



River Restoration at the Flood Control District of Maricopa County

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FCD Mission

To provide flood hazard identification, regulation, remediation, and education to the people in Maricopa County so that they can reduce their risks of injury, death, and property damage due to flooding while enjoying the natural and beneficial values served by floodplains.



Natural & Beneficial Floodplain Functions

Verde River



- Conveys water
- Reduces downstream peak flows
- Supports diverse flora and fauna
- Vegetation in the floodplain helps stabilize banks, slow velocities, and improves water quality
- Recreation and open space



Traditional Flood Control Structures

Conveyance Channels



Flood Detention Basins



Flood Retarding Structures



CURRENT DIRECTION

- Protect natural Sonoran desert landscapes
- Protect and enhance local community character
- Promote multiple-use of flood control facilities
- Promote partnerships with local communities
- Reduce FCDMC operation & maintenance costs



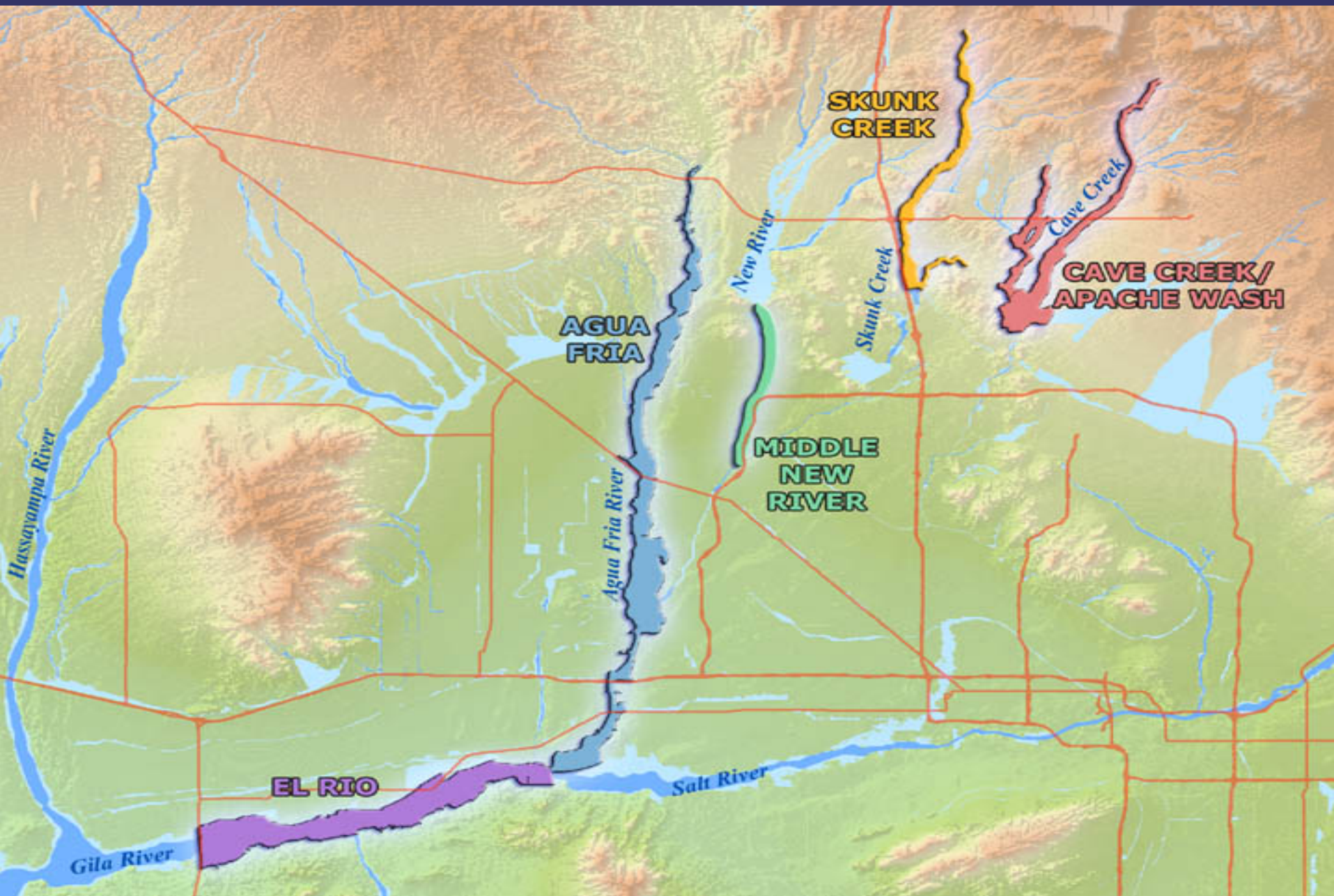


Multi-Use Detention Basin





Maricopa County Watercourse Master Plans



Planning Challenges for Rivers and Washes

- Contain the 100-year flood
- Prevent bank erosion and river stability
- Provide opportunity for recreation and water recharge
- Preserve natural river form and function
- Provide developable land outside of the floodplain
- Many conflicting uses



Implementation Strategies

- Coordinate with stakeholders
- Develop regional partnerships
- Shared vision & identity
- Environmental education
- Infuse plan recommendations into local community



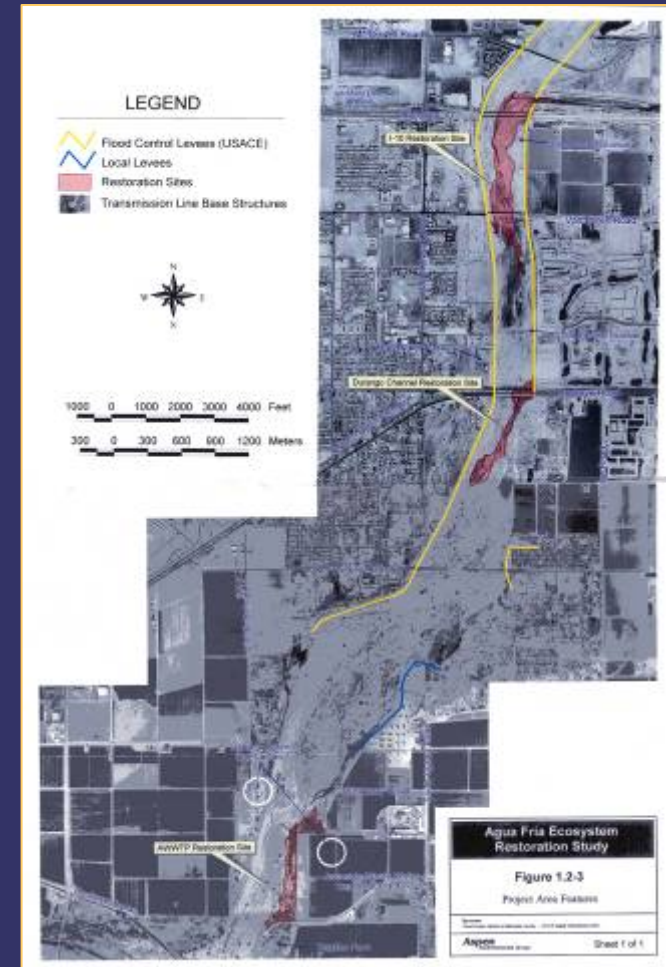
El Rio Educational R&D Project

- Salt cedar reduces flood conveyance
- Establish effective replacement methods
- Enable “scale-up” for El Rio WCMP
- Provide basis for future 404 Permit
- Avoid future costly structural “fixes”

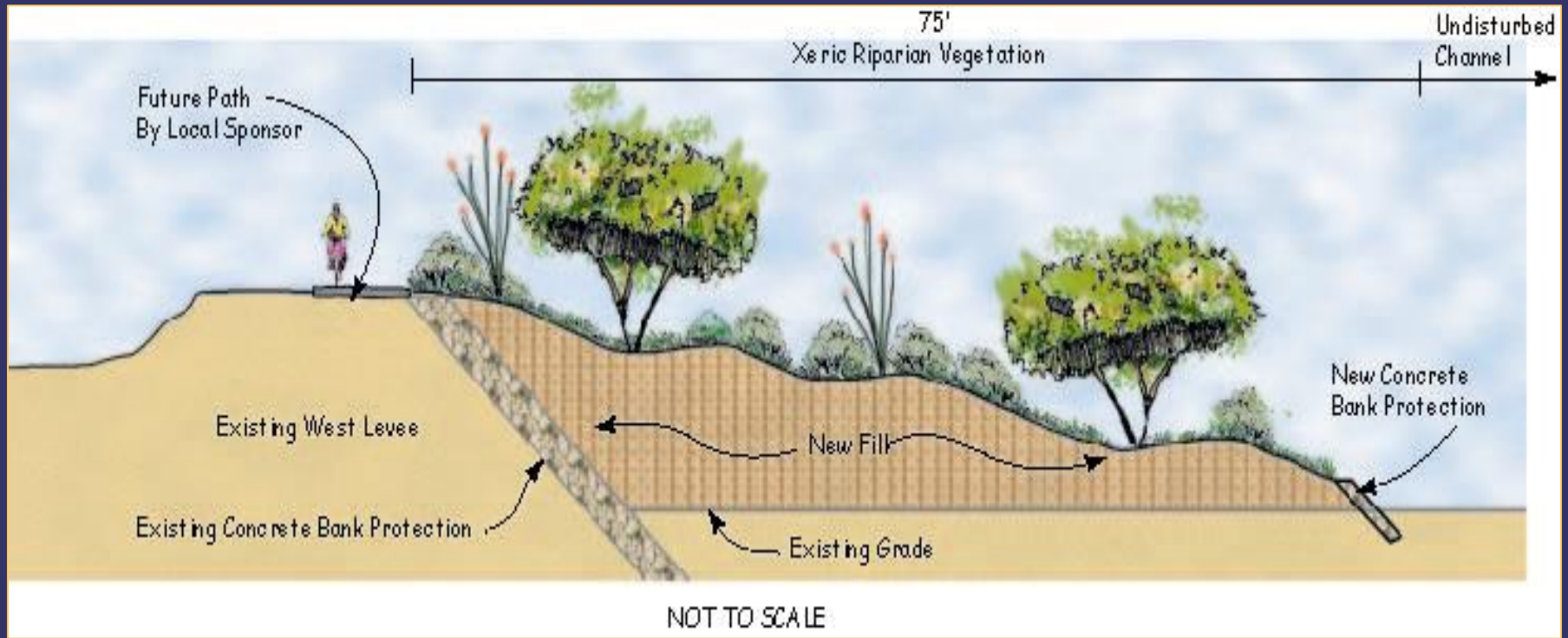


Agua Fria Ecosystem Restoration Project

- Army Corps 1135 Project
- Five Million Dollar Grant for environmental enhancement
- Avondale & District cost-share \$750,00 each
- Wetlands & recharge site at I-10 Corridor and Avondale WWTP (Southern Rd)



POSSIBLE CHANNEL ALTERNATIVE



Legislation Change

- Proposed Flood Control Bill, Senate Bill 1318, was approved by the Arizona State Senate
- Will grant the authority for Flood Control Districts in Arizona to restore and preserve the floodplains.



Questions

