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Systematization of the management methodology on borehole core for evaluation the geological environment in coastal area

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Coastal area has the characteristic geological environments which would be radionuclide migration pathway such as the salt-water/ fresh-water interface and the concealed faults. And upgrading development of evaluation methodology to clarify them has been required. Therefore, we are carrying out the deep drilling survey to the depth of 1,004m on the coastal area of Horonobe town in Hokkaido and the laboratory analysis of the core. The analysis and laboratory tests of borehole core are important to understand the geological environments in the site. And wide-range information related to groundwater, rock properties and geology is required. However, if more information is required, the core management methods will be more complex because of the contents is deferent depend on the analysis and the laboratory tests. And incorrect core management would be caused the adverse effects on the results. So, the best core management is reliability requirement of evaluation methodology. In this study, we analyzed the contents on work and mindfulness from in-situ investigation to laboratory tests due to establish a systemized core management methodology. From the results to apply the developed methodology, it was possible to minimize the implications of the results. And an issue cited as a further shortening of working hours and a greater flexibility with a plan changes. In this report, we will mainly present the contents of the applied management methodology.

Keywords: Systematization, Manegement methodology, Borehole core, Geological environment, Coastal area