



Southern California Water Reclamation Facility

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Geotube® dewatering container trail.



With success, another Geotube® container is deployed.



Processing to Geotube® dewatering containers during severe 2010 rain storm.

Objective

A water reclaim facility has historically used drying beds and a centrifuge unit for their dewatering process of sludge. In 2010, the facility centrifuge unit went offline and required maintenance. With uncertainty of the time and resources necessary to get the centrifuge back online, they contacted WaterSolve, LLC and Waterways Protection, LLC to discuss the feasibility of using Geotube® containers in the interim.

Geotube® Container Sizing

Geotube® containers are manufactured from high strength polypropylene fabric and designed to allow effluent water to escape through the pores of the fabric while retaining the chemically-conditioned solids. Standard size and stocked Geotube® dewatering containers come in varying sizes and lengths and the 45' x 100' typically fit perfectly in many municipal drying beds.

The Result

The water reclaim facility started by trailing a 45' x 100' Geotube® dewatering container and chemically conditioning the sludge with the same polymer they had been using with their centrifuge. With operating flow rates of approximately 100gpm, they ran a 3" pvc line to the drying beds and then transitioned to a flexible hose that was secured to the Geotube® GP filling port. A sample port installed between the pvc and flex hose allowed the operator to inspect the sludge as needed to ensure appropriate chemical conditioning. The facility quickly realized that in addition to the minimum personnel required to operate the Geotube® dewatering containers, there was a reduction in polymer demand and has allowed them to continue processing to the drying beds during wet weather. This facility no longer uses the centrifuge and instead has incorporated Geotube® dewatering containers into their regular operation.