

CERAMAH TEKNIK TECHNICAL TALK

Sea bed mapping

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Date: 24 May 2023
Platform: Zoom

The above talk was delivered by P.Geol. Dr Abdull Halim Bin Abdul (Ground Wave SSPT Sdn Bhd) on 24th May, 2023 via Zoom. Some 20 members participated. An abstract of the talk is given below:

Abstract: The hydrographic survey was conducted to execute the geophysical survey at Grid maintenance - North cable, Penang, Malaysia. The objective of the geophysical survey was to locate the submarine power cable within the survey area. Within survey the survey corridor, the main purpose of this survey to identify AU existing power cable, telecom communication, other utilities, structure, shipwrecks, anchor scan and seabed topography, to plot anchor scar surrounding the cable to determine whether the existing cable is exposed and to determine depth of the cable is not exposed. The work scope that been conducted in this survey are sub bottom profiler survey, side scan sonar survey, bathymetric profiling and magnetometer. The sub bottom profiler survey conducted to identify and determine the profile and physical properties / layer of sediment deposition at respective area as well as to study all relevant information provided / available and obtain additional data, if necessary, for the proper execution of the works. The side scan sonar survey conducted to map seabed feature such as as coral outcrops, gas seepage, sand ripples trawl marks, pipelines, shipwrecks, and other sizeable man-made objects. Bathymetric profiling conducted to measure and map the water depths. While magnetometer survey conducted to measure and mapping any anomaly or detect submarine power cable. The finding was described on the observation of the morphology of the survey area.

Keyword: Geophysical survey, sediment deposition, bathymetric profiling

We thank Sdr Hallim for his support and contribution to the Society's activities.

Tan Boon Kong
Chairman, Working Group on Engineering Geology
24th May, 2023

