

U.S. Army Corps of Engineers, Los Angeles District Prado Basin Project Updates

Host: Inland Empire Utilities Agency January 19, 2017 – 10:00 a.m.

Purpose: To provide project overviews and updates to regional stakeholders for U.S. Army Corps of Engineers (USACE) projects within the Prado Dam Flood Control Basin, and to identify opportunities to improve project coordination.

- 1. Welcome and Self-Introductions Inland Empire Utilities Agency
- 2. Overview of USACE Roles & Responsibilities within Prado Basin Eileen Takata, USACE, Watershed Program Manager
 - a. Land Ownership and Flood Risk Management
 - b. Reservoir Regulations and Dam/Levee Safety
 - c. Leased Lands and O&M
 - d. CWA Section 404 (Regulatory) and Section 408 (Engineering)
- 3. Santa Ana River Mainstem (Flood Risk Management) Project Overview Damien Lariviere, USACE, Project Manager
- **4. Prado Basin Feasibility Study Overview** Christopher Jones, USACE, Principal Biologist
- **5. Prado Dam Master Plan Update Overview** Wendy Loeffler, RECON Environmental, Project Manager
- 6. Future Coordination Opportunities, Group Discussion Eileen T.
- 7. Adjourn

U.S. ARMY CORPS OF ENGINEERS PRADO BASIN ROLES & RESPONSIBILITIES BRIEF OVERVIEW

Eileen Takata, Watershed Program Manager Los Angeles District, Corps of Engineers 19 January 2017

"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."





ROLES & RESPONSIBILITIES IN PRADO BASIN

- Flood Risk Management
 - Prado Dam Oper & Maint. (Asset Mgt/Ops)
 - Reservoir Operations (Eng/H&H)
 - Dam/Levee Safety (Eng/Geotechnical)
 - Section 408 (Eng/Design)
 - Santa Ana River Mainstem Project (Construction)
- Recreational & Other Land Use Leases (Asset Mgt)
- Environmental Stewardship
 - NEPA (Asset Mgt)
 - Section 404 (Regulatory)
 - Mitigation/Restoration (Construction/Asset Mgt/Planning)
 - Prado Basin (Ecosystem Restoration Feasibility Study (Planning)
 - Cultural Resources (Planning)
 - Restoration Proposals (Asset Mgt)



Public Involvement/Collaboration (Planning) Ingineers.



LOS ANGELES DISTRICT SANTA ANA RIVER MAINSTEM PROJECT

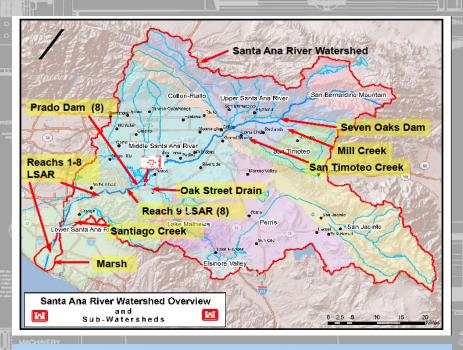
Damien Lariviere, Senior Project Manager Los Angeles District, Corps of Engineers 19 January 2017

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THE SANTA ANA RIVER MAINSTEM PROJECT









PRADO DAM RESERVOIR AND INTERIOR DIKES



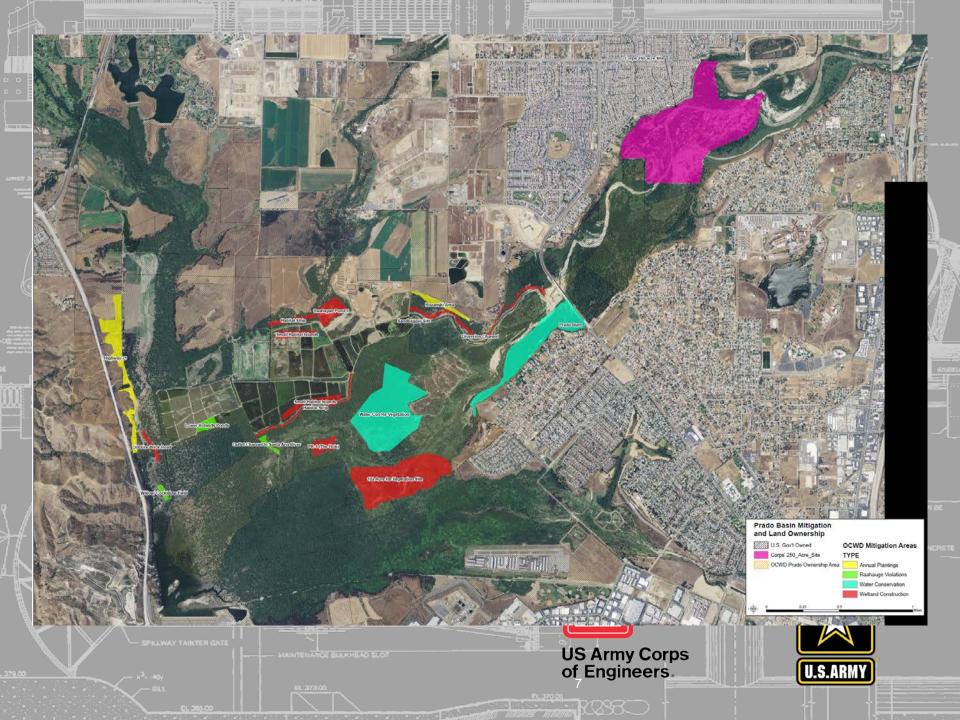
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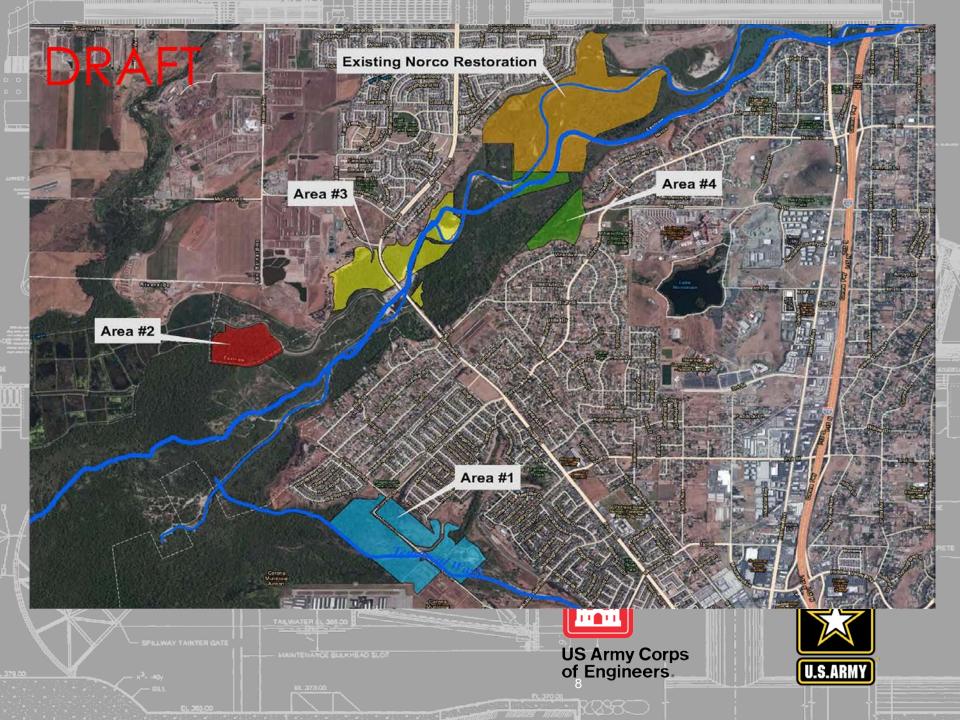
LOWER SANTA ANA RIVER - REACH 9



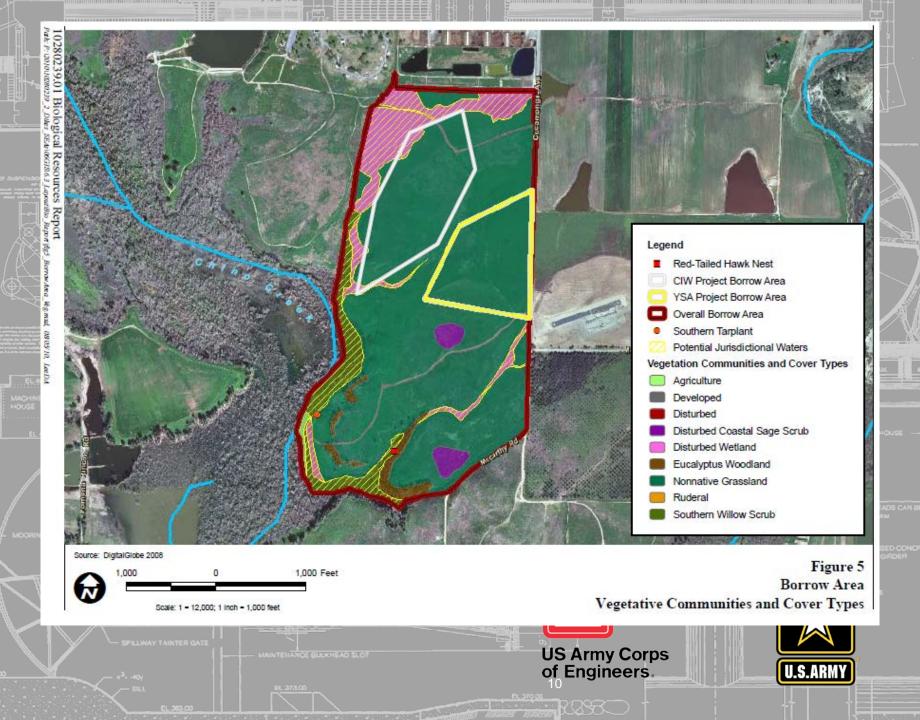














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US Army Corps of Engineers.





STUDY OVERVIEW

Dual-Purpose Study

- □ Ecosystem Restoration
 - 1. Aquatic habitat restoration
 - 2. Arundo and other non-native/invasive species removal
 - 3. Expand and improve native habitat
- Water Conservation
 - 1. Sediment removal and re-entrainment: Increase storage volume in basin, Prevent clogging of recharge areas
 - 2. Water surface elevation increase to 505 feet year-round

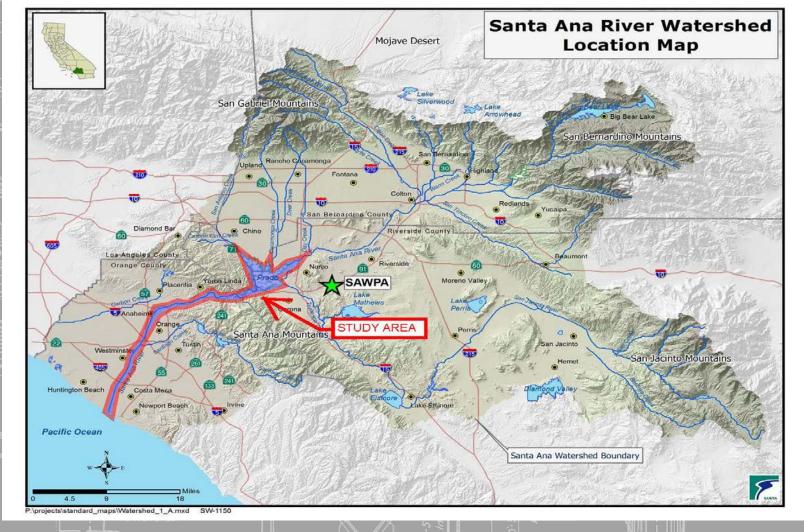
Non-Federal Sponsor: OCWD

Sponsor implementing Demonstration Project for sediment re-entrainment ahead of Feasibility study



US Army Corps of Engineers



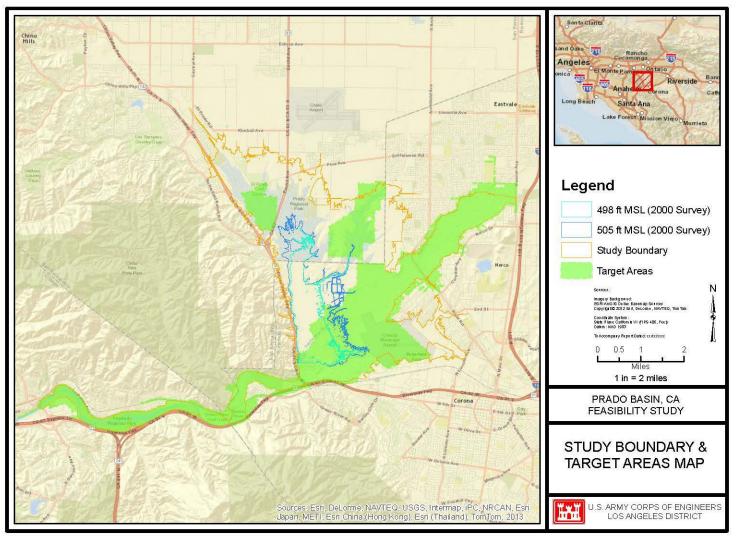


PRADO BASIN FEASIBILITY STUDY AREA

Study area includes Prado Basin and Santa Ana River Mainstem (SARM) downstream of Dam to Pacific Oceania

US Army Corps of Engineers





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STUDY UPDATE

- **□**Complete
 - Measure Formulation
 - □CHAP Analysis (Habitat Output Value Assessment)
 - □ Economics Analysis Completed
 - □ Reduced Array of Alternatives Identified
- Next Steps
 - ☐ Identify TSP (Spring 2017)
 - ☐ Draft IFR (Summer 2017)
 - Chief of Engineers' Report (Study Complete mid 2019)



US Army Corps of Engineers



PRADO DAM MASTER PLAN UPDATE



Stakeholder Meeting

Prepared by Wendy Loeffler, RECON Environmental & Megan Wong, USACE Los Angeles District

For Inland Empire Utilities Agency Stakeholders 19 January 2017

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Presentation Outline:

- Master Planning Overview and Guidance
- Prado Dam Basin History
- Master Plan Update Project History
- Review of need for update
- Overview of study area
- Review Objectives and Land Classifications
- Master Plan Update document outline
- Solicit data and input from stakeholders





Master Plans are prepared by the Corps of Engineers and govern the operations of the Corpsowned lands within the reservoirs.

The plans are periodically updated to ensure that they reflect current conditions, as well as guide the vision of the future.







ER 1130-2-550 2.2 a.(1) guides development of the plans and provides the Program Mission.

The Corps functions as the steward of the lands and waters and will:

- Manage/conserve natural resources per Natural Resources Management Mission
- Provide quality public outdoor recreation experiences
- Promote natural and cultural resources awareness, stewardship, protection, compliance and restoration
- Integrate the management of natural resources with public recreation
- Manage for long-term public access





Authorized by Congress in 1936. Construction completed in 1941. Primary authorized purpose for the Dam is:

Flood Risk Management

Secondary authorized purposes for the Basin are:

- Water Conservation
- Recreation
- Environmental Stewardship





Project Timeline

- 1976 -- Recreation Master Plan for the Prado Dam Reservoir Area
- 1990's -- Revisions begun based on input from associated watershed projects
- 2005 -- Draft Master Plan Update and EIS prepared and submitted for public review; comments received resulted in a change in direction
 - Overemphasis on Recreation
 - Unclear presentation of environmental constraints
- 2010 -- Update reinstated but halted due to lack of funding resources
- 2016 -- Master Plan Update funded





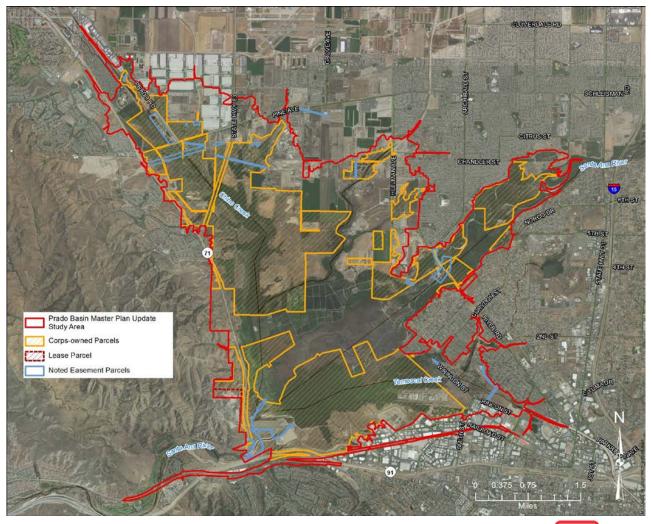
Update needed based on landscape changes since 1976:

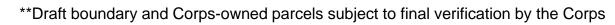
- Increase in the amount of sensitive biological resources
- Increase in visitation and variety of recreation opportunities.
- The changing profile of adjacent land uses
- Increase in development intensity
- Modifications to Dam and other areas within the basin
- Designation and restoration of lands as flood control mitigation
- Modifications to the Water Control Manual for water conservation
- Changes in recreation trail planning and implementation
- Proposed habitat restoration and expanded water conservation





PRADO DAM BASIN MASTER PLAN UPDATE DRAFT STUDY AREA

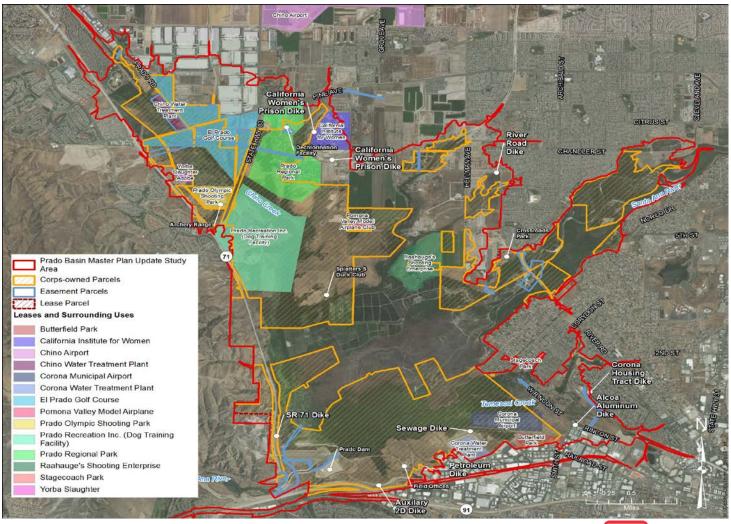








PRADO DAM BASIN MASTER PLAN UPDATE DRAFT PRIMARY LEASES AND RECREATION



^{**}Draft boundary and Corps-owned parcels subject to final verification by the Corps





Plan Update Will Address:

- Flood Risk Management
- Safety
- Recreation
- Education and Interpretation
- Environmental Quality and Character
- Community Involvement
- Water, Soil, Air Quality
- Cultural Resources
- Visual and Auditory Quality
- Global Climate Change
- Wildlife Habitat
- Native Plant Communities







Land Classifications:

Operations

• Lands used solely for operation of the dam (e.g. dam, spillway, levees, dikes, maintenance facilities, etc.)

High Density Recreation

• Lands used for intensive recreation by the public (e.g. day use areas, campgrounds, public concessions, quasi-public development)

Environmentally Sensitive

• "Areas where scientific, ecological, cultural or aesthetic features have been identified."





Land Classifications (continued):

- Multiple Resource Management: Lands with one of the following predominate uses that also allow for other compatible uses
 - Low Density Recreation
 - Passive recreational areas with minimal development
 - Wildlife Management
 - Lands designated for fish and wildlife stewardship
 - Vegetation Management
 - Lands designated for native vegetation stewardship





Land Classifications (continued):

- Multiple Resource Management
 - Inactive or Future Recreation
 - Closed recreation areas or areas with characteristics compatible with future recreation. Lands will be managed for multiple use until recreational status changes.
 - Other Uses (e.g. Agriculture, easements)





Draft Plan Document Outline:

- Project Authorization
- Project Description
- Planning Process including Community Workshops
- Land Allocations, Land Use and Resource Inventory (Existing Conditions)
- Land Classifications
- Resource Objectives
- Land Use and Resource Plan Recommendations
- Appendices





Next Steps:

- •2nd Stakeholder Meeting and Input
- Preparation of Draft Plan
- •3rd Stakeholder Meeting and Input
- Preparation of Final Draft Plan

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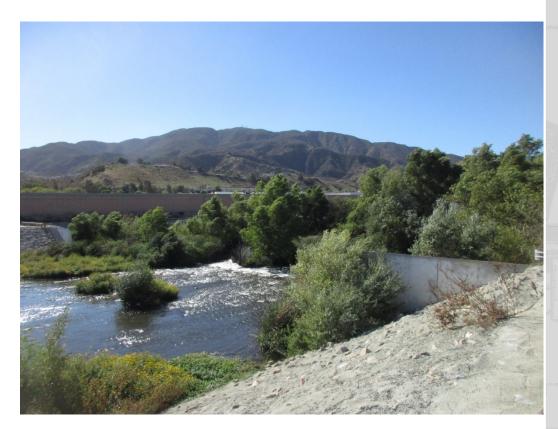






Please tell us about:

- Your recent activities
- Areas of concern
 - Safety
 - Recreation
 - Access
 - Corridors
- Proposed future activities
- Studies or data collected
- •Suggestions?







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