All-American Canal Lining Project

Presentation To:
International Boundary and Water Commission
(Citizens Task Force)

By
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August 2007
Colorado River Basin
AACLP Project Location
AACLP – FACT SHEET

• Constructed in the 1930s by Reclamation
• New Canal will conserve (seepage control by lining 23 miles of canal) 67,700 acre feet per year. Enough water for 500,000 people.
• Approximate lined canal construction cost is $250M.
• Project being directed by the All-American Canal Coordinating Committee (IID/San Diego County Water Authority/Reclamation)
History of the All-American Canal Lining Project

• Congressional authorization of the Project was under PL 100-675, Title II signed into law by the President on November 17, 1988
• Approved the Record of Decision (ROD) on July 29, 1994
• Reclamation issued a Supplemental Information Report dated Jan 12, 2006 which determined that a supplemental EIS/EIR was not required.
• Project funding has two sources. State of California and San Diego County Water Authority.
• Quantification Settlement Agreement (QSA) and its related documents signed on October 10, 2003 with the Project a key component to reduce California’s water use to its 4.4 million acre-feet apportionment.
• Legal Challenges resolved, Project is under construction.
AACLP Project Elements

• Construct approximately 23 miles of lined canal adjacent to existing canal
• Design is complete and construction started June 2007
• Construction is expected to be completed in Spring 2010
All-American Canal Typical Section

Proposed Lined Section
1.75H:1V side slope Reaches 1 & 2
2H:1V side slope Reach 3

Existing Unlined Section
2H:1V side slope

150’
50’

24’ O&M Road
Spoils

130’ +/-
67,700 Acre-Feet per Year of Water Conserved from Lining the All-American Canal

SLR
11,500 ac-ft

SDCWA
56,200 ac-ft
All-American Canal Coordinating Committee (Voting Members)
- IID – Michael King
- SDCWA – Kenneth Steele
- Chairman – Van Tenney

IID Executive Program Manager
Todd Shields

Parsons Project Manager
Uli Kappus

Participants (Non-Voting)
- Reclamation – John English
- DWR – Chuck Keene
- San Luis Rey
- CVWD
- PVID

Design
Bookman-Edmonston
Project Manager – Wayne Dahl
- Montgomery Watson Harza
- Various Consultants
  - Canal Design
  - Dewatering
  - Sedimentation
  - Soils
  - Flow Measurement/Operations
  - Cost Estimating
  - Construction Techniques

Design Coordination
Coordinator – Walt Long
- Geotechnics, Inc.
- Hale Engineering

Construction Management
Construction Manager – Don Crumbley

Environmental Activities
Environmental Coordinator – Michel Remington, IID
- AFM Affiliates
  - Cultural Resources
- Dr. Paul Krausman
  - Large Mammal Surveys
- EcoSystems Restoration Associates
  - Wetlands Enhancement
- RECON
- Parsons
IID prepares O&M plan for All-American Canal
Project Challenges

• Project team is working diligently on a fast-track basis;
• Addressing design, construction, scheduling, and cost issues to minimize costs (construction, environmental, and operations/maintenance); and
• Optimizing the new canal facilities and the required environmental mitigation.
Environmental Program Objectives

- Compliance with Multiple Requirements
- Air Quality
- Cultural Resources
- Endangered Species
- Hazardous Materials/Solid Waste
- Recreation
- Transportation
- Vegetation
- Water Quality/Stormwater
- Wetlands
- Wildlife
Challenge of Public Access and Recreation During Construction

- Coordinating Construction and Public Use Near Work Areas
- Interagency Coordination During Peak Use Periods
- Public Information Distribution is Essential
- Interagency Recreation and Transportation Management Plan
Safety Program
Construction Issues

- No Interruption of Water Flow
- Remote Location
- Migratory Bird Nesting Constraints
- Weather (120°F)
- Limited Resources
Current Status

• Design is complete and the project started construction in June 2007
• First major concrete pour completed on August 8, 2007
• Current schedule indicates construction completion in Spring 2010
Original Construction
Construction Photos
Construction Photos
Construction Photos
Construction Photos
Construction Photos
Construction Photos
Construction Photos
Temporary Bridge at I-9 Pile Driving
Night Shift Excavating Reach 1A
Excavating Canal Facing West Reach 2
Cutting Down to Prism For Flume Slab
Thank You Questions?