Automatic Scour Monitoring Solution

The EIVA NaviSuite Edulis total solution allows for an automatic scour monitoring process, providing a data overview for a sound decision-making process. The suite is a plug and play total solution for continuous scour monitoring. It replaces the alternative of carrying out surveys manually on site, thereby reducing the number of manhours required.

Cable free span, structural fatigue and deterioration, varying own frequency and other structural problems are practically eliminated, as the NaviSuite Edulis enables reaction to development of scour. Altogether, this translates into an efficient monitoring and maintenance operations.

The NaviSuite Edulis does all the work throughout the scour monitoring process, from data acquisition to generation of report by the sonar software, with no need for on-site activities. The data are automatically logged on an on-shore server, processed and cleaned, and gathered in a final report at a given interval. This translates into an overview of the development of scour and thus a decision-making basis for preventive measures.

High-resolution data 24/7

Via one or more scanning sonar fitted to the underwater structure, depending on whether a 360 or 180° view is required, the NaviSuite Edulis scans the seabed and logs the data at a defined interval. High-resolution sonar data offer a detailed image of the seabed with no risk of inconsistencies due to the fixed position of the sonar. Moreover, the development of scour is monitored 24/7, all year round, through data covering current and tide as well as seasonal effects.

The sonar software offer a detailed 3D visualisation of sonar data for scour monitoring, combining a digital terrain model and cross profiles of the scour area in one view (image).

The NaviSuite Edulis can be applied in connection with various types of subsea constructions, such as monopiles, bridge foundations, jack-up vessels during jacking, oil and gas rigs, quay sides and hydrodynamic structures.

https://www.hydro-international.com/content/news/automatic-scour-monitoring-solution