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Hydrogeological investigations for validation of groundwater flow modelling

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It is necessary to evaluate the influence on the environment by the groundwater flow analysis in the safety assessment of geological disposal of the radioactive waste.

We studied to acquire the new data to validate the large area groundwater flow model in the Horonobe region, Hokkaido.

A borehole of 700m and 2 boreholes of 150m were excavated respectively on the east side of the Horonobe Underground Research Laboratory and the west side.

We acquired the hydrogeologic data of the hydraulic head, the hydraulic conductivity, and the groundwater chemistry, etc.

Keywords: groundwater flow model, borehole, hydraulic conductivity, groundwater chemistry, hydraulic head