

# Regulate Restoration Remediation



Los Angeles District  
Environmental Summit

Mar 03

QUALITY

TEAMWORK

# Los Angeles District Environmental Summit

- LA District is embracing the Environmental Operation Principles and taking advantage of our Corporate capabilities
  - Recognize the exceptional talent that other Corps Districts, Division, Centers, and Labs have to offer
  - We want that talent on our Project Delivery Teams
  - We see a great benefit to sharing and gaining knowledge that we can offer one another
  - We want to develop a system where that knowledge can be transferred for the benefit of all versus the detriment of one or the other



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## SPL ENVIRONMENTAL CONSIDERATIONS

- Largest population growth in 6 of the top 10 US counties
- Greatest population percentage change in the US occurred in the Las Vegas Metropolitan Statistical Area
- 7 of the largest counties in US ranked by population within SPL
- Much of the development in contiguous developing suburbs near water resources
- Geographic area ranges from below sea level to over 12,000 feet, includes 6 biomes in CA and all 5 in AZ

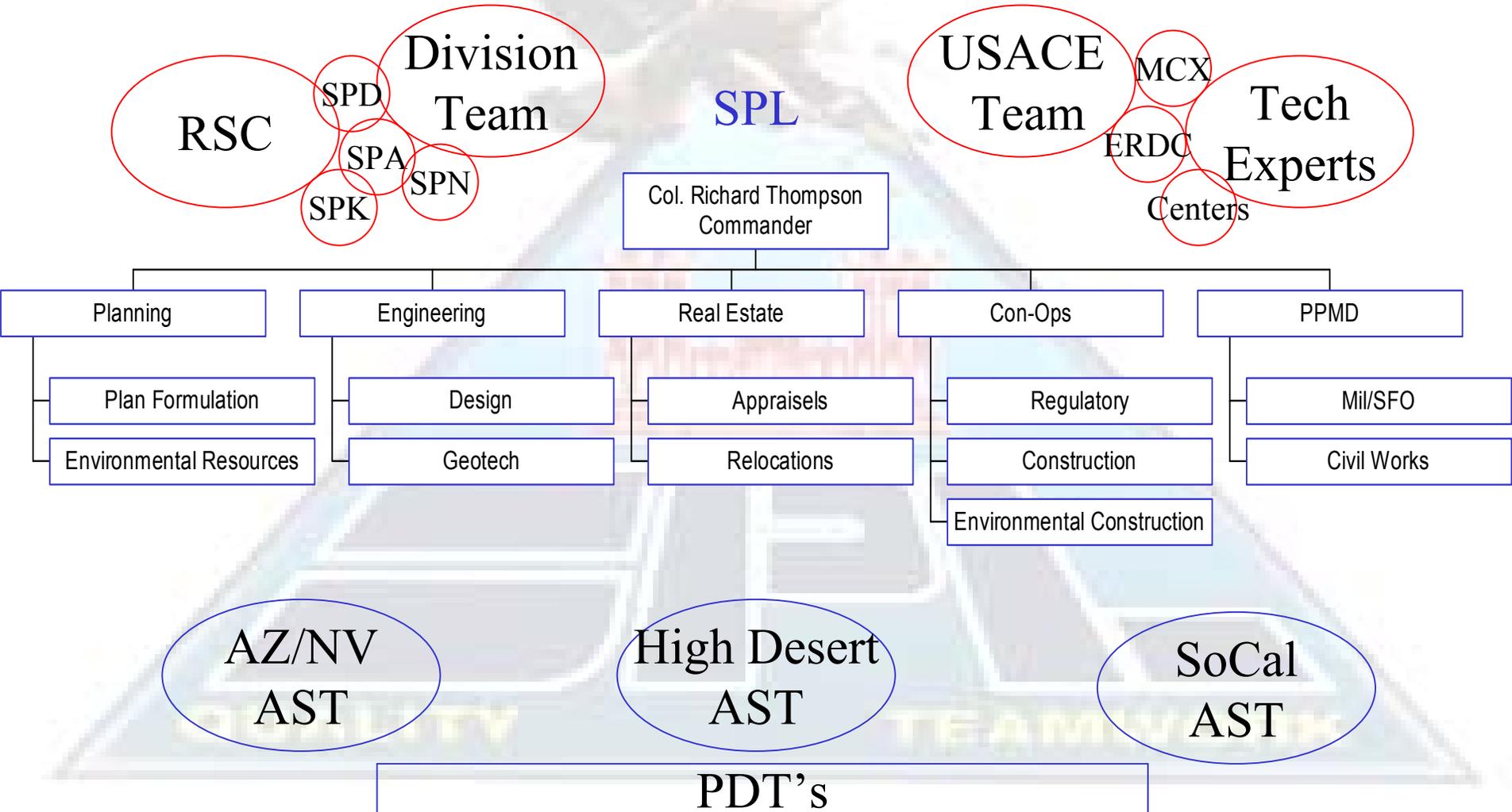


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- Biomes represented by coastal, woodlands, mountain and high/low desert
- 17% of all threatened and endangered species in SPL boundary
- Fewer than 5% of native riparian areas in existence today
- Resourcefulness/innovative approaches for multiple complex restoration projects, many unique and controversial in nature.



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- Regulatory
  - Permit apps & performance
  - Legal issues
  - Challenges
- Reclamation / Restoration
  - Eco System Restoration
  - Modeling
  - Partners in Restoration
  - Interagency Services?





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- Remediation
  - DERP (FUDS, IRP)
  - IIS (EPA, FAA, INS, DOE,...)
  - Civil Works (CG, PAS, ...)
- Other Challenges / Opportunities ahead
  - Leveraging our corporate resources
    - Within USACE
    - Within CESP
  - Perchlorate





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## Regulatory

- Permit apps & performance
- Legal issues
- **Regulatory program is NOT oriented for the single purpose of protecting environmental resources such as EPA, or FWS. Regulatory is to BALANCE environmental protection with legitimate resource uses such as development, military training, and other uses which might be detrimental to the resource.**

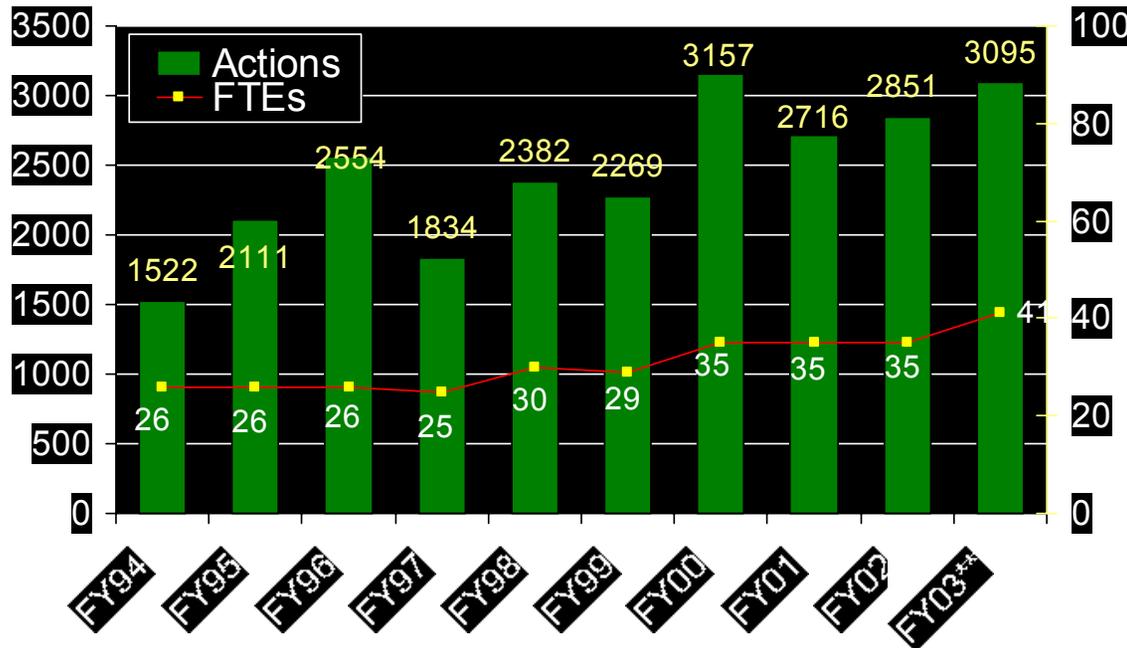




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## REGULATORY BRANCH WORKLOAD AND STAFFING

Completed Actions\* and Number of FTEs For Each Fiscal Year



\* Completed Actions Include Permits Issued, Permits Withdrawn, Permits Not Required, Permits Modified, Jurisdictional Determinations, Completed Enforcement, Compliance Inspections, Pre-Application Conferences, and Non-Compliance Resolutions.

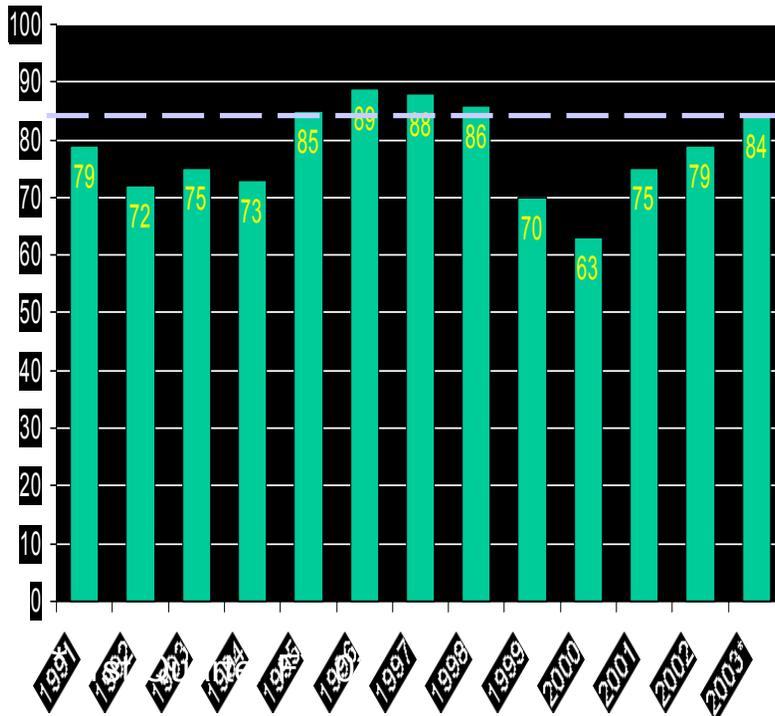
\*\* Projection of Completed Actions Based on Actual Data Through 1st Quarter FY03



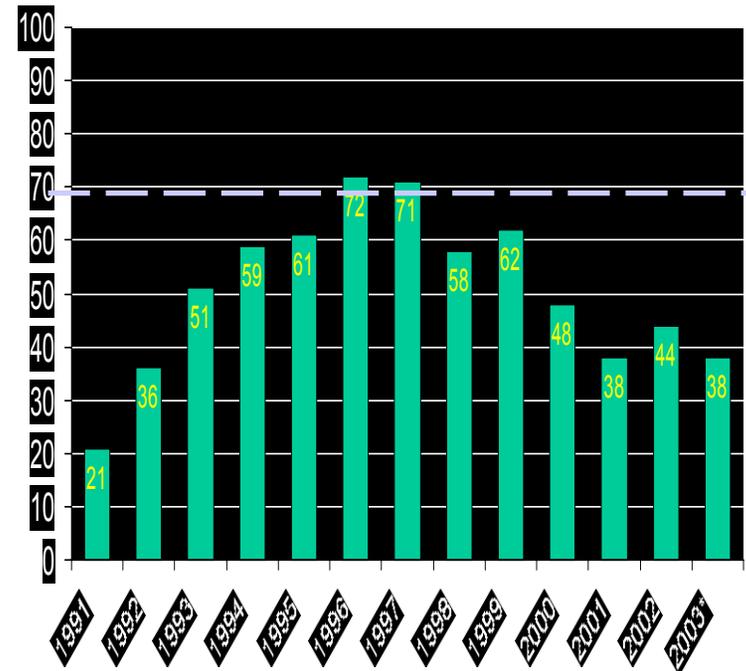
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## Regulatory Performance

% OF ALL PERMIT ACTIONS  
ISSUED IN < 60 DAYS  
(GOAL = 85%)



% OF STANDARD PERMITS  
(excludes LOPs) ISSUED IN <  
120 DAYS  
(GOAL = 70%)



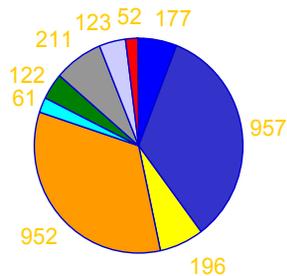


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## Regulatory

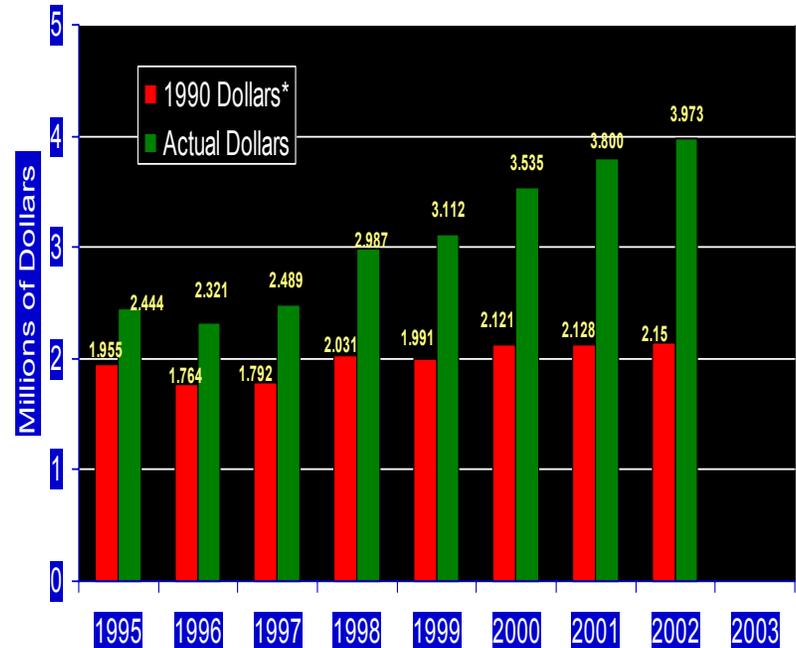
### REGULATORY BRANCH WORKLOAD

FY 2002



Total Actions = 2851

### GENERAL REGULATORY APPROPRIATIONS FUNDING



\* Assuming Average Annual Inflation Rate of 4%



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## BRANCH SUMMARY

**Problem:** Limited budget with increasing numbers and complexity of permits

**Solutions:** Increase staff size, retain senior PM's, and improve productivity.

- Increase Manpower (TEA-21 Funds, SAMPs, Co-Ops, WRDA 2000 funding sources).
- SLOPES and Programmatic Consultation for streamlining ESA
- Improve Automation (GIS and OMBIL).
- Expand Use of Digital Information to Reduce Costs and Improve Processing Time (electronic public notices, email mail lists, website improvements).



# Los Angeles District Environmental Summit Trends in Regulatory Litigation

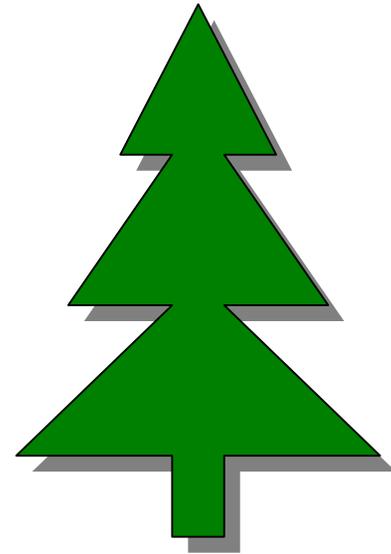
- 8 active regulatory cases
- Growth in ESA cases in SPL and nationwide
  - Heightened awareness of and use of the ESA by environmentalists trying to limit high growth in southern California and Arizona
- Focus of the NEPA litigation
  - Scope of analysis
  - Cumulative impacts
  - Seek preparation of an EIS
- Focus of the CWA litigation
  - Alternatives Analysis under 404(b)(1) Guidelines
- Post-SWANCC jurisdictional challenges
  - There has been a spike in some Districts, but has not occurred in SPL.



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## Reclamation / Restoration

- Eco System Restoration
- Partners in development
- Modeling





# GI Projects - Conference Funds for FY 03

North Las Vegas	\$500,000
 Paseo	\$650,000
Grant to Ft. Lowell	\$50,000
 Navajo Nation	\$400,000
Agua Fria	\$100,000
 Lower Las Vegas Wash Wetlands	\$300,000
Pima Co. Tres Rios del Norte	\$750,000
 Rio Salado Oeste	\$150,000
Vash ly' ay Akimel	\$850,000
 El Rio Antiguo	\$500,000

# CG Projects – Conference Funds For FY 2003

Rio de Flag	\$1 Million
 Tucson Drainage	\$2 Million
 Tres Rios	\$1 Million
 Rio Salado Phoenix	\$19 Million
Tropicana/Flamingo Washes	\$45 Million
Rural Nevada	\$3.5 Million



# ERDC – Programs of Interest

# Specific Programs of interest to SPL-PD-WC:

- ✘ System-wide Modeling, Assessment, & Restoration Technologies (SMART)
- ✘ Technologies and Operational Innovations for Urban Watershed Networks (TOWNS)
- ✘ Regional Sediment Management (RSM)



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## MATILIJA DAM ECOSYSTEM RESTORATION FEASIBILITY STUDY – WRDA 04

- LOCATION: Ventura County
- GOALS: Identify feasible solutions of decommissioning a barely functional water storage reservoir
- Remove an impassible barrier blocking upstream steelhead trout migration
- Restore sediment transport processes



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## MATILJA DAM ECOSYSTEM RESTORATION FEASIBILITY STUDY – WRDA 04 *cont.*

- Improve quality of habitat
- Considerations:
  - Maintain flood capacity downstream of dam
  - Restore fish passage
  - Arundo removal
  - Several threatened and endangered species (Steelhead trout, southwestern willow flycatcher and California red-legged frog)
  - Lessen sedimentation impacts to water quality and aquatic resources



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## SEVEN OAKS DAM

- LOCATION: Santa Ana River, 550-foot high earthen dam, gross capacity of 145,000 acre-feet at spillway crest elevation
- Flood control, retention until downstream flood threat has passed
- Potential impacts to habitat quality due to reduction in flood processes of scour and sand deposition
- Endangered Species include Woolly Star, slender-horned spineflower and the SB Kangaroo Rat.



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## SEVEN OAKS DAM *cont.*

- Acquired 700 acres of wash lands for the woolly star and incorporated endangered species management in O&M activities
- Re-seeded disturbed areas with native seed mix
- Acquired 60 acres of Santa Ana River Wash land and remove Arundo
- Acquire aquatic habitat for brown trout and upland habitat for wildlife
- Future Actions include: 1) further evaluation of impacts; 2) test and select appropriate management actions and 3) develop habitat management plan.



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Partnerships with other Federal Agencies

- Tres Rios (Urban Rivers MOU)
- Forest Service
- IBWC



# Urban Rivers MOU



# EPA/USACE Urban River Restoration Partnership

- The U.S. Environmental Protection Agency and the U.S. Army Corps of Engineers signed a Memorandum of Understanding committing to an urban river restoration partnership on 2 July 2002
- The focus of the agreement is cooperation between EPA's remediation and water quality activities and the Corps' ecosystem restoration, navigation and waterways maintenance activities
- Through these activities, address water quality, human and environmental health, habitat restoration and preservation, and public use and enjoyment of the rivers.



# What Does the MOU Apply to?

- Urban areas are defined by census officials as having a human population of 100,000 or more.
- The pilot projects may include, but not be limited to, projects for water quality improvement, contaminated sediment removal and remediation and riparian habitat restoration.
- The efforts of this partnership should be of interest to urban communities facing water quality, wastewater management and other quality of life issues, and nongovernmental environmental groups specializing in protection of American rivers.



# Issues and Opportunities

- The MOU calls for 8 demonstration pilot projects to be announced and undertaken during the next 12 months.
- Offers a forum for modifications to Corps policy – changing an obstacle to an opportunity
- The Corps will have no additional Civil Works funds for this effort so it must rely on ongoing Civil Works activities – serendipitous opportunities
- Closed sanitary landfill within the **Tres Rios project in Phoenix** is one of the proposed demonstration projects.
- The Ballona Creek Watershed has also been discussed, as well as the Los Angeles and Russian Rivers.
- Liability may be an issue with non-Federal sponsors
- Opportunity to strengthen relationships through collaboration



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## Tres Rios

- More to follow in later in the conference

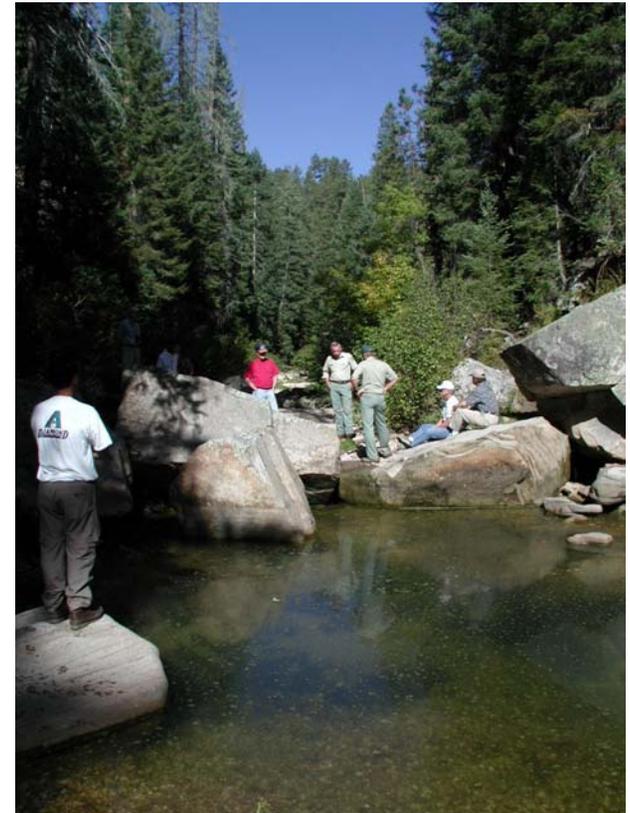




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## Interagency Services Eco System Restoration

- Forest Service
  - Fish Barriers





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## **U.S. INTERNATIONAL BOUNDARY AND WATER COMMISSION – WORK FOR OTHERS**

- **LOCATION: ARIZONA/MEXICO INTERNATIONAL BOUNDARY  
ALONG THE LOWER COLORADO RIVER**
- **PROJECT GOALS:**
  - **Prepare Environmental Documentation - ERB**
  - **Boundary Preservation and carrying capacity of the Lower Colorado River**
  - **Flood Control**
  - **Water Deliveries to Mexico**



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## U.S. INTERNATIONAL BOUNDARY AND WATER COMMISSION – WORK FOR OTHERS *cont.*

- **PROJECT NEEDS**

- **Realign Colorado River to 1973 International Boundary Location**
- **Provide for 140,000 cfs flood capacity**
- **Accommodate flows of 12,000 cfs in pilot channel**

- **ENVIRONMENTAL CONSIDERATIONS**

- **Endangered Species: Yuma Clapper Rail and Southwestern Willow Flycatcher**
- **International Treaty and Clean Water Act**



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## Remediation

- NALEMP
- DERP (FUDS, IRP)
- Interagency (EPA, FAA, INS, DOE,...)
- Civil Works (CG, PAS, ...)



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## NALEMP

- FY 02 \$257,000
- FY 03 \$159,000



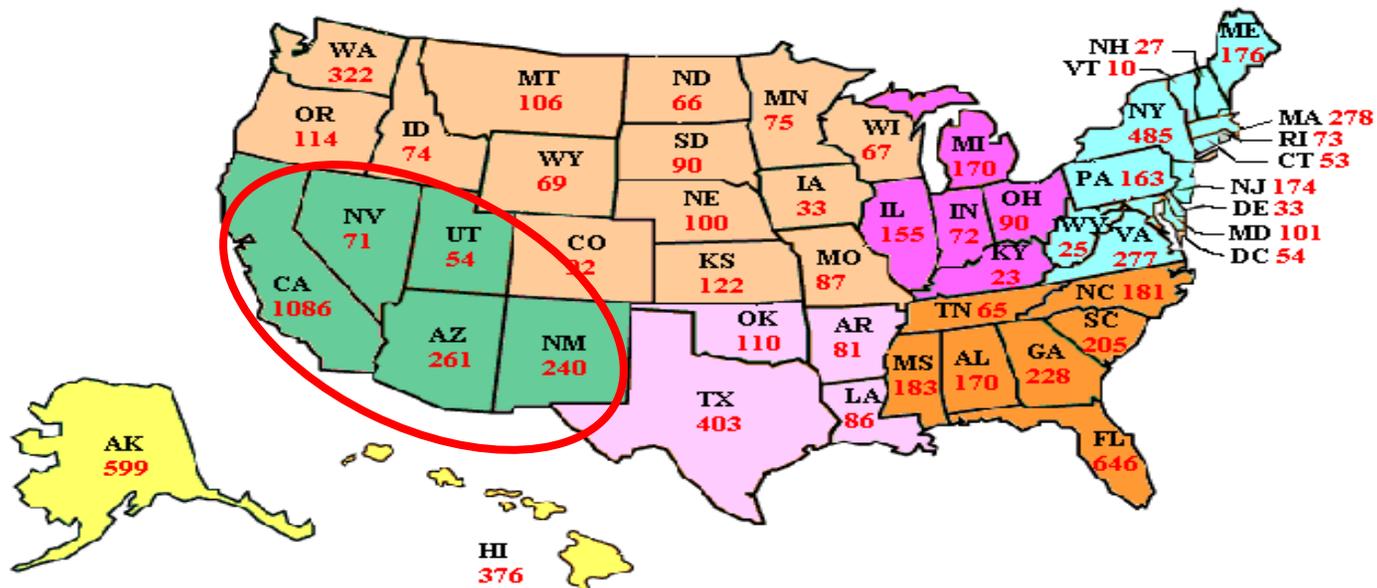
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# FUDS

Formerly  
Used  
Defense  
Sites



# Total FUDS Properties In Inventory By State



## Military Divisions

- Great Lakes and Ohio River
- North Atlantic
- Northwestern
- Pacific Ocean
- South Atlantic
- South Pacific
- Southwestern

- Northern Mariana Islands (CN) **CN 32**
- Palau (PT) **PT 13**
- Puerto Rico (PR) **PR 78**
- U.S. Virgin Islands (VI) **VI 10**
- American Samoa (AS) **AS 29**
- Guam (GM) **GM 47**

Total Number of Properties: 9171

**NOTE:** Approximate numbers based on 11/07/00 database download. Subject to change.



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## CESPL FUDS

- FY 03 program = \$ 5,345,600
  - BD/DR \$ 361,000
  - CON/HTRW \$1,553,600
  - HTRW \$ 502,500
  - OEW \$2,148,500
  - OEW/CWM \$ 260,000
  - PA/INPR \$ 470,000
  - PRP/HTRW \$ 50,000

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## OE COST TO COMPLETE



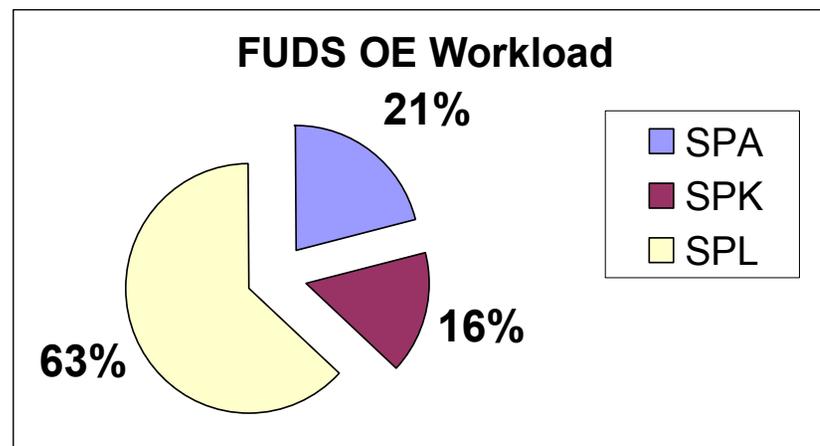
- Nationwide
  - \$ 12.0 B
- SPA
  - \$ 0.403 Billion
- SPK
  - \$ 1.408 Billion
- SPL
  - \$ 3.351 Billion
- SPD
  - \$ 5.2 B



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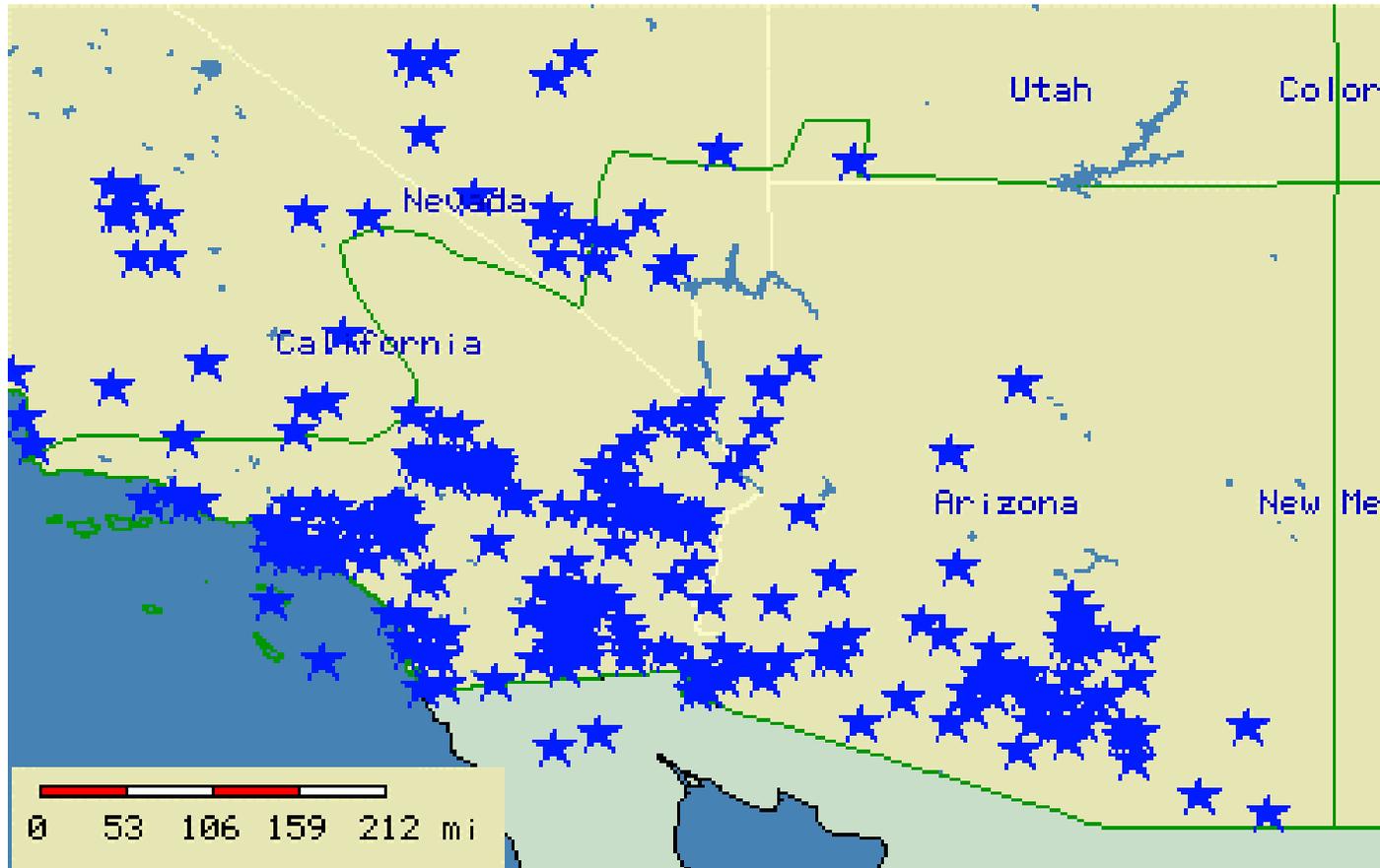
## FUDS OE Program

	<b># Projects</b>
<b>SPA</b>	<b>119</b>
<b>SPK</b>	<b>90</b>
<b>SPL</b>	<b>356</b>
<b>Total</b>	<b>565</b>





# Los Angeles District Environmental Summit CESPL FUDS



- USACE Districts
- ★ Property With OE/W Projects

**FUDS OE in LA District  
Boundary**



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Ft Irwin Range Maintenance

&

Target Removals

FY 03

- RANGE DEDUDDING \$2,941,000
- RANGE CLEARANCE TARGETS \$18,000







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## Ft Irwin Range Maintenance & Target Removals





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- RIALTO RIVERSIDE, CA
  - FUDS SITE THAT CONTAINS CONTAMINATION WHICH IS NOT DETERMINED TO BE FROM DOD
- NIKE 14 Launcher Area
  - IDENTIFICATION OF EMERGENT CHEMICALS
  - REGULATORY DIRECTIVE
- PYRITE CANYON
  - NEXT TO SUPERFUND SITE WITH KNOWN PERCHLORATE CONTAMINATION
  - NO REGULATORY DRIVER
- SANTA CLARITA, CA
  - \$7,000,000 AUTHORIZED
  - WRDA 2002 SUPPLIED FEDERAL FUNDS THROUGH USACE TO HELP DETERMINE A LONG-TERM SOLUTION TO THE GROUNDWATER CONTAMINATION



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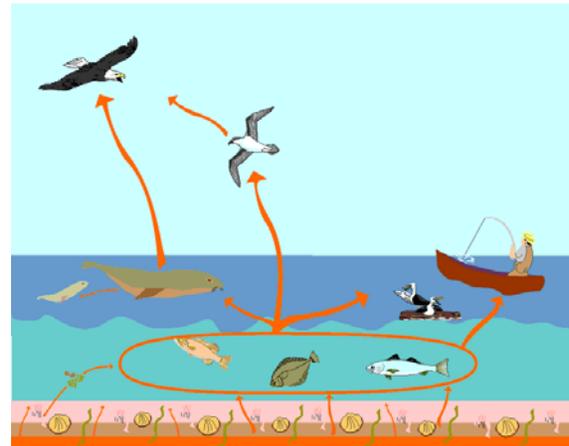
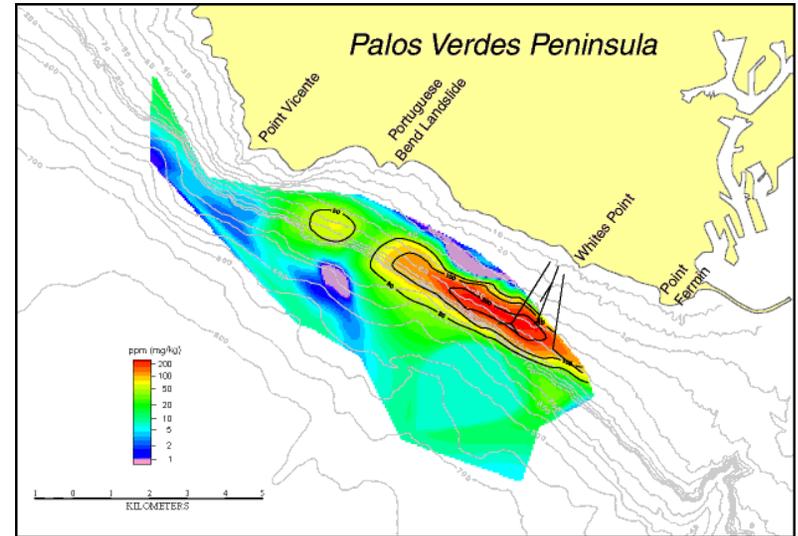
## **EPA Superfund**

- 16 remedial sites, including:
  - Palos Verde Shelf
  - Navajo Abandoned Uranium Mines
  - Stringfellow
  - OII
  - Charnock MtBE
  - Montrose



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- Palos Verdes Shelf  
Pilot In Situ Cap Study



**Primary COC is  
DDT**

**Secondary COC is  
PCB**

**DDT/PCB**

**enter food  
chain via**

**bottom-feeding fish**

Located off the Coast of LA County, at the  
Palos Verdes Shelf w/  
Water Depths 40-100m



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- Palos Verdes Shelf  
Pilot In Situ Cap Study
- (Continued)

**Primary Objective of Study was to evaluate short-term effects of  
In Situ Cap:**

- Variability of Cap Materials
- Bottom Slope
- Water Depths
- Placement Methods to minimize displacement and/or  
resuspension of DDT/PCB contaminated sediments

*Note: Use of  
Existing NATCO  
Contract saved  
EPA over \$3.5M.  
(JAM)*





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## Montrose Neighborhood Removal Action along Kenwood Avenue



**DDT-contaminated soils  
Were discovered in many  
Residential properties in  
Los Angeles County, CA**



**Under Time-Critical  
Authority, EPA and COE is  
Performing an Emergency  
Removal Action at 22  
residences.**



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## CURRENT PROGRAM BUDGET AND 5-YEAR TREND

Program	Current Budget	5-Year Trend
USEPA Region IX Superfund	\$5,000,000.00	\$5,000,000.00
USEPA Region IX RCRA	\$300,000.00	\$300,000.00
USEPA Region IX Clean Water Grants Oversight	\$80,000.00	\$114,000.00
USEPA Office of Radiation & Indoor Air	\$10,000.00	\$0.00
Western Region RAMS	\$350,000.00	\$1,000,000.00
HUD Grants Oversight	\$48,000.00	\$48,000.00
FUDS	\$3,200,000.00	\$11M-\$18.5M
Military and Work for Others	\$5,100,000.00	\$5,100,000.00
<b>TOTALS</b>	<b>\$14,988,000.00</b>	<b>\$22,562,000.00</b>

Notes:

1. All figures are approximate.
2. Current budget is thru 3<sup>rd</sup> quarter of FY 2002.
3. 5-year trend represents projected costs per year for the next 5 years.



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## CURRENT PROGRAM BUDGET AND 5-YEAR TREND

Program	Current Budget	5-Year Trend
USEPA Region IX Superfund	\$2,930,000.00	\$14,170,000.00
USEPA Region IX Clean Water Grants & STAG	\$200,000.00	\$1,000,000.00
Western Region RAMS	\$275,000.00	\$0.00
HUD Grants Oversight	\$48,000.00	\$225,000.00
FUDS	\$5,000,000.00	\$40,000,000.00
Military and Work for Others	\$6,000,000.00	\$30,000,000.00
<b>TOTALS</b>	<b>\$14,453,000.00</b>	<b>\$85,395,000.00</b>

### Notes:

1. All figures are approximate.
2. Current budget is thru 2nd quarter of FY 2003.
3. 5-year trend represents projected costs for the next 5 years.



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## Other Interagency Services

- FAA
- INS
- Forest Service
- DOE
  - FY 03 \$290,000 ELK HILLS
  - POSSIBLE NEW PROJECT
- Park Service?
- BLM?



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## Civil Works

- Civil Works
  - Santa Clarita
  - Dredging
  - RAMS
- Operations and Maintenance
  - Dredging
- Planning Assistance to the States



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## **WATTS PROOF OF PRINCIPLE and DEEP ATTACK – MILITARY**

- Roving Sands series of Joint Exercises
- Southwestern United States, multiple bases
- Completing Environmental Documentation
- Recent developments with the Pronghorn



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- Challenges and Opportunities
  - Leveraging our corporate resources
    - Within CESPDC
      - Range Support Center
      - HTRW capability in CESPDC & CESPAC
    - Within USACE
      - ERDC
      - HNC
      - Seattle District
      - New England District
      - Omaha District
      - Others?



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## PERCHLORATE