

Liquefaction-fluidization mechanism in man-made strata along Tone River at the 2011 off the Pacific coast of Tohoku Eq.

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Many sand volcano distributed on reclaimed land by hydraulic fill around Yodaura Marsh along Tone river on the 2011 off the Pacific coast of Tohoku Earthquake. One of the sand volcano was excavated after falling off groundwater level by well point method. The large relief peels were took from the large trench section. Detailed stratigraphy of man-made strata was cleared and mechanism of liquefaction-fluidization was evidenced.

Keywords: Liquefaction-fluidization, man-made strata, Tone River, The 2011 off the Pacific coast of Tohoku Earthquake, trench survey