

## Catastrophic flooding in the basin of the river Vere on June 13, 2015 and its preconditions

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On June 13-14, 2015, in the result of 5hours-long sediments of high intensity and amount in the basin of the river Vere, with connection of other preconditions, the catastrophic mudflow flooding occurred which has been developed in the result of landslide occurrence of stony rocks of the rare maintenance and overlaying of the high outlays of the river water itself at the river Jokhoniskhevi, the outlay of which to the tunnel of Vake-Saburtalo pass constituted over  $468\text{m}^3/\text{s}$ , the tunnel has been blocked up with 2 trucks – “Kamazi”, various domestic materials and overthrown river deposits such as woods at 00<sup>05</sup>-00<sup>45</sup>, the water level suddenly increased with 17 meters, G. Svanidze street has been flooded, human death has been resulted, the reservoir of the volume over 600 thousands  $\text{m}^3$  appeared and its breaching resulted in destruction in the lower valley, annihilation of the major part of a zoo with animals and human death (20 persons dead, 2 persons are missed).

According to the materials of 54years observation at the river Vere, the maximum outlays of different maintenance of the river water have been calculated, in accordance with which, the maximum outlay of mudflow stream developed at the river -  $468\text{m}^3/\text{s}$  is 0.01% maintenance, e.i. one case per 10 thousand years.

Those preconditions, forwarding to the catastrophic flooding of June 13 have been presented.