

## Flood disasters and river management in the downstream of Tama River following 2019 Typhoon Hagibis (JMA Typhoon No. 19)

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The typhoon No.19 caused inundation damage in 15 areas along the lower Tama River. This study presents the results of field survey in these area.

The causes of the inundation are classified in following three backward flow, 1) flowback from Tama River (main stream) via sluiceway, 2) backwater from Tama River to a tributary, 3) overflow at the levee crown of a gate. Most of the damaged areas in the track of the river are geologically classified into braided and meandering stream. As for inspection for the river management at the sluiceways and the present hazard map of Tama River are necessary in future.

Keywords: heavy rain disaster, flood gate, backwater, fluvial topography, post-disaster survey, hazard map