

Huffaker Hills Effluent Storage Reservoir Phase I Washoe County, NV

The Huffaker Hills Effluent Reservoir is located in South Reno and is governed by Washoe County. The reservoir was originally constructed in 1980 to store water for irrigating the South Meadows, and had a seepage issue. Washoe County contracted with Telesto in February of 2007 to investigate and provide a solution for the seepage issue as well as provide alternatives for increasing the capacity of the reservoir as needed per the additional growth in the South Meadows area. This project involved performing preliminary designs and cost estimates for liner alternatives for a 4,000 acre-foot treated effluent storage reservoir in the Double Diamond area of South Reno to reduce seepage losses, as well as providing additional alternatives to increase the capacity of the reservoir by an additional 1,000 acre-feet. Final design plans and specifications were prepared for the first phase consisting of a 1 million square foot 60 mil thick textured HDPE liner on a compacted soil liner bedding layer, and were completed under an accelerated time frame as construction within the reservoir is feasible only from October through January, the months when reclaimed water isn't being used for irrigation. The first phase is currently under construction with Telesto providing engineering support to Washoe County during construction. The decision to provide the County with a phased implementation for the project while they decided which 1,000 acre alternative to select meant that we had under a month to provide final construction sets so the construction could begin and finish within the provided three month window, a deadline which we met.

