



LAYFIELD
ENVIRONMENTAL CONTAINMENT



WINERY WATER TREATMENT

PRODUCTS AND SERVICES

Layfield is one of the largest floating cover installers in North America with over 30 years of successful projects in water and wastewater applications.



**FLOATING SOLAR | GEOTUBES® | FLOATING COVERS | FLOATING BAFFLES
GEOMEMBRANES | MAINTENANCE SERVICES**

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FLOATING SOLAR

Floating Solar takes advantage of the flat open area of a pond surface to provide a clear and unobstructed solar installation. Floating solar is especially effective in areas where land for ground-mount solar is either prohibitively expensive or unavailable. Floating solar is also an effective way to add solar near electrical demand, as ponds are often located next to municipal and industrial sites.

Layfield's three types of floating solar are: **Tensioned Floating Solar, Insulated Floating Solar, and Open Water Floating Solar.** Layfield provides full floating solar project development services including the solar and floating cover designs, procurement, installation, commissioning and maintenance.



OPEN WATER FLOATING SOLAR



INSULATED FLOATING COVER SOLAR

GEOTUBES®

Geotubes® are one of the most versatile and effective dewatering technologies available. Geotube® can help you achieve volume reductions of up to 90%, with high solid levels that facilitate removal and disposal. The Geotube® containers are available in a variety of sizes, depending on volume and space requirements.

Geotube® dewatering technology has been used in water and wastewater treatment applications including lagoon, tank, and digester cleanouts. It can provide dewatering and containment in one operation, with 85% to 90% reduction of Biochemical Oxygen Demand (BOD) in the effluent.



DEFINED SUMP FLOATING COVERS

The most popular floating cover design uses a pattern of weights and floats to define rainwater sumps on the surface of the cover. Rainwater removal pumps move precipitation off of the cover. Defined sump floating covers are used for all sizes of potable water reservoirs and can be adapted to fit unusually shaped ponds.



BIOGAS FLOATING COLLECTION COVERS

Placing an impermeable floating cover onto a wastewater pond creates anaerobic conditions. Anaerobic treatment can improve wastewater treatment but can also lead to significant formation of biogas. Biogas collection floating covers collect the gas produced from anaerobic treatment ponds for beneficial use.



EVAPORATION/ALGAE CONTROL COVERS

In dry areas where water is scarce and expensive, an evaporation control cover can be a cost-effective solution. These lightweight covers are used to prevent evaporation of water for irrigation and agricultural use. Popular in Australia, they are becoming more common in the Southwestern US. Lightweight covers are also appropriate for algae control when algae buildup is a problem.



FLOATING BAFFLES

Floating baffles are used in wastewater ponds and lagoons to create separate treatment zones or to stop short-cutting. Floating baffles can be combined with modular insulated and biogas collection covers.

GEOMEMBRANE INSTALLATION

Layfield manufactures, fabricates and installs a complete range of geomembrane materials for water and wastewater applications. We install geomembranes in all types of ponds and reservoirs and are uniquely skilled in the relining of underground concrete reservoirs (clearwells).



MAINTENANCE SERVICES

Regular maintenance will ensure that your floating cover or containment system will function efficiently for its design life. Layfield offers maintenance services that includes cover and liner surface cleaning, diver inspections, inflated cover cleanings and periodic evaluations of liner and cover materials.



WE PROTECT