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GENERAL ASPECTS ON URBAN HYDROGEOLOGY AND HIGHLIGHTS FROM BUCHAREST (ROMANIA)

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Abstract

The interaction between groundwater systems and urban environments has become an important challenge that fast developing modern cities must face. Contributing factors are, but not limited to, the continuous horizontal and vertical expansion of cities, population growth, climate change, water scarcity and water quality degradation. The present paper provides an overview on several aspects related to the interaction between aquifer systems and urban infrastructures. A review of urban groundwater related issues reported in case studies from cities worldwide is given in comparison with the situation in Bucharest city. The study emphasises the necessity of an integrated urban groundwater management and discusses supporting tools.

Key words: Bucharest, qualitative effects, quantitative effects, urban groundwater

Received: December, 2014; Revised final: June, 2015; Accepted: June, 2015

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