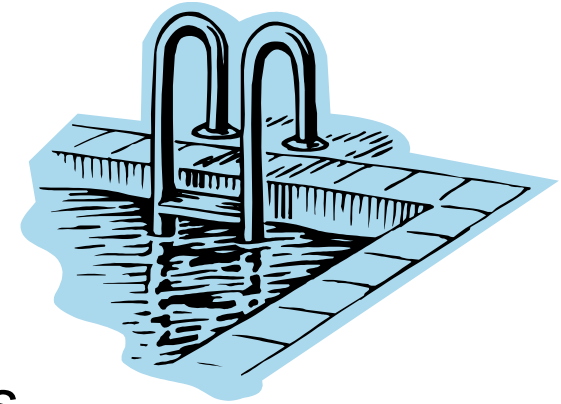


PUBLIC POOL REQUIREMENTS WATER MANAGEMENT



PUBLIC POOLS / SPA

- Apartments / Condos with => 4 Units
- Community / Municipal Pools
- Public / Private Schools
- Mobile Home Parks
- Medical Facilities
- Health Clubs / Organizations / Camps



PRIVATE POOLS / SPAS

- Single Dwellings (not inspected by EH)
- Duplex / Triplex Dwellings (not inspected EH)



PUBLIC POOL CATEGORIES

- SWIMMING POOLS
- SPA POOLS
- WADING POOLS
- SPECIAL USE POOLS
- WATER PARKS
- SPRAY GROUND/SPLASH PAD



REGULATORY AUTHORITY FOR POOLS



Public Pools

- California Health and Safety Code
- California Code of Regulations, Title 22 & 24
 - Title 22 mainly for maintenance and operation
 - **Title 24 mainly for construction**

Swimming Pool Technicians

- Los Angeles County Code, Title 11



CONTRACTORS FOR PUBLIC POOLS

Required CA Contractor Licenses

C53 and “A” Engineering; Pool Construction

C61/D35; Pool repairs and above ground plumbing and equipment changes



LA County Website Information

Search; LA County Environmental Health

General Pool Information

Environmental Protection – Recreational Waters
– Swimming Pool Information

Plan Check +

Areas of Interest – Public Pools

- Pool Code Book
- Plan Check Requirements and Application
- LA County Approved Equipment List
- Pool Cover Guidelines and Other Guidelines



VERY BASIC PUBLIC POOL REQUIREMENTS

- Must operate in a sanitary, healthful, and safe manner
- Supervised by a pool operator and maintained by LA County Certified technician
- Plans and approval to operate by local enforcement agency; EH Recreational Waters
- White pool shell no marking except safety markings
- 4 Feet of unobstructed deck space around the pool
- Clean and clear water with recirculation and disinfection system operating
- Enclosed for pool users
- Safety equipment and signs in place



Pool Enclosures

- Pool user is person participating in or watching water activity, such as diving, swimming, or wading
- Pool enclosure is to enclose the pool and deck specifically designed and intended for use by pool users.
- Fencing;
 - i. 5 Feet high fence or wall; Effective from outside.
 - ii. No gaps greater than 4"
 - iii. No horizontal footholds (48")
 - iv. No planters or structures climbable within 5'
 - v. Clear 5' radius on the outside
 - vi. 5' public area outside of the enclosure
 - vii. Portion of a building; no openings.
 - viii. No private premises on the outside of the enclosure including privately controlled patios



Pool Enclosures

- Gates
 - i. Self closing and self latching.
 - ii. Hand activated hardware 42" to 44"
 - iii. Lockable when pool is closed
 - iv. At least one door must be Emergency Exit and labeled
 - v. Exits must exit to a public walkway or area
 - vi. Gates must open outward; Out of the enclosure
- Retroactivity
 - i. Constructed prior to July 1, 1994
 - ii. No fence < than 4'
 - iii. Added enclosures may be evaluated for reduced deck space (i.e. Courtyard pools)





No Green Pools

- Mosquito Breeding
- Disease Transmission
- Drowning Hazard
- Draining wastes water and may cause damage to the shell in areas with high ground water
- Keep water clean, clear, and recirculating. Regularly chlorinate and test your swimming pool to maintain disinfection levels.
- Maintain the pH level between 7.2 and 7.8
- Run filter on a regular basis as required (4-8 hours/day).
- Keep filters clean and pump in good repair.
- Skim the pool surface, and vacuum and brush the walls weekly.
- If not in use, the pool may be tightly covered. Keep rain water from accumulating on the cover



1. Pump

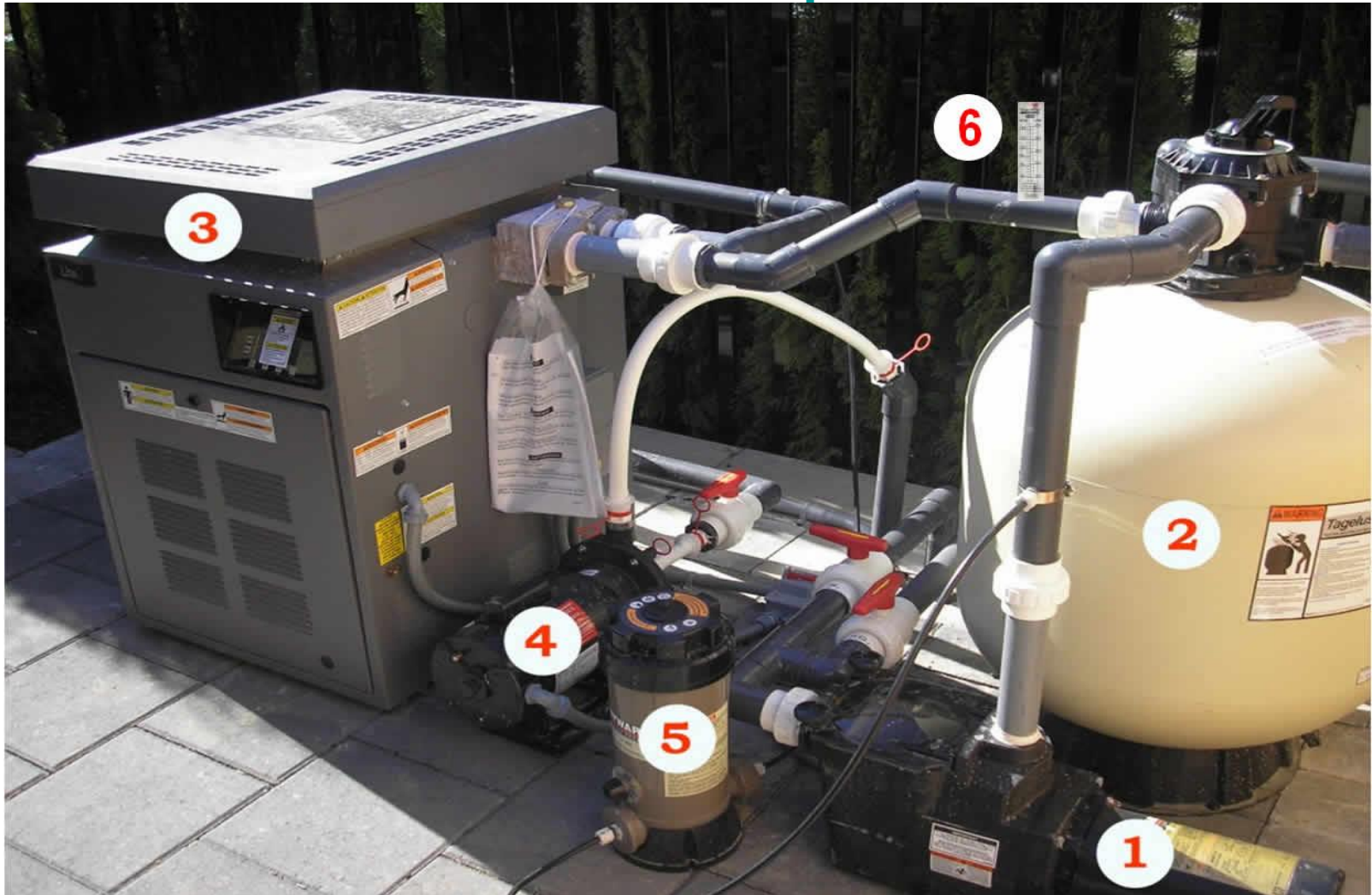
2 . Filter

3. Heater

4. Solar Pump

5. Chlorinator

6. Flowmeter



The pump should be running...





DE FILTER



INFLUENT AND EFFLUENT PRESSURE GAUGES





FLOWMETER



FREE STANDING OFF-LINE DRY TABLET CHLORINATOR



LIQUID CHLORINATION SYSTEM



VIRGINIA GRAEME BAKER ACT



- On October 11, 2009, Assembly Bill 1020 was signed into California State law.
- This bill adds Section 116064.2 to the California Health and Safety Code.
- This new section incorporates provisions of the federal Virginia Graeme Baker (VGB) Act into California State law and is intended to prevent suction drain entrapment and drowning.
- The new law requires that all public pools be retrofitted with approved drain covers manufactured after December 19, 2008.



- In addition, every suction drain on a public pool must have a split (dual) drain; OR be equipped with a safety vacuum release system; OR an automatic pump shut-off system.
- By July 1, 2010, owners of all public swimming pools and spas must submit a “Certificate of Compliance” form to the RWP verifying that their pool(s) meet all provisions of the new State law.
- Also adds pipe velocity restrictions. Required turnover rates and restricted pipe velocity may mean larger pipes will be required.



Water Saving Ideas for Pools

- Water Must be from a Potable Approved Source
 - **Section 3127B Water Supply Inlets, CBC Title 24**
3127B.1 General.
Each pool shall be supplied with potable water by means of a permanently installed pipeline from a public water supply system holding a permit from the California Department of Public Health or from a source approved by the enforcing agent.
- Each body of water is required to have an automated fill line protected by an approved back flow prevention device



Water Saving Ideas for Pools

- Reduce Evaporation – Sun Exposure
 - 20' x 40' Pool **Evaporation**
1/2 inch on a hot summer day
250 Gallons/Day or up to 91,250 Gallons/Year
 - 165' x 82' Olympic Size Pool
4228 Gallons/Day to up to 1.5 Million/Year
- A golf course can require 100,000,000 Gallons/Year



Water Saving Ideas for Pools

■ Covers

Cover Guidelines - Plans Required



COUNTY OF LOS ANGELES • DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH
BUREAU OF ENVIRONMENTAL PROTECTION
RECREATIONAL WATERS PROGRAM
5050 Commerce Drive, Baldwin Park, CA 91706 – (626) 430-5360



Guidelines for Using Pool Covers on Public Pools

All covers require a plan approval from this Department

Floating Pool Covers

1. The pool must be segregated from all dwelling units by an approved fence or enclosure. Floating pool covers are not permitted at courtyard pools or in other situations where there is no fence or enclosure between the living units and the pool.
2. The pool must be under the supervision of management personnel or other responsible person(s) who has sole access to the pool area when it is not open for use. The pool area must be locked to prevent any usage of the pool when the cover is in place. The pool may not be reopened for use until the pool cover has been removed from the pool and properly stored by the responsible party.
3. The pool cover, when not in use, must be completely removed, rolled up, and stored at least four feet away from the pool. In the case of spa pools, the cover must be physically removed from the immediate premises to prevent bathers from re-covering the spa pool.
4. The pool cover must meet current American Society for Testing and Materials (ASTM) labeling requirements.

Safety Covers

1. The pool cover must meet current American Society for Testing and Materials (ASTM) requirements for safety covers.
2. The cover must be installed and used according to manufacturers instructions.
3. Provisions must be made for the stair handrail and deep end ladder so that they are retractable when the cover is in place.
4. The following applies to specific types of safety covers:

Stretch Covers

- a. Tie down anchors must be designed so that they are fully recessed into the deck and not a tripping hazard.
- b. The pool must be under the supervision of management personnel or other responsible person(s) who has sole access to the pool area when it is not open for use. The responsible party must remove and store the pool cover before opening the pool for use.

On Deck Unit with on Deck Track

- a. All retracting mechanisms and their associated housing, must be located a minimum of 4 feet back from the pool edge.



Water Saving Ideas for Pools

- Pre-filters
 - Must be on the LA County Approved Equipment List
 - If NSF 50, may be considered for addition to the list
- Supplemental Filtration
 - Permanently installed must be approved through the plan check process
 - Mobile independent units must be NSF Approved, Standard 50 or 60, and **not** be operated when pool is open.
- Bather Hygiene
- Check for Leaks Visual and bucket test



Water Saving Ideas for Pools

Backwash

- Must be indirect connection to sewer
- In no case back to pool
- DE Filters require separation tank
- Visual indicator, sight glass
- Backwash 3-5 minutes until clear
- The cleaner you keep the pool the less often you have to back wash (8-10 PSI difference from starting point)

A properly maintained pool is the best way to save water



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Recreational Waters Program

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<http://www.publichealth.lacounty.gov/eh/rw.htm>



