

Geologic character of liquefaction on Takenouchi reclaimed land of Sakaiminato-city by the 2000 Western Tottori Earthquake

Yukiko Hirata[1]

[1] Tokyo Institute of Polytechnics

The Western Tottori Earthquake (M=7.3) has occurred the western part of Tottori Prefecture at 13:30 on 6 October in 2000. Liquefaction has occurred on the reclaimed lands in Tottori and Shimane Prefectures. Especially Takenouchi reclaimed land in Tottori Prefecture was greatly damaged by the liquefaction. I researched the geologic character of the liquefaction of Takenouchi reclaimed land and considered about the relationship between the dredging work and the ground improvement after the dredging work and the liquefaction. Based on observation and analysis, the the ground improvement after the dredging work is important for the protection of the liquefaction.

The Western Tottori Earthquake (M=7.3) has occurred the western part of Tottori Prefecture at 13:30 on 6 October in 2000. Liquefaction has occurred on the reclaimed lands in Tottori and Shimane Prefectures. Especially Takenouchi reclaimed land in Tottori Prefecture was greatly damaged by the liquefaction. I researched the geologic character of the liquefaction of Takenouchi reclaimed land and considered about the relationship between the dredging work and the ground improvement after the dredging work and the liquefaction. Based on observation and analysis, the the ground improvement after the dredging work is important for the protection of the liquefaction.