

## **Dr David Roser**

BSc (Hons) (1976), PhD (1982), M Env. Planning (1994)

Senior Research Officer, Centre for Water and Waste Technology, UNSW (1999 - present)

### **Employment History**

Senior Project Officer	NSW DLWC, Penrith	1999
Senior Natural Resources Officer/Acting Director	Hawkesbury Nepean Catchment Mmgt Trust	1995 – 1998
Post-Doctoral Research Fellow	University of Western Sydney	1992 – 1995
Wintering Biologist	Antarctic Division, Hobart/Casey Station	1989 - 1992

### **Expertise**

Dr. Roser is a Senior Research Officer on UNSW Node of the European Union 'MicroRisk' Project aimed at applying Quantitative Risk Assessment techniques to the catchment to tap based management of drinking water supplies. He currently manages recreational water quality Microbial Risk Assessment Projects (Lake Parramatta, Penrith Lakes) and has just completed a major inter state CRC for Water Quality and Treatment Project on Monitoring and Management of Pathogens in Environmental Waters (Project value \$3.2 million). Other duties include general consulting with the Centre for Water and Waste Technology for HACCP application to recreational water quality management

### **Selected Publications:**

1. Ashbolt NJ, Roser D (2003). Interpretation and management implications of event and baseflow pathogen data. In *Watershed Management for Water Supply Systems*. (Eds MJ Pfeffer, DJV Abs and KN Brooks) pp. CD-ROM. American Water Resources Association, New York City, New York June 30 - July 2, 2003.
2. Charles K, Roser D, Ashbolt N, Deere D, McGuinness R (2003a). Buffer distances for on-site sewage systems in Sydney's drinking water catchments. *Water Science and Technology* 47(7-8):183-189.
3. Charles K, Schijven J, Ferguson C, Roser D, Deere D, Ashbolt N (2003b). Human enteric viruses: designing on-site sewage disposal systems to protect public health. In *On-site 03. Future Directions of on-site systems: Best Management Practice*, 30 September-2 October pp. (CD-ROM). University of New England, Armidale, NSW.
4. Charles KJ, Ashbolt NJ, Roser DJ, McGuinness R, Deere DA (2005). Effluent quality from 200 on-site sewage systems: design values for guidelines. *Water Science and Technology* 51(10):(in press).
5. Roser D, Ashbolt N, Ongerth J, Vesey G (2002). Proficiency testing of *Cryptosporidium* and *Giardia* analyses - an Australian case study. *Water Science and Technology: Water Supply* 2(3):39-46.
6. Roser DJ, Ashbolt NJ, Leeming R, Kagi R, Waite TD (2003). Source water fingerprinting using sterols and particle size analyses and the management of faecal pollution and turbidity. In *Proc. 28th International Hydrology and Water Resources Symposium*, 10 - 14 November 2003. (Eds MJ Boyd, JE Ball, MK Babister and J Green) pp. 355-362. The Institution of Engineers, Australia, Barton ACT.
7. Signor RS, Roser DJ, Ashbolt NJ, Ball JE (2005). Quantifying the impact of runoff events on microbiological contaminant concentrations entering surface drinking source waters. *Journal of Water and Health* (in press)