

TRAFFIC NOISE IMPACT ON RESIDENTIAL LAND PLANNING

By

WALTER BIN TAIMIN

Report is submitted as
the requirement for the degree of
Bachelor Engineering (Hons) (Civil)

**UNIVERSITI TEKNOLOGI MARA
APRIL 2006**

DECLARATION OF CANDIDATE

I, Walter Bin Taimin, 2003321707 confirm that the work is my own and that appropriate credit has been given where reference has been made to the work of others.

Walter

(Walter Bin Taimin)

28th April 2006

ACKNOWLEDGEMENT

First and foremost I would like to show the most gratitude to God most gracious and merciful for giving me a good health physically, mentally and spiritually due to complete this research proposal.

I also would like to say a million thanks to my supervisor, Cik. Tey Li Sian for her valuable guidance, comments and patience in this thesis completion. Not to forget, special thanks to my parents and the whole family who were there besides me when I needed the most, especially for their encouragement and motivations during the period of study in Uitm Shah Alam. I would like to say thank you to Miss Sherlyn Yeo, the Assistant Manager of Millenium Court of allowing me to use the building staircase. A special thanks to Mr. Hew Min for helping me.

Finally, I would like to say thank you to all my friends especially to Cik Nurazreen Bt. Md. Salleh and Danny Barnabas for their kind assistance, valuable advice, support and help during completing this thesis.

THANK YOU

ABSTRACT

In modern times, noise is recognized as a serious health problem. Annoyance caused by noise has been known since antiquity but it is only during recent times that the importance of traffic noise is taken into consideration in transport planning decisions. This study is to identify the traffic noise in Lorong Universiti A, Jalan Gasing, Petaling Jaya, Selangor. It is a residential area road that became a main road. Hence a study is required to determine the traffic noise of the road. This study also proposes the suitable solution for the road.

TABLE OF CONTENTS

CHAPTER	PAGE
ACKNOWLEDGEMENT	i
ABSTRACT	ii
LIST OF FIGURE	vi
LIST OF TABLE	x
LIST OF APPENDIX	xiv
1 INTRODUCTION	
1.1 General	1
1.2 Objectives	1
1.3 Problem Statement	2
1.4 Scope of Study	2
1.5 Significance of Study	3
2 LITERATURE REVIEW	
2.0 Introduction	4
2.1 Sound	4
2.2 Wave Motion	4
2.3 Comparison of Periodic Motion to Sound Waves	6
2.4 Decibel Levels of common Noise Source	7
2.4.1 Indexes Used to Measure Noise	8