

DUAL 350,000-BARREL CONCEPT TANKS STORE CONCENTRATED PRODUCED WATER FOR NATURAL GAS FACILITY

CASE STUDY



QUICK CONCEPT TANK FACTS

Tank Capacity	2 X 14.8 Million Gallons (2 x 352,000-Barrels)
Wall Height	10 Feet
Build Time	1 Month Per Tank
Fluid Quality	Hyper Saline
Liner System	Enviro Liner® 6040 Conductive Geotextile Enviro Liner® 6040 Geotextile
Leak Detection	Yes

volume will be stored in Concept Tanks in the form of RO brine.

Utilizing these larger scale Concept Tanks fast-tracked the client permitting and construction process significantly, enabling the client to commence gas production activities despite the considerable delays in the construction of other water storage infrastructure on site.

The two 475' diameter tanks are comprised of four liner layers, including two EL6040 geomembranes and a conductive geotextile intermediate layer to enable spark testing of the liner prior to filling the tanks with fluid.

Each Concept Tank took just four weeks to construct, with minimal earthworks for the tank pad. The Concept Tanks were also set up with ongoing monitoring for both the tank water level and for leak monitoring. This is a critical asset for the storage of contaminated fluids on remote sites.

The facility will continue to produce several hundred million gallons of treated irrigation water for surrounding farmers in the drought affected area.

Concept Tanks were recently implemented at a Reverse Osmosis facility treating produced water from gas production operations. The 352,200-barrel capacity (14.8 million gallon) Concept Tanks will be used for storing concentrated brine from the RO plant.

During the production of natural gas, significant volumes of water are produced. This water typically has high levels of salt, as well as other contaminants, that need to be removed prior to re-use in other applications such as agricultural. During this process, approximately 20% of the total process

