

Supervision of Offshore Geotechnical Investigation

EDESSA team was retained by SESNORD (the Company in charge of the development of the reclamation project at the northern entrance of Beirut) to supervise the technical aspects of the investigation work being conducted as part of the feasibility and conceptual design of the project.

The project includes the reclamation of about 2 million square meters of land over a 4.5 km stretch of land immediately north of the Beirut Capital. The project will consist of commercial, residential and industrial development once reclaimed. In addition to the reclamation of land, the LINORD project will also have to treat a 4 million cubic meter landfill located in the project area.

This landfill, known as the Borj Hammoud landfill, is an uncontrolled, un-engineered dump that is has been receiving municipal and industrial waste for over 5 years.

Over 30 CPT, 20 boreholes and 40 vibrocores were drilled along the proposed project area. CPT extended to up to 30 m below sea bottoms while boreholes extended up to 50 m below sea bottom. Water depth in the project area was in the order of 8-15 meters.

EDESSA team also supervised the following tasks:

- Hydrographic survey of the area to be reclaimed including bathymetric, sub-bottom profiling, magnetometer and side scan sonar survey.
- Sand search survey to identify areas of potential hydraulic fill for the project.
- Environmental investigation of the Borj Hammoud landfill including the installation of monitoring wells, test pits and gas survey.

