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**ASSESSMENT OF THE GROUNDWATER CAPACITY FOR AN GIANG PROVINCE TO THE YEAR 2020**

Nguyen Dinh Tu

**Summary**

Groundwater of An Giang province plays an important role in socio – economic development and national security. Thus, its capacity should be assessed and updated. In this paper, the author presents recent results of updating new data on the aquifers in An Giang province, which redefines the total area of the aquifers with an increase of 887 km<sup>2</sup> (6.94%). The results in a great significance in an assessment of groundwater reserves of An Giang province. In addition, the author applied a mathematical model to calculate the potential exploitation of ground water of the province is 583,399 m<sup>3</sup>/day (increased 19,676 m<sup>3</sup>/day, corresponding 3.5%), safety capacity of exploitation water is 175,020 m<sup>3</sup>/day (increased 3,935 m<sup>3</sup>/day, corresponding 2.3%). The results also determined the current exploitation status of the qp<sub>3</sub> aquifer exceeded the permitted level. On prediction for the year 2020, the author developed two scenarios: (1) Maintaining the groundwater exploitation rate for the purposes of daily life, agriculture and industry as the year 2013; (2) all groundwater for daily life, or industrial use, or agriculture, and calculated groundwater to meet each scenario. The results showed that groundwater can only be supplied for scenario 1 and is inadequate for scenario 2. Based on this result, the author has proposed a plan to use groundwater resources for An Giang province. Those results are very important for the province's groundwater management including appropriate adjustments to meet the actual groundwater condition.

**Keywords:** *Groundwater of An Giang province, potential capacity exploitation, safety capacity of exploitation, the year 2020.*

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