



Pre-Installation: Earthen Canal



Completed Installation: in Service

## ITL RCR-7® | IRRIGATION DISTRICT CANAL LINING, CALIFORNIA

### PROJECT OVERVIEW

Existing water canals were requiring repair or replacement. Portions of the water supply line in a farming community were converted from their current open-channel trapezoidal canal to a new underground water supply pipe. Another portion used RCR® to line the open-channel trapezoidal canal.

### WHY RCR® WAS THE SOLUTION

- The Irrigation District was unable to continue with running/installing the new style underground pipe due to property rights.
- A “dog-leg” canal had to be excavated in order to direct water flow from the new water pipe back to the old open style canal.
- This canal is intended to be temporary, but it may take many years to acquire the property.
- The canal could only be out of service for 5 days. Installation of RCR® had to be completed in 5 days or less.



### APPLYING RCR-7® TO OVERCOME TIME & INSTALLATION CHALLENGES

This canal serves a farming community prone to excessive temperatures near the Mexican border. As this canal is vital to the community, it could not be out of service more than five days in total. It took 3 days to complete the RCR® application, and a fourth day for hydration in the overly dry climate conditions.

As illustrated, there were some difficult angles to overcome in the transition from the RCR® material to the existing concrete vault. The installation of the material differed from typical application in that it was applied from the upstream side, resulting in extra attention to seam security.

RCR® was ultimately chosen over alternative materials for several reasons: Given the shorter section with two curves, traditional concrete was going to be more costly and time intensive, which would delay the canal being put back into use. Comparatively, other geomembrane options would have been susceptible to vandalism and animal damage.

*\*See reverse side for further photos of the installation process.*



www.itlRCR.com | 800-346-7744



