

**Study of Landslide For Residential  
At Lencoh Village, Selo Sub - District, Boyolali District, Province of  
Central Java**

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**ABSTRACT**

The study area is located at Lencoh village, Selo sub - district, Boyolali district, Central Java. Geographically the study area located in 437784 – 438959 MT and 9172711 – 9171836 MS South Latitude with the extensive area 149.62 Ha. Generally the study area are including in vulnerable landslide area. The purpose in this study is to determine the degree of vulnerability of land mass movement and to evaluate the existing residential with land suitability for residential class criteria. The methodology that used in this study is survey, mapping and scoring.

The methodology pervades measuring and directly observation of the texture and soil thickness, permeability, slope, description of morphological parameters, such as weathering, strength of rocks and land use. The methodology has done in several stages that are preparation, work in the field, analysis data and reporting. Data obtained in the form of primary data available from the field and secondary data available from literature and related agency. To determine the land units, researcher use map overlay methodology.

Based on the result of analysis and evaluation, researcher obtain the result there are two vulnerability zone of soil mass movement, that is : (1.) Vulnerability zone of soil mass movement levels III (intermediate criteria) with 41,83 Ha of extensive area, (2.) Vulnerability zone of soil mass movement levels IV (high criteria) with 107, 79 Ha extensive area, from the study area. The impact of mass movement against of settlement, as a while there were no fatality, but there is an impact of property losses on one house resident at Wates Village

Key words: Vulnerability, Mass Movement, Settlement.