

**ANALYSIS OF WASTE TRANSPORTATION NEEDS
IN DEPOK SUB-DISTRICT, SLEMAN**

Final Project Report
In fulfillment of the requirement for the degree
Bachelor of Civil Engineering

by:
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**INTERNATIONAL CIVIL ENGINEERING PROGRAM
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING
UNIVERSITAS ATMA JAYA YOGYAKARTA
YOGYAKARTA
2019**

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Final Project Report

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ACKNOWLEDGEMENT

First and foremost, I would like to praise the gratitude to Hyang Widhi for the blessing that given to me, so I can prepare and finish my final project report. The purpose of the final project with the title of “Analysis of Waste Transportation Needs in Depok Sub-District, Sleman” is to complete the requirement of undergraduate program (S-1) in International Civil Engineering Program, Department of Civil Engineering, Faculty of Engineering, Universitas Atma Jaya Yogyakarta. For the completion of this final project, I also would like to express my gratitude towards:

1. Ir. Y. Lulie, M.T. as my supervisor, for his advice, patient, and kindness that given to me during the counseling. His support and advice have been invaluable.
2. Environmental Agency of Sleman Regency and other government agencies, support and cooperation which help me to complete this report.
3. My parents and family for their support, pray, love and advices that given to me.
4. Angelina Handayani, the missus, for helping me become stronger, always remind me to finish my final project report and thanks for unlimited smiles I have. Thank you for always being there for me.
5. All of my beloved friends who involved in this final project which can't be mentioned one by one.

Finally, I as the writer of this report realized that this report has mistakes and may have space for further improvement, thus any suggestion or correction will be accepted. Thank you.

Yogyakarta, July 2019

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Made Bayu Jayaningrat

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ABSTRACT

ANALYSIS OF WASTE TRANSPORTATION NEEDS IN DEPOK SUB-DISTRICT, SLEMAN, Made Bayu Jayaningrat, Student ID Number 15 13 16186, year of 2019, Transportation, International Civil Engineering Program, Department of Civil Engineering, Universitas Atma Jaya Yogyakarta.

In big cities, garbage always creates various complicated problems to solve, for example in Depok Sub-district. Depok Sub-district has a population of 119,922 people, 59,469 male and 59,753 female. So it cannot be denied that it will generate a lot of waste production. In this case, good management is needed, especially in the garbage transportation system, so that all garbage generated by resident in Depok Sub-district can be transported.

Analysis requires supporting data, including garbage generation survey data and garbage transportation, dump truck capacity, time to load and unloading garbage, travel time, travel distance, travel speed, travel route, map of Depok Sub-district, transport vehicle route, number of dump truck transport equipment, and population number that aim to find garbage generation data transported in Depok Sub-district. After garbage generation was obtained, the number of dump trucks needed is analyzed.

The amount of garbage generated in Depok Sub-district in 2019 is 354.94 m³/day. After being predicted using geometric method, it is increase to 357.14 m³/day in 2022. The need for garbage transport vehicles to cover the garbage generation in 2022 are 8 units of dump trucks and carried out in 18 trips/day.

Keywords: Garbage generation, garbage management, needs of dump truck, garbage transportation, Depok Sub-district.