

# Greater Los Angeles County Integrated Regional Water Management Strategic Plan (IRWMP)

Countywide Stakeholder Workshop  
February 1, 2006



# Greater Los Angeles County Integrated Regional Water Management Strategic Plan (IRWMP)



**Don Wolfe – Chief Engineer, Los Angeles County Flood Control District, and Chair, Leadership Committee for the Los Angeles Regional Integrated Water Management Plan**





# Integrated Regional Water Management Strategic Plan (IRWMP)

## *Draft Mission Statement:*

*"The mission of the LA IRWMP is to create a watershed based plan with a regional approach that addresses and integrates water supply, water quality, habitat and recreation objectives, develops a comprehensive set of projects, and serve as a basis to attract state Prop. 50 funding and support a local voter-approved funding mechanism, while attracting additional state and federal funding partners in future years."*



**Joe Grindstaff – California State  
Department of Water Resources**

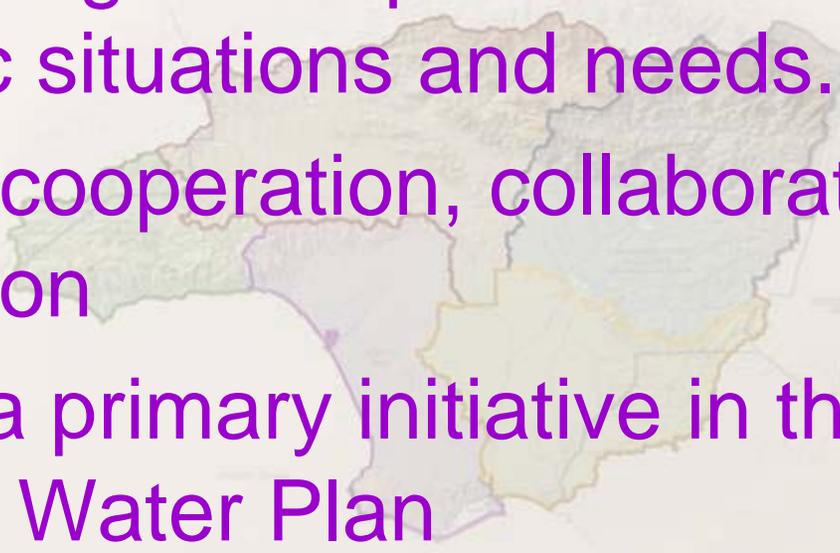


***State Perspective***

# Integrated Regional Water Management –Why

- Diversity of water management issues across the State
  - Individual local efforts may not take advantage of neighboring entity efforts.
  - Regional management groups entities with like water issues together to leverage creativity, diversity, and economy to water management.
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# Integrated Regional Water Management –Why

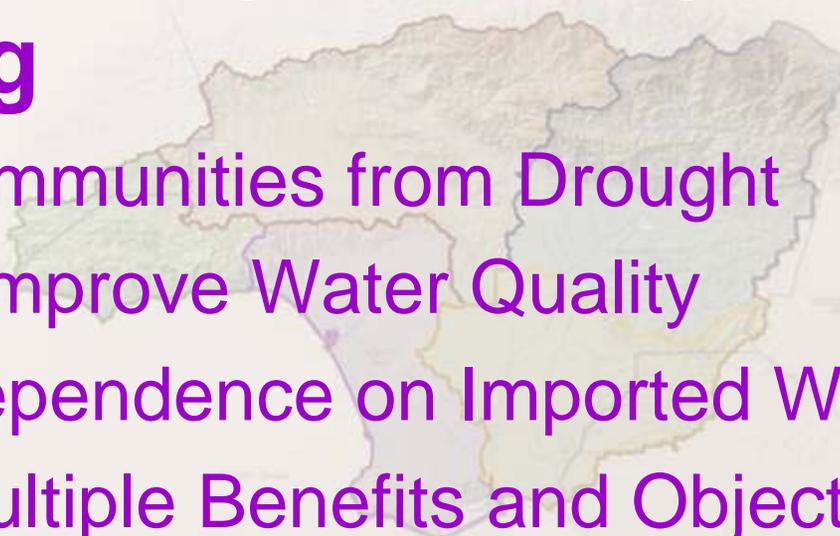
- Helps regions to uniquely diversify their water management portfolios in response to specific situations and needs.
  - Requires cooperation, collaboration, and participation
  - IRWM is a primary initiative in the California Water Plan
- 

# Integrated Regional Water Management – State's Role

- Provide Leadership, Guidance
- Provide Assistance



# Prop 50 - Current IRWM Program Objectives

- **Promote Integrated Regional Planning**
  - Protect Communities from Drought
  - Protect & Improve Water Quality
  - Reduce Dependence on Imported Water
  - Achieve Multiple Benefits and Objectives
- 

## Current Program Funding (Prop 50)

- Approx. \$380 million available for IRWM grants
  - 1<sup>st</sup> Funding Cycle – Approximately \$165 million
    - Planning Grants - \$15 million
    - Implementation Grants - \$150 million
  - 2<sup>nd</sup> Funding Cycle – Approximately \$215 million
  - 40/40 Southern CA – Northern CA split
- 

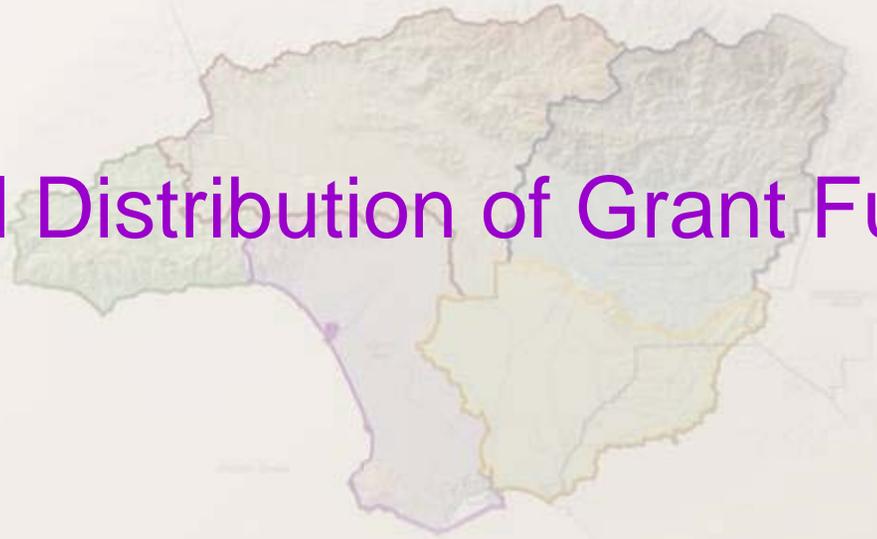
## Current Greater LA Region Grant Award

- Combined Award of 1.5 Million to produce an Integrated Regional Water Management Plan for the Region.



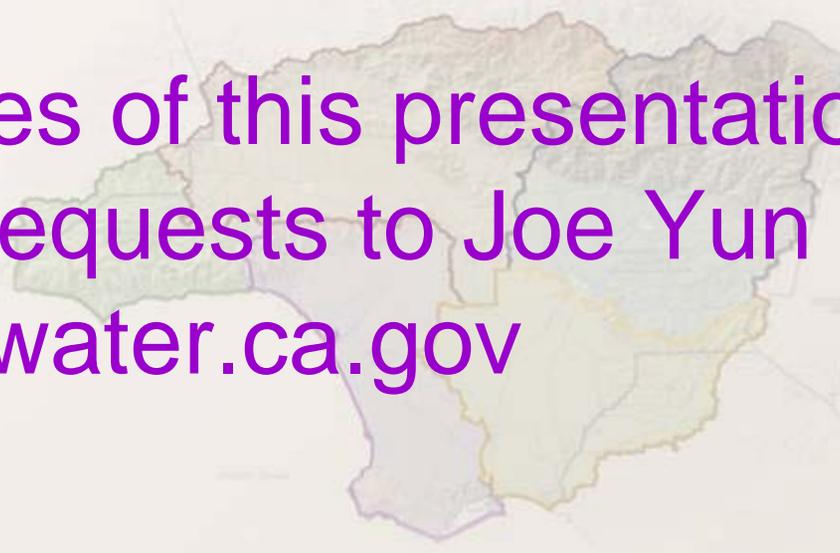
# Integrated Regional Water Management – Looking Forward

- Current Bond Initiatives
- Regional Distribution of Grant Funds

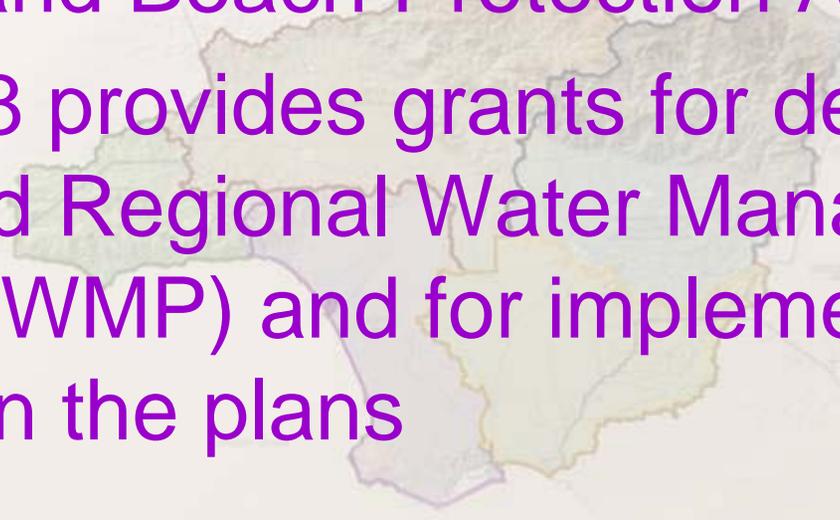


# Integrated Regional Water Management – Looking Forward

For copies of this presentation please  
email requests to Joe Yun at  
[jyun@water.ca.gov](mailto:jyun@water.ca.gov)



# What is the IRWMP?

- Proposition 50 (approx \$3.5 billion bond): the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002
  - Chapter 8 provides grants for developing Integrated Regional Water Management Plans (IRWMP) and for implementing the projects in the plans
- 

## Proposition 50, Chapter 8

- Objectives: To protect communities from drought, protect and improve water quality, and improve local water security by reducing dependency on imported water.
  - \$12 million total for preparing IRWMPs....  
\$500,000 max. per planning grant
  - \$368 million total for projects...  
\$50 million max. grant per region
- 

**Dan Sulzer – Acting Chief of Planning, US  
Army Corps of Engineers, Los Angeles District**

***Federal Perspective***





**US Army Corps of Engineers**  
Los Angeles District



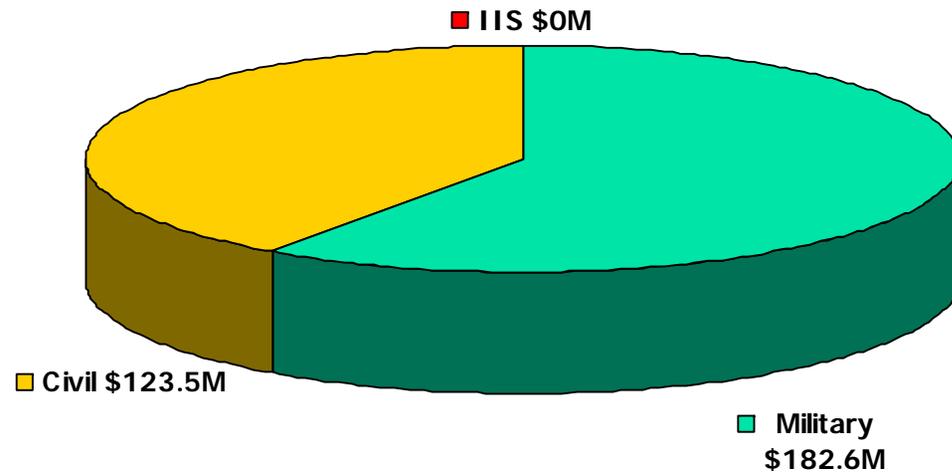
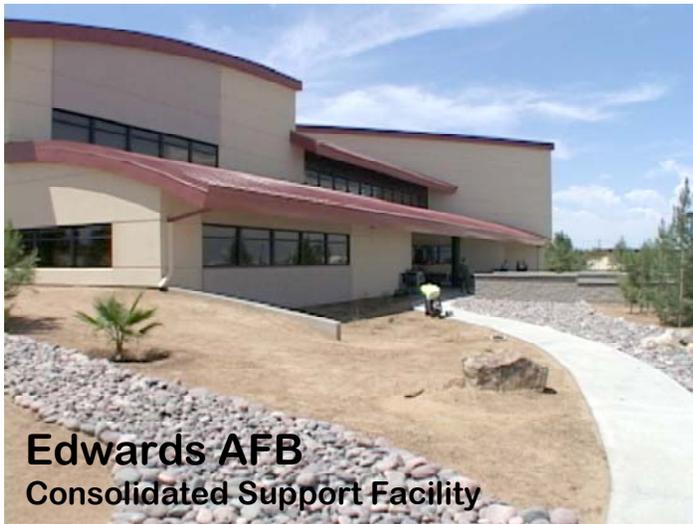
# Los Angeles District Area



# FY 05 District Program - Allocated



**\$306 M Total**



**US Army Corps of Engineers**  
Los Angeles District



## SPL's Economic Significance

### Population

- The District serves nearly 30 million people (1 in 10 Americans). It is expected that by 2020 the District will serve an additional 7-10 million.
- Between 2000 and 2002 the District had the Nation's top nine fastest growing cities with populations over 100,000 (3 in AZ, 2 in NV, 4 in CA).
- The District has three of the seven most populous cities in the Nation (Los Angeles, Phoenix, and San Diego).
- The District's population is growing by over .5 million people per year, which accounts for nearly one-fifth of the total population growth in the US.



## SPL's Economic Significance

### Economy

- Within the District boundary alone exists what would be the world's 8<sup>th</sup> largest economy –greater than the economy of Canada or Spain.
- If considered a country, California's economy would be the world's 6<sup>th</sup> largest.
- Southern California ports are responsible for 40% of the Nation's maritime trade, by volume.
- The Los Angeles metropolitan area is the largest manufacturing center in the Nation in terms of employment.
- The Los Angeles Customs District is the Nation's most valuable: Nearly \$300B in goods currently move through the region annually.
- The Ports of Los Angeles and Long Beach ranked 1<sup>st</sup> and 3<sup>rd</sup> in the Nation, respectively, in the value of goods traded in 2003.

# USACE MISSION

- DEEP DRAFT NAVIGATION
- FLOOD CONTROL
- ENVIRONMENTAL RESTORATION





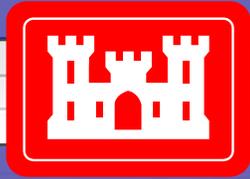
# Ecosystem Restoration Studies

## Feasibility

- Matilija Dam, CA
- SAR, Big Bear Lake, CA
- Malibu Creek, Rindge Dam, CA
- Morro Bay Estuary, CA
- Tres Rios del Norte, Santa Cruz R, AZ
- El Rio Antiguo, Rillito River, AZ
- Rio Salado Oeste, Salt River, AZ
- San Elijo Lagoon, CA
- El Medio, Santa Cruz River, AZ
- Paseo de las Iglesias, Santa Cruz R, AZ
- Rillito River, El Rio Antiguo, AZ
- Va Shly' ay Akimel, Salt River, AZ

## Reconnaissance

- Aqua Fria River, AZ
- Aqua Fria Tribly Wash, AZ
- Canada Del Oro Wash, AZ
- Gila River & Tribs, Tonto Ck, AZ
- LACDA Cornfields, CA
- L.A. River Headworks, CA
- L.A. River, San Jose Creek, CA
- Prado Basin Restoration, CA
- Lake Elsnore Restoration, CA
- San Jacinto Restoration, CA
- Ballona Creek Restoration, CA
- Serrano Creek, CA
- Tujunga Wash, CA
- Tijuana River, CA



# Los Angeles District



## RIO SALADO, SALT RIVER, AZ

TYPE: Construction General – Environmental Restoration

LOCATION: City of Phoenix between I-10 and 19<sup>th</sup> Avenue. City of Tempe along 1.3 miles of Indian Bend Wash and portions of the Salt River both upstream and downstream of Tempe Town Lake.

AUTHORIZATION: Water Resources Development Act of 1999

NON-FEDERAL SPONSOR: Cities of Phoenix and Tempe.

# Rio Salado

## RIO SALADO

- Phoenix
- Tempe
- Tempe Town Lake



19th Ave

7th Ave

Central Ave

7th St

16th St

24th St

32nd St

44th St

48th St

I-10

Priest

Mill

Rural

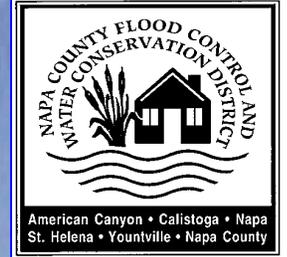
McKintock

# Tempe Town Lake After Construction





US Army Corps  
of Engineers ®  
Sacramento District



# Napa River Flood Protection Project

# Debra Man – Metropolitan Water District of Southern California

*Regional Perspective*



# Belinda Faustinos – San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy

*History of LA IRWMP*



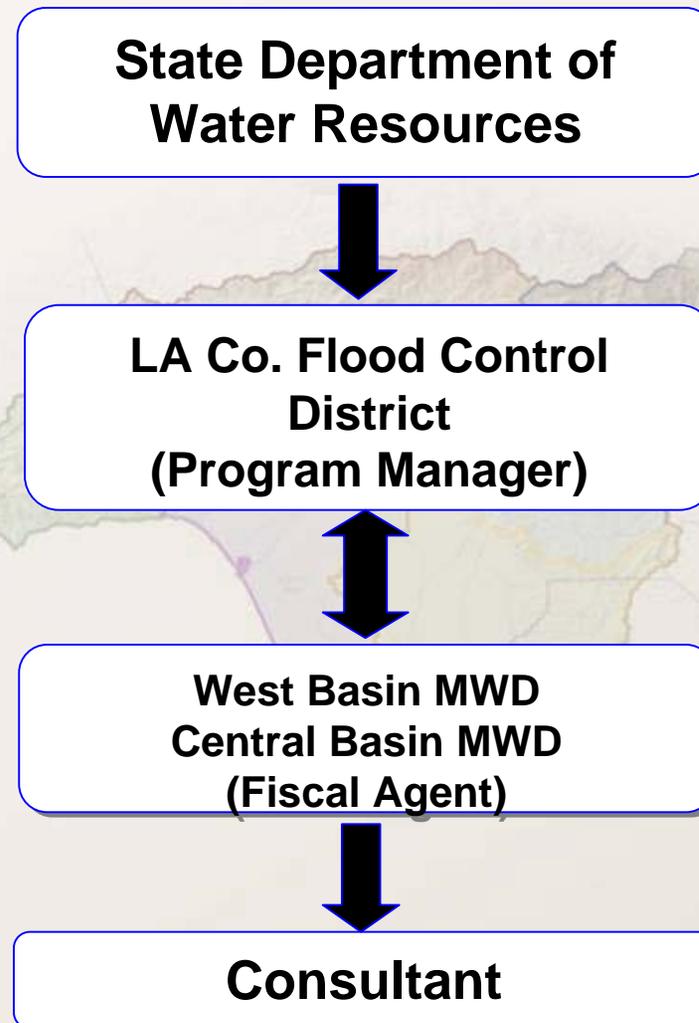
# IRWMP Status

- Six planning grant applications were prepared for the greater LA County area.
  - Lead agencies:
    - City of Los Angeles
    - West Basin Municipal Water District
    - Santa Monica Bay Restoration Authority
    - Watershed Conservation Authority
    - City of Downey
    - San Gabriel Valley Municipal Water District.
- 

# IRWMP Status

- Only the Watershed Conservation Authority's (WCA) proposal was eligible for a planning grant.
- Extensive campaigning by many organizations and individuals resulted in...
  - State increasing the planning grant dollars from approx. \$12 million to \$15 million.
  - City of LA's and Santa Monica Bay Restoration Authority's proposals now eligible for a grant.
  - State DWR will award a \$1.5 million grant to the three eligible regions with the condition that a **single IRWMP** be prepared for all regions.
  - The combined regions are eligible to receive a maximum of \$50 million in implementation grants.

# Project and Fiscal Management



# Greater Los Angeles County Integrated Regional Water Management Strategic Plan



# Benefits of Regional IRWMP

- Current model...
  - Organizations operate in silos with usually single purpose visions, concepts and solutions
  - Projects that are constructed to serve a single purpose
  - Funding is also single purpose focused and very limited
  - Seeking outside funding is a highly competitive and expensive process
    - Outside funds are usually good for capital but not for O&M
    - Funding source usually dictates how funds are to be spent – loss of local control
  - Little encouragement for cooperation... ineffective use of resources

# Benefits of Regional IRWMP

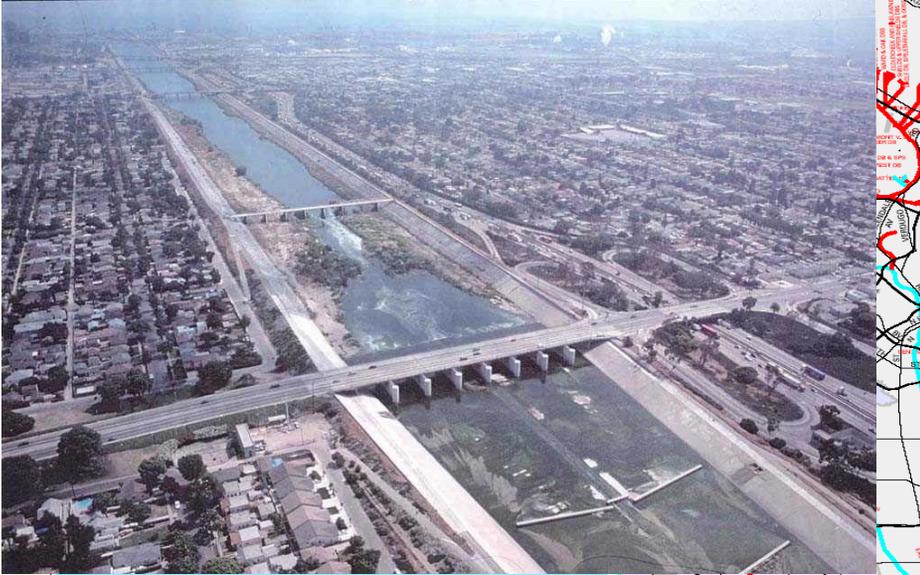
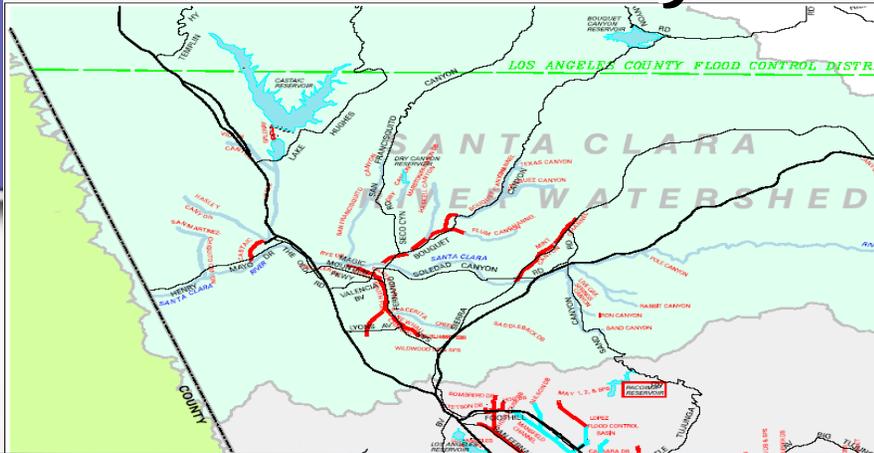
- A better model...
    - Organizations breakout of their silos to work cooperatively to address common problems
    - Cooperation can result in multipurpose solutions
    - Solutions can be integrated to address regional instead of single purpose objectives
    - Cooperation and integration results in more effective use of available resources
    - Results: More cooperation and less competition
- ***Future funding will rely on this model!***

**Mark Pestrella – Los Angeles County  
Department of Public Works**

***Goals and Regional Project Concepts***



# L.A. County Flood Control District

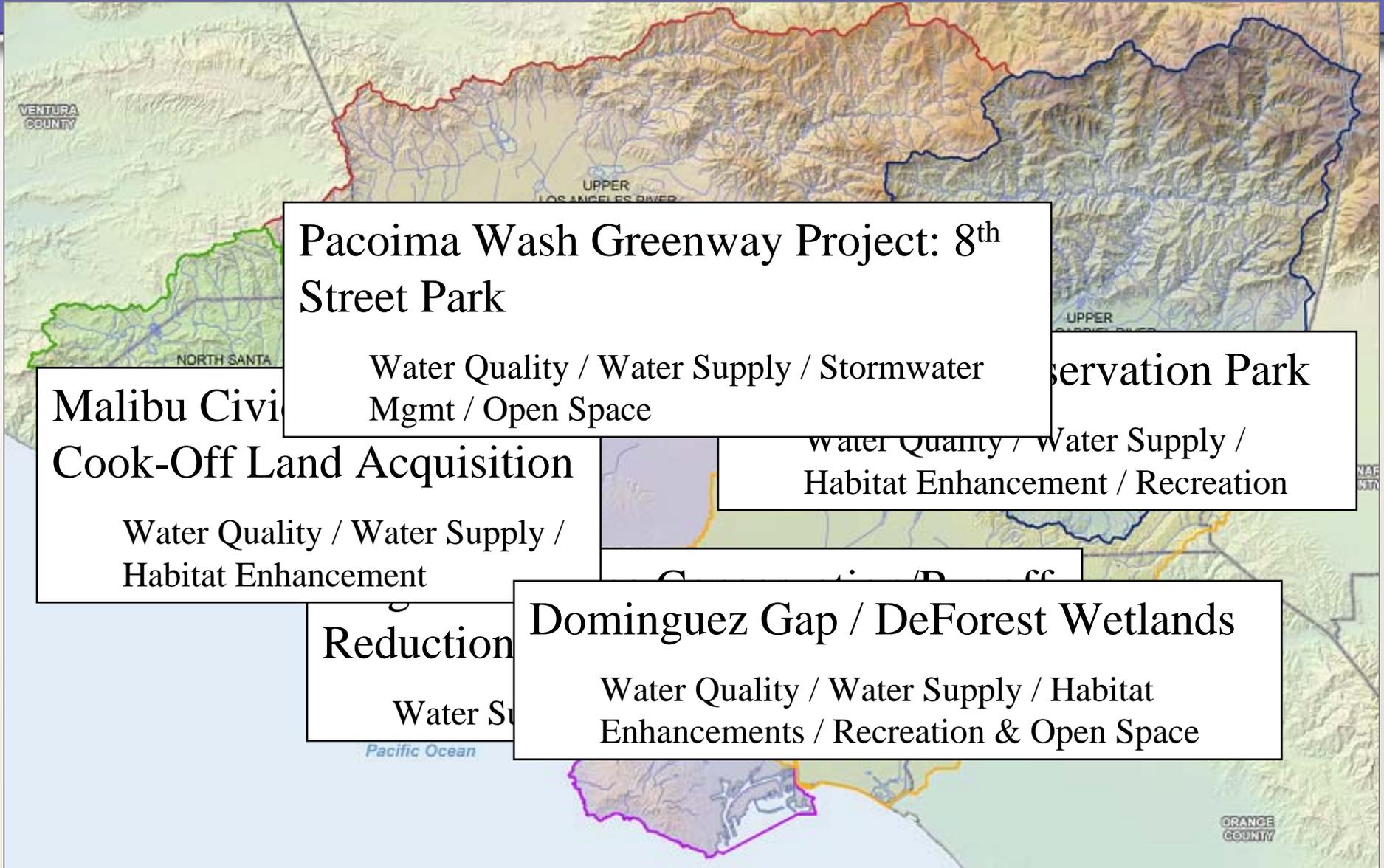


## IRWMP Effort – Why is the FCD Involved?

- Expands our integrated approach to the entire region
- Provides a platform for funding
- Working collaboratively to better meet each other's needs
- Maximize opportunities
  - Stormwater Capture and Management
  - Groundwater Recharge
  - Water Quality Improvements
  - Multiuse Facilities (Habitat Enhancement & Passive Recreation)

...Results in Efficient Water Resource Management  
for our Entire Region

# Project Examples



**Pacoima Wash Greenway Project: 8<sup>th</sup> Street Park**

Water Quality / Water Supply / Stormwater Mgmt / Open Space

**ervation Park**

Water Quality / Water Supply / Habitat Enhancement / Recreation

**Malibu Civic Cook-Off Land Acquisition**

Water Quality / Water Supply / Habitat Enhancement

**Dominguez Gap / DeForest Wetlands**

Water Quality / Water Supply / Habitat Enhancements / Recreation & Open Space

**Reduction**

Water S...

Pacific Ocean

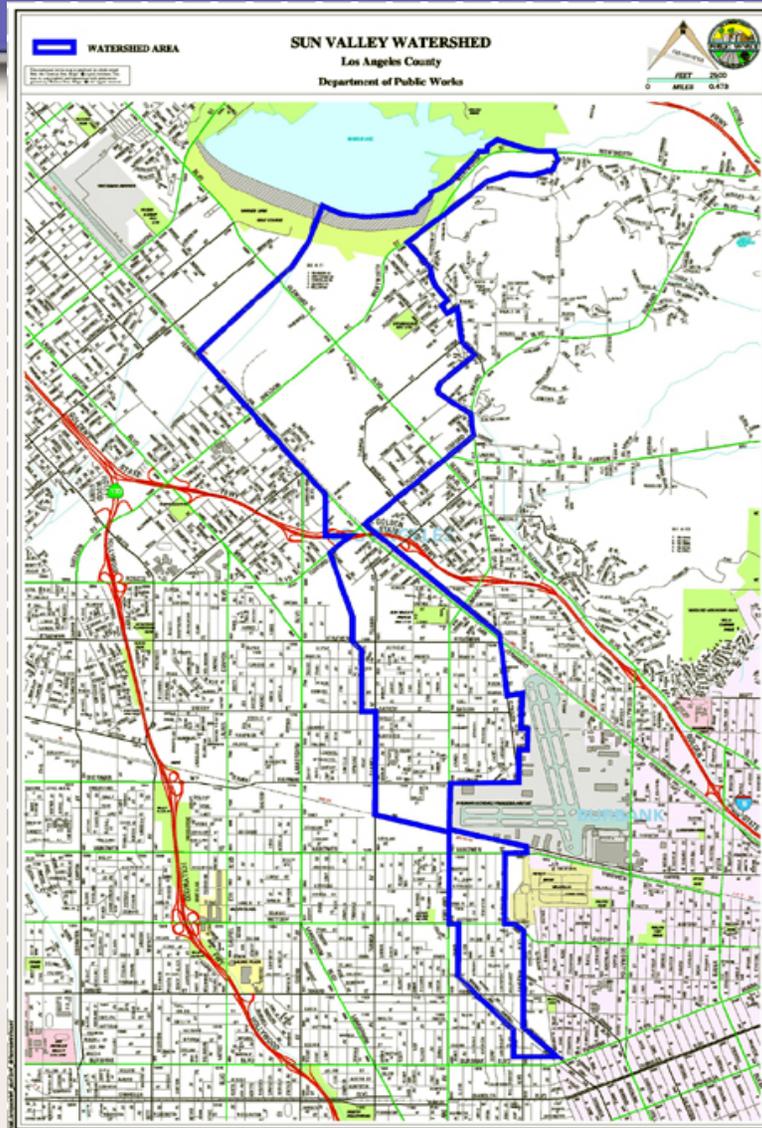
ORANGE COUNTY

# SUN VALLEY WATERSHED PROJECT

*IRWMP PROJECT EXAMPLE*



# Sun Valley Watershed Background



- Tributary to the Los Angeles River
- 4.4 square mile watershed
- Highly Urbanized with little recreation or open space



# Sun Valley - Urbanized



5 Frwy

Tuxford St

San Fernando Rd

# Adverse Impacts Flooding in Sun Valley

Jan. 2005

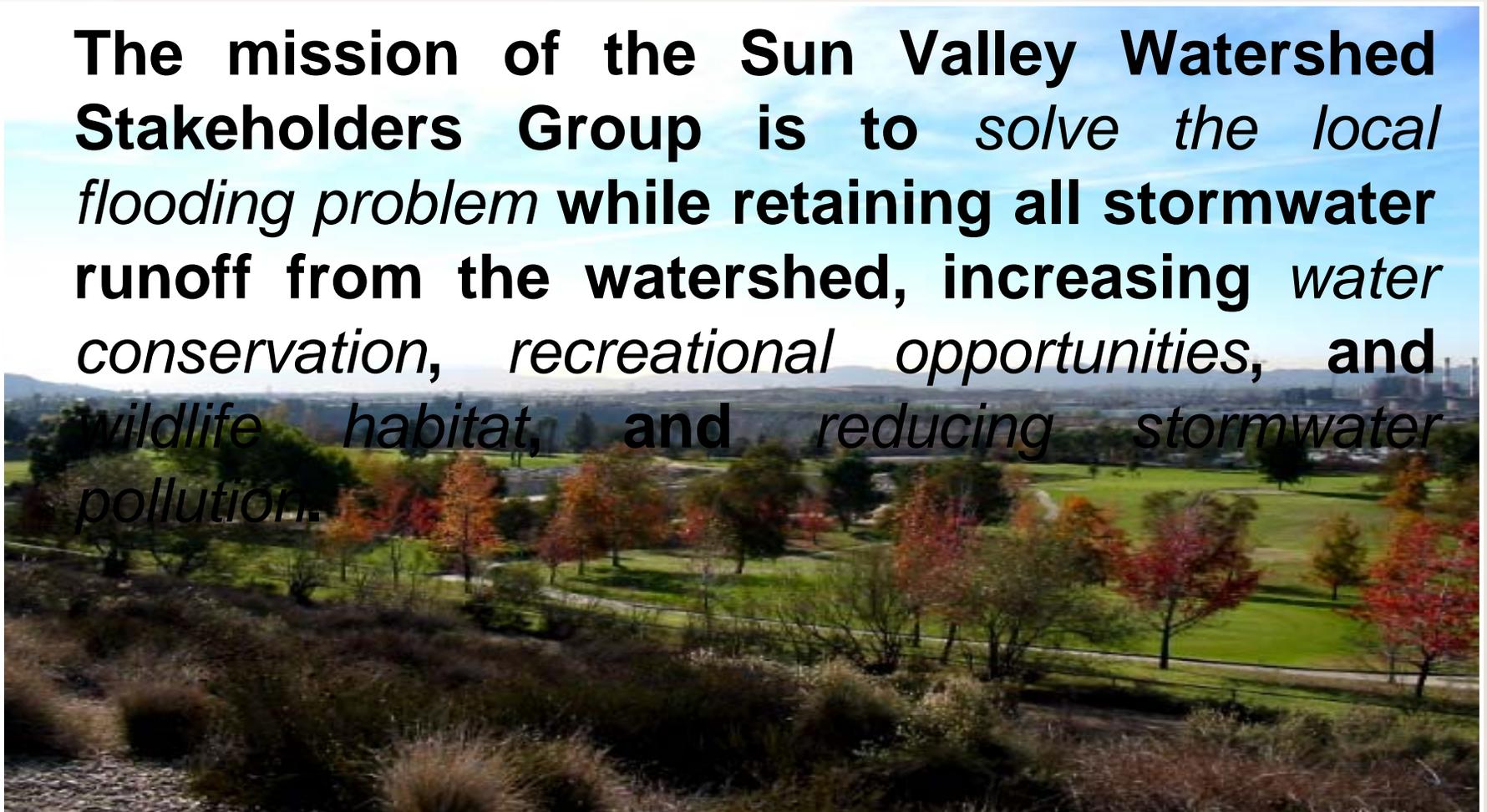


# Sun Valley Watershed Stakeholders Group

## Mission Statement

### Multiple Objective Solutions

**The mission of the Sun Valley Watershed Stakeholders Group is to solve the local flooding problem while retaining all stormwater runoff from the watershed, increasing water conservation, recreational opportunities, and wildlife habitat, and reducing stormwater pollution.**



# Strong Stakeholder Group - Collaboration

•LACDPW

•TreePeople

•CALFED

•LADWP

•ULARA  
Watermaster

•Vulcan Materials



•City Rec. & Parks

•DWR

•City of L.A.

•LAUSD

•Elected Officials

•City of Burbank

•Property Owners

•RWQCB

•Community Groups

# Board Adopted WMP & PEIR



LOS ANGELES COUNTY  
**PUBLIC WORKS**  
Public Service That Works

County of  
**Los Angeles**  
Department of Public Works

Final  
**Sun Valley  
Watershed  
Management  
Plan**

MAY 2004



LOS ANGELES COUNTY  
**PUBLIC WORKS**  
Public Service That Works

County of  
**Los Angeles**  
Department of Public Works

Final  
**Program  
Environmental  
Impact Report**  
Sun Valley Watershed  
Management Plan

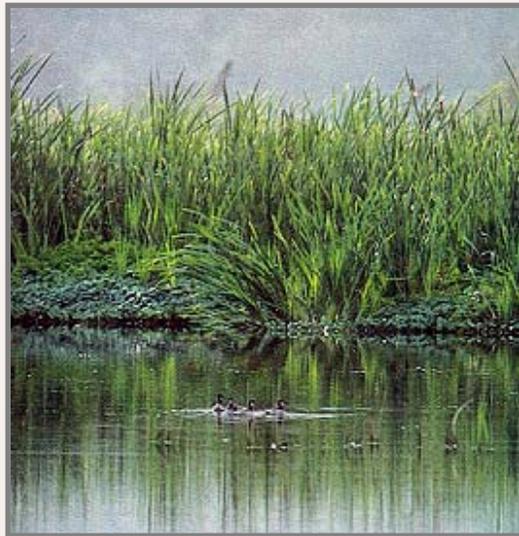
SCH No. 2002111051

MAY 2004



# Sun Valley's Solution: Multipurpose Projects in Combination

Retention, Infiltration, and Treatment  
Wetlands at Exhausted Gravel Pits



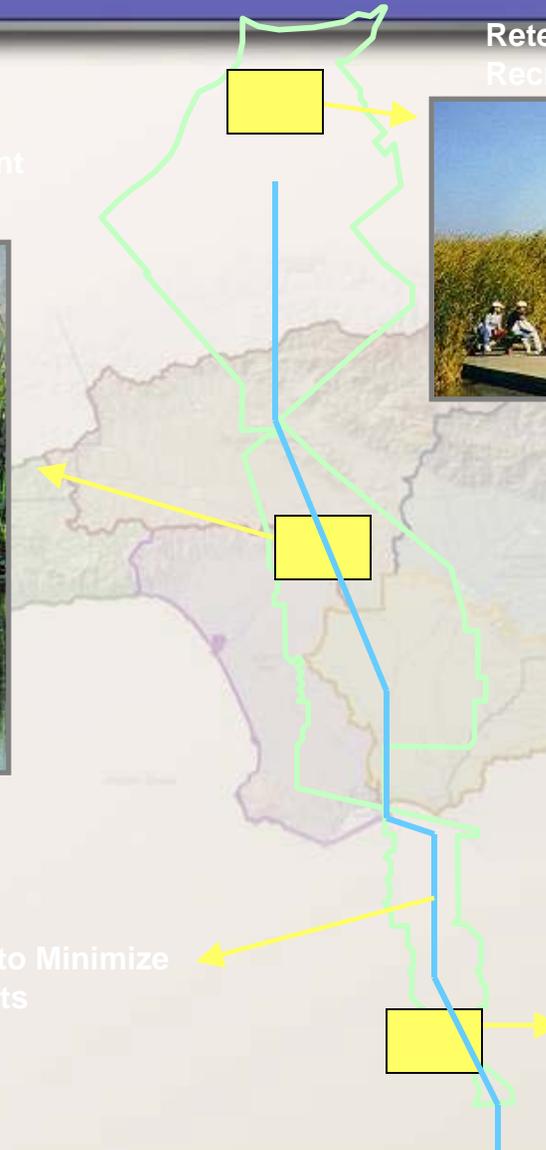
Retention, Infiltration, Treatment Wetlands, and  
Recreation at an Exhausted Gravel Pit



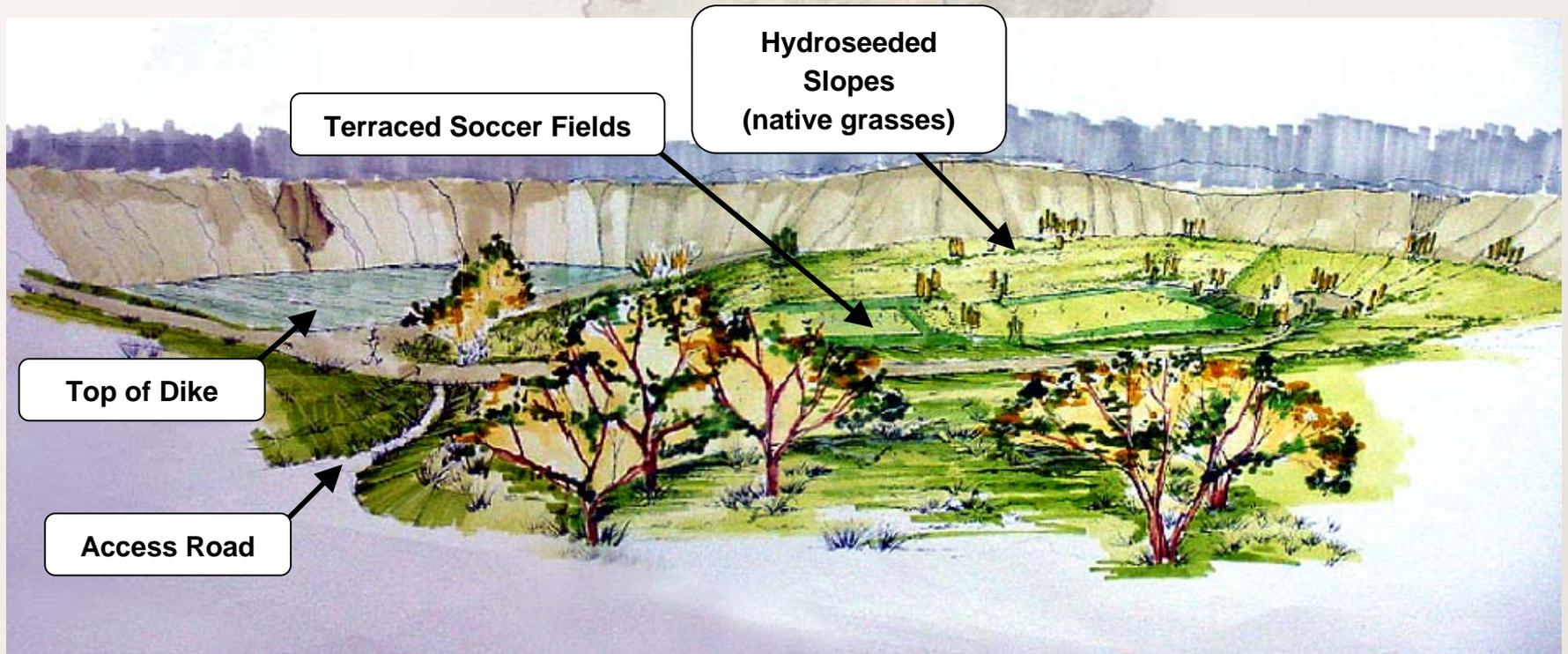
Retention, Infiltration, and  
Recreation at Powerline Easement



Conveyance to Minimize  
Flow in Streets



# Project Component Example: Before and After



## Multiple Objectives Met by the Sun Valley Watershed Project

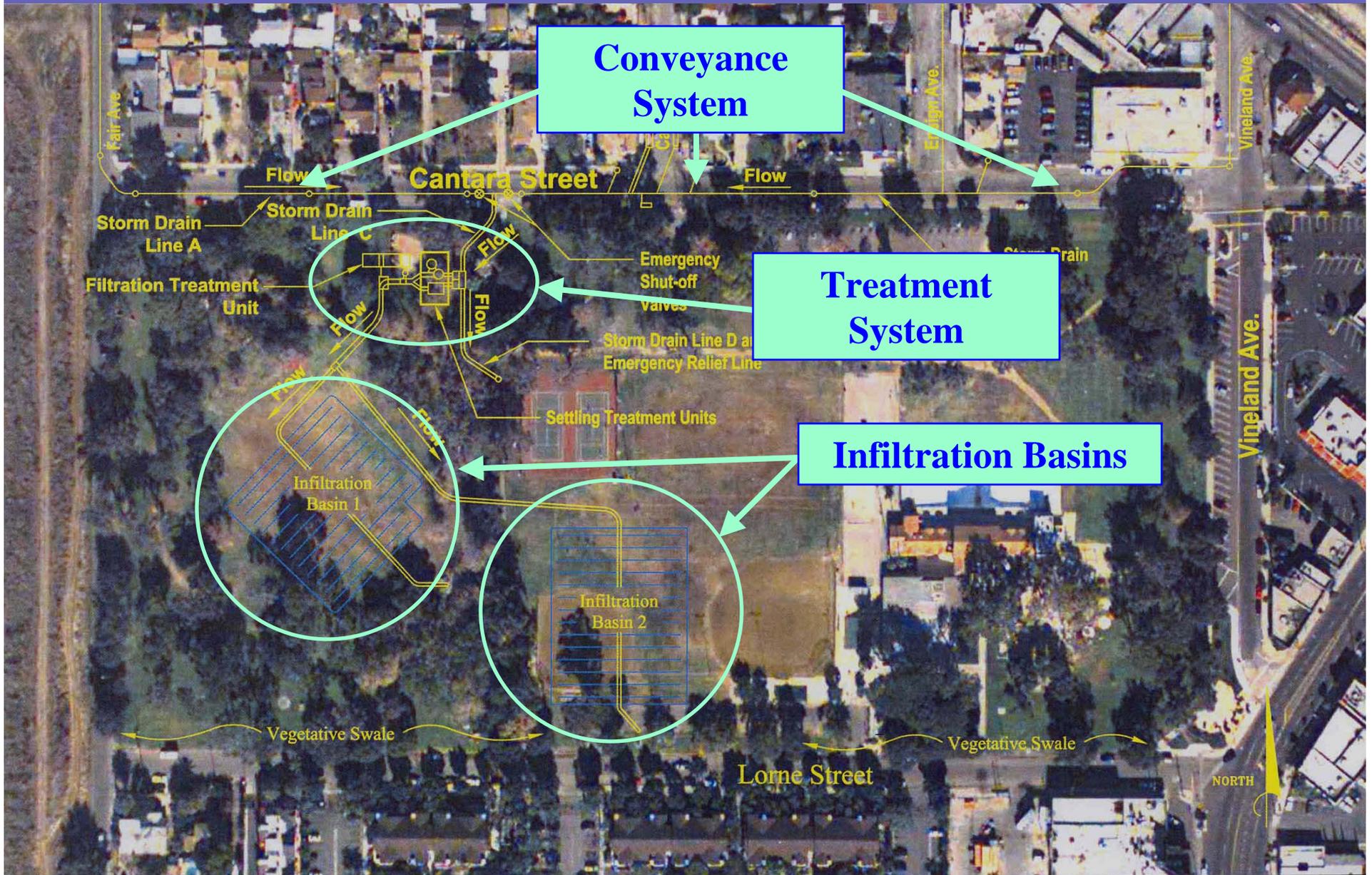
- Flood Control
  - Water Quality Improvement
  - Increased Water Supply
  - Energy Reduction
  - Decreased Greenwaste
  - Air Quality Improvement
  - Wetlands
  - Parks
  - Increased Property Value
- 

# Project In Construction

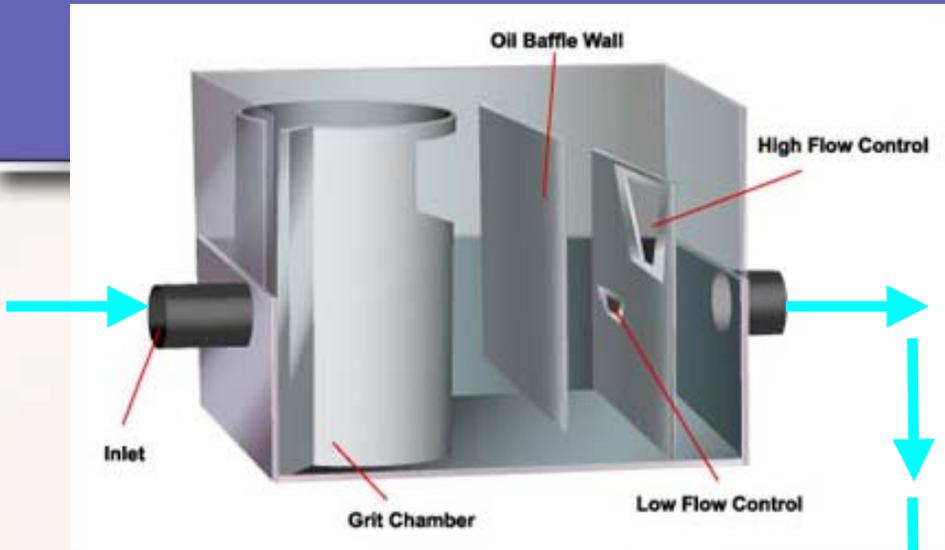
## Sun Valley Park Multiuse Project



# Sun Valley Park Multiuse Project



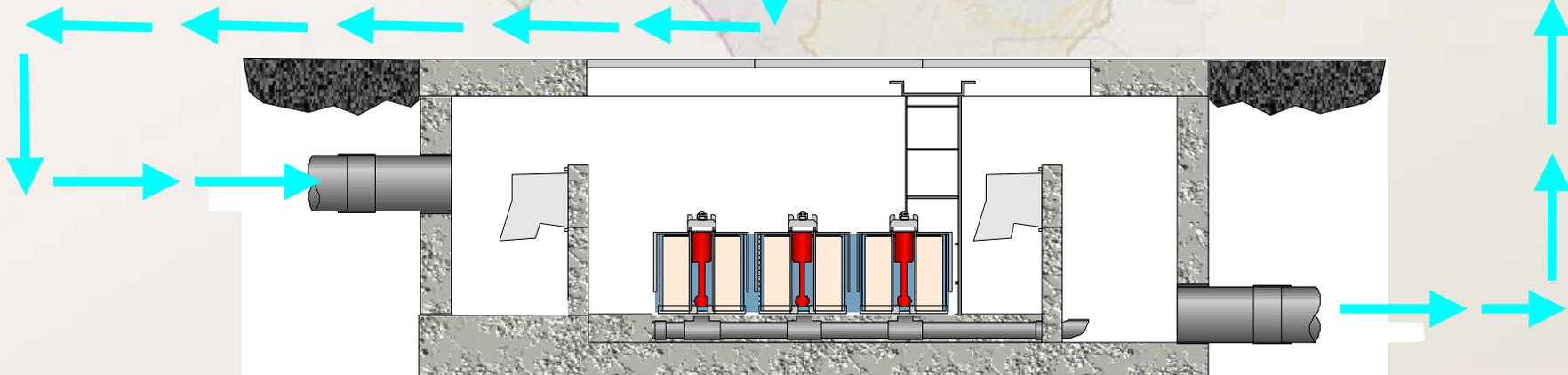
# Innovative Technology (BMPs)



Settling Treatment



Infiltration Basins



Filtration (Metals Treatment)

# Recreational Enhancements



Existing



Sports Lighting

Proposed

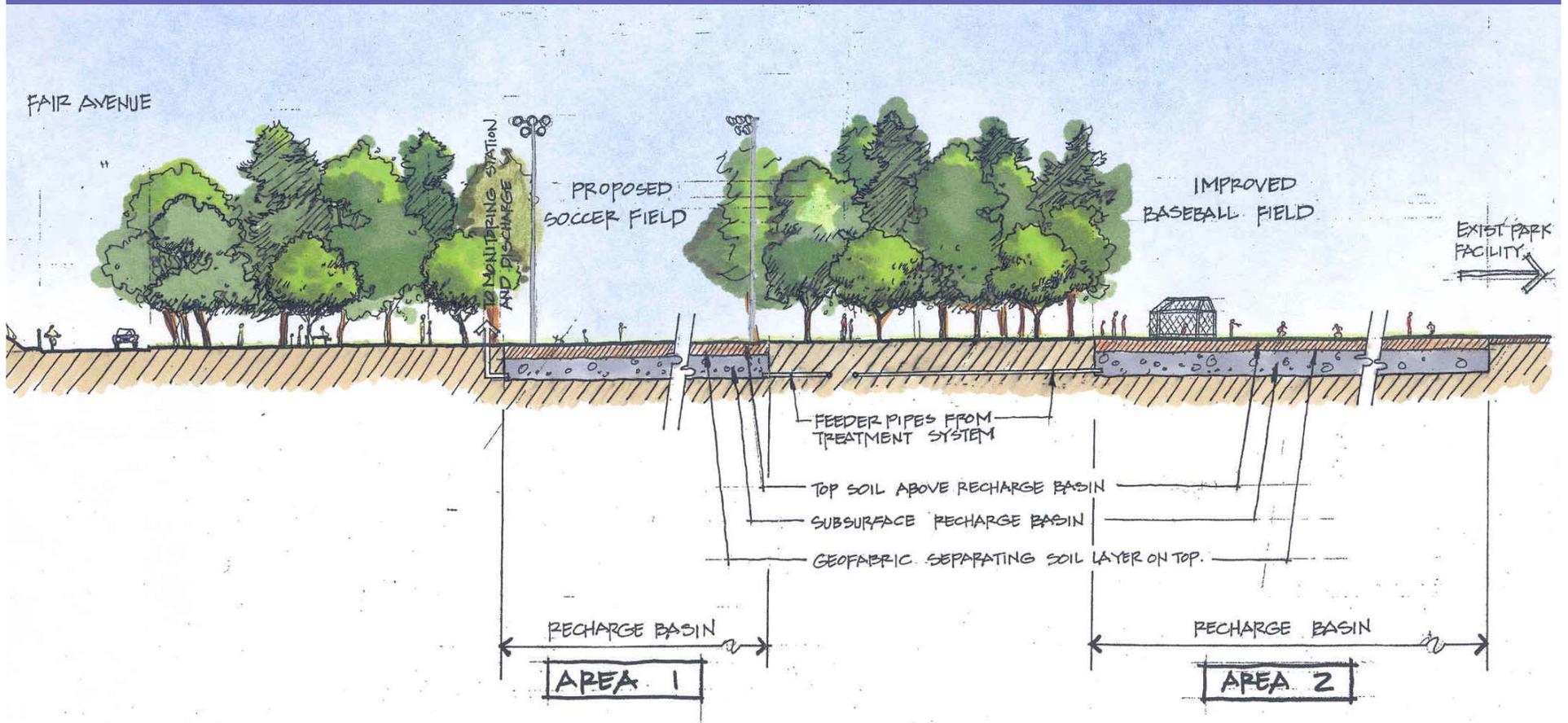
# Construction Photos Treatment System



# Construction Photos Infiltration Basin



# Near Future (2/2006)



**SUN VALLEY PARK RECHARGE BASINS**

NOT TO SCALE

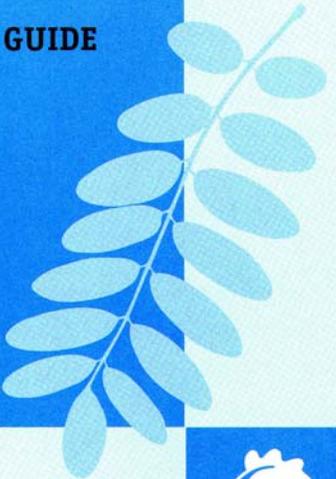
# Community Support – Outreach & Education

Sun Valley Watershed Project:

## Watershed Explorers

FIELD GUIDE

2 – 3



Explorer's Name \_\_\_\_\_



TREEPEOPLE

In-School  
Education

the Sun Valley Watershed Stakeholders Group

## Watershed Events

Volume 1, Number 1

Spring 2001

### Something Incredible is Happening in Sun Valley!

The Sun Valley Watershed Stakeholders Group is pleased to present to the community this first issue of its newsletter. The group was formed in 1998 to address the environmental health of the Sun Valley area and advise educators that would like to receive water, reduce pollution, beautify the community and increase park space. Finding these solutions and putting them in place will require the local knowledge and participation of Sun Valley residents. The purpose of this newsletter is to get their input, and to provide progress reports and award news to the community.

Anyone who's lived in the area for any length of time knows that seasonal flooding is a serious problem here, and one that is the source of many local frustrations. For many years, the County government has tried to find the best solution and even drain. More recently, other solutions have been proposed that could begin addressing flood prevention and provide more Eng-

See *Watershed*, page 21

### (Algo increíble está ocurriendo en Sun Valley!)

Es un placer para el Grupo de Inversores de la Cuenca de Sun Valley presentar a la comunidad a primera mano el primer número de este boletín informativo. El Grupo fue creado en 1998 para trabajar las inundaciones en el área de Sun Valley y promover soluciones que pudieran conservar agua, disminuir la contaminación, mejorar la comunidad y crear áreas de recreación. Encontrar estas soluciones y ponerlas en práctica requerirá el conocimiento y el apoyo de los residentes en la cuenca. El propósito de este boletín es obtener información, proporcionar reportes sobre el progreso y dar información sobre a quién acudir en la comunidad.

Cualquier persona que ha vivido en el área sabe que el problema de las inundaciones de esta temporada es un problema muy grave que ha estado molestando a la familia durante mucho tiempo. ¿Qué es diferente hoy? Por primera vez algunas gubernamentales, distritos, no gubernamentales y reportajes

See *Watershed*, página 21



### Vulcan Completes Storm Measures at Area Middle School

While the Group's purpose is to develop persuasive solutions in local flooding, we recognize that there are related problems which require immediate solutions. One example is the impairment of school access by storm inundation. Rain-water runoff problems have been a particular headache for parents, children and teachers at Sun Valley Middle School. Flooding in the drop-off areas along Burnside Avenue has made it difficult or impossible for kids to stay dry between car and classroom.

Due to the efforts of Vulcan Materials, however, this headache could be history. The concrete, which limits sand and gravel in the area, recently constructed a semi-circular driveway that gets cars past the flooding water on a dry high road. Though the need for their services had been discussed at committee meetings for several months, it took an average nothing could be done before the rains began. Vulcan's gratitude and labor were donated by Vulcan, so there was no cost to citizens or the school district. Thank you, Vulcan Materials!

The mission of the Sun Valley Watershed Stakeholders Group is to solve the local flooding problem, while retaining all watershed runoff from the watershed, increasing water conservation, recreational opportunities, and helping restore and maintain groundwater recharge.

La misión del Grupo de Inversores de la Cuenca de Sun Valley es resolver los problemas locales de las inundaciones, mantener todos los aguas de lluvia en la cuenca, conservar el agua, crear oportunidades para áreas de recreación, y ayudar a restaurar y mantener la recarga de agua.

Su cuenca...



Your watershed...



el proyecto de cuenca de SUN V



the SUN VALLEY Watershed Project

Educational  
Brochures

# Multipurpose Solution Benefits (Costs Avoided) vs. Costs

## Multipurpose Benefits:

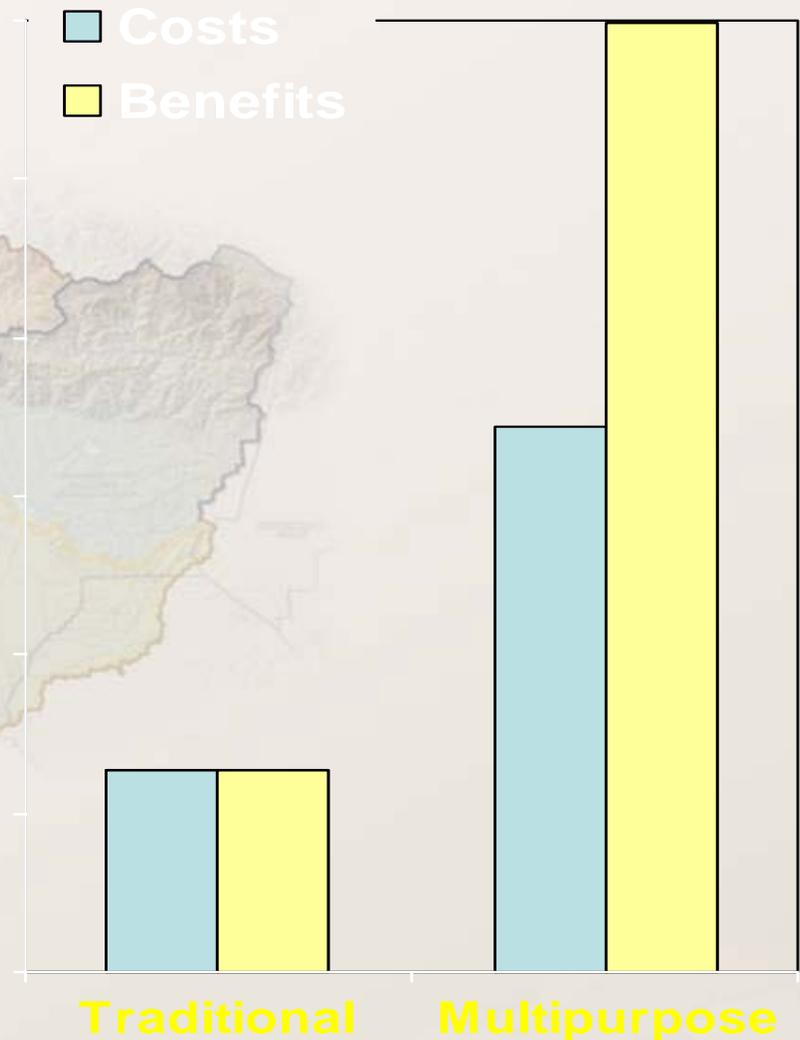
•Flood Control	\$78 M	\$
•Water Conservation	\$78 M	
•Pollution Reduction	\$88 M	
	<u>\$244 M</u>	

## Other Benefits:

•Additional Recreational Areas	
•Energy Conservation	
•Improved Air Quality	
•Additional Wildlife Habitat	<u>\$51 M</u>

Total Benefits: \$295 M

Total Costs: \$170 M



[www.ladpw.org](http://www.ladpw.org)

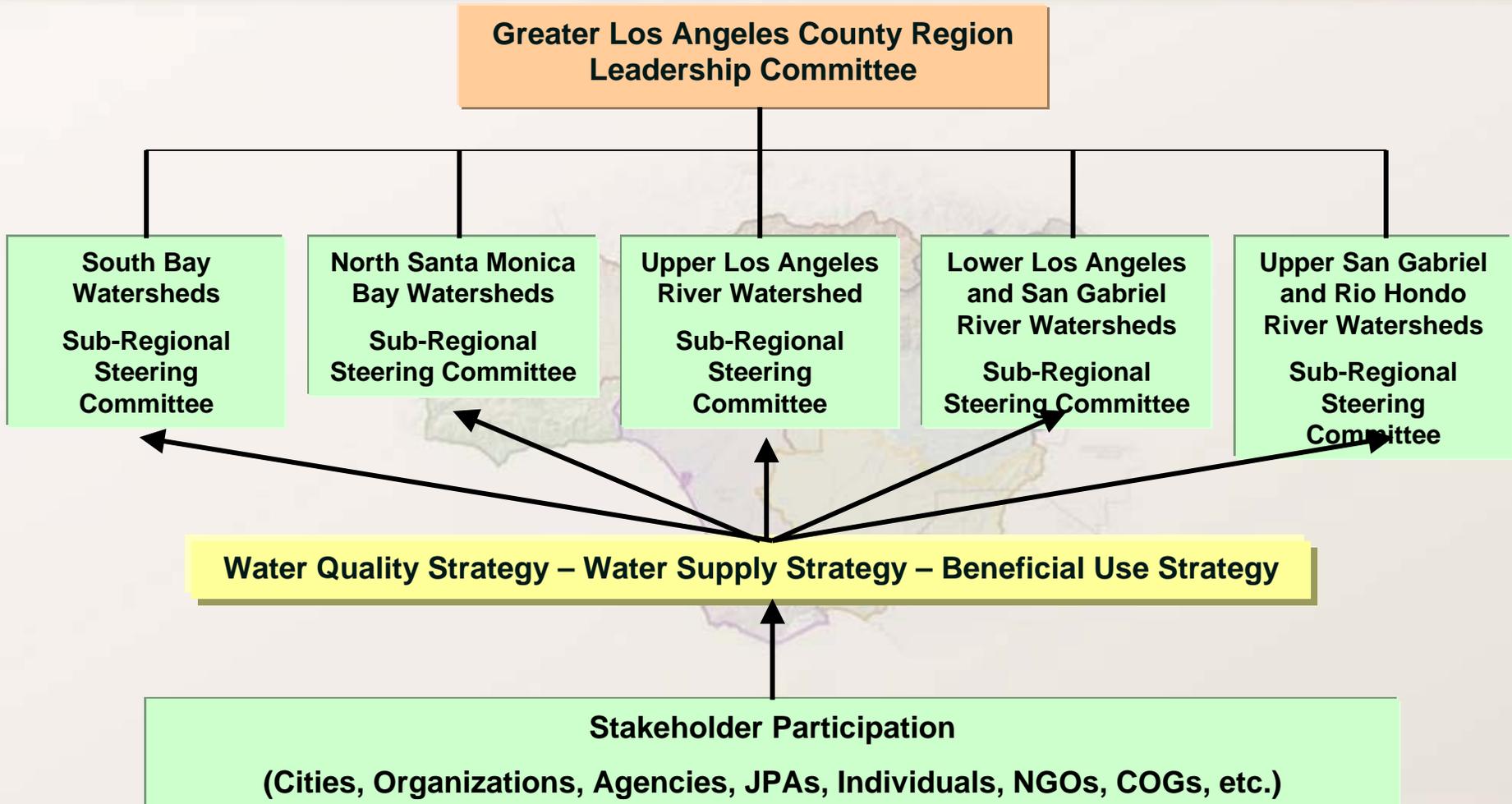


# Rich Nagel – West and Central Basin Municipal Water Districts

**How will we function together, be successful?**



# IRWMP Development Structure



## Purpose of Plan

- Integrate water management strategies:
  - Water conservation...water recycling... conjunctive use...flood management... stormwater/urban runoff quality...wastewater quality...wetlands enhancement and creation... habitat restoration and protection...parks and open space...recreation...desalination...recycled water.

# IRWMP Objectives

- Prepare a plan that first meets the requirements of Prop 50, Chap 8.
- Address broad water quality and water supply needs on a regional, stakeholder driven basis.
- Identify issues, needs, and challenges... identify quantifiable objectives and strategies... develop integrated solutions (projects) to meet the objectives
- Result: A plan to position the region to obtain funding from many sources

# IRWMP Objectives

- Serve as the technical basis for a voter-approved stable and long-term multibillion dollar funding measure for LA County.
  - Describe projects/programs that address water quality and provide other benefits
  - Would be implemented, operated and maintained with approval of a funding measure.
  - Would describe tangible benefits that communities would receive by implementing these projects.

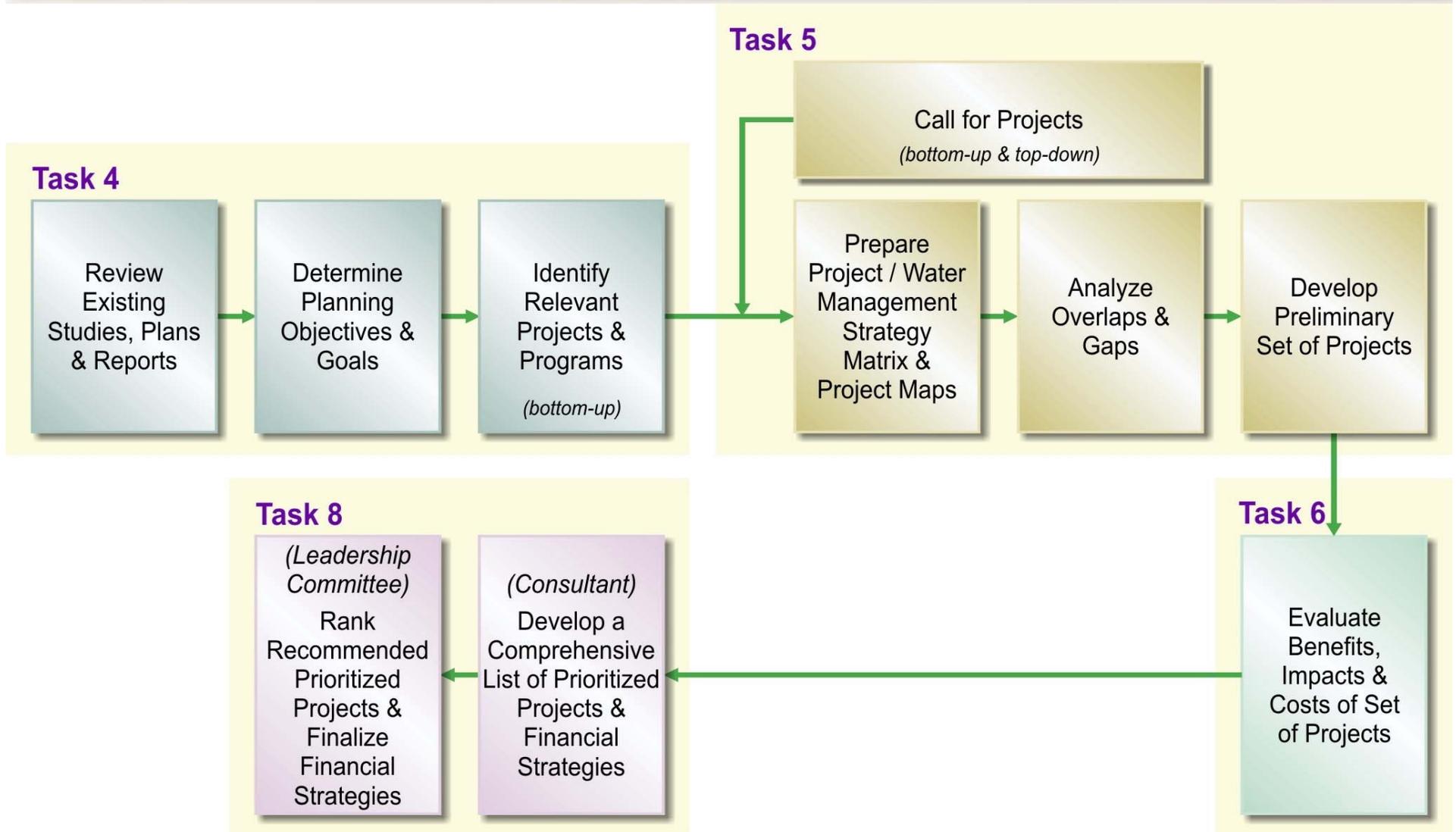


**Michael Drennan – Brown and Caldwell**

**Project Process, Scope and Schedule**



# LA IRWMP Project Process



# LA IRWMP Project Schedule

Meeting Schedule	January 2006	February 2006	March 2006	April 2006	May 2006	June 2006	July 2006	August 2006	September 2006	October 2006	November 2006	December 2006
Regional Stakeholder Workshops	#1			#2			#3			#4		
Regional Workshops 9am-12pm	Feb 1, 2006			April 26, 2006			July 26, 2006			Oct 25, 2006		
Sub-Regional Stakeholder Workshops		#1	#2		#3	#4		#5				#6
Upper Los Angeles River 9am-12pm		Feb 15, 2006	Mar 15, 2006		May 17, 2006	June 21, 2006		Aug 16, 2006	Sept 20, 2006			
San Gabriel and Lower Los Angeles River 1pm-4pm		Feb 16, 2006	Mar 16, 2006		May 18, 2006	June 13, 2006		Aug 17, 2006	Sept 21, 2006			
North Santa Monica Bay 9am-12pm		Feb 21, 2006	Mar 21, 2006		May 16, 2006	June 20, 2006		Aug 15, 2006	Sept 19, 2006			
South Bay 1pm-4pm		Feb 23, 2006	Mar 20, 2006		May 15, 2006	June 19, 2006		Aug 14, 2006	Sept 18, 2006			
Upper San Gabriel River 2pm-4pm		Feb 15, 2005	Mar 15, 2005									
Agenda Items	<p>Context: why are we here?</p> <ul style="list-style-type: none"> <li>• Overview</li> <li>• Statewide perspective</li> <li>• Federal perspective</li> <li>• Regional perspective</li> <li>• History of the IRWMP in LA</li> <li>• Integrated regional planning</li> </ul> <p>Vision: what will we accomplish?</p> <ul style="list-style-type: none"> <li>• Goals and regional project concepts</li> <li>• San Valley watershed</li> </ul> <p>Organization Process: how will we accomplish?</p> <ul style="list-style-type: none"> <li>• Project process, scope and schedule</li> <li>• Call for projects</li> <li>• Step 2 application</li> </ul>	<p>Background</p> <p>Review of existing studies, plans, and reports</p> <p>Countywide regional planning objectives</p> <p>Water management strategies</p>	<p>Existing relevant projects</p> <p>New projects and project concepts from call for projects</p>	<p>Status, direction and pending issues</p> <p>DAC strategy - Gap analysis</p> <p>Development of sets of projects</p> <p>Benefit cost analysis</p>	<p>Gap analysis (paper between WM strategies and geographical paper)</p> <p>Development of sets of projects</p>	<p>Benefit cost analysis of sets of projects</p>	<p>Status, direction and pending issues</p> <p>DAC strategy</p> <p>Finalization of sets of projects in each region</p> <p>Implementation plans</p> <p>Draft IRWMP</p>	<p>Prioritization of sets of projects</p> <p>Implementation plans</p>		<p>Status, direction and pending issues</p> <p>DAC strategy</p> <p>Public draft IRWMP</p>		<p>IRWMP adoption public hearing</p>
Deliverables	<p>Draft IRWMP Outline (01/31/06)</p> <p>Project Identification (01/31/06)</p>	<p>Data mgmt system implementation plan (2/10/06)</p> <p>Background (2/28/06)</p> <p>Key issues, concerns, actions and needs (2/28/06)</p> <p>Countywide regional planning objectives (2/28/06)</p>	<p>List of projects for each region (3/31/06)</p>	<p>Water supply mgmt strategy TMs # (4/4/06)</p> <p>Surface water mgmt strategy TMs # (4/4/06)</p> <p>Beneficial use mgmt strategy TMs # (4/4/06)</p> <p>Benefit assessment framework (4/28/06)</p>	<p>6 project/WM strategy matrices (5/5/06)</p> <p>6 maps that show project benefit areas (5/5/06)</p> <p>Preliminary sets of projects for each region (5/19/06)</p> <p>6 project integration TMs (5/31/06)</p>	<p>Benefits, impacts and costs of each set of projects (5/16/06)</p> <p>6 benefit assessment TMs (6/30/06)</p>	<p>Prioritization approach (7/7/06)</p> <p>Framework for project implementation plans (7/21/06)</p>	<p>Preferred set of priority projects for each region (8/4/06)</p> <p>Implementation plans including institutional structure, performance measure, schedule and financing (8/18/06)</p> <p>Administrative draft IRWMP (8/31/06)</p>	<p>Public draft IRWMP (9/29/06)</p>	<p>Final draft IRWMP (10/31/06)</p>		<p>Adopted IRWMP (12/29/06)</p>
Project Schedule / IRWMP Document												
Outline												
Background: Countywide/Subregional Water Management Groups & Countywide/Subregion Descriptions (Task 1)												
Regional and Subregional Objectives (Task 1)												
Water Management Strategies (Task 1)												
Project Integration (Task 2)												
Benefit Assessment (Task 3)												
Prioritization/Framework for Implementation (Task 4)												
Stakeholder Involvement: Outreach to DAC, Local Planning, State, and Federal Agencies (Task 7)												
Data Management (Task 8)												
Administrative Draft												
Public Draft												
Final Draft												
Final Plan												
Step 2 Implementation Grant Applications												

# LA IRWMP – Project Milestones

## Upcoming Project Milestones:



Feb	Develop Planning Objectives/Water Mgmt Strategies
Mar	Receive Project Concepts from “Call for Projects”
Apr	Begin Gap Analysis and Benefit Cost Analysis
May	Begin Project Integration and Sets of Projects
Jun	Complete Benefit Cost Analysis
Sep	Present Public Draft IRWMP
Oct	Prepare Final Draft IRWMP
Dec	Adopt IRWMP

# LA IRWMP – Project Milestones

## Upcoming Subregional Workshops:

February 15, 9:00 am - Upper Los Angeles

February 15, 2:00 pm - Upper San Gabriel and Rio Hondo

February 16, 1:00 pm - Lower Los Angeles and San Gabriel

February 21, 9:00 am - North Santa Monica Bay

February 23, 1:00 pm - South Bay

# LA IRWMP – Subregional Workshops

## February Subregional Workshop Tentative Agenda:

- Review of Existing Studies, Reports, Projects
- Regional and Subregional Planning Objectives
- Water Management Strategies
- Call for Projects



# LA IRWMP – Planning Objectives

## Proposed Planning Objectives:

- Water Supply
  - Water Quality
  - Habitat
    - Constructed Wetlands
    - Riparian Wetlands
  - Recreation
- 

# Michael Drennan – Brown and Caldwell



**Call for Projects**

# Call for Projects - Project Web Site



## Los Angeles County Region WATER PROJECT MANAGEMENT

[Home](#) [Objectives](#) [Events](#) [Projects](#) [Prop 50 Background](#) [Maps](#) [Contacts](#)

### Recent Projects



**Tijuana Estuary Wetland Restoration**  
Brown and Caldwell assisted Caltrans in the development, design, construction, and monitoring of an important environmental project that was required by the U.S. Department of Justice/Environmental Protection Agency. [more...](#)



**West Fork Wetland Restoration**  
Brown and Caldwell assisted Caltrans in the development, design, construction, and monitoring of an important environmental project that was required by the U.S. Department of Justice/Environmental Protection Agency. [more...](#)

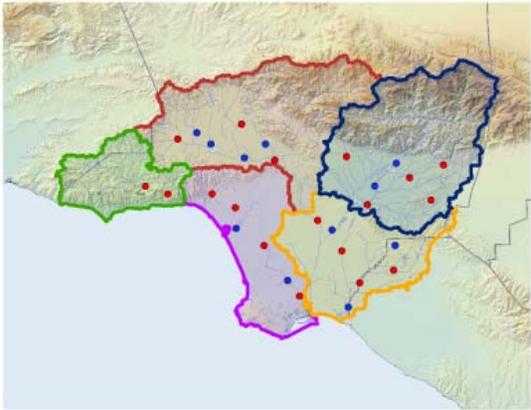


**LA River Wetland Restoration 7**  
Brown and Caldwell assisted Caltrans in the development, design, construction, and monitoring of an important environmental project that was required by the U.S. Department of Justice/Environmental Protection Agency. [more...](#)

[View Projects Section](#)

### Project Map

18 Pending Approval  
11 Approved [View Maps Section](#)



### Upcoming Events

**General Meeting**  
December 5, 2005 (6:30 pm)

[View Full Calendar](#)  
[Add New Event](#)

### Sign-up

Submit your email address to receive E-mail updates on the projects you choose to monitor.

Name:

Email:

Receive HTML mailings?  
 [Subscribe](#)  [Unsubscribe](#)

### Events

**General Meeting**  
December 5, 2005 (6:30 pm)

**Tijuana Estuary Meeting**  
December 23, 2005 (12:30 pm)

**West Fork Meeting**  
January 6, 2005 (12:30 pm)

[View Full Calendar](#)  
[Add New Event](#)

### Prop 50 Background

Familiarize yourself with Proposition 50 objectives and benefits.

[View Prop 50 Background Section](#)

## Salinas Valley Integrated Planning



### Issues:

- Seawater Intrusion in Coastal Areas
- Near 100% dependence on groundwater for both urban and agriculture
- Increasing demand for M&I water supply

### Results:

- Large regional project to halt seawater intrusion (Salinas Valley Water Project)
- Increased diversity in water sources
- Ground and surface water quality benefits
- Improved communication and coordination within region

# Pajaro River Watershed Integrated Planning



## Issues:

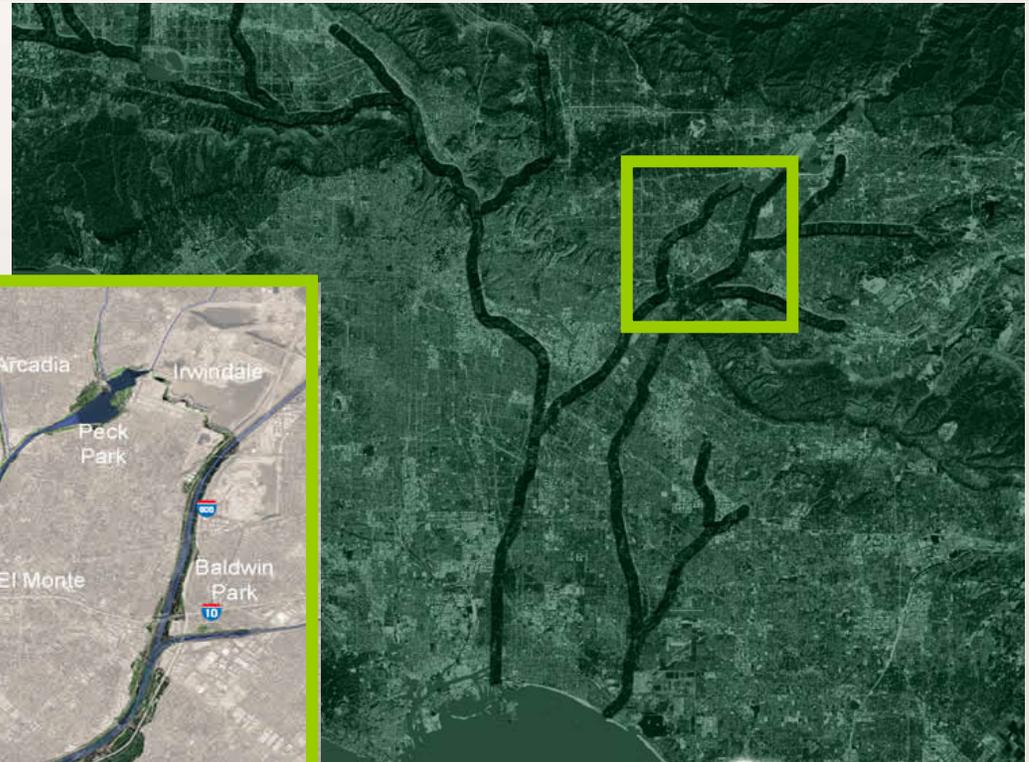
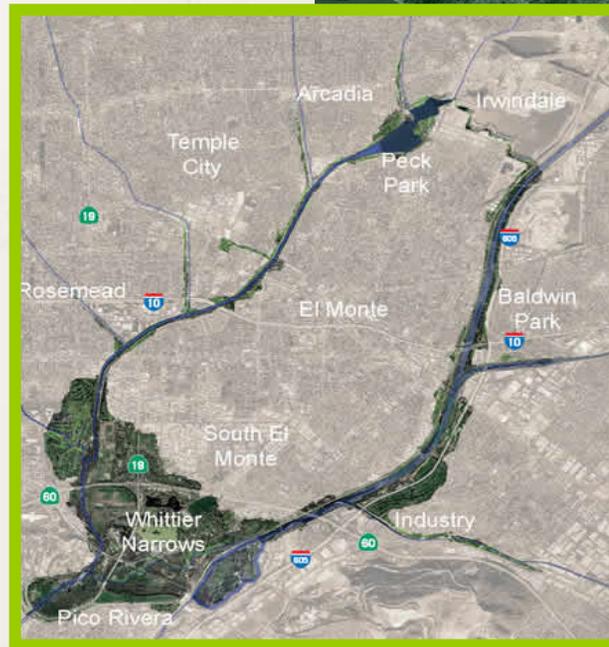
- Seawater Intrusion in Coastal Areas
- Demand for Common Import Water Supply Source
- Salinity Buildup Inland
- Flooding

## Results

- CVP water exchanges between agencies
- Ground and surface water transfer projects
- Multi-purpose pipeline for concentrate disposal
- Flood protection projects
- Other Water Reuse and Supply Projects

# Regional Solutions Address Multiple Objectives and Stakeholder Needs

- Emerald Necklace
- Future River Parkways





Olympic Boulevard at 20<sup>th</sup> Street



Olympic Boulevard at 20<sup>th</sup> Street



Lincoln Boulevard at I -10



Lincoln Boulevard at I -10

# Napa River Project Provides Multiple Benefits



**Flood Control**  
**Stormwater Pollution Control**  
**Habitat Enhancement**  
**Recreation**  
**Toxic Cleanup**

*Oil Company Road area before and after*



# River Restoration Can Help to Achieve Water Quality and Water Supply Goals

## City of Los Angeles Sepulveda Basin Wetlands Project Concept Design

Treated  
Urban  
Runoff will  
Improve  
River Water  
Quality



# Project Concept Design – Stormwater Treatment Wetland with Park and Groundwater Recharge



# Trinity River Corridor (before)



# Trinity River Corridor (after)



# Trinity River Corridor



# Chattanooga 21<sup>st</sup> Century Waterfront Park



# Chattanooga 21<sup>st</sup> Century Waterfront Park



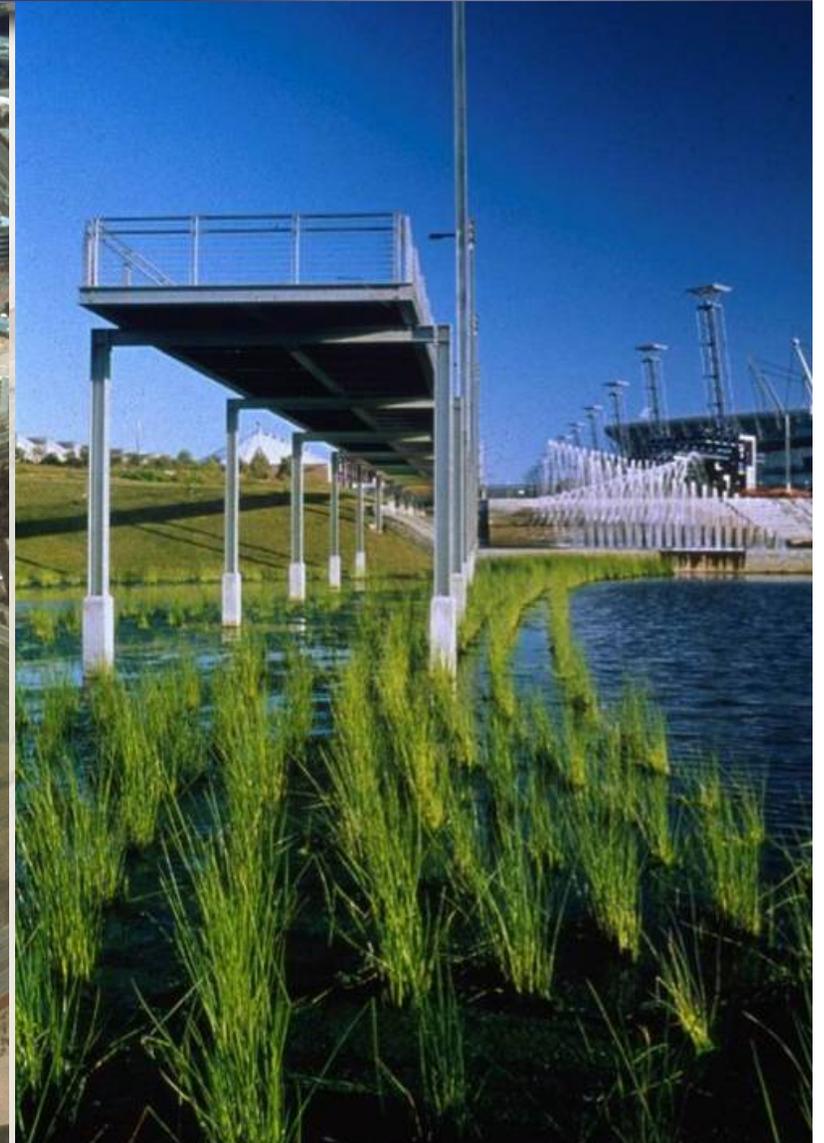
# Louisville Waterfront Park

Excavation  
under freeway  
created link  
between park  
and river



# Sydney 2000 Olympics

Treatment  
Wetlands



## Cheonggyecheon River, Seoul, Korea, c. 2000



The project to fully cover the stream began in 1958. The resulting roadway then received so much traffic that an elevated expressway had to be added. Completed in 1971, Cheonggye Expressway runs for 5.8 km and has a width of 16 m.

# Cheonggyecheon River, c. 2005



# Cheonggyecheon River, c. 2005



# Tom West - RMC

**Step 2 Applications**



## What is Step 2?

- Request for more detailed project info
  - Includes:
    - Detailed work plan
    - Economic benefit analysis
    - Scientific and technical support
  - Schedule:
    - Notice from State: mid-February
    - Application due: May
    - Award notification: late 2006
- 

# Step 1 Projects Submitted



## Step 2 Screening Process

**Four Applications**  
**63 Projects**  
**\$176 million**  
**requested**



**One Application**  
**~10 projects**  
**\$25 - \$50 million**  
**requested**

- Update project information with your sub-region
- Identify projects ready to be built
- Identify projects that best meet Step 2 criteria
- Balance projects among sub-regions

**Tom Erb, Director of Water Resources, City of Los Angeles  
Department of Water and Power**



**Closing Remarks**

# Greater Los Angeles Integrated Regional Water Management Strategic Plan (IRWMP)

Countywide Stakeholder Workshop  
February 1, 2006

