

**“STUDY ON THE POTENTIAL OF LAND MASS MOVEMENT AROUND THE
FINAL DISPOSAL (TPA) GARBAGE KLEGEN , DISTRICT GRABAG,
MAGELANG REGENCY, CENTRAL JAVA PROVINCE”**

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ABSTRACT

Increasing population is to encourage people looking for land for a place to stay, so that it develops into a place prone to disaster. The mass movement of soil and rock is one of the frequent natural disasters in Indonesia and often occurs in hilly areas, especially in the rainy season. The damage caused by the mass movement of land directly lands such as public facilities , construction of buildings, farmland and roads , while the indirect damage can cripple economic development activities and the activities of the disaster area and its surroundings , even until the casualties. The purpose of this study is (1) To determine the potential of the soil mass movement that occurs in landfill sites Klegen (2) To determine the type of soil mass movement that occurs in landfill sites Klegen (3) To determine the deployment zone of the mass movement of soil in the study.

The method used is survey and analysis, and data collection techniques including observation and documentation of them to determine the physical parameters such as (1) precipitation, (2) the type and thickness of the soil, (3) slope, (4) the level of rock weathering, (5) land use (6) of vegetation density. There is also testing soil samples in the laboratory in order to determine soil texture. From the analysis of physical parameters will be used as a comparison dignity based on the Minister of Public Works 22/PRT/M/2007 on Spatial Planning Guidelines for Landslide Prone Areas.

From the results of the analysis parameter overlay and the vulnerability of the mass movement of soil in the study area , produced two (2) zones carrying conditions of the physical environment, a zone with a comprehensive level of vulnerability was 8,697 hectares or 47,96 % of the total study area, the zone level of vulnerability high with an area of 9,438 hectares or 52,04 % of the total study area. Referral management with technology engineering approach that can be used for in the study area is terracing on the slopes.

Keywords : Land, Land Mass Movement, Vulnerability, Landfills