

## Appendices

### **1 Depth of conduit flow in unconfined carbonate aquifers, by S.R.H. Worthington**

This was published in 2001 in *Geology*, volume 29, pages 335-338.

### **2 An examination of short-term variations in water quality at a karst spring in Kentucky, by M. Ryan and J. Meiman**

This was published in 1996 in *Ground Water*, volume 34, pages 23-30.

### **3 Test methods for developing a conceptual model for a PCB-contaminated carbonate aquifer, by S.R.H. Worthington and D.C. Ford**

This was published in a conference proceedings. A revised version was published in 2002 as *Test methods for characterizing contaminant transport in a glaciated carbonate aquifer* in *Environmental Geology*, volume 42, pages 546-551.

### **4 Electrical conductivity profiling at three test wells in Walkerton, by C.C. Smart**

A more detailed explanation of the data from one well was published in 2003 as *Electrical conductivity profiling of boreholes as a means of identifying karst aquifers* in *Sinkholes and the engineering and environmental impacts of karst*, American Society of Civil Engineers, Special Publication 122, pages 265-276.

### **5 Delineation of source-protection zones for carbonate springs in the Bear River Range, northeastern Utah, by L.E. Spangler**

This was published in 1999 in a conference proceedings (Karst Modeling, published by the Karst Waters Institute). An updated and expanded version was published as *Use of dye tracing to determine conduit flow paths within source-protection areas of a karst spring and wells in the Bear Rivber Range, northern Utah*, in *U.S. Geological Survey Karst Interest Group Proceedings, Shepherdstown, West Virginia, August 20-22, 2002* (Water Resources Investigations Report 02-4174).

### **6 Hydrogeological aspects of groundwater protection in karstic areas by the European Commission**

These are extracts from *COST action 65, Hydrogeological aspects of groundwater protection in karstic areas, final report*, published by the European Commission in 1995

### **7 Curriculum vitae of Stephen R.H. Worthington**

### **8 Excerpts from downhole videos of Well 5 and of Test Well 1-86**