



## South Coast Sewerage Project Marine Disposal Barbados



For many decades, wastewater seepage pits at residences and hotels have polluted beaches along the South Coast of Barbados, causing serious concern to the Government. Implementation of the South Coast Sewerage Project will mitigate this problem. Associated Engineering was the subconsultant for this Inter-American Development Bank funded project which involved complementary studies and the detailed design of a sewage collection, treatment and an ocean disposal system for the South Coast of Barbados. Associated Engineering was responsible for the outfall design and construction.

Because of the ideal oceanographic conditions off the south coast, preliminary treatment with fine screening and discharge into 40 m water depth was recommended and accepted by the Government and the Bank.

A total of 1100 m long, the outfall extends from the southwest tip of the island to beyond the outer reef. A concrete weight jacket and armour rock

protect the 660 mm diameter, steel pipe over its entire length. Effluent is discharged at a depth of 30 m through 20 individual, 100 mm diameter openings or “ports”.

The many unknowns and variability in the ocean environment make marine design and construction notoriously difficult. In the Caribbean, the coral reef environment, the potential for hurricanes, and the remoteness of project relative to availability of heavy marine equipment and materials compound these factors.

In addition, the team overcame challenges of working with developing country governments, international bidding, and construction in a remote and difficult marine environment to provide the country with a sound environmental solution for years to come.



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