

***ANALISIS OF FLOOD WATER LEVELS DUE TO THE
INFLUENCE OF TIDES IN BRANCHING VILLAGE
AREAS USING THE HEC – RAS APPLICATION (CASE
STUDY: JL. SOEKARNO HATTA, BERANCAH
VILLAGE) BENGKALIS CITY***

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ABSTRACT

Bengkalis Island is an area or land area with an average height of two meters above sea level and is a coastal area that is vulnerable to hydrometeorological disasters, one of which is inundation that occurs due to high tides which cause flooding. Flooding is an event or situation where an area or land is submerged because the volume of water increases. This research location is an area that is prone to flooding, due to high rainfall and high tides. So that the activities of the local community were disrupted because the only road access that residents used was flooded due to high tides. Therefore, it is necessary to research the analysis of flood water levels in the Berancah Village Area, on Jl. Soekarno Hatta, Bantan District, due to the influence of tides and high rainfall intensity. The author carried out data analysis using the Log Pearson Type III method. maximum flood discharge (Q) = 3.99 m³/sec. Hydraulic analysis was also carried out using HEC-RAS 6 to see the water level.

Keywords: *Tides, Rainfall, HEC – RAS Application.*