

EXECUTIVE SUMMARY

In 2002, sandy sediments from the Cape Cod Canal were deposited at the Buzzards Bay Disposal Site at the Cleveland East Ledge in Buzzards Bay, Massachusetts. This site was last used for disposal in 1986. A single-beam bathymetric survey was conducted at the deposition area in June 2005 to identify changes in seabed topography potentially associated with the most recent disposal. Maps produced from survey data revealed the presence of several mounds commonly associated with open water disposal. Baseline bathymetric data were not available for evaluation, and these mounds were most likely produced by several episodes of disposal (1986 and 2002). Additional characterization of the seafloor using some combination of side-scan sonar, video, sediment-profile imaging (SPI), or grab sampling would allow the identification of textural discontinuities associated with disposal, clarifying the interpretation of the seafloor topography.