

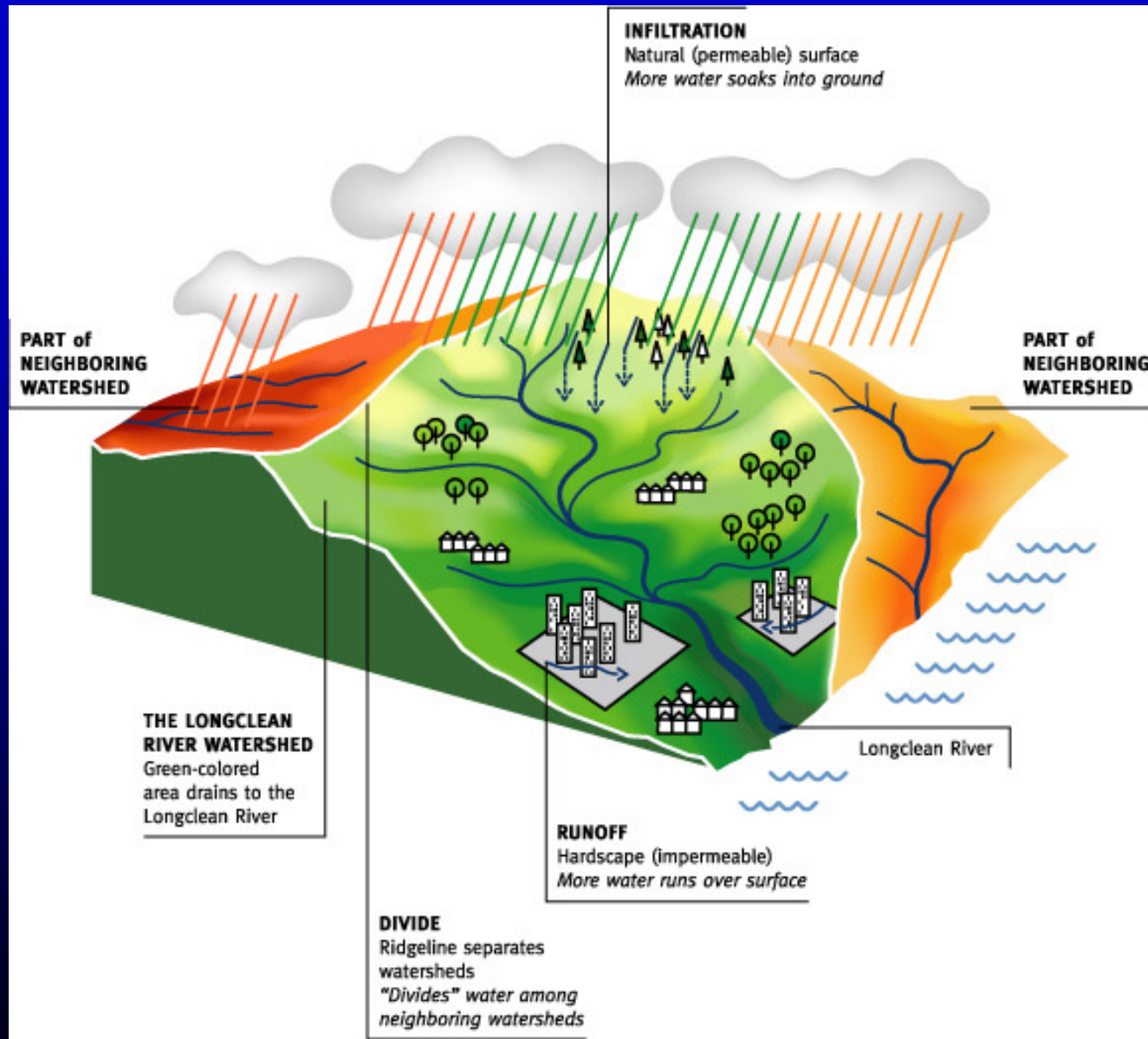
SUN VALLEY WATERSHED MANAGEMENT PLAN

*Efficient Resource Management in a Highly
Urbanized Watershed*

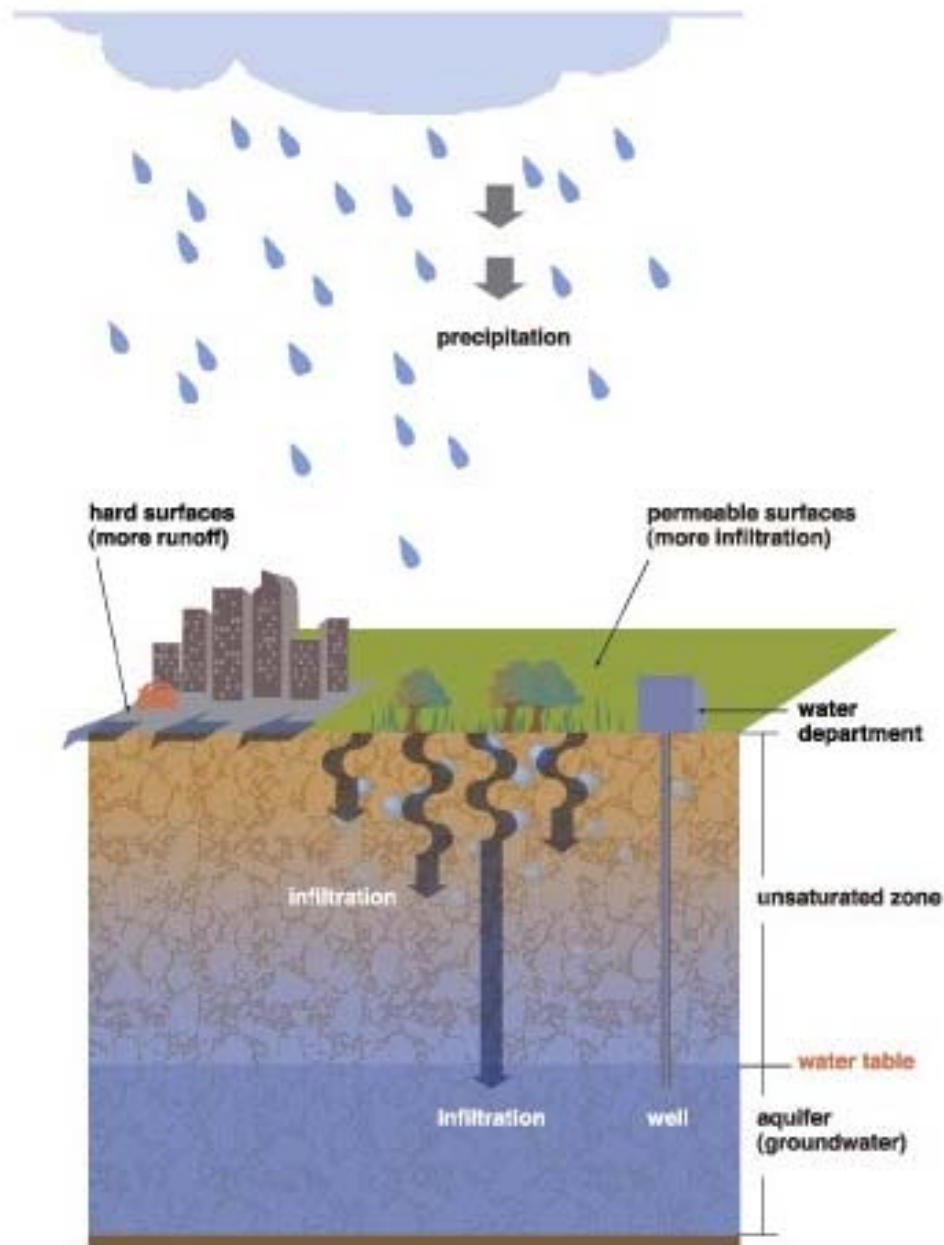
*Presented By: County of Los Angeles Department of Public
Works; Stacie Nakao*



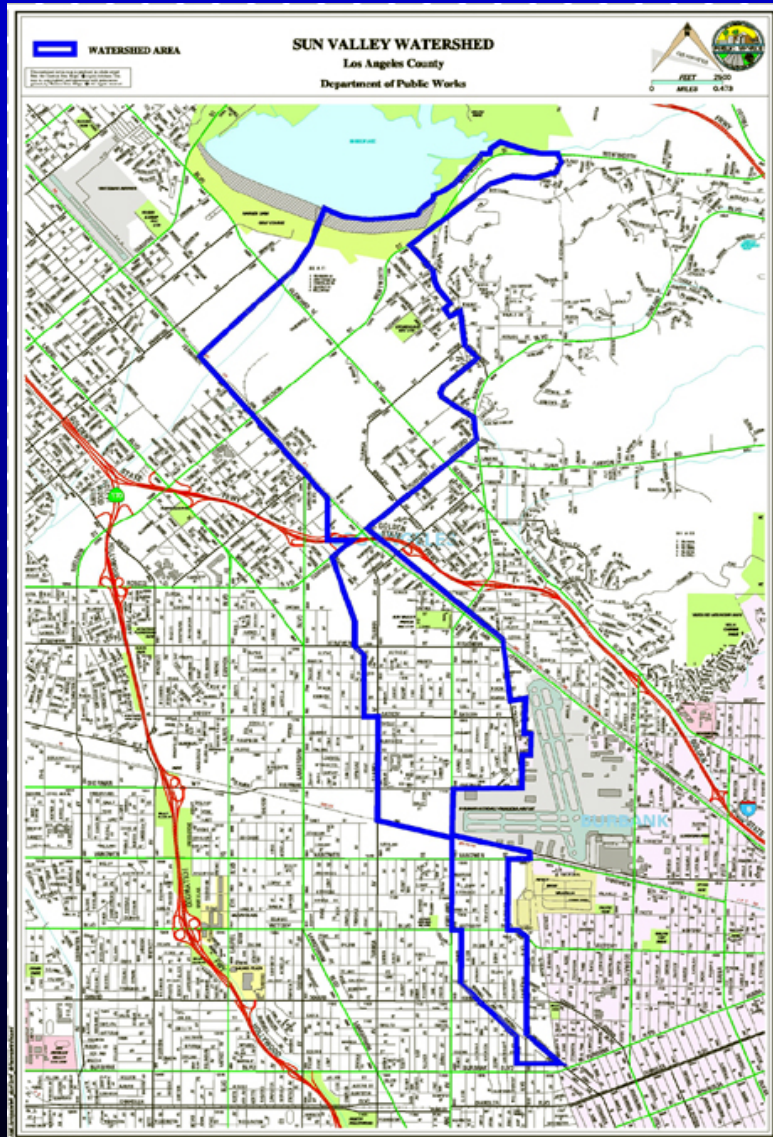
Watershed



Infiltration



Sun Valley Watershed Background



- 2,800 acres (4.4 square miles)
- Tributary to the Los Angeles River
- Highly Urbanized
 - Active Gravel Mines and Landfills
 - Numerous Auto-dismantling Operators
 - Other Commercial and Industrial Land Uses

Flooding in Sun Valley



Light Rainfall (Dec. 2002)

Other Environmental Problems

Decreasing Water Supply



Increased Air Pollution



**Decreased Wildlife
& Aesthetics**



Increased Water Pollution



Multiple Objectives Leads to Multiple Benefits

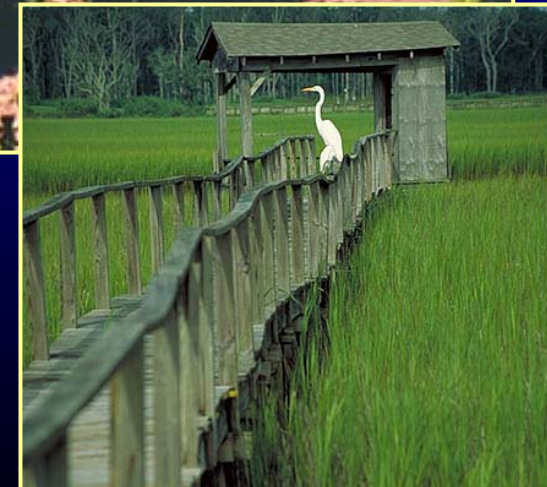


Single Objective



Pan Pacific Park

Multiple Objectives
Or
Multipurpose



Sun Valley Watershed Stakeholders Group Mission Statement

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.



Over 65 Members At the Table

•LACDPW

•TreePeople

•CALFED

•LADWP

•Watermaster

•Vulcan Materials

•City Rec. & Parks

•LAUSD

•City of L.A.

•City of Burbank

•Elected Officials

•RWQCB

•Property Owners

•Community Groups



Alternative Analysis Process

- Opportunities Identified throughout watershed
- Alternatives narrowed down to four
 - Each alternative contains a different set of components to reach goals of mission statement.
- Determine costs and benefits of each alternative

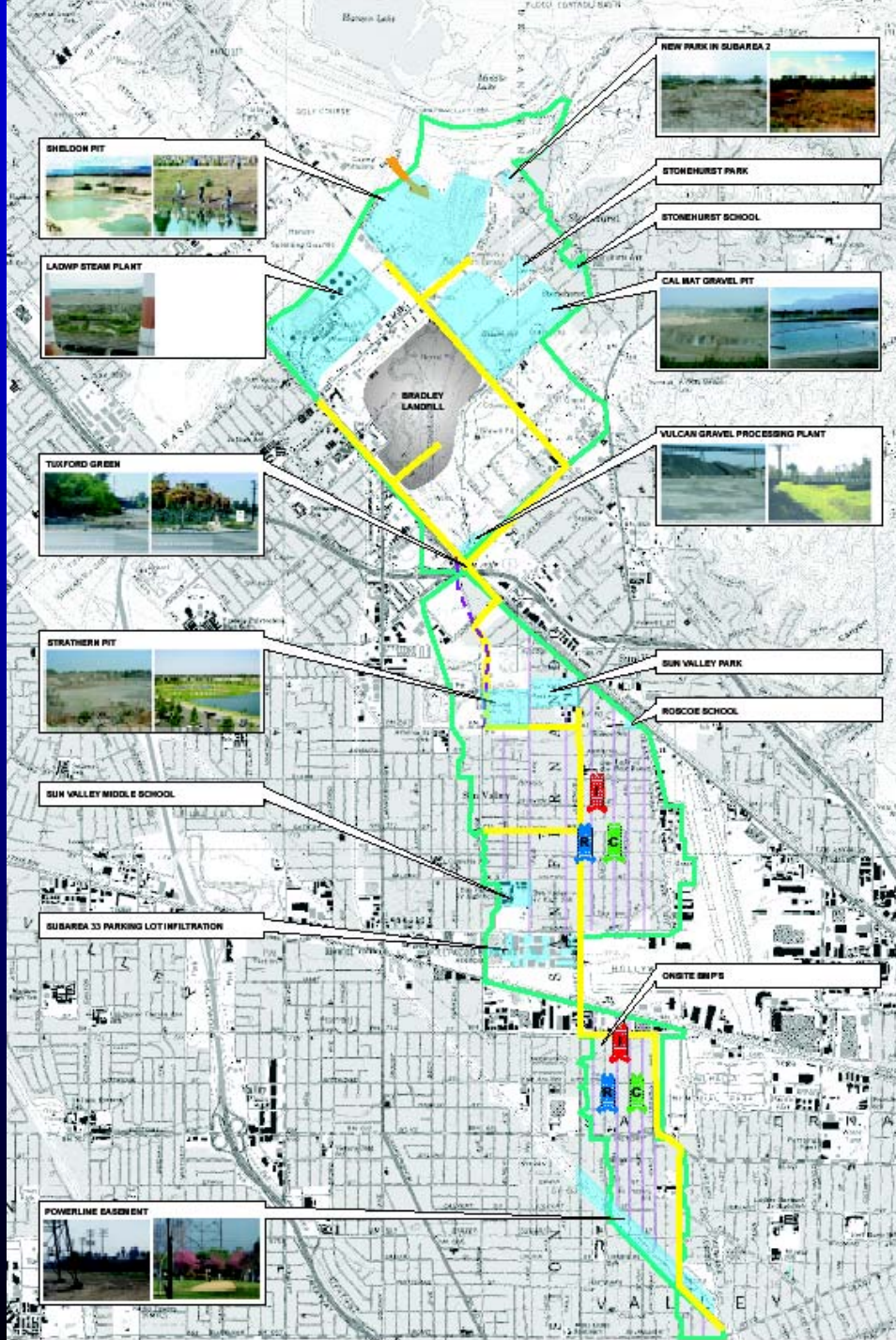
Hydrologic
Analysis



Groundwater
Modeling



A l t e r n a t i v e



LEGEND

- Project
- Recycled Water Distribution Line
- Required County Storm Drains
- Watershed Boundary
- Industrial Infiltration
- Commercial Infiltration
- Residential Infiltration
- Street Storage
- Flow Diverting Facilities
- Lake/Wetlands

1000' 0 1000'

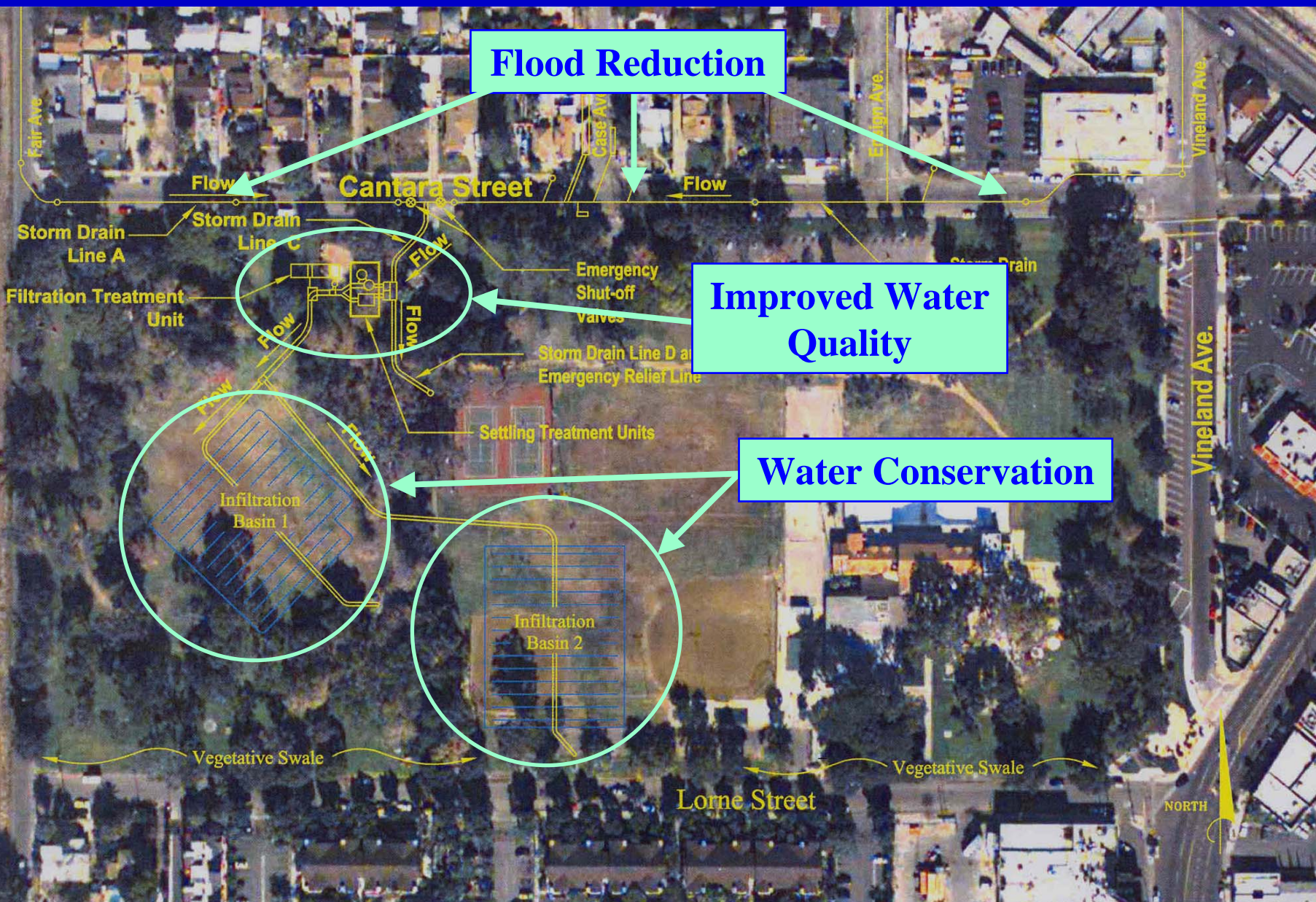
WATERSHED

MWH

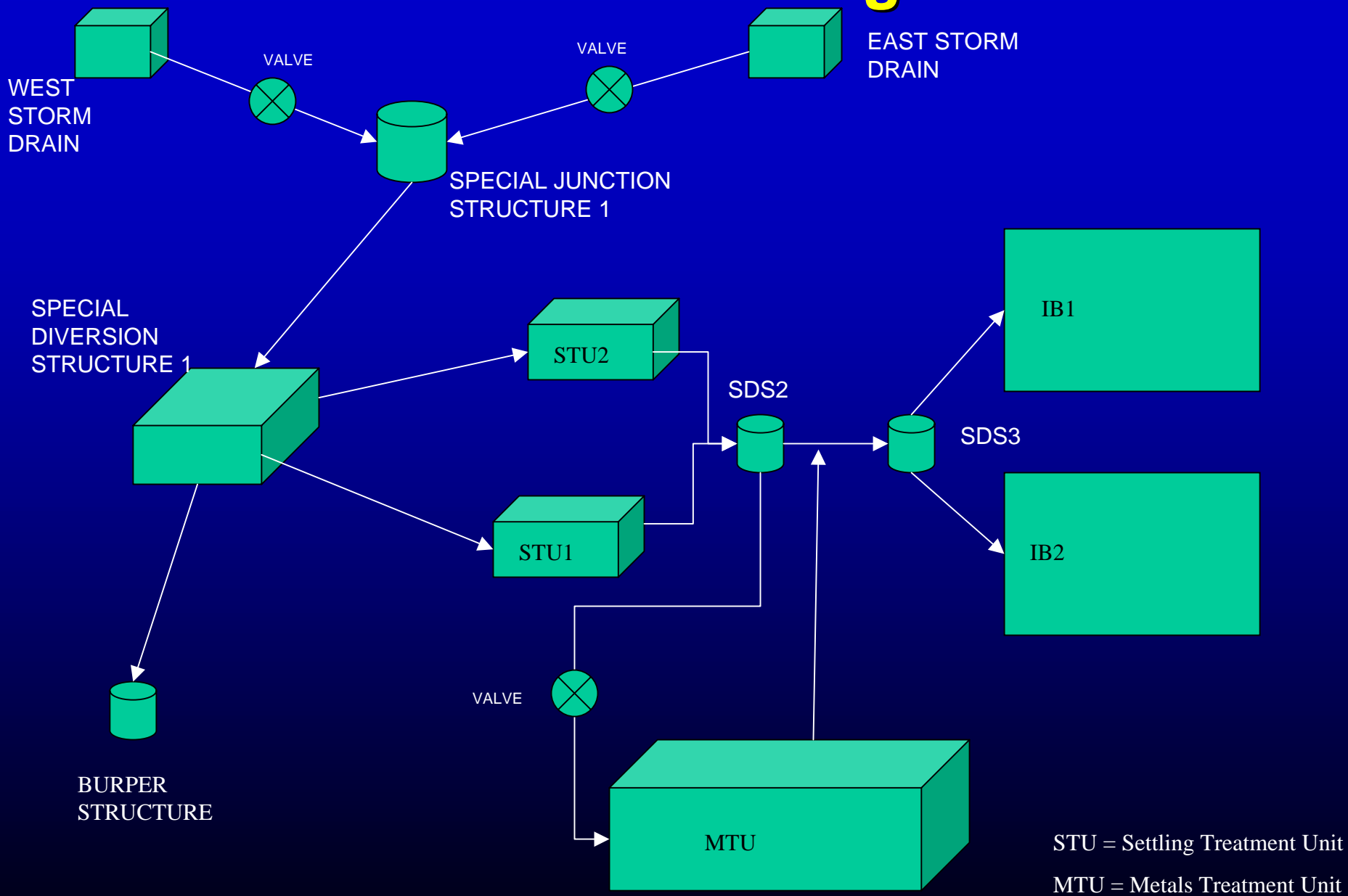
TERRACON

C o m p o n e n t s

Sun Valley Park Multiuse Project

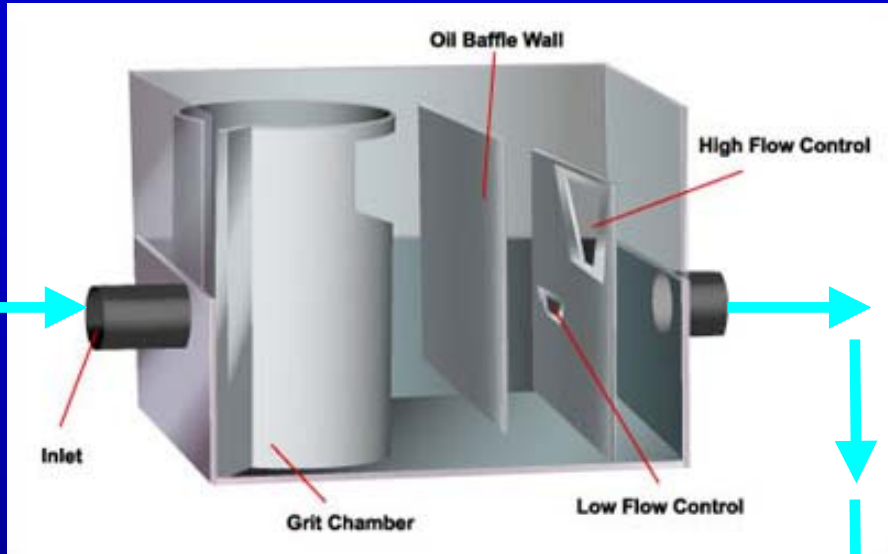


Process Flow Diagram



STU = Settling Treatment Unit
MTU = Metals Treatment Unit
IB = Infiltration Basin

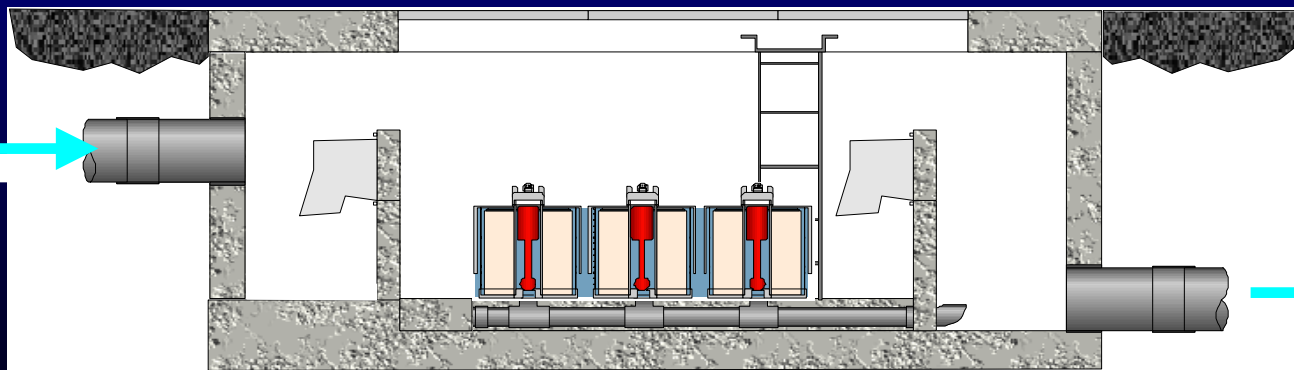
Innovative Technology (BMPs)



Settling Treatment

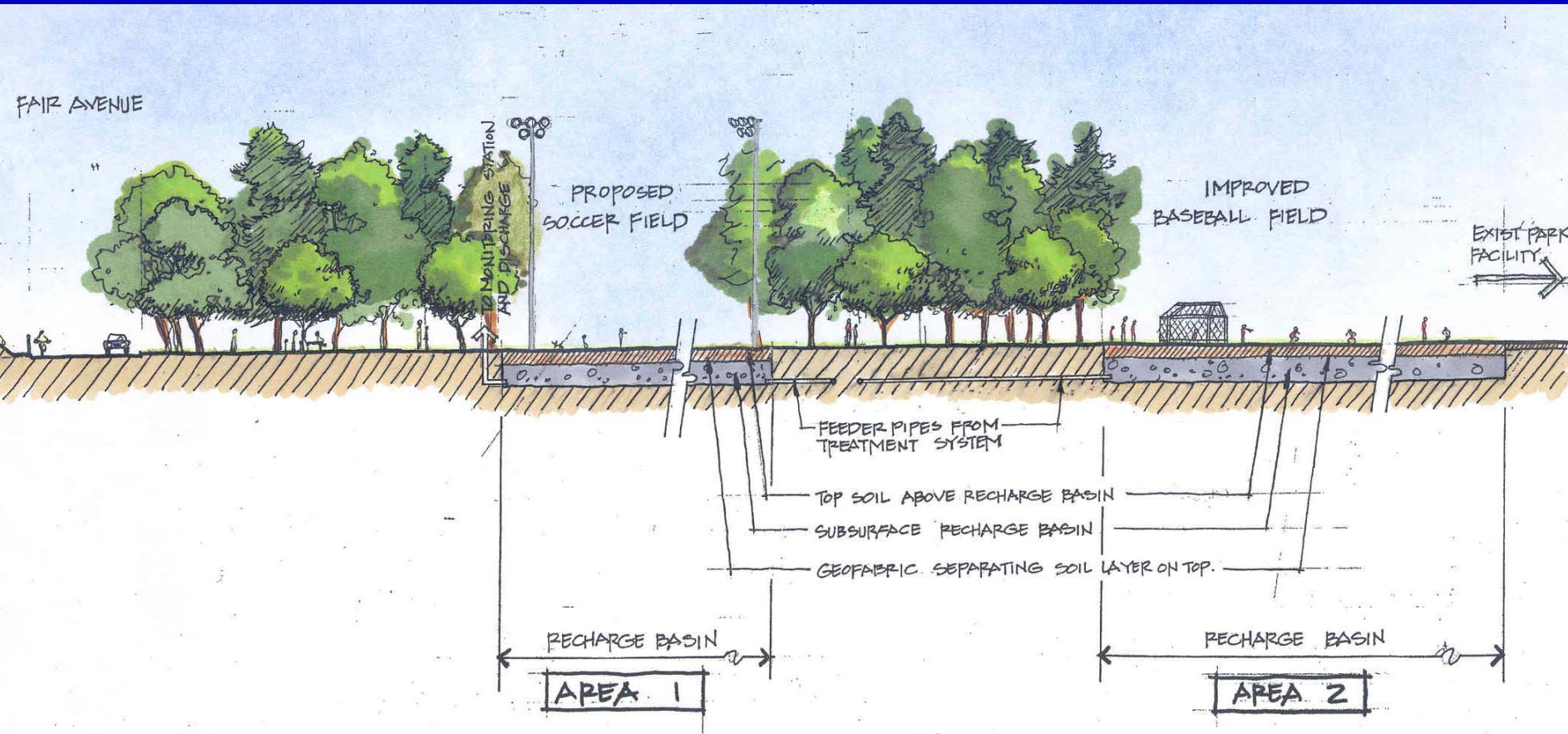


Infiltration Basins



Filtration (Metals Treatment)

Underground Infiltration Basins



SUN VALLEY PARK RECHARGE BASINS

NOT TO SCALE

Vegetative Swale

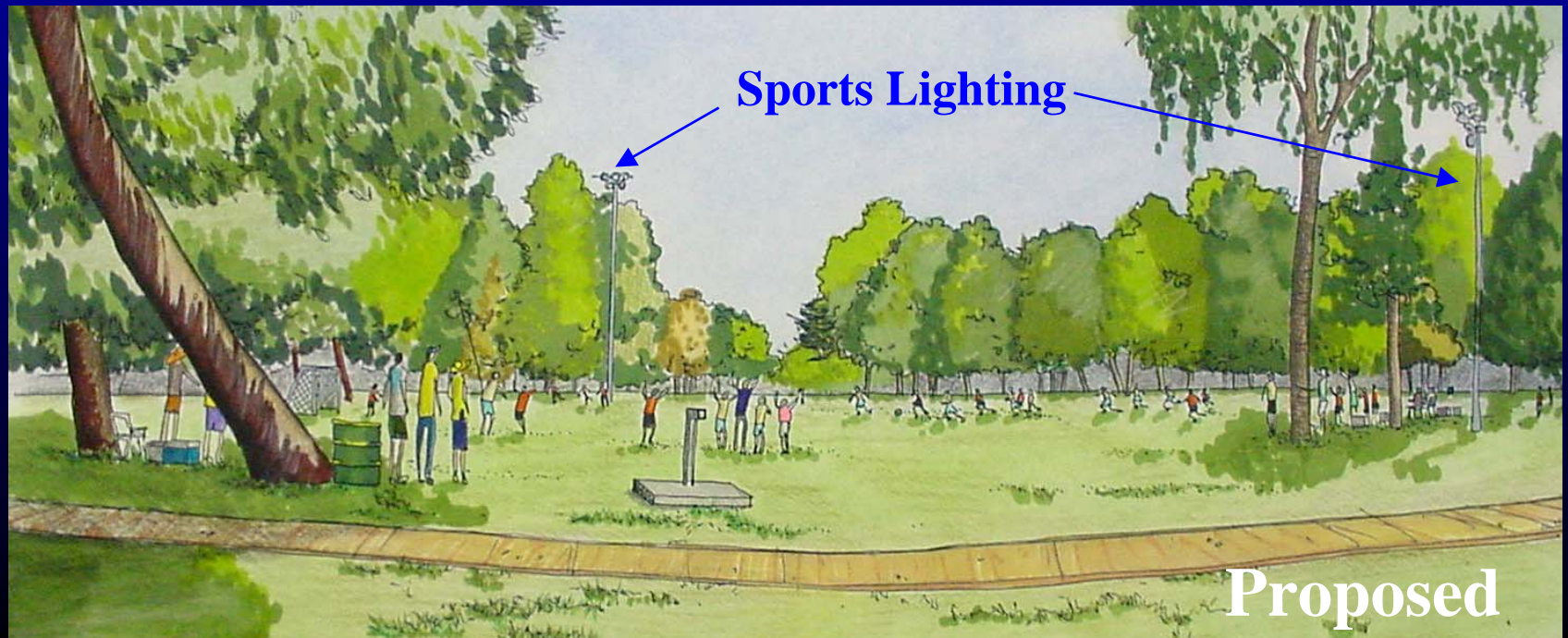


Existing



Proposed

Recreational Enhancements



Valley Steam Plant



- Groundwater Recharge
- Water Quality Enhancements
- Flood Reduction on San Fernando and Tuxford

“Tuxford Green”



San Fernando Rd

Tuxford St

“Tuxford Green” Flooding Hotspot



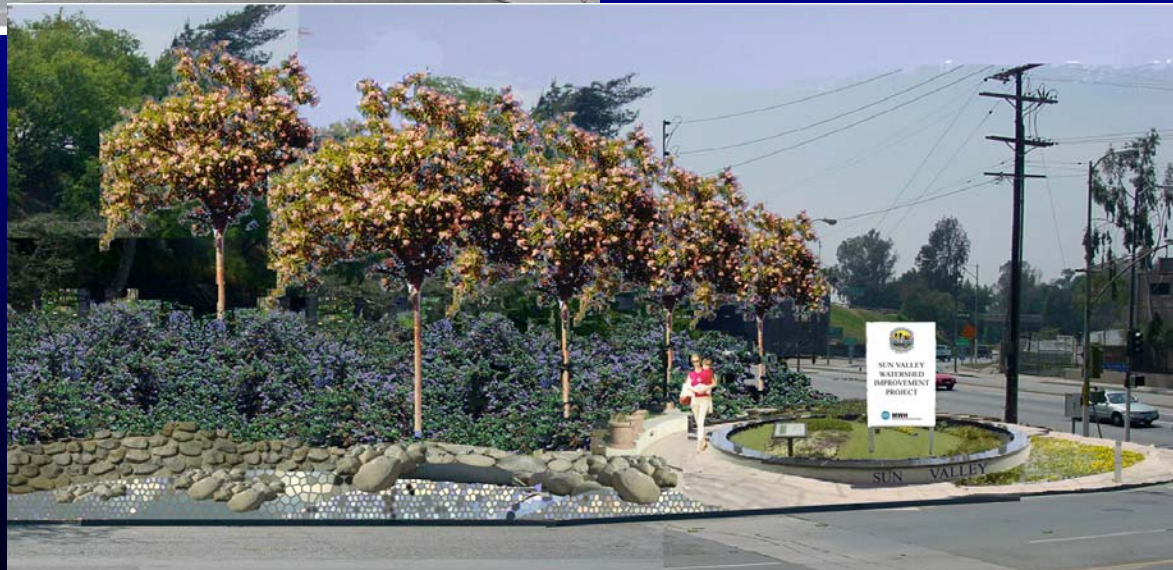
February 2003

“Tuxford Green”



BEFORE: TUXFORD & SAN FERNANDO ROAD

- Underground storage tanks
- Landscaping
- Reduced flooding at intersection



AFTER: TUXFORD & SAN FERNANDO ROAD

Middle School

Valerio St

Bakman Ave

Fair Ave

Sherman Wy

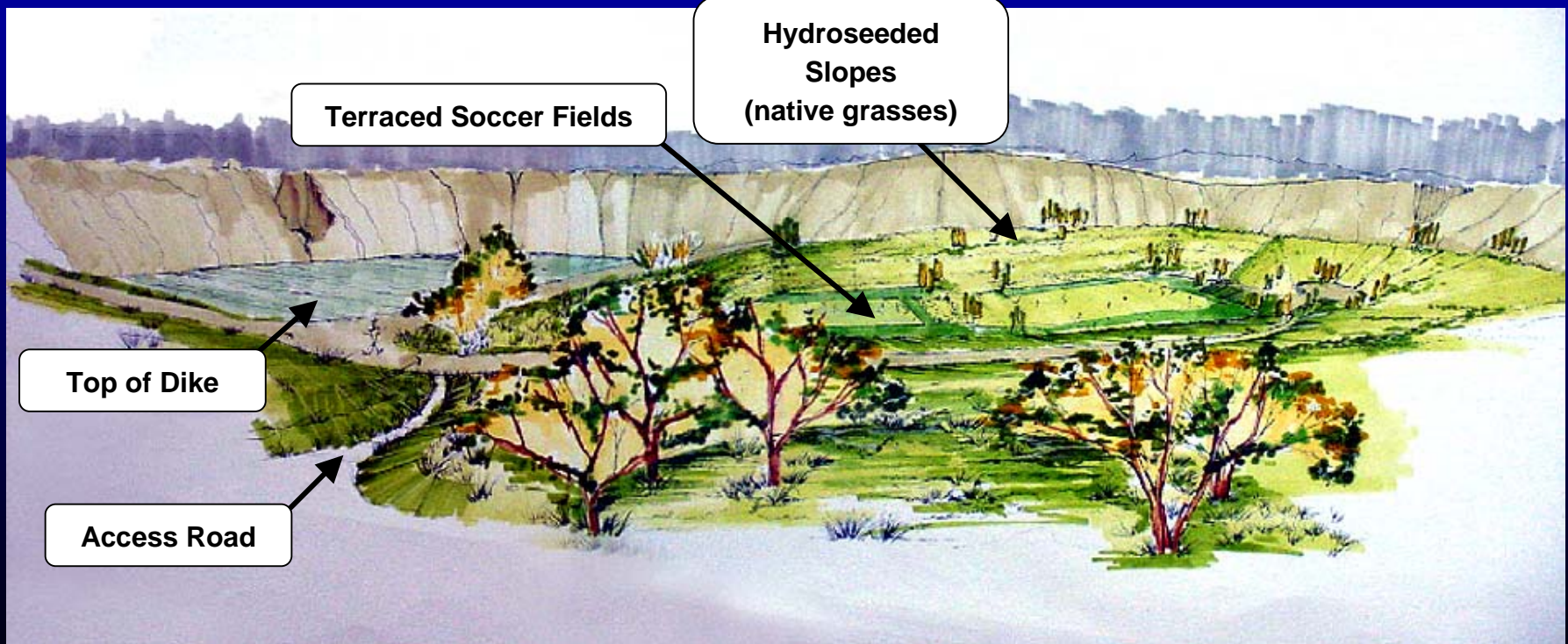


Middle School

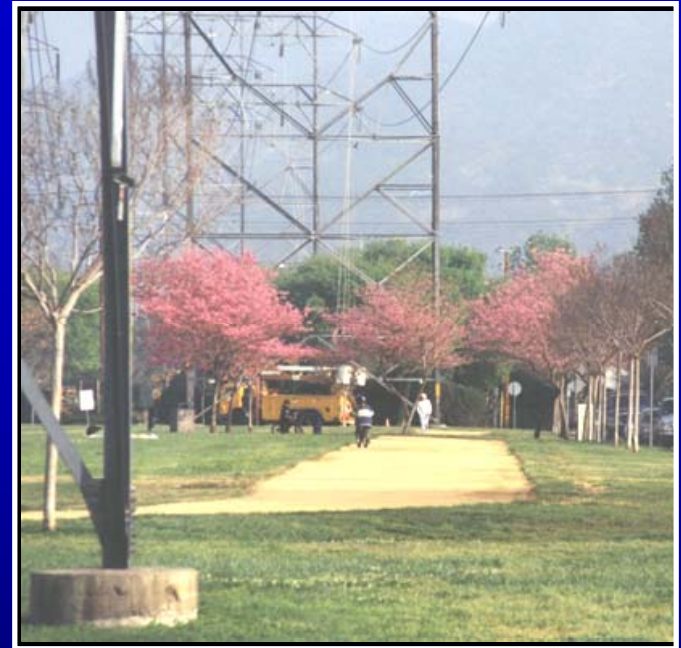


- Water Conservation
- Water Quality Enhancements
- Ability to store and recycle water for landscaping
- Opportunity to green the school and decrease water and electricity usage
- Opportunity for education program and tree planting

Gravel Pit Example: Before and After

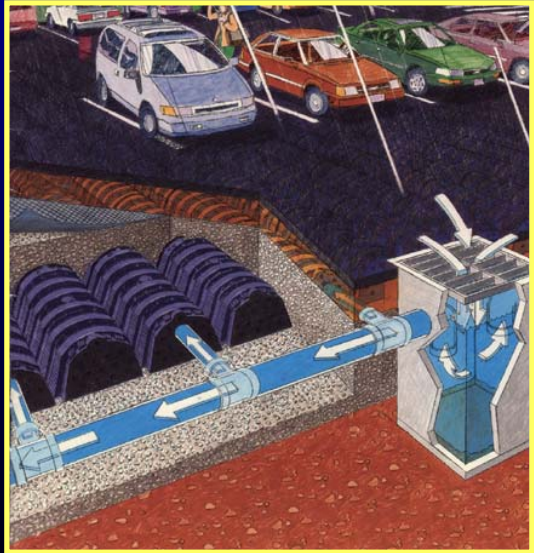
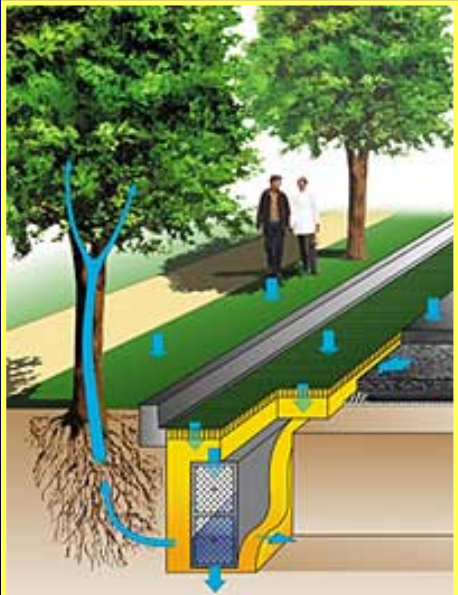


Powerline Easements



- **Flood Control:**
Contain 100% of 10-year storm
- **Improve Water Quality**

Onsite BMPs

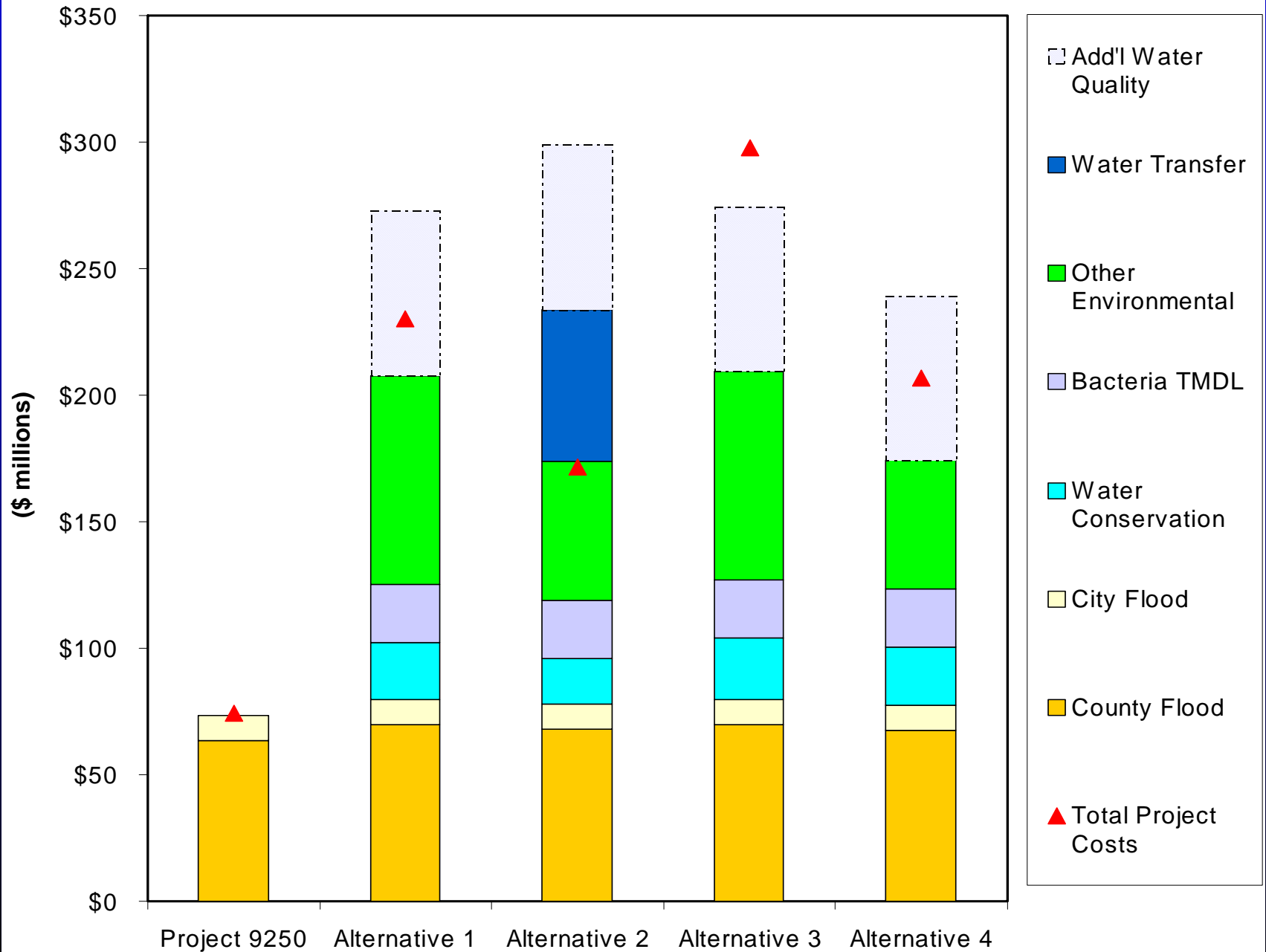


A l t e r n a t i v e s

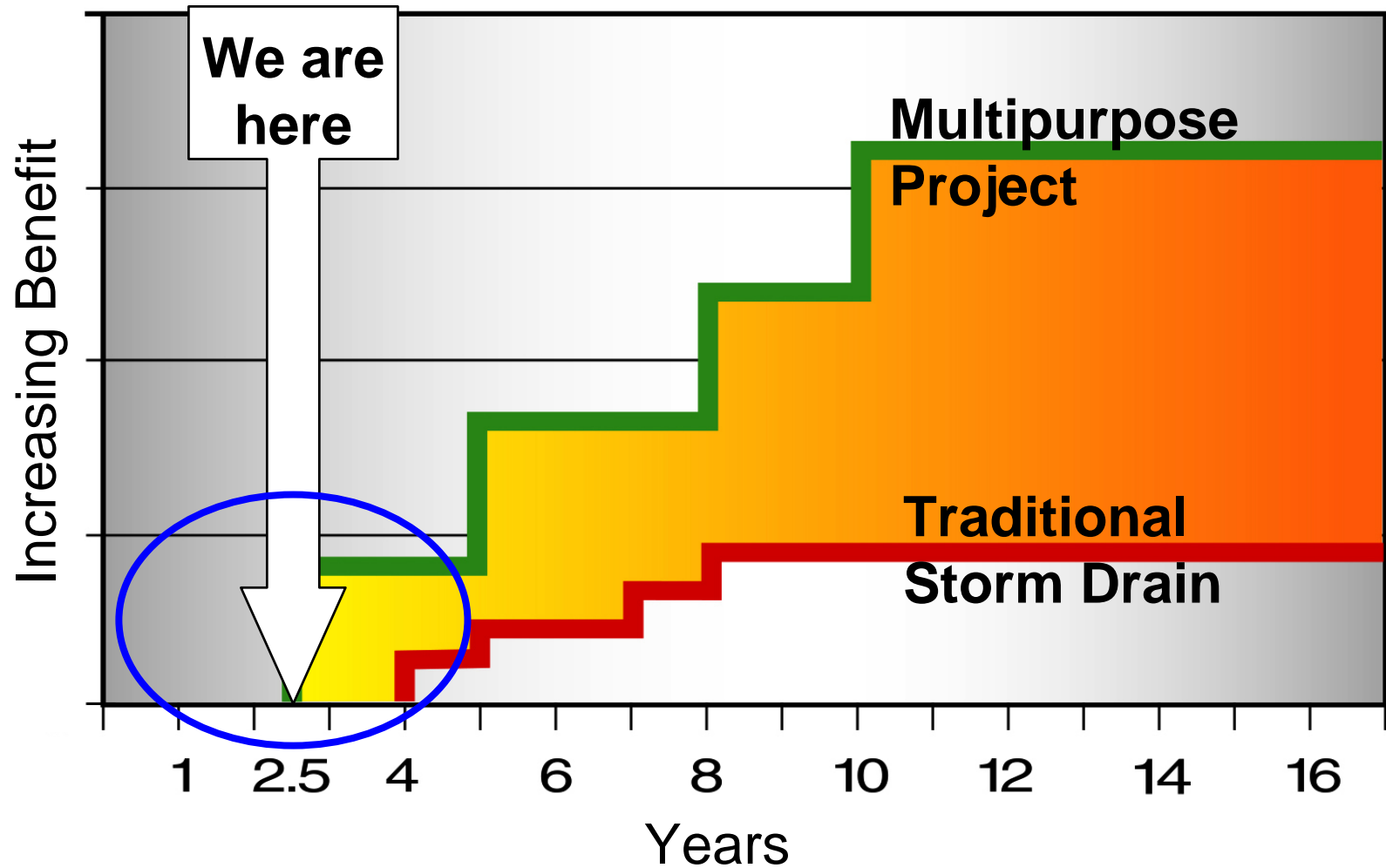
Alternative	1	2	3	4
Name	Infiltration	Water Conservation	Stormwater Reuse	10-Year Retention Basins
Description	Widely Distributed Small Projects	Maximizes Wildlife Habitat	Maximizes Stormwater Reuse for Industry	Full Conveyance with Regional BMPs
Retention Basin Size	50-Year	50-Year: Subareas 1-6 10-Year: Subareas 7-8	50-Year	10-Year
Net Volume Discharged to LA River in Capital Storm	21 acre-feet	426 acre-feet	8 acre-feet	602 acre-feet
Baseline Components				
Bradley Landfill	Yes	Yes	Yes	Yes
LADWP Steam Plant	Yes	Yes	Yes	Yes
Vulcan Gravel Processing Plant	Yes	Yes	Yes	Yes
Tuxford Green	Yes	Yes	Yes	Yes
Sun Valley Middle School	Yes	Yes	Yes	Yes
Sun Valley Park	Yes	Yes	Yes	Yes
Tree Planting and Mulching	Yes	Yes	Yes	Yes
Lateral Storm Drains	Yes	Yes	Yes	Yes
Trunk Storm Drains	Yes	Yes	Yes	Yes
Differentiating Components				
Water Transfer	No	Yes	No	No
Infiltration in Tujunga Spreading Grounds from Strathern Pit	Yes	Yes	No	Yes
Stonehurst School	Yes	No	No	No
Stonehurst Park	Yes	No	No	No
Roscoe School	Yes	No	No	No
Park on Wentworth	Yes	No	No	No
Stormwater Reuse by Vulcan from Strathern Pit	No	No	Yes	No
Sheldon Pit	No	Yes	No	No
Cal Mat Pit	No	No	Yes	Yes
Strathern Pit	Yes	Yes	Yes	Yes
Boulevard Pit	No	Alternate with Sheldon	No	No
Parking Lot Infiltration	Yes	Yes	No	Yes
Street Storage	Yes – 1.5 miles	Yes – 0.6 miles	Yes – 5.1 miles	Yes – 0.4 miles
Onsite BMPs	Yes - 2-yr Storm, 40% Participation	Yes - 2-yr Storm, 20% Participation	Yes - 50-yr Storm, 40% Participation	Yes - 2-yr Storm, 20% Participation
Powerline Easement	Yes – 1.1 miles	Yes – 0.5 miles	Yes – 0.9 miles	Yes – 0.8 miles

S u m m a r y

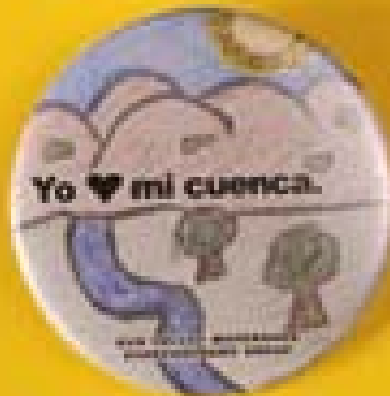
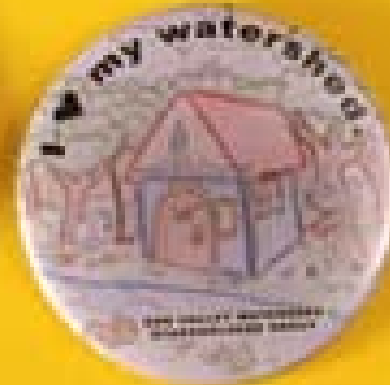
Benefit/Cost Analysis



Benefits Sooner With Multipurpose Projects



Public Outreach




Spreading The Word

Sun Valley Watershed Project:


Watershed Explorers

FIELD GUIDE

2 - 3



Explorer's Name _____



the Sun Valley Watershed Stakeholders Group

Watershed Events

Volume 1, Number 1 Spring 2001

Something Incredible is Happening in Sun Valley! **(Algo increíble está ocurriendo en 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 coordinate the various local efforts in the Sun Valley area and advise educators that would aim to conserve water, reduce pollution, improve the community and increase park space. Finding these solutions and putting them in place will require the local knowledge, ideas and support of Sun Valley residents. The purpose of this newsletter is to collect that input, and to provide progress reports and save-and-rewild news to the community.

Anyone who's lived in the area for any length of time knows that seasonal flooding is a serious problem in our area, and one that we as citizens have to help solve. For many years, the County government has worked to find the best alternatives to our drain. More recently, other solutions have been proposed that could begin addressing flood problems sooner and provide more long-term benefits.

See Inside! page 2!

Vulcan Completes Storm Measures at Area Middle School

While the Group's purpose is to develop permanent solutions in local flooding, we recognize that there are related problems which require immediate solutions. One example is the impartment of school access by storm flooding. Rain-water runoff problems have been a particular headache for parents, children and teachers at Sun Valley Middle School. Flooding in the drop-off area along Belmont 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 forms and gravel in the area, reduce and control a semi-annual deluge that gets cars past the drainage water in a dry high event. Though the need for flood zones had been discussed at committee meetings for several months, it took an all-night meeting could be done before the time began. Vulcan grabbed the ball and ran with it, finishing the floodway in record time. A month's time later was donated by Vulcan, so there was no cost to citizens or the school district. Thank you, Vulcan Materials!

See Inside! page 2!

The mission of the Sun Valley Watershed Stakeholders Group is to advise the local decision makers while retaining all non-water control from the watershed, increasing water conservation opportunities, and reducing non-water runoff.

La misión del Grupo de Interesados de la Cuenca de Sun Valley es asesorar a los responsables locales y a la escuela de manera que las aguas de lluvia en la cuenca conserven el agua, creen oportunidades para áreas de recreo, florecen y reducen la contaminación.

Su cuenca... Your watershed...



control de inundación flood control

mejoramiento de hábitat habitat enhancement

parques y espacio abierto parks & open space

recarga de aguas subterráneas groundwater recharge

reducción de contaminación pollution reduction

el proyecto de cuenca de SUN VALLEY & the SUN VALLEY Watershed Project

community greening

In-School Education

Newsletters

Educational Brochures

www.sunvalleywatershed.org

LOS ANGELES WATERSHED MANAGEMENT <previous
COUNTY @SunValleyHome

Sun Valley Watershed

Home Meetings/Events Get Involved Demo Sites/Phase 1 Projects Stakeholders
Timeline/Decisions Resources Project Funding Newsletters FAQs

Welcome to SunValleywatershed.org!

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.

Notice of Preparation
Initial Study

There's something exciting going on in Sun Valley! A serious effort to solve the area's chronic flooding problem is underway, but that's not the half of it. Planners envision a solution that will bring many other benefits to the community as well. The implementation here of what's known as a "watershed approach" to urban environmental problems could focus regional and national



Flooding is a serious problem in Sun Valley; the San Fernando/Tuxford intersection is one of the perennial trouble spots.

Lose it. Or use it.

Floodwater is a resource.



Get with the Sun Valley Watershed Project.

Help us make it happen
at www.sunvalleywatershed.org, or
call 626.458.4300 to get involved.

