

Deep groundwater properties in the Kanto basin

Tomoya Bell[1]; Norio Tase[2]; # Atsunao Marui[3]

[1] Univ. Tsukuba; [2] Life and Enviro. Sci., Univ. Tsukuba; [3] GSJ, AIST

Research and development of shallow groundwater were already done in the urban area, like Tokyo. The water usage was now controlled, and also required to develop next deeper zone. The study was carried out to try to clarify the deep groundwater quality and process of deep groundwater trapping in geology. The target of the groundwater was existed in 300- to 2000-m, especially deep in the central part of the Tokyo city where is also the center of the Kanto basin. The study understands the origin of the deep groundwater was marine water in almost all of the Kanto basin which is corresponded the history of the geology, and fossil marine water and the geological water were the source of the salt water in the gas field in the central part of the Tokyo. The study also discuss the groundwater flow across the geological boundaries.