

**THE STUDY OF
JURU RIVER MORPHOLOGY**

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ABSTRACT

The report focused on the study of the physical character of Juru River. There are three selected locations which are at upstream, midstream and downstream of the river referred as sites study. Near to JPS Juru is identified as the upstream of the river, meanwhile Kuari Batu Tok Kangar and Kampung Nelayan is identified as the midstream and downstream of Juru River respectively. The method of study is site observation, water and soil sampling and analyzed the data resulted from the TDS (Total Dissolved Solids) testing as well as sieve analysis. The variables such as river bank, river channel, bedform features, local landuse, riparian zone composition and river water appearance is determined during site observation and compared the data to the description taken from AUSRIVAS, 2003. Some useful recommendations for Juru River are put together in the report. From the report, it concluded that there are changes through the physical character of Juru River from the upstream towards downstream.

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CHAPTER 1

INTRODUCTION

1.1 Background

Rivers have been accepted by all living on earth as a most important gift and essential source of water supply as well as a way of transportation. However, this vital source has become threatened more than ever in recent years due to rapid development activities implemented to meet the needs of growing populations. The study on the physical character of river is very important to assess the existing various problem of river. The physical character of river is influenced by the human access or natural problem such as erosion that can changes the shape of the river bank. (Impak, 2002).

The approach desiring towards achieving improvement in river physical character through integrated river management and planning had shown successes in a number of countries particularly in Europe, North America and Australia in the past. However, in Malaysia the improvements of river through physical character study still in less of number. The morphology of river usually occurs from the upstream until to the downstream of the river. Certainly, the characteristic of river will be different from other river as well as from its upstream, mid stream and downstream. Many problems in term of physical river characteristic, such as river bank erosion as well as sedimentation happened. The high value of total suspended solids also gives