

Water Conservation Plan  
For  
Topaz Ranch Estates  
General Improvement District

Prepared By:

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September 2006

## **Background:**

This Water Conservation Plan is an update of the Plan produced by Lumos & Associates and approved by the Board in 1999.

Topaz Ranch Estates General Improvement District operates a municipal water system which provides service to Topaz Ranch Estates. The source of water for the GID is from the groundwater aquifer which has an undetermined yield which can be effected by drought. With increased water demands and potential of future droughts, it is necessary to educate people within the community of the need to conserve water.

In order to help preserve the GID's limited water resources, the GID is enacting this Water Conservation Plan.

The Water Conservation Plan Consist of 5 parts:

1. Public Education
2. Water Retrofit Kits
3. Drought Contingency Plan
4. Water Rates and Incentives
5. Water Auditing

## **Public Education:**

The GID shall strive to increase public awareness of the limited groundwater resources, drought potential, and increasing cost of developing new water sources.

To accomplish this the GID shall do the following:

1. Include educational pamphlets at the GID service desk and in bill mailings on the following topics:
  - a. Information of the water system and its limited resources;
  - b. Information on the Drought Contingency Plan;
  - c. Information on the availability of Water Retrofit Kits;
  - d. Information on ways to reduce water use including Xeriscape gardening.

## **Water Retrofit Kits:**

The GID shall provide water retrofit kits at cost to all customers that request them. The retrofit kit shall include: Water reducing showerheads, faucet aerators, leak detection tablets, and a toilet tank bag.

## **Drought Contingency Plan:**

In the event of a drought condition, the GID shall implement the following "Drought Contingency Plan".

Phase I shall be implemented if the groundwater table drops significantly.

### **Phase I**

1. Implement odd/even outdoor water schedule based on the last digit in the house address. Now watering will be allowed on the 31 day of the month.

Phase II shall be implemented if the groundwater table approaches the turbine bowls in the pump stations.

### **Phase II**

1. Implement twice a week outdoor watering schedule based on the last digit of the house address. Even addresses will water on Wednesdays and Saturdays. Odd addresses will water on Thursdays and Sunday. Commercial accounts shall water on Tuesdays and Fridays;
2. Prohibit car washing and washing of paved surfaces.

Phase III shall be implemented if there is a significant decrease in well capacity due to a drop in the groundwater table.

### **Phase III**

1. Implement once a week outdoor watering by hand only;
2. Prohibit all non-essential uses of water, such as construction uses and fire training uses;
3. Prohibit car washing and washing of paved surfaces.

## **Water Rates and Incentives:**

If water use does not decrease by use of these measures, the GID shall consider a stepped water rate with an increased per gallon cost of water as monthly water use increases.

For example, the first 5000 gallons would be billed at \$1.90/1000 gallons, the next 5000 gallons would be billed at \$2.28/1000 gallons, the next 5000 gallons would be billed at \$2.66/1000gallons, etc.

### **Water Auditing:**

The GID will begin a water auditing system to track unbilled water in the system. The GID will record monthly pumping and monthly billed water use. The difference between these numbers approximates the unbilled water in the system.

The GID will monitor the unbilled water amounts and if it is found excessive the GID will consider methods to reduce the unbilled water amounts including water meter replacement, leak detection and repair program, and similar projects.

This Water Conservation Plan has been approved by the Board of Directors of the Topaz Ranch Estates General Improvement District at its meeting held on September 13, 2006.

Signed,

Lee Van Brunt  
Chairman

9-13-06  
Date

[Signature]

9/13/06  
Date

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Date

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9/13/06  
Date

Betty Anton-Riley

09/13/06  
Date

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APPENDIX A

WATER CONSERVATION SCHEDULE

**TOPAZ RANCH ESTATES GID**  
**WATER CONSERVATION SCHEDULE**

<b>TASK</b>	<b>DATE TO IMPLEMENT</b>
Water Auditing	October 2006
Water Retrofit Kits	February 2007
Educational Pamphlets	March 2007
Water Rate Analysis	April 2007