

## EXECUTIVE SUMMARY

The Central Long Island Sound Disposal Site (CLIS) is located approximately 6 nautical miles south of New Haven Harbor, CT. Environmental monitoring by the U.S. Army Corps of Engineers New England Division (NED) has occurred at this site since 1977. A primary objective of past investigations has been to assess the environmental impacts of dredged material disposal, particularly in terms of the post-disposal recovery of benthic ecosystems. Several disposal points or mounds currently exist at CLIS as a result of past and recent disposal operations (Figure 1-1).

Field operations were conducted at CLIS from 25 to 27 July 1988. The field operations consisted of precision bathymetric and REMOTS® sediment-profile photographic surveys around the point where the disposal buoy was located during the 1987-88 disposal season (Figure 1-1). The objective of these surveys was to delineate the extent and topography of the recently-deposited dredged material resulting from the past year's disposal activities at the buoy. In addition, near-bottom and near-surface dissolved oxygen concentrations and vertical profiles of temperature and salinity were determined at selected disposal site and reference stations. The objective of this sampling was to characterize depth gradients and assess near-bottom dissolved oxygen concentrations relative to REMOTS® benthic analyses at and near the disposal site. The 1988 monitoring scheme at CLIS was designed to verify the following predictions:

- sediment disposed during the 1987-88 season would result in the formation of a mound having a radius of approximately 250 to 300 meters, and
- near-bottom dissolved oxygen concentrations would be similar within the disposal site and the reference stations.