



resources guide

On-site sanitation and groundwater quality

Most of the work in this area appears in journals; a list of some relevant papers are given. Relatively few books are available on the subject, although a manual and scientific review will be available in 2000 resulting from the ARGOSS project. In addition, the proceedings of a recent conference on sanitation, water quality and health held in Bad Elster will be published through the International Association on Water Quality journal, *Water, Science and Technology*.

The following references were used in the Lewin *et al.* article

Bacterial Contamination of Water in Rural Areas: An intervention study from Malawi
P. Lindskog and U. Lindskog, *American Journal of Tropical Medicine and Hygiene*, 91: 1988, pp.1-7. ISSN 0002 9637.

The Benefits of Water Supply
S. Cairncross in *Developing World Water*, edited by J. Pickford, Grosvenor Press, London, 1987. 500pp. Pbk. £19.95. ISBN 0 946027 29 3.

A Case-Control Study of the Impact of Improved Sanitation on Diarrhoea Morbidity in Lesotho
D.L. Daniels, *et al.*, *Bulletin of the World Health Organisation*, 68(4): 1990, pp.455-63. ISSN 0042 9686.

Cities in the 1990s: The challenge for developing countries
Edited by N. Harris, University College London Press, London, 1992.

Determinants of Water Quality, Availability and Use in Kurunegala, Sri Lanka
T.E. Mertens, *et al.*, *Annals of Tropical Medicine and Parasitology*, 41: 1990, pp.89-97. ISSN 0003 4983.

Diarrhoeal Diseases
J. Martinez, *et al.*, in *Disease control priorities in developing countries*, D. Jamison, W.H. Mosley, *et al.*, OUP, New York, 1994. 746pp. Hbk. £68.95. ISBN 0 19 520990 7.

The Effect of the Type of Water Supply on Water Quality in a Developing Community in South Africa
B. Genthe, *et al.*, *Water, Science and Technology*, 35(11-12): 1997, pp.35-40. ISSN 0273 1223.

Environmental Interventions in Developing Countries: Interactions and their implications
J. VanDerslice and J. Briscoe, *American Journal of Epidemiology*, 141(2): 1995, pp.135-44. ISSN 0002 9262.

Health Education Interventions in Developing Countries: A methodological review of published articles
B.P. Loevinsohn, *International Journal of Epidemiology*, 19(4): 1990, pp.788-94. ISSN 0300 5771.

How Much Global Ill Health is Attributable to Environmental Factors?
K.R. Smith, *et al.*, *Epidemiology*, forthcoming, 1999. ISSN 1044 3983.

Hygiene, Skin Infections and Type of Water Supply in Venda, South Africa
P.E. Verweij, *et al.*, *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 85: 1991, pp.681-4. ISSN 0035 9203.

Linking Health and Environment in Cape Town, South Africa: The view from local government
S. Lewin, *et al.*, Report submitted to the LSHTM, 1998. Free. Copies from the Secretary, Health Systems Division, Medical Research Council of South Africa, PO Box 19070, Tygerberg 7505, South Africa. Fax: + 27 21 938 0483. E-mail: < sylvia.louw@mrc.ac.za >

Review of the Health Impacts of Environmental Improvements in Cochin and Cuttack, India
S. Lewin, *et al.*, Report prepared for the ODA by the LSHTM, 1996. Free. Copies from Simon Lewin, Environmental Epidemiology Unit, LSHTM, Keppel St, London WC1E 7HT, UK. Fax: + 44 171 580 4524. E-mail: < simon.lewin@lshtm.ac.uk >

The State of the World's Children 1998
UNICEF, OUP, Oxford, 1998. 130pp. Pbk. £6.95. ISBN 0 19 829401 8.

Studying Hygiene Behaviour: Methods, issues and experiences
Edited by S. Cairncross and V. Kochar, Sage Publications, London, 1994. 336pp. Hbk. £29.00. ISBN 0 8039 9159 2.

The Sustainable Use of Urban Environmental Health Indicators:

Improving the understanding of the needs of the poor
S. Cairncross, *et al.*, Technical report prepared for the Engineering Division of DFID, 1998. Free. Copies from Caroline Hunt, LSHTM, (as above). E-mail: < caroline.hunt@lshtm.ac.uk >

This is My Beautiful Home: Risk perceptions towards flooding and environment in low-income urban communities. A case-study in Indore, India
C. Stephens, *et al.*, Urban Health Programme Publication, London School of Hygiene and Tropical Medicine, London, 1994. Free. ISBN 0 902 6 5748 8. Copies from Simon Lewin, (see above).

Water Supply, Sanitation and Hygiene Education: Report of a health impact study in Mirzapur, Bangladesh
K.M.A. Aziz, *et al.*, UNDP-World Bank Water and Sanitation Programme, World Bank, Washington, 1990. 91pp. Pbk.

Water Use and Health in Mueda, Mozambique
S. Cairncross and J.L. Cliff, *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 81: 1987, pp.51-54. ISSN 0035 9203.

Other papers, journals and books of interest

Field Hydrogeology
R. Brassington, John Wiley, London, 1988. 264pp. Pbk. £19.99. ISBN 0 471 97347 5.

The Global Burden of Disease: A comprehensive assessment of mortality and disability from diseases, injuries and risk factors in 1990 and projected to 2020
Edited by C.J.L. Murray and A.D. Lopez, Global Burden of Disease and Injury Series, Volume I, Harvard University Press, Cambridge, USA, 1996. 900pp. Hbk. £24.95. ISBN 0 674 35448 6.

Groundwater Quality
H. Nash and J. McCall, Chapman and Hall, London, 1994. 224pp. Pbk. £66.00. ISBN 0 412 58620 7.

Health and Environment in Sustainable Development. Five Years after the Earth Summit
WHO, Geneva, 1997. 242pp. Pbk. £15.50. ISBN 0 11 951764 7.

Impacts of Wastewater Use and Disposal on Groundwater
S.S.D. Foster, *et al.*, British Geological Survey Report, Technical Report WD/94/55, 1994. £12.00.

The Pollution Hazard to Village Water Supplies in Eastern Botswana.
W.J. Lewis, *et al.*, *Proceedings of the Institute of Civil Engineers*, 69(2): 1980, pp.281-93. ISSN 0307 8361.

Quarterly Journal of Engineering Geology
Vol. 30, 1997. ISSN 0481 2085. A series of papers dealing with different aspects of groundwater microbiology including public health implications.

The Risk of Groundwater Pollution by On-site Sanitation in Developing Countries: A literature review
W.J. Lewis, *et al.*, IRCWD Report No 01/82, IRCWD, 1980. Copies may be available on request from IRCWD, Duebendorf, Switzerland.

A Strategy for Evaluating the Environmental Impact of On-site Sanitation Systems
M.B. van Ryneveld and A.B. Fourie, *Water SA*, 23: 1997, pp.279-291. ISSN 0378 4738.

WEDC Conference Reports
Several of these reports contain papers dealing with investigations into groundwater pollution by on-site sanitation. Contact: WEDC, Loughborough University, Loughborough, Leics. LE11 3TU, UK. Fax: + 44 1509 211079.

WHO Guidelines for Drinking Water Quality Volume 3: Surveillance and Control of Community Supplies (2nd edition)
WHO, Geneva, 1997. 238pp. Pbk. £46.00. ISBN 9 2415 4 503 8.