

Hydrographic Survey of the River Bed Bosut with Subbottom Profiler to Determine the Thickness of Sedimentary Deposits

Almin Dapo, Bosko Pribicevic and Emanuel Bulic (Croatia)

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SUMMARY

Watercourse Bosut has total length of 132 km. The mouth of Bosut is located in Serbia at the place Bosut and the source is at Županja, along the Sava embankment. Specificity of Bosut is a very small drop the bottom bed, and the floodgates and barriers which attempted regulation of the water level. All this led to more unfavorable water flow, which during the summer almost stops completely. As a consequence, there is a rapid growth of aquatic plants and a large muddy sediment as a result of decomposition of plant mass in the stream. These reasons lead to the gradual reduction in the volumetric capacity of the riverbed, the total volume of water, and also reduce the amount of water that can be stored in the stream, and thus reduced ability to use water for irrigation but also for other purposes. Therefore, hydrographic survey of the river bed Bosut by using subbottom profilers was conducted through the entire length of 96 km of the watercourse Bosut to determine the thickness of sedimentary deposits and based on that to develop adequate rehabilitation measures. This paper presents a survey of the river bed Bosut by subbottom profiler and the results obtained.