Lower Colorado River Multi-Species Conservation Program

Balancing Resource Use and Conservation

Imperial Ponds Conservation Area Habitat Creation and Monitoring

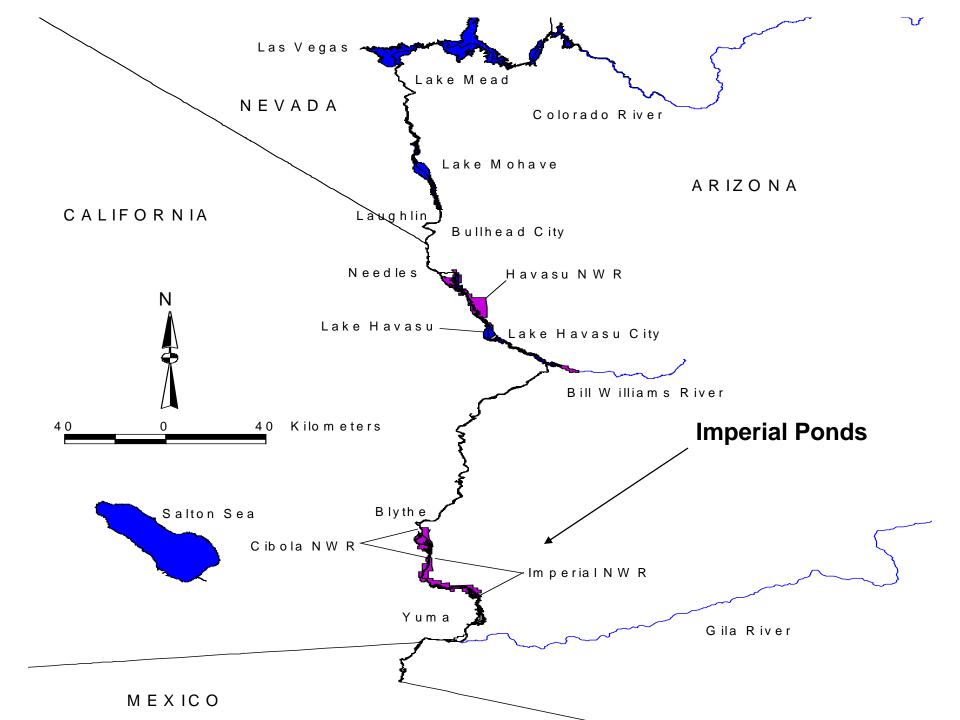
Nathan Lenon Chris Dodge

January 30, 2008



Project Overview

- Integrated mosaic of native land cover types
 - 80 acres of backwaters (6 isolated ponds)
 - 34 acres cottonwood-willow
 - 12+ acres marsh
- Situated within "Intensive Management Area", 360acre area of focused management for sensitive wildlife species
- Partnership with Imperial National Wildlife Refuge



Existing Site Conditions (2004)

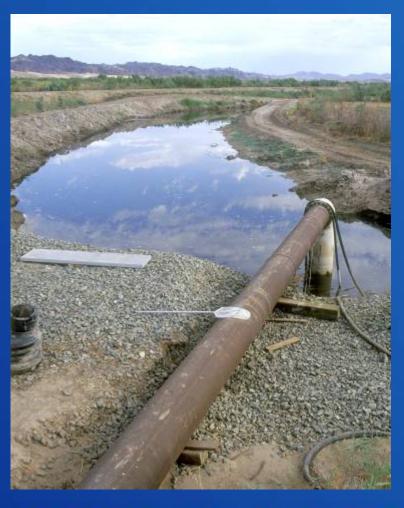


Conceptual Pond Design (2005)



Site Preparation Dewatering – Fall 2006





Prescribed Burning – spring 2006



Before & After



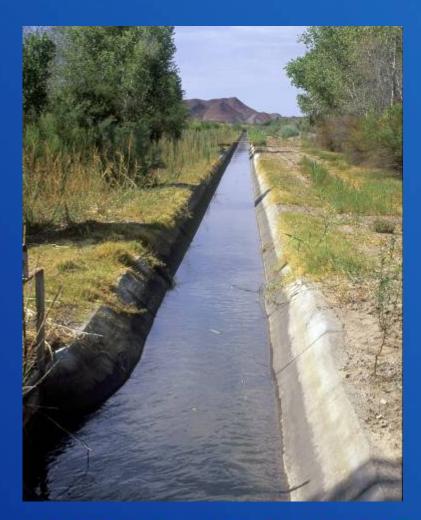


Site Preparation survey & staking – June 2006



Site Preparation temporary irrigation system – June 2006





Ponds Construction 2006



Rip Rap Placement



Completed Rip-Rapped Slope



Completed Boat Ramp



Pond 1 Completed



October 2006



December 2006





Fish Screen Installation – July 2007





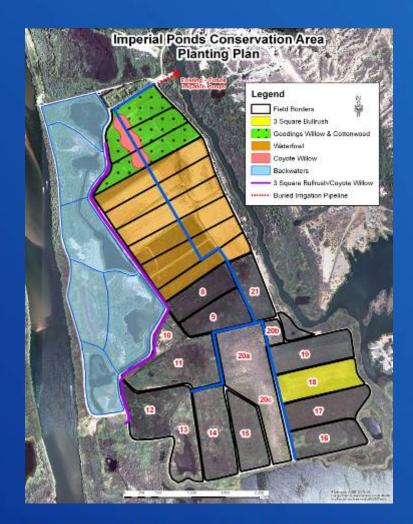
Ponds Dedication – November 2007





Riparian Fields Timeline

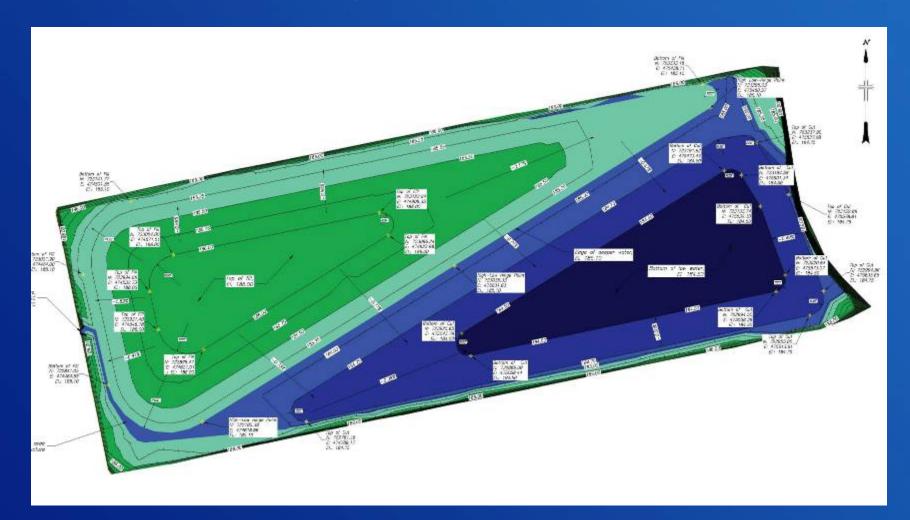
- Field leveling & irrigation system construction (FY08)
- Soil Conditioning (FY09-FY10)
- Cottonwood-willow plantings (FY10)



Future Black Rail Marsh Unit



Marsh Grading Plan



Upcoming Marsh Planting (June 2008)

- Common Three Square (Scirpus pungens)
- Olney's Three Square (Scirpus olneyii)
- Creeping Spikerush (Eleocharis palustrus)
- Hardstem bulrush (Scirpus acutus)



Monitoring Efforts

- Marsh bird surveys at each pond and field 18
- Photo points and vegetation survey at each pond
- Aerial Photos
- Small mammal trapping
- Avian surveys of created cottonwood-willow cover type.

Small Mammals

- Sigmodons are currently present at Imperial NWR
- Trapped in Phragmites habitat adjacent to the area to be planted with cottonwood and willow.



Avian Species





- Summer Tanager
- Yellow Warbler
- Gila Woodpecker
- Yellow-billed Cuckoo
- (migrant) Willow Flycatchers
- Yuma Clapper Rail
- Least Bittern
- Black Rail

Bat monitoring

- 4 MSCP species recorded at the site
- western red bat (Lasiurus blossevilli)
- Western yellow bat (Lasiurus xanthinus)
- California leaf-nosed bat (Macrotus californicus)
- Towsend's big-eared bat (Corynorhinus townsendii)

Good partners are the most important ingredient to a good project.

