

SEDIMENTOLOGY AND ACCRETION RATE AT SG. HAJI DORANI,
SAPAK BERHAM, SELANGOR.

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**SEDIMENTOLOGY AND ACCRETION RATE AT SG. HAJI DORANI, SABAK
BERNAM, SELANGOR.**

By

Kamal Hakim bin Mat Desa

**Research report is submitted in partial fulfillment of
The requirement for the degree of
Bachelor of Science (Marine Science)**

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**APPROVAL AND CERTIFICATION FORM
RESEARCH PROJECT I AND II**

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SEDIMENTOLOGY AND ACCRETION RATE AT SG. HAJI DORANI, SABAK BERNAM, SELANGOR by **KAMAL HAKIM BIN MAT DESA** Matric No. **UK 9571** have been read and all corrections recommended by the examiners have been done. This research report is submitted to the Department of Marine Science in partial fulfillment of the requirements for the degree of **Bachelor of Science (Marine Science)**, Faculty of Maritime Studies and Marine Science, Universiti Malaysia Terengganu.

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LIST OF ABBREVIATIONS

M	meter
Cm	centimeter
%	percentage
GPS	Global Positioning System
°	degree
N	North
E	East
Ø	phi

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ABSTRACT

This final year project was conducted in Sg. Haji Dorani area, where the study area is a mud beach and near to mangrove area. The objective of this study is to determine the sediment characteristic and to determine whether this study area undergone erosion or deposition of sedimentation. The sediment characteristic from analysis is to determine the mean size, sorting and skewness of the sediment. Overall, the sediment mean size is more to fine silt and for skewness is more to negative that indicates it is fine sand, and the sorting value is more too poorly sorted. For particle size analysis, the analysis is done by using Malvern Master Sizer 2000. From the study, the results for accretion rate show that the value for accretion rate is 1.63cm/month. This study area is mostly, influenced by natural processes.

ABSTRAK

SEDIMENTOLOGI DAN KADAR PEMENDAPAN DI SG. HAJI DORANI, SABAK BERNAM, SELANGOR.

Projek penyelidikan tahun akhir ini telah dijalankan di kawasan Sungai Haji Dorani, Sabak Bernam, Selangor. Kawasan kajian ini merupakan kawasan pantai berlumpur dan berhampiran dengan kawasan paya bakau. Objektif bagi projek penyelidikan ini adalah bagi menentukan ciri-ciri sedimen di kawasan tersebut dan menentukan samada kawasan tersebut mengalami mendapan atau pun hakisan. Analisis ciri-ciri sedimen dijalankan bagi menentukan saiz min sedimen, kepencongan sedimen dan juga nilai penyisihan sedimen. Secara keseluruhannya, daripada analisis didapati min saiz menunjukkan sedimen adalah daripada jenis liat halus, kepencongan adalah negatif menunjukkan sedimen jenis halus dan nilai penyisihan sisihan sederhana. Bagi menjalankan analisis sedimen, alat yang digunakan adalah Malvern Master Sizer 2000. Keputusan bagi kadar pemendapan sedimen menunjukkan kadarnya adalah 1.63cm/bulan. Secara keseluruhan juga di dapati kawasan tersebut di pengaruhi oleh proses semulajadi.