

Development of geological/geotechnical information in Saitama Prefecture, and its applications

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In order to collect and manage various kinds of underground data systematically, the Center for Environmental Science in Saitama, Japan, has developed a Geological/Geotechnical Information System. The system is essentially based on about 11,000 boring logs described in a format designed by the Japan Construction Information Center. The drilling data being stored by this system were taken for the purpose of construction works, and were offered to each department of the Prefectural government that needs geological/geotechnical information at any time. Besides the data were also used for the surveillance study of the soil and underground water pollution problem, the estimation of strong ground motion, and so on. In the breakdown of data, the public data which are owned by prefecture, cities, towns and villages are about 6,000, and individual data are 5,000. Here, we will introduce some recent approach using the database system in our center with brief explanations of the basic function of this system.