

Major disaster surveys

1. Field survey of damage to the Sugawa Bridge on Route 246 due to Typhoon 9

The Sugawa Bridge (steel deck arch bridge) on Route 246 spanning the Sugawa River is located in Shizuoka Prefecture. Due to Typhoon 9 on September 8, 2010, the supporting soils around the bridge were eroded and collapsed as retaining walls were washed away. The Bridge and Structures Division conducted a field survey to provide technical support for the evaluation of the structural safety of the bridge and the study of emergency measures. Results found no damage to the superstructure, but confirmed the collapse of the ground around the foundation, which is important for safety of the overall bridge, and the existence of an unconsolidated sediment layer on the exposed surface. They indicated that it requires priority implementation of measures such as natural ground stability work based on protection of the surface of the collapse and embankment construction, and erosion prevention measures to deal with future rainfall and increases in the river level.

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