

# Cachuma Project Water Rights Hearing

October 2003

## Panel III

Presenter:

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# Water Supplies of the Cachuma Project

## Member Agencies

- South Coast Member Units
  - Goleta Water District
  - City of Santa Barbara
  - Montecito Water District
  - Carpinteria Valley Water District
- Santa Ynez River Water Conservation District, Improvement District No. 1 (ID#1)
- Agencies are physically, legally, and politically separate

**Table 1. Summary of Cachuma Project Member Agencies Current Normal Year Water Supplies (acre feet per year)**

	City of SB	Goleta	Carpinteria	Montecito	ID#1	Total
Cachuma Project	8,277	9,321	2,813	2,651	2,651	25,713
State Water	2,200	4,500	1,650	2,280	525	11,155
Local Groundwater	1,104	2,350	3,000	200	2,910	9,564
Recycled	900	1,500				2,400
Other SYR&Tunnels	5,719			2,375		8,094
<b>Total Supplies</b>	<b>18,200</b>	<b>17,671</b>	<b>7,463</b>	<b>7,506</b>	<b>6,086</b>	<b>56,926</b>
Current Year Demand	14,342	14,000	4,300	6,073	5,792	44,507
<b>Planned Future Demand</b>	<b>18,200</b>	<b>17,300</b>	<b>5,833</b>	<b>6,835</b>	<b>6,619</b>	<b>54,787</b>

# Summary of Normal Year Supplies

- Cachuma supply varies from 39% to 54% of normal year supplies.
- Montecito and City of Santa Barbara have other Santa Ynez River supplies
- Goleta, Carpinteria, and ID#1 depend more on local groundwater
- Goleta and City of Santa Barbara have recycled water projects
- Santa Barbara desalination facility is in long-term storage
- Existing supplies adequate for current and planned future demand during normal years

**Table 2. Summary of Cachuma Project Member Agencies  
Critical Drought Year Water Supplies (acre feet per year)**

	<b>City of SB</b>	<b>Goleta</b>	<b>Carpinteria</b>	<b>Montecito</b>	<b>ID#1</b>	<b>Total</b>
Cachuma Project	3,330	3,750	1,132	1,066	1,066	10,344
State Water (50% delivery)	1,650	3,725	1,100	1,650	350	8,475
Local Groundwater	4,150	2,350	4,650	400	3,770	15,320
Recycled	900	1,500				2,400
Other SYR&Tunnels	800			442		1,242
Desalination	3,125					3,125
<b>Total Supplies</b>	<b>13,955</b>	<b>11,325</b>	<b>6,882</b>	<b>3,558</b>	<b>5,186</b>	<b>40,906</b>
<b>Current Year Demand</b>	<b>14,342</b>	<b>14,000</b>	<b>4,300</b>	<b>6,073</b>	<b>5,792</b>	<b>44,507</b>
Planned Future Demand	18,200	17,300	5,833	6,835	6,619	54,787

# Summary of Critical Drought Year Supplies

- Drought period planning is the adequacy test
- Drought period planning must recognize need for a reserve
- During a critical drought year Cachuma provides only 25% of total supplies
- State Water may be curtailed as well – this analysis uses 50% delivery
- Local groundwater important for all agencies
- Meeting planned future growth will require additional strategies



# State Water Summary

- Deliveries are variable
- Capacity is limited
- Cannot be carried over
- Difficult to plan future deliveries
- Relatively expensive

# Costs of Member Units Supplies

- Cachuma and other Santa Ynez River supplies have fixed low costs
- Local groundwater have relatively low costs but are limited
- State Water has high fixed costs and an additional marginal cost of \$250/AF
- Santa Barbara desalination facility would need ~\$10 million for startup and ~\$1200/AF for delivery



# Comparison of EIR Alternatives

- Table 8 in testimony is similar to Table 4-16 in EIR
- Including reserve is more realistic, shows large shortages during critical drought (60%+)
- Biological Opinion alternative ( EIR Alt 3C) has significant shortages compared to historical operations (deliveries 21% less)
- No Surcharge alternative (EIR Alt 3A) has significant shortages compared to BO alternative (11% less)

# Conclusion

- Member Units have diversified supplies based on Cachuma Project
- Supplies for current demand adequate
- Supplies for planned future growth will have substantial shortages during drought
- Project water supplies took significant impact with Fish Management Plan
- Not having a surcharge, but requiring same releases would increase impact

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