



SUBMARINE CABLE RECOVERY & REPAIR

Location: Great Egg Harbor
Longport, New Jersey

Project: Emergency Submarine Cable Repair

Description: **Hydro-Marine Construction Co., Inc.** was awarded a contract from 2003 thru 2008 with Conectiv Power Delivery of NJ to provide on-call repair service for their armored 23kv and 69 KV submarine power cables. Conectiv, a utility giant based in Delaware, has numerous cables in New Jersey located in Ocean, Cape May and Atlantic Counties and along the barrier islands. Hydro crews working from a company barge, provided the man-power, equipment, and expertise to repair any breaks and/or damage to the submarine power cables. Buoys were placed to mark the spot of the damaged cable, while divers jet the channel bottom material around the cable and attach slings/rigging. The barge crane pulled the damaged cable from the channel bottom and once on the barge and anchored in place, Conectiv workers repair the cable with the assistance of Hydro workers. The repaired cable is then placed back on the channel bottom and re-buried by jetting. A simple break can take up to 2 weeks to repair. Damage is mostly the result of changes in the water temperature causing the casing around the cable to crack, allowing water in. Damaged may also be caused by boat anchors.

HYDRO has currently provided these services for four (4) actual breaks or faults.

In 2004 HYDRO was retained by Jersey Central Power & Light (JCP&L) to find and repair a break in the X-50 submarine power cable located south of the Route 37 Bridge in Atlantic County, New Jersey crossing the Barnegat Bay.



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