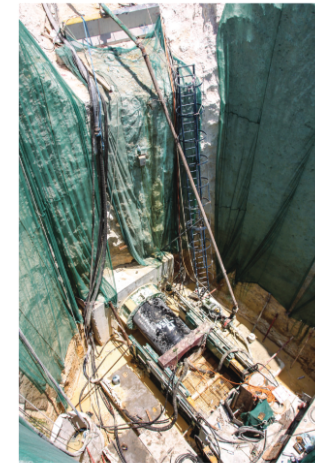




Any interruption to pumping during excavation and construction risks flooding and possibly compromising the structural integrity of retaining walls.



VALUE ENGINEERING

Founded and headquartered in Doha, Hydroserv is dedicated to working with clients, in Qatar and across the MENA region, to deliver the most practicable and efficient dewatering solutions - saving time and money

Qatar has recently seen a boom in underground infrastructure construction, due largely to the implementation of the Qatar National Vision 2030 and the impending 2022 FIFA World Cup, which has resulted in a large number of overseas dewatering contractors entering the Qatari market from the UAE and Europe.

This surge in activity has seen Hydroserv, a local company, involved in the

development of a number of prestigious projects, including the Qatar Rail Metro Goldline, Redline North Overground and Underground, Redline South Underground, Lusail City, Qatar Foundation (QF) World Cup Stadium and Al Bayt Stadium, with future works planned for Al Thumamma & Ras Abboud Stadiums.

With offices in the UAE, Oman, Kuwait and Bahrain, Hydroserv credits its success and growth to its professional team, which

is dedicated to working with clients to deliver the most practicable and efficient solutions to their needs - saving a partners time and money, from the tender stage right through to project completion.

HDPE PIPEWORK

A key example of this approach to value engineering is Hydroserv's use of high-density polyethylene (HDPE) pipework as opposed to blue lay flat hose for all pumping

systems and dewatering installations. The use of HDPE pipe significantly reduces dewatering costs by reducing the number and size of booster pumps, thus saving the contractor on pump rental charges, diesel consumption and site supervision.

HDPE is a cost-effective solution for a broad range of piping requirements and is extremely durable, reliable and leak resistant. It is easily installed by a team of trained and certified welders and can carry potable water, groundwater, wastewater, slurries and hazardous wastes. HDPE guarantees long service and trouble free installation.

A key component of any proposed dewatering scheme is that it must be designed and specified to ensure security of the drawdown. Any interruption to pumping during excavation and construction risks flooding and possibly compromising the structural integrity of the retaining walls or partially completed structure.

The high flows encountered in Qatar mean that this can result in a rapid recovery in groundwater levels. Furthermore, it is standard practice for Hydroserv's team to undertake a shutdown test to achieve drawdown security once the final target groundwater level is achieved and before the construction works commence, and to determine the rate of recovery in the event of a single pump stoppage, multiple pump stoppage or complete power failure. The data is then used by Hydroserv engineers to review the proposed monitoring regime and eliminate any risks or reduce their consequences.

Hydroserv's systems as a standard always include the following:

- Multiple power supply sets to reduce the percentage of pumps run by each set
- The provision of standby power with full auto start and pump restarting facilities
- Appropriate standby pumping plant and

- spares available at site
- Alarm systems which warn of a pump stoppage or interruption to the power supply
- Emergency response plans complete with trigger levels
- Detailed system monitoring and maintenance arrangements - pumped water levels, groundwater levels, water quality and flow rate

PROTECTING THE ENVIRONMENT


Qatar is taking the lead in enforcing environmental guidelines for the disposal of groundwater and Hydroserv's teams of environmental engineers can offer a range of potential solutions to a wide range of potential contamination issues.

The treatment of contaminated groundwater for the removal of hazardous substances, to meet discharge limits, is integral to Hydroserv's core business. Today, Hydroserv can offer a range of services, skills and technologies to provide the correct solution for each client's contamination problems, ensuring optimum environmental security.

Hydroserv's capabilities include treatment systems for turbid water, hydrocarbon contamination, SVE remediation, filtration and many more solutions offered either at full turnkey scale or pilot and trial testing. Data collection, monitoring, testing, analysis and reporting is part of the service provided along with prior experience of remediation projects all over Europe, the Middle East and Australasia.

CLIENT COMMITMENT

Hydroserv is committed to providing its customers with the best service for all their project needs at each stages of the project life cycle. This commitment sets the standard for the way Hydroserv does business and it's a commitment that the whole team stands by each and every day.

For Hydroserv it is not just the end result that counts, it's the measures taken to arrive there. Hydroserv wants its reputation to precede it and to be known for achieving results through great staff who deliver excellent service. 

Further details on Hydroserv's full turn-key design, installation and operational management packages can be found at www.hydroservint.com