

## Geological survey for liquefaction-fluidization phenomena: New method of geological survey by new ACE liner

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Thinking about origin by collecting the stratum in the alluvial lowland that is the main living surface of us is very important. Liquidizing-fluidizing phenomenon occurs mainly in man-made strata distribution area in Chiba Prefecture, surface subsidence local area of more than 50cm occurs in the Tohoku-Pacific Ocean Earthquake in 2011. As one of the causes liquidizing-fluidizing, greater potential impact of geological structure of the deep alluvium and man-made strata of shallow has become high (Kazaoka et al., 2012). This improved ACE liner ((Japanese patent application No.3669495) in order to clarify the mechanism and certification of liquidizing-fluidizing point in the layer, and man-made strata deeper and man-made strata that has been soil filled with the dredged sand in shallow underground in this study because it was able to taken the state of the oriented and non-disturbing, observe various structures of the layer, and reports a research method.

Survey results, as well Geoslicer (Nakata et al., 1997) and, without having to be re-liquefaction during drilling the sand hard cohesive soil soft to subsurface 8m, new ACE liner became recoverable in undisturbed sample. Survey results, as well Geoslicer (Nakata et al., 1997) and, without having to be re-liquefaction during drilling the sand hard cohesive soil soft to subsurface 8m, new ACE liner became recoverable in undisturbed sample. On the other hand, there is the core shrinks during drilling and fall of the sand layer at the bottom device to prevent falling of the sample does not operate, loose sand layer is dehydrated deformation during press-fitting part. I believe you require improved by updating technology and experience accumulated in the future.

Keywords: Liquefaction-Fluidization, The 2011 off the Pacific coast of Tohoku, Chiba city, Man-made Strata, Geological survey, ACE liner