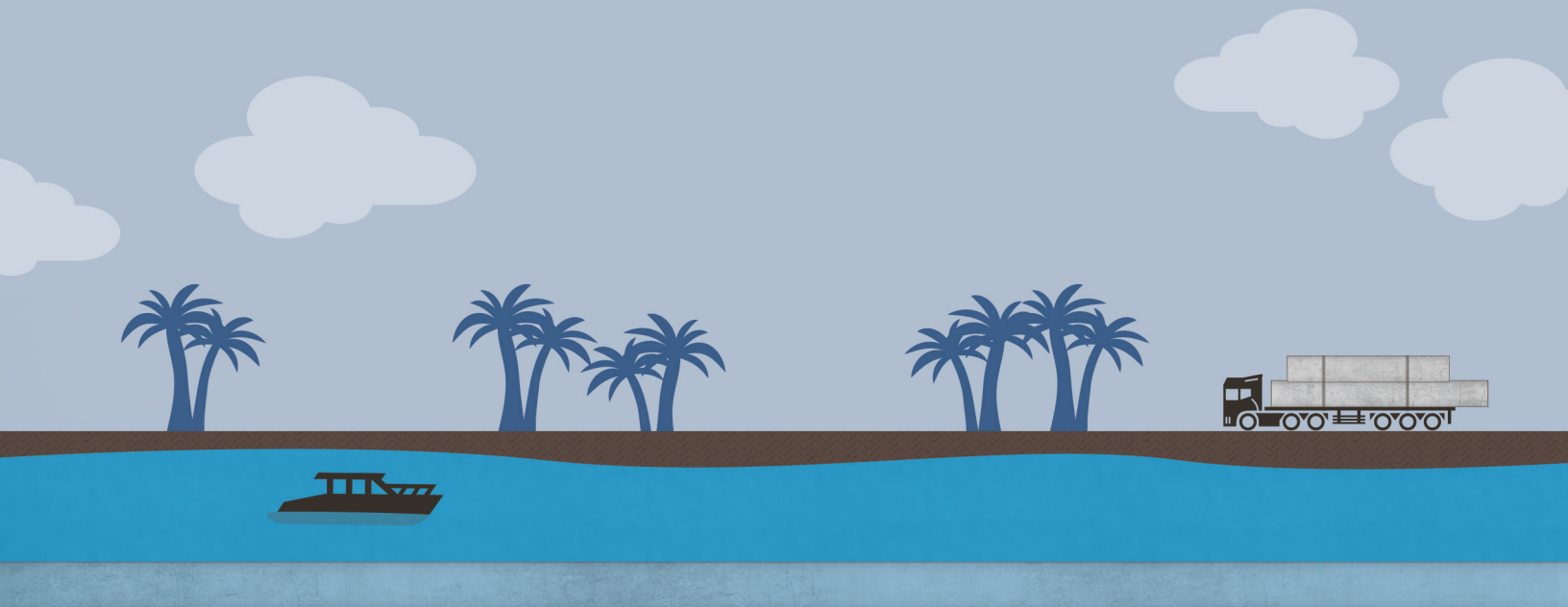




SUCCESSFUL REPAIR OF HURRICANE-DAMAGED WATER SUPPLY

- 250,000 residents without water
- 80' length of C301 PCCP installed underwater
- Rapid-response team averts water contamination



CHALLENGE

In September 2017, Hurricane Irma caused a major storm surge along the Atlantic coast of Central Florida. A 36" water transmission main in Cocoa was damaged, and normal water service was interrupted to 250,000 residents and a number of government and military installations along the coast and barrier islands. Part of this main ran under the Indian River, which is actually a lagoon and much wider and deeper than its name implies.

SOLUTION

The pipeline owners, City of Cocoa Utilities, engaged contractor Logan Diving of Jacksonville, Florida to inspect the pipe. Scouring by the storm surge had undermined an 80-foot length of the 36" subaqueous AWWA C301 Prestressed Concrete Cylinder Pipe (PCCP), and although the pipe had not failed, it would have to be replaced.

Because of our expertise and experience in PCCP, Thompson Pipe Group's Pipeline Services was brought in. A service representative was immediately dispatched to assess the situation, and the necessary replacement pipe was immediately supplied by Thompson Pipe Group.

OUTCOME

Through the use of redundant lines, water service was restored within 24 to 72 hours. The TPG Pipeline Services field representative, the contractors and the utility company met onsite to plan the underwater replacement. Cocoa Utilities stressed that particular care must be taken to prevent any contamination of the water supply to residents.

The 80-foot length of PCCP was installed without incident and full capacity was restored by replacement of the dislodged pipe less than one month after the break was discovered. All risk of pollution to the water supply was successfully averted.



▲ 20-FOOT LENGTH OF PCCP IS LIFTED FROM THE BARGE



▲ SECTION OF 36" PCCP IS HOISTED INTO POSITION



▲ BEVEL ADAPTER IS PRE-ASSEMBLED ON LENGTH OF PCCP