CENTRE OF STUDIES FOR BUILDING SURVEYING
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING
UNIVERSITI TEKNOLOGI MARA

THE EFFECT OF ROAD TRAFFIC NOISE TO HIGH-RISE RESIDENTIAL LOCATED ADJACENT TO HIGHWAY

JUMRIANI BINTI HASANUDDIN

(2012459858)

Bachelor of Building Surveying (Hons)

July 2015

CENTRE OF STUDIES FOR BUILDING SURVEYING
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING
UNIVERSITI TEKNOLOGI MARA

THE EFFECT OF ROAD TRAFFIC NOISE TO HIGH-RISE RESIDENTIAL LOCATED ADJACENT TO HIGHWAY

"I hereby declare that this academic project is the result of my own research except for the quotation and summary which have been acknowledged"

Student's Name	**: Jumriani Binti Hasanuddin**
Signature	**:** 
UiTM No	**: 2012459858**
Date	**: July 2015**

ACKNOGLEDGEMENT

In the name of Allah S.W.T, invocation and greetings to adoration of Nabi s.a.w., thank be to God because give me the strength and patience in the degree project.

Firstly, I would like to thank my supervisor, Sr.Mahayudin Bin Mahmood for his advice, ideas and guidance throughout my project. I greatly appreciate his dedication in constructively critizing my work, including in my first dissertation.

I also would like to express my gratitude to my parent Hasanuddin Bin Lakun, Darmi Binti Muktar and my younger brother for giving me their loves and supports throughout my three years study in University Technology MARA (UiTM),Shah Alam, Selangor.

Special thanks to all the interviewees and respondents of the research survey and lots thanks to Transportation Laboratory Civil Engineering staffs for helping me to complete my project. Not forget all my friends participating in my study deserve a big thank you. Suggestions and criticisms from my friends have always been helpful in finding solutions to my problems.

I also wish acknowledgment to the people who give support direct or indirectly to the project and during the thesis writing. Once again, thank you very much.

ABSTRAK

Pada tahun 1999, lebih 1,000 buah kenderaan termasuk bas, lori, kereta dan juga motorsikal berdaftar di Selangor, Malaysia. Jumlah bilangan ini meningkat setiap tahun. Pada masa yang sama, kebisingan yang dikeluarkan oleh kenderaan di atas juga meningkat. Kebisingan yang dikeluarkan oleh kenderaan di Selangor patut diberi perhatian dengan menentukan tahap kebisingan di Selangor. Kajian dijalankan untuk menentukan tahap kebisingan yang disebabkan oleh kenderaan dilebuhraya berdekatan dengan kediaman bertingkat iaitu Saujana Residence Condominium Subang, Mentari Court Apartment, Petaling Jaya dan Subang Avenue Condominium Subang. Sound Level Meter diguna untuk mengukur kebisingan kenderaan dan data dikumpul dalam tiga hari setiap kajian kes. Tahap kebisingan dibandingkan dengan piawai yang ditetapkan oleh World Health Organization (WHO). Keputusan yang didapati menunjukkan bahawa nilai tahap kebisingan disetiap kajian kes melebihi tahap piawaian yang ditetapkan. Ini membuktikan bahawa setiap tiga kajian kes melebihi nilai yang dikawal selia oleh WHO. Ini menunjukkan bahawa tiga lokasi kajian kes adalah tidak selamat daripada pencemaran bunyi.

ABSTRACT

In the year of 1999, there were more than 1,000 vehicles including buses, lorry cars and motorbikes in Selangor. These numbers are increasing every year. In the same time, the noise generated by all the vehicles above is increasing also. Noise that generated by vehicles in Selangor should be concerned by determine the stage of noise pollution. A study was conducted to determine the noise level generated by vehicles at highway adjacent to high-rise residential, which are Saujana Residency Condominium, Subang, Mentari Court Apartment, Petaling Jaya and Subang Avenue Condominium Subang in Selangor. Sound Level Meter was and data collected in three days every case study. The noise compared to the standard by World Health Organization (WHO). The result indicated that the value of noise generated by vehicles in every three case study exceed the value regulated by WHO. It shows that three-location case study is did not safe from noise pollution.