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| Nota di contenuto | Groundwater Monitoring; Contents; Foreword; Series Preface; Preface; The Series Editor - Philippe Quevauviller; List of Contributors; PART 1 GROUNDWATER MONITORING IN THE REGULATORY AND INTERNATIONAL CONTEXT; 1.1 General Introduction: Objectives of Groundwater Assessment and Monitoring; 1.2 Groundwater Monitoring in International Conventions and Agreements; 1.3 Groundwater Monitoring Approaches at International Level; PART 2 CONCEPTUAL MODELLING AND NETWORK DESIGN; 2.1 Conceptual Modelling and Identification of Receptors as a Basis for Groundwater Quality Assessment 2.2 Aquifer Typology, (Bio)geochemical Processes and Pollutants Behaviour 2.3 Visualising Groundwater - Aiding Understanding Using 3-D Images; PART 3 GROUNDWATER POLLUTANTS AND OTHER PRESSURES; 3.1 Occurrence and Behaviour of Main Inorganic Pollutants in European Groundwater; 3.2 Contaminant Behaviour of Micro-Organics in Groundwater; 3.3 Background Levels under the Water |

Framework Directive; 3.4 Quantitative Stresses and Monitoring Obligations; PART 4 GROUNDWATER QUALITY STANDARDS AND TREND ASSESSMENT; 4.1 Threshold Values and the Role of Monitoring in Assessing Chemical Status Compliance
4.2 Assessing and Aggregating Trends in Groundwater QualityPART 5 CASE STUDIES FOR GROUNDWATER ASSESSMENT AND MONITORING IN THE LIGHT OF EU LEGISLATION; 5.1 Groundwater Monitoring in Denmark and the Odense Pilot River Basin in Relation to EU Legislation; 5.2 Upper Rhine; 5.3 The Colli Albani Volcanic Aquifers in Central Italy; 5.4 Monitoring the Environmental Supporting Conditions of Groundwater Dependent Terrestrial Ecosystems in Ireland; 5.5 Use of WETMECs Typology to Aid Understanding of Groundwater-Dependent Terrestrial Ecosystems in England and Wales
5.6 Groundwater Quality and Quantity Assessment Through a Dedicated Monitoring Network: The Doñana Aquifer Experience (SW Spain)5.7 Llobregat Delta Aquifer; 5.8 Determination of Natural Background Levels and Threshold Values in the Neogene Aquifer (Flanders); PART 6 GROUNDWATER MEASUREMENTS; 6.1 Metrological Principles Applied to Groundwater Assessment and Monitoring; 6.2 Use of Isotopes for Groundwater Characterization and Monitoring; PART 7 ASSOCIATING EXTERNAL STAKEHOLDERS; 7.1 Groundwater Teaching at University Level in Spain
7.2 Factoring in Expertise: International Scientific Networks - Roles and Benefits7.3 Communication of Groundwater Realities Based on Assessment and Monitoring Data; Index

Sommario/riassunto

Groundwater is sometimes called "the hidden asset" - awareness of its existence and its importance is not well known and as a consequence the measures which are required to protect and manage it in an environmental sustainable way are either not taken or are taken too late. Where pollution has occurred and measures are taken too late it may take decades, or longer, until the necessary restoration of quality is achieved. This comprehensive text presents in the following sections: Groundwater monitoring in the regulatory and international contextConceptual modell
