



Roxy Designs

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FACT SHEET

First-in-Northern California Swimming Pool-to-Rain Tank Conversion

PROJECT: Conversion of a swimming pool in Moraga, California, into an underground rainwater harvest tank and creation of a new water-wise garden and play area aboveground.

DESIGN & INSTALLATION: Roxy Wolosenko, owner of Roxy Designs, a landscape design/build company based in Pleasant Hill, California.

SYSTEM SPECIFICATIONS: The rain tank system is manufactured in the USA from 100% recycled products. Plastic storage units are assembled like Legos™ and connect together to make a customized underground water-collecting tank. Modular tank units are unaffected by molds, algae or bacteria.

WATER SAVINGS OF PROJECT:

The homeowners can expect to collect and save enough rainwater to provide for at least 3 months and/or 50% of their landscape irrigation needs.

HOW TO CALCULATE WATER SAVINGS:

An average 2,000 sq. ft. residential roof can capture 1,250 gallons of reusable water in a 1" rainfall (approximately .6 gallons of water can be captured per sq. ft. of roof). The same roof in a region receiving 26" of annual rainfall generates 32,500 gallons of reusable water.

HOW MUCH WATER DO POOLS USE & LOSE:

A residential pool can evaporate and lose between 10,000 – 24,000 gallons of water every year.

Harvest System vs. Pool maintenance/pool removal

1. Instead of a concrete basin filled with chlorinated water, you can have a lush landscape and even a recirculating waterfall – all fed with rain harvested from the roof and stored in recycled-plastic tanks underground
2. Save water and money not just by using less municipal water for your landscape, but by getting rid of the pool which can evaporate and lose as much as 24,000 gallons of water every year
3. Save energy – after indoor heating and air conditioning, pool pumps are often the next highest energy consumer
4. No more costly chemicals – maintaining water quality in pools requires substantial amounts of chlorine, acids, and other chemicals
5. No jackhammering out the pool or bulldozing it full of dirt – help the environment by reducing excavation and disposal costs
6. Avoid pool removal costs, ranging anywhere from \$6,000 to \$15,000, depending on a variety of factors (size, access, pool material, special city requirements, proximity to baylands, etc.)
7. A maintenance-free underground storage tank can keep your garden green all year round, and dramatically reduce the need for irrigation.

PROCESS:

1. Drain pool water and remove pool coping
2. Level base of pool with layer of drain rock and lay geotextile fabric and liner inside pool
3. Assemble modular polypropylene units into a tank size that fits pool dimensions
4. Wrap tank with liner and fabric
5. Connect roof gutters via PVC pipe to inlets in the tank system
6. Backfill around and over tank with compactable, debris-free fill
7. Install landscape and bocce court materials over the top

TIMELINE: August 17–October 2

END RESULT ABOVE GROUND: A 60-foot bocce ball court and water-wise planting beds will be installed on top of the water tank, which will have no visible signs above the surface.

COST: \$2-\$3 per gallon of water storage, depending on size of system (7,500 gallon tank = \$22,500)