

# WATER & WASTEWATER PRODUCTS & SERVICES

## KEEP YOUR WATER AND THE ENVIRONMENT SAFE

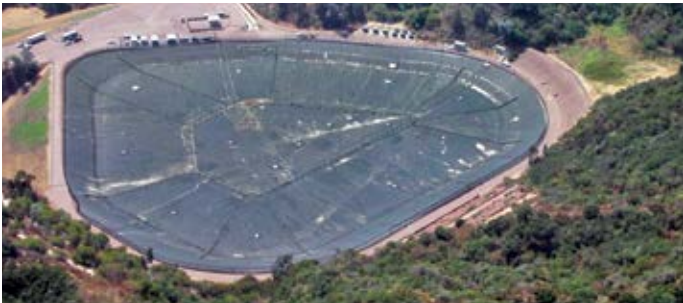
Geosynthetics are being successfully used in many applications to improve the process of storing and treating water and wastewater. The robust properties of geomembranes make them a cost-effective solution in applications such as potable water reservoirs and wastewater treatment lagoons. At Layfield, we offer design assistance and installation services for a diverse range of water and wastewater applications. Protect your resources and the environment.

[EXPLORE OUR GEOSYNTHETIC SOLUTIONS ►](#)



# FLOATING COVERS

Floating covers are the most effective method for the long term containment and storage of large volumes of water. In potable water containment, floating covers protect water from contamination, offer complete evaporation control due to total surface coverage, and reduce the number of disinfectants used in water treatment. In wastewater applications, floating covers prevent algae growth, collect biogas for use as a renewable resource, and minimize odor emissions. Layfield's floating cover systems employ proven leading technology designed to promote project longevity, offering an economical solution compared to traditional methods. With us, your floating covers outperform no matter the conditions.



## ▶ DEFINED SUMP FLOATING COVERS

A defined sump floating cover uses floats and weights to create rainwater collection sumps and to accommodate water level fluctuations. Ideal for larger floating cover applications, a defined sump system is the most versatile and can be adapted to almost any application.

## ▶ TENSIONED FLOATING COVERS

Tensioned Floating Covers use mechanical tensioners located around the pond's perimeter to maintain the tension in the cover. The tensioners pull a fold into the cover as the water rises, maintaining tension during fluctuations in water level.



## ▶ MODULAR INSULATED COVERS (MIC)

MIC Covers are designed to retain heat in water and wastewater ponds. Properly designed systems have demonstrated the ability to hold temperatures steady, even when temperatures dip as low as  $-40^{\circ}\text{C}$  [ $-40^{\circ}\text{F}$ ], allowing for efficient wastewater treatment year-round.

## ▶ BIOGAS COLLECTION COVERS

You can harvest valuable biogas from your digester with a Layfield-installed gas collection cover and enjoy the captured alternative energy benefits. Biogas covers prevent methane escape, reduce the emission of greenhouse gasses, and help meet stringent government regulations.



#### ▶ EVAPORATION/ODOR CONTROL COVER

An evaporation control cover can be a cost-effective solution in regions where water is scarce and expensive. Floating cover systems eliminate evaporation by preventing the dry ambient air from contacting the water in a pond, reservoir, or tank. These covers also reduce odors by controlling the release of odor-causing substances.



# 400+ SUCCESSFUL FLOATING COVER PROJECTS AROUND THE WORLD

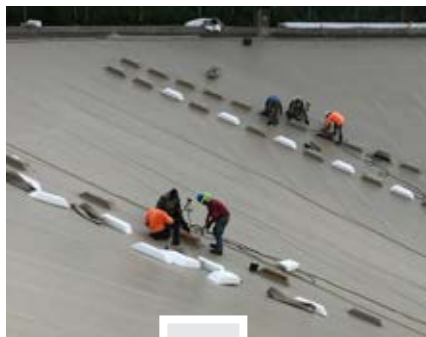
## FIXED AND FLOATING BAFFLES CURTAINS

Improve flow characteristics and increase the effectiveness of your water treatment processes with a fixed or floating geosynthetic baffle system. In potable water applications, prefabricated baffles increase chlorine contact time by creating a longer flow path within the clearwell, improving water treatment performance. In effluent treatment, a floating baffle curtain eliminates short-cutting, ensuring the water has had the required residence time for the best treatment effectiveness.



# INSTALLATION & MAINTENANCE SERVICES

Benefit from installation crews trained in quality control and safety, as well as possessing extensive project management experience. We also offer a complete service program specializing in cleaning, inspecting, and repairing geomembranes and floating covers. With us, you will meet your required maintenance regulations and can rest assured every geosynthetic installation is as reliable as the last.



## GEOMEMBRANE INSTALLATION

We specialize in installing geomembranes for various pond and reservoir applications and have particular expertise in relining underground concrete reservoirs.

## LEAK LOCATION

Layfield's Electrical Leak Location (ELL) method uses a sensitive technique that pinpoints existing leaks quickly and accurately, mitigating the potential for sustained contamination.

## MAINTENANCE SERVICES

As part of your environmental monitoring plan and to meet standard regulations, Layfield offers a complete service program specializing in cleaning, inspecting, and repairing geomembranes and floating covers.