

**P4B-3**

**2-D GEOELECTRICAL RESISTIVITY SURVEY AT A PROPOSED NEW  
CONDOMINIUM SITE OF PORT DICKSON BEACH RESORT,  
NEGERI SEMBILAN**

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**ABSTRACT**

2-D resistivity imaging survey was conducted on a proposed site of a new condominium block at Port Dickson Beach Resort, Negeri Sembilan. The purpose of the survey was to determine the resistivity distribution of the soil underneath the proposed site and to investigate the cause of failures on piling test failures of many driven piles in the site. More than half portion of the site represents new coastal reclamation land. The resistivity survey has successfully determined the boundary between an original ground surface and the filled soil material. The undulating surface of the original ground generally shows gentle slope towards the sea. The original ground material is relatively higher in resistivity value compared with the lateritic filled material of the study area. Data from bore hole clearly show the distinct boundary of lateritic filled material and the original ground soil underneath the study site. A zone of extremely low resistivity value ( $<5\text{ohm-m}$ ) observed on the western part of the site is believed to be associated with the movement of water below surface which is a contributing factor for the failure of the piling tests.