



### GOVERNMENT OF BERMUDA

|           |                        |               |                |
|-----------|------------------------|---------------|----------------|
| Location: | St. Brendan's, Bermuda | Capacity:     | 540,000 GPD    |
| Engineer: | Government of Bermuda  | Feed Source:  | Brackish Wells |
| Market:   | Municipal              | Feed Quality: | 3000-6000 TDS  |
| Membrane: | Hydranautics CPA2      | Start-Up:     | July 1993      |

**Project Highlights:** The Government of Bermuda contracted with Hydropro to design, manufacture and install an RO system capable of converting over 85% of the brackish feed water to potable. The system design incorporates three RO trains each capable of producing 150,000 Imperial GPD (180,000 USGPD) at 80% recovery. The compact 5-element units were shipped to Bermuda in 20' containers. The RO feed pump is controlled by a variable frequency drive to conserve energy.

Hydropro also manufactured a Concentrator RO system that processes the primary RO concentrate water with a feed TDS as high as 15,000 to 20,000 ppm. Using Hydranautics CPA2 seawater membranes and an energy recovery turbine, the Concentrator converts an additional 50% of the brackish water to potable. Overall water recovery at this site can reach 90%. Designed, manufactured, and shipped on a fast track, the system was operational less than 6 months after contract award.