

Water Conservation

Water loss due to seepage has long been an issue at Agua Caliente Park, a more efficient strategy is needed.

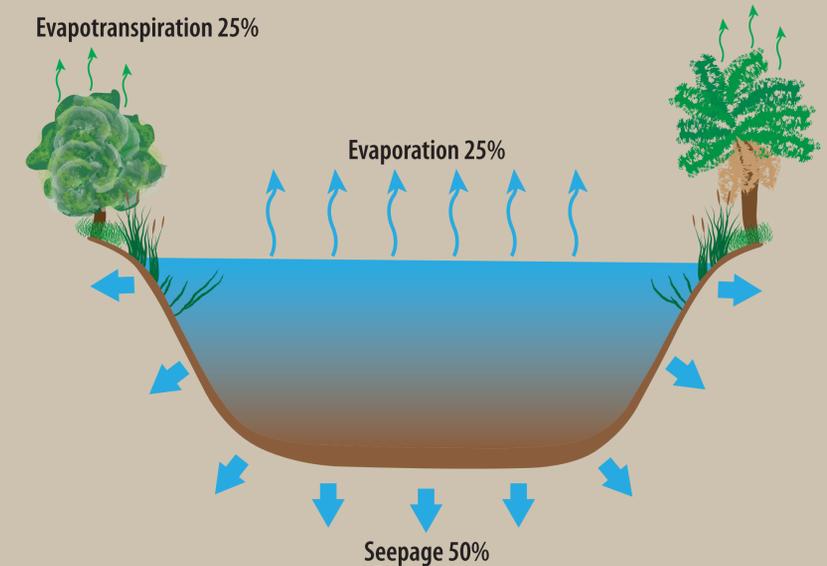
A Brief History

- In 2002, the Tucson community supported “take no action” over the alternative to create a wetland or cienega.
- At that time, the spring sustained the pond system.
- The spring dried up; now groundwater is used to fill Pond 1.
- Too much groundwater is required.
- Add losses due to seepage; “take no action” is no longer feasible.
- The County will curtail the water loss, but will maintain Pond 1 and Pond 2.

Pond System Modifications

- In 2016, Pond 2 was renovated to prevent seepage.
- A black High-Density PolyEthylene (HDPE) liner was installed in Pond 2.
- In 2019, a liquid polymer emulsion liner will be applied to Pond 1.
- Seepage losses will be dramatically curtailed.

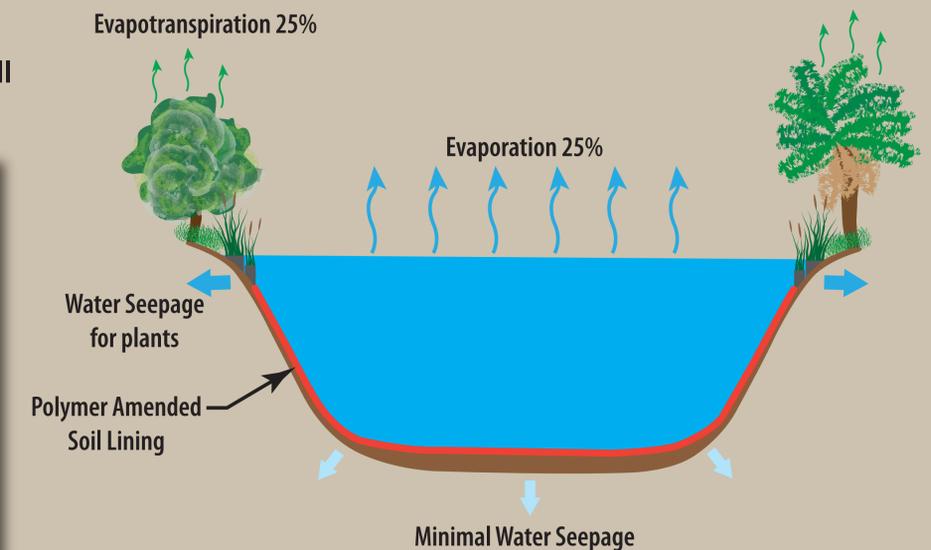
The Path to Sustainability



CURRENTLY: 14 million gallons of water annually seep out of Pond 1

Benefits

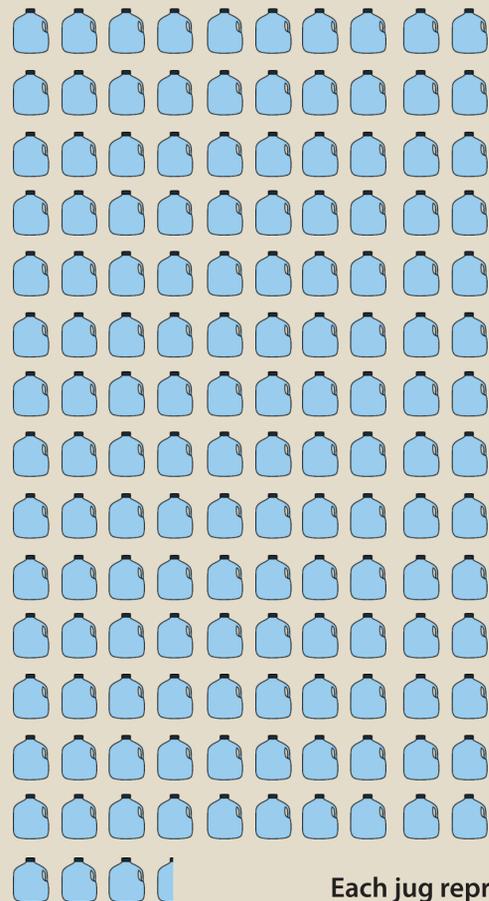
- Pumping of groundwater will be significantly reduced because seepage from Pond 1 will be minimized.
- Because overall water losses will be minimized, Pond 2 will also be kept full.
- Greater visibility of the pond surface will result from the removal of selected palms and cattails.
- These changes will result in wildlife habitat improvements and provide more open water for migrating waterfowl.
- The historic character of this Tucson treasure will be restored.



SEAL THE POND: Save millions of gallons of groundwater

CURRENT: 14,337,444 Gallons Annual Water Seepage Loss

PROPOSED: 325,851 Gallons Estimated Annual Water Seepage



Each jug represents 100,000 gallons