



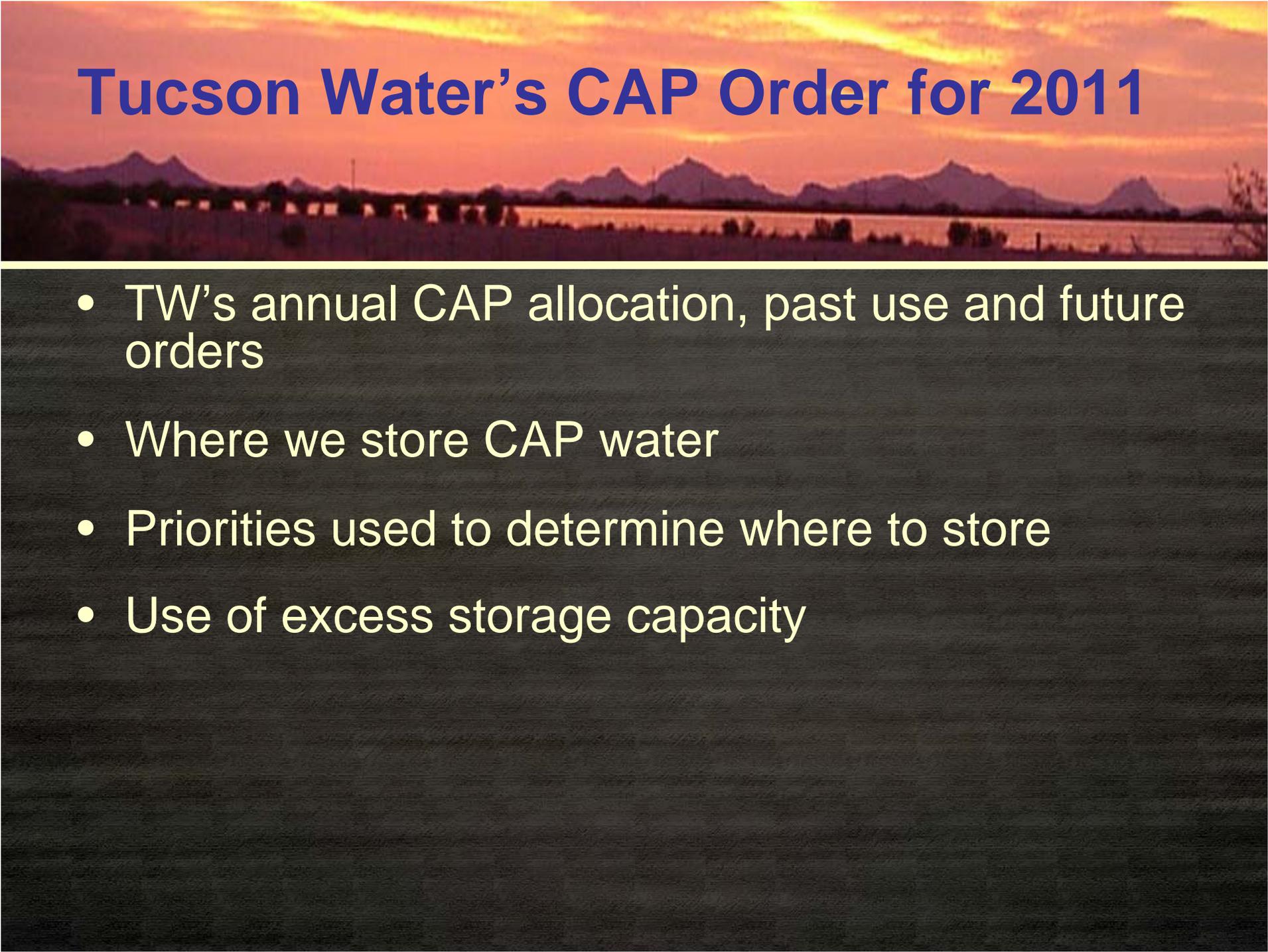
# Tucson Water's CAP Order for 2011

Citizens' Water Advisory Committee

October 6, 2010

Dee Korich

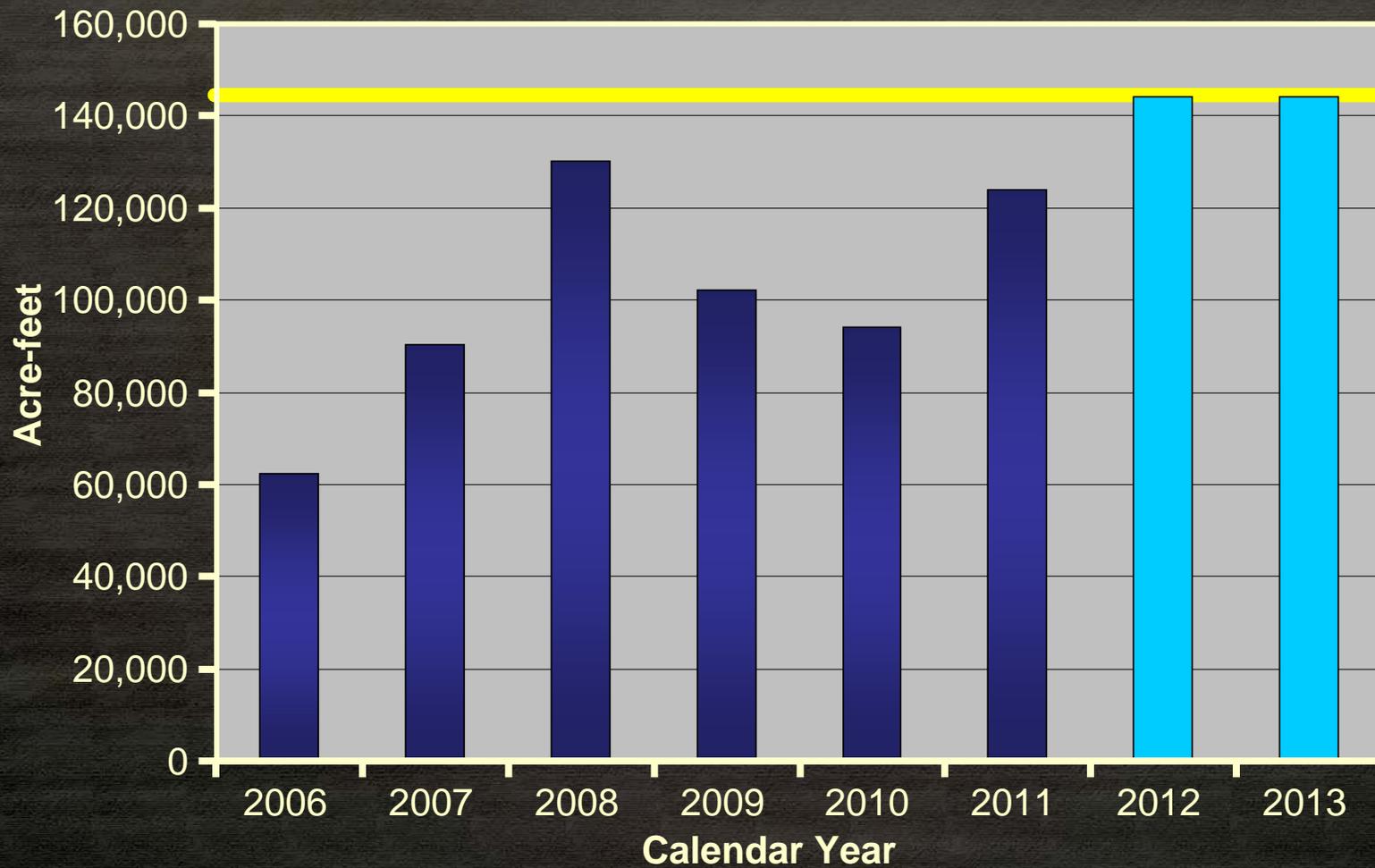
Hydrologist, Water Resources Management

The slide features a background image of a sunset over a desert landscape with mountains and a reservoir. The title 'Tucson Water's CAP Order for 2011' is displayed in blue text at the top. Below the title, a dark grey rectangular area contains a bulleted list of four items in white text.

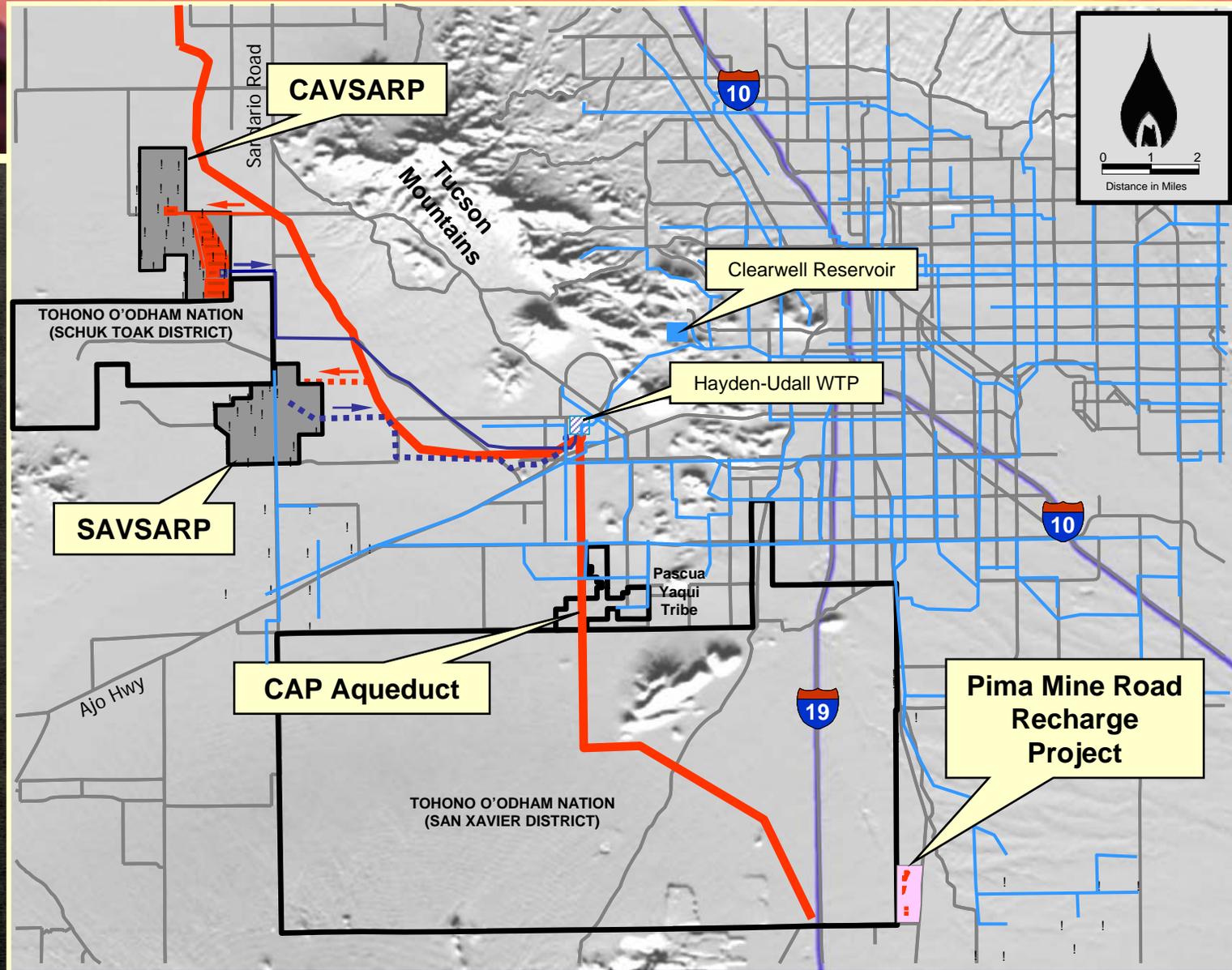
# Tucson Water's CAP Order for 2011

- TW's annual CAP allocation, past use and future orders
- Where we store CAP water
- Priorities used to determine where to store
- Use of excess storage capacity

# Annual CAP Purchases



# Map of Clearwater Facilities





# Priorities for Storage Location

- Maximize annual recharge and recovery
- Minimize recovery costs
- Recovery capacity



# Accumulation of Long-Term Storage Credits

- Water stored for later use
- Legislated 5% cut to the aquifer
- Withdrawal fee to ADWR of \$1/AF



# Annual Recharge and Recovery

- Annual put and take
- No legislated cut to the aquifer
- No withdrawal fee to ADWR
- Physical control of mounding and migration

# Clearwater Facilities

| <i>Facility Name</i> | <i>Permitted Capacity (AF)</i> | <i>Physical Capacity (AF)</i> | <i>Average Pumping Cost (per MG)</i> |
|----------------------|--------------------------------|-------------------------------|--------------------------------------|
| CAVSARP              | 100,000                        | 90,000                        | \$336                                |
| SAVSARP              | 60,000                         | 60,000                        | \$490 / \$613                        |
| Pima Mine Road       | 30,000                         | 20,000                        | \$124 / \$247                        |



## Pima Mine Road

- Tucson shares with CAP – we get half the available 20,000 AF capacity in 2011
- First right of refusal for any of CAP's unused half (CAP typically uses 2,000 AF)
- Historically, TW has allowed CAP to provide Community Water Company of Green Valley 535 AF of storage
- Total for Tucson 17,465 AF



## Users of Remaining Storage Capacity

- Arizona Water Banking Authority (AWBA)
  - Intrastate storage
  - Interstate storage (Nevada)
- Other entities
  - Pascua Yaqui
  - Tohono O'odham
  - Others in future (Oro Valley?, Marana?, Metro Water?, Vail?, etc.)

Pay a storage fee of approximately \$14/AF

The title slide features a scenic background of a sunset over a body of water with mountains in the distance. The sky is a mix of orange, yellow, and red, while the water and mountains are silhouetted against the bright light.

# Arizona Water Banking Authority (AWBA)

- Seeks to utilize the State's entire Colorado River entitlement
- Stores surpluses for use in times of shortage
- Firming goal for the Tucson AMA is 864,000 AF – achieved less than 50% to date
- 73% of firming goal is for Tucson Water
- Performs interstate banking through agreement with Nevada



## Other CAP Usage

- Groundwater Savings Facilities (GSFs)  
5,000 – 10,000 AF/YR (City CAP water replaces groundwater pumping by farms)
- Hayden-Udall Plant usage – approximately 800 AF/YR

# CAP 2011 Order (AF)

| Facility       | TW             | AWBA          | Other              | Totals         |
|----------------|----------------|---------------|--------------------|----------------|
| CAVSARP        | 78,385         | 5,000         | -                  | 83,385         |
| SAVSARP        | 20,000         | 31,000        | 9,000 <sup>1</sup> | 60,000         |
| Pima Mine Road | 17,465         | -             | 2,535 <sup>2</sup> | 20,000         |
| Plant/GSFs     | 8,150          | -             | -                  | 8,150          |
| <b>Total</b>   | <b>124,000</b> | <b>36,000</b> | <b>11,535</b>      | <b>171,535</b> |

<sup>1</sup>Tohono O'odham = 8,500, Pascua Yaqui = 500

<sup>2</sup>CAGR D = 2,000, Community Water Co. of Green Valley = 535