's Integrated Water Management practice as the Asia-Pacific lead, driving forward the development of the product offering, whilst also delivering a range of specific water sustainability projects, from water efficiency audits and water footprinting, through to water risk identification and management. Alec is a Chartered Environmentalist with close to ten years experience in the UK, Australia, New Zealand and the wider Asia Pacific region. Prior to working for ERM, Alec worked for the University of Oxford as a Knowledge Transfer Manager in the field of innovative environmental technologies.