

**A PROPOSED ARTIFICIAL BEACH  
AT MUAR COAST JOHOR**

**By**

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“May Allah Bless Them All”

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## TABLE OF CONTENTS

Title	Page
<b>ACKNOWLEDGEMENT</b> .....	i
<b>TABLE OF CONTENTS</b> .....	ii
<b>LIST OF TABLES</b> .....	iv
<b>LIST OF FIGURES</b> .....	v
<b>LIST OF SYMBOLS</b> .....	vi
<b>ABSTRACT</b> .....	vii
<b>1.0 INTRODUCTION</b>	
1.1 General .....	1
1.2 Problem Statement .....	1
1.3 Objective .....	1
1.4 Methodology .....	2
<b>2.0 LITERATURE REVIEW</b>	
2.1 Cohesive sediments (Mud) transport	
2.1.1 Transportation of mud sediments .....	3
2.1.2 Specific features of cohesive sediments .....	3
2.1.3 The dynamics of the cohesive sediments .....	4
2.1.4 Flocculation .....	6
2.1.5 Deposition of suspended sediments .....	7
2.1.6 Consolidation of a mud deposit .....	8
2.2 Method of design of beach nourishment schemes .....	8
<b>3.0 STUDY AREA</b>	
3.1 Location .....	11
3.2 Recreation Facilities .....	15
3.3 Bathymetry .....	15
3.4 Tides and Currents .....	17
3.5 Winds .....	17

## **ABSTRACT**

Artificial beaches have been widely constructed for recreation and tourism as well as for the restoration of eroding beaches or as a form of shore protection measures. This final year project, studies the feasibility of constructing an artificial beach at Muar coast of Peninsular Malaysia for recreational purposes.

Among the factors influencing the construction of an artificial beach are the characteristics of the clay at the study area to act as a base for the beach and especially on the rate of mud transport that will take place over the beach after construction.

## **1.0 INTRODUCTION**

### **1.1 General**

The west coast of peninsular Malaysia is long (1,110 km) and irregular. It is open to the waters of the Straits of Melaka. The majority of the west coast is comprised of low elevation coastal plain, which is form from deep clay marine strata. Very few areas of sand beach can be found on the west coast. In general, the sand beaches are formed as pocket beaches between prominent rocky headlands.

### **1.2 Problem Statement**

There is a lack of recreational beaches on the west coast of Peninsular Malaysia. This is due to the actual sediment transport phenomena, which is caused by small waves existing in the Straits of Melaka resulting in the settlement of mud on the coasts. However, since the population of Peninsular Malaysia is concentrated on the west coast, there is a great potential of constructions artificial beaches for leisure purposes.

### **1.3 Objectives**

The objectives of this project are :

1. To design a proposed artificial beach.
2. To study the stability of a proposed artificial beach.