

Formation of subsurface layer and examination of the generating depth of liquefaction at the Hinode area, Itako city

URABE, Atsushi^{1*}

¹NHDR, Niigata University

Serious Liquefaction phenomena happened on Hinode, Itako, Ibaraki Pref., middle to downstream region of the Tone River, at the 2011 off the Pacific coast of Tohoku Earthquake. Those damaged area were on reclaimed land by dredge. The stratum of the damaged area consists of the sediment of lowlands and the dredge sandy sediment as a result of the drilling survey. Judging from the facies of sediment and grain size composition, liquefaction is presumed to have occurred in the lower part of dredge sandy sediment.

Keywords: The 2011 off the Pacific coast of Tohoku Earthquake, Liquefaction, Dredging sand layer, Itako