

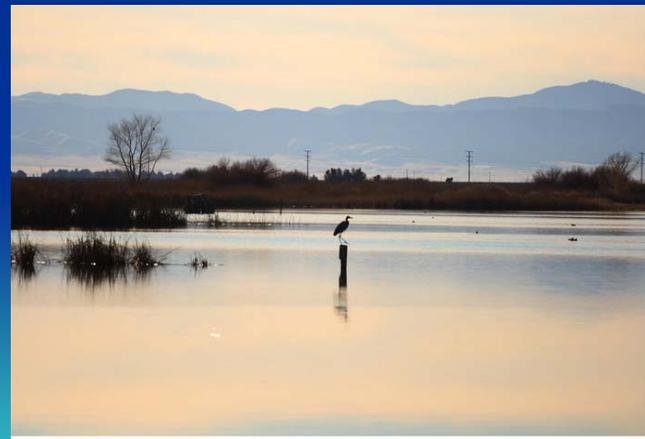
Piute Ponds



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Background

- Piute ponds
 - Constructed wetland
 - Located on Edwards Air Force Base (Client)
- Habitat
 - Mojave desert
 - Important stop on Pacific flyway
 - SEA
- Supplied with treated waste water
 - Secondarily treated
 - Will move to tertiary treated
- Issues facing ponds
 - Increased population in Antelope Valley
 - Increase in WWTP output
 - Lack of management plan



Problem

- **Problem--A comprehensive management plan for Piute Ponds does not exist.**
 - EAFB aims to increase the educational, recreational, and ecological values of the Piute Ponds.
 - Little stakeholder input has been sought.
 - Expanding development and competing interests for treated water
 - Balance needs of multiple stakeholders
 - Efficiently allocating scarce natural and financial resources.



Questions

Major questions to focus our research include:

- What current issues need to be addressed to enhance and expand the ponds?
- What similar issues have been faced by other constructed wetlands and how have they been resolved?
- What are the likely impacts of varying the pond water levels and flows?
- What do stakeholders envision for the future of the ponds?
- What are the management options?
- How can EAFB select the most appropriate management option?



Develop recommendations for management of Piute Ponds

- Gather stakeholder input
- Literature review of similar constructed wetlands
- Consider competition for reclaimed water
- Consider recreation, education, and conservation needs
- Detail various management options
- Identify benefits and risks of each approach
- Devise approach for selecting options



Literature Review

- Elements of successful management plans
 - Water Quantity and Quality
 - Biological Resources
 - Education
 - Recreation



Approach

- Assessing the current status of the wetland
 - Ecological Health--CRAM
- Developing a vision for the plan,
- Lessons learned from other wetland management areas
- Identifying and working with stakeholders
- Developing a methodology for ranking the scenarios we generate

(Lane Council of Governments, 1992).

