

## CASE STUDY



### Great Oaks Estate (private polo estate) Holyport, Berkshire

Project:	Construction of 2No. Irrigation reservoirs
Client:	Private Client
Detailed Design:	White Horse Contractors Limited
Principle Contractor:	White Horse Contractors Limited
1No. Contract Value:	£ 60,500.00 approx 1.35million gallons capacity
2No. Contract Value:	£ 53,000.00 approx 800,000 gallons capacity

Both projects involved modifying and enlarging the existing facilities. With careful computer aided design we were able to provide the client with the required storage facility for the irrigation of the polo lawns as well as 'stick and ball' areas on two neighbouring estates.

Once constructed the reservoirs were lined in-situ with a triple layer system comprising of a 0.75mm Excelastic membrane sandwiched between a 400gm/m<sup>2</sup> Geotextile overlay and underlay.

A 'wet-well' pumping chamber and associated pipework was installed adjacent to each reservoir. Water level in the chambers was the same as in the reservoir; this gave the facility to extract water from the reservoir without damaging the liner membrane.

Bore holes were drilled and connected to the 'wet-well' chambers via float switches, this allowed the reservoir to replenish its water level after periods of irrigation.