



**Belle Isle Coastal Preserve Project
Boston, MA
\$875,474**



construction of the coastal bank. Charter re-used the crushed concrete generated during original earthwork and some of the clean soils deemed re-usable by the engineer. The remainder of the required fill, approximately 1000 cy, was brought in to complete the coastal bank. A salt marsh substrate material was placed over the salt marsh restoration areas. Once the substrate was spread to the proper elevations, 55,000 salt marsh plugs were hand planted approximately 6” on center over the salt marsh area. A salt penn was also constructed in the restoration of the marsh. The coastal bank was then covered with 6” of loam and approximately 400 upland plants and bushes were planted.

Charter was contracted to perform the Belle Isle Coastal Preserve Project funded by the Boston Parks and Recreation Department and the MBTA. Charter minimized the removal of trees and vegetation as much as possible to preserve the surrounding environment. A base line was established on the site and the site layout included establishing work limits, layout of a grid system for contaminated cell locations, and excavation limits.

Charter performed earthwork including removing all concrete and debris that was located on the surface of the work area. The site abutted an MBTA piece of property and over the years, multiple waste streams had been dumped on the site including concrete, wood, miscellaneous household utilities, tires, and trash. Concrete cleared during the earthwork was stockpiled, crushed and reused on-site.

Pre-characterization results confirmed the presence of hazardous soils. Charter provided the Client options for the management of the soils which provided a substantial cost savings. In-situ treatment of approximately 2,600 tons of TCLP lead failed soils was performed.

Charter established final grades at the site to allow the salt marsh restoration to be performed. The salt marsh earthwork entailed the base



Charter installed a stone dust walkway across the top of the coastal bank to allow visitors to access the restored salt marsh area. Upcoming plans from the Boston Parks and Recreation are to connect the newly restored salt marsh walkway to an existing trail that is located near by and owned by the Department. Charter also utilized large pieces of granite that were discovered on-site to build benches around the area.