Crescenta Valley County Park Multi-use Project

Presented by
Crescenta Valley Water District

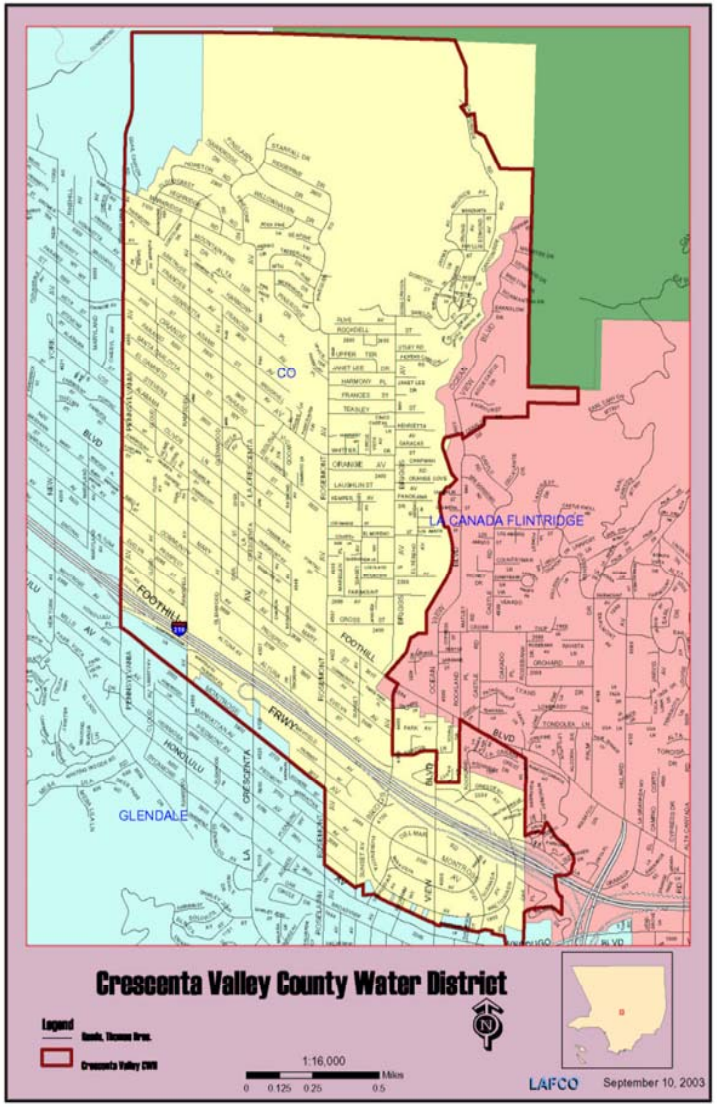
February 24, 2009

Project Scope

- **Storm Water Recharge**
  - Capture storm water at Crescenta Valley Park to recharge the Verdugo Basin to maintain groundwater levels
- **Water Conservation Education**
  - Utilize an area of the park for a water conservation demonstration garden
- **Upgrading Parking Lot for Zero Runoff**
  - Reconfigure parking area to capture storm water on-site and reduce to zero runoff

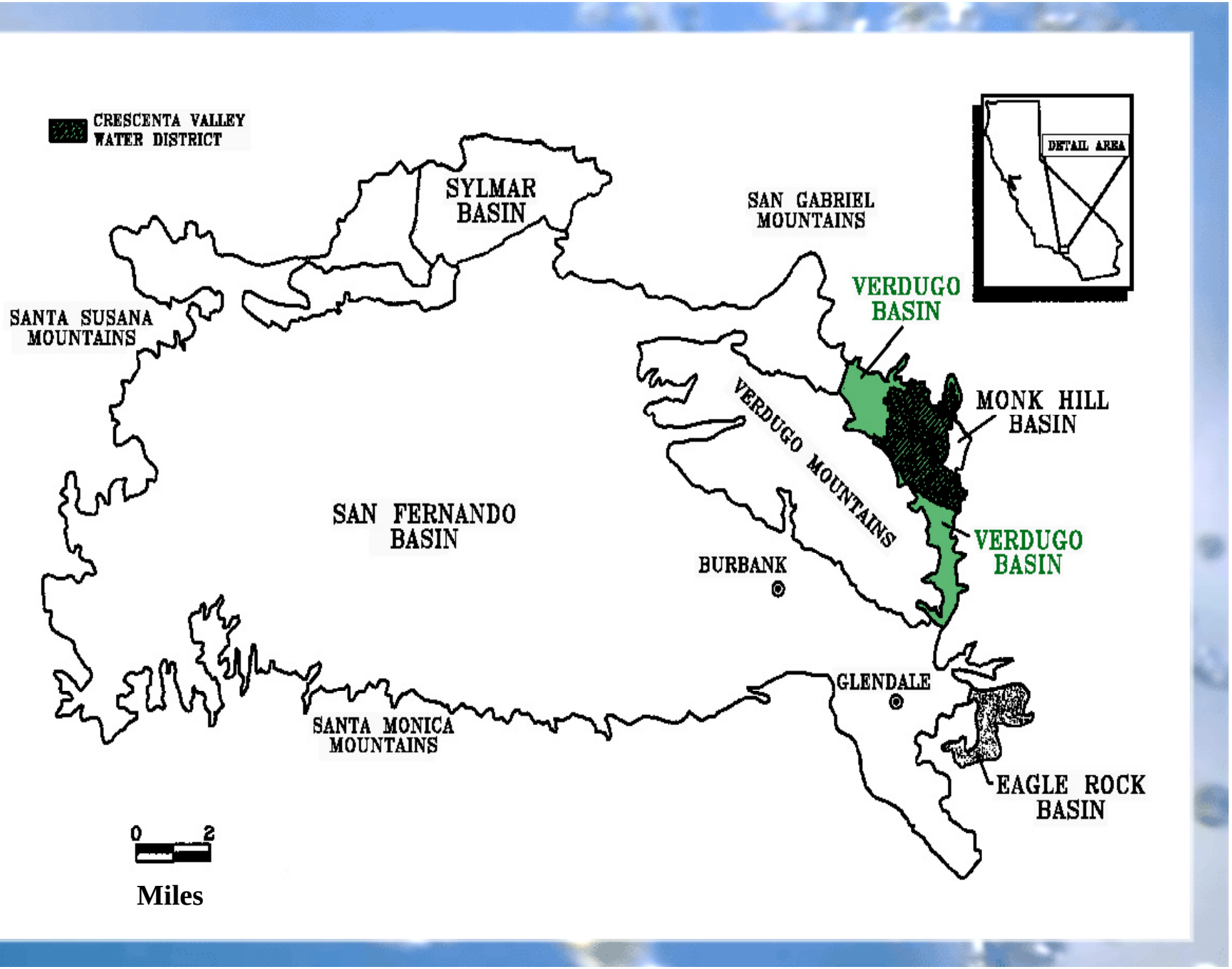
Crescenta Valley Water District

- CVWD formed - 1950 as "County" Water District
- Provides water & sewer service to 32,000 residents with 8,000 connections
- Serves La Crescenta and portions of La Canada Flintridge, Glendale and Montrose



Stakeholders

- Crescenta Valley Water District
- City of Glendale
- Los Angeles County, Department of Parks & Recreation
- Los Angeles County, Department of Public Works, Watershed Division
- ULARA Watermaster's Office
- Los Angeles and San Gabriel Watershed Council
- Crescenta Valley Town Council


CRESCENTA VALLEY WATER DISTRICT
SYLMAR BASIN
SAN GABRIEL MOUNTAINS
DETAIL AREA
VERDUGO BASIN
SANTA SUSANA MOUNTAINS
MONK HILL BASIN
VERDUGO MOUNTAINS
SAN FERNANDO BASIN
VERDUGO BASIN
BURBANK
GLENDALE
SANTA MONICA MOUNTAINS
EAGLE ROCK BASIN
0
2
Miles

CVWD Water Supply Sources

Local Groundwater – Verdugo Basin

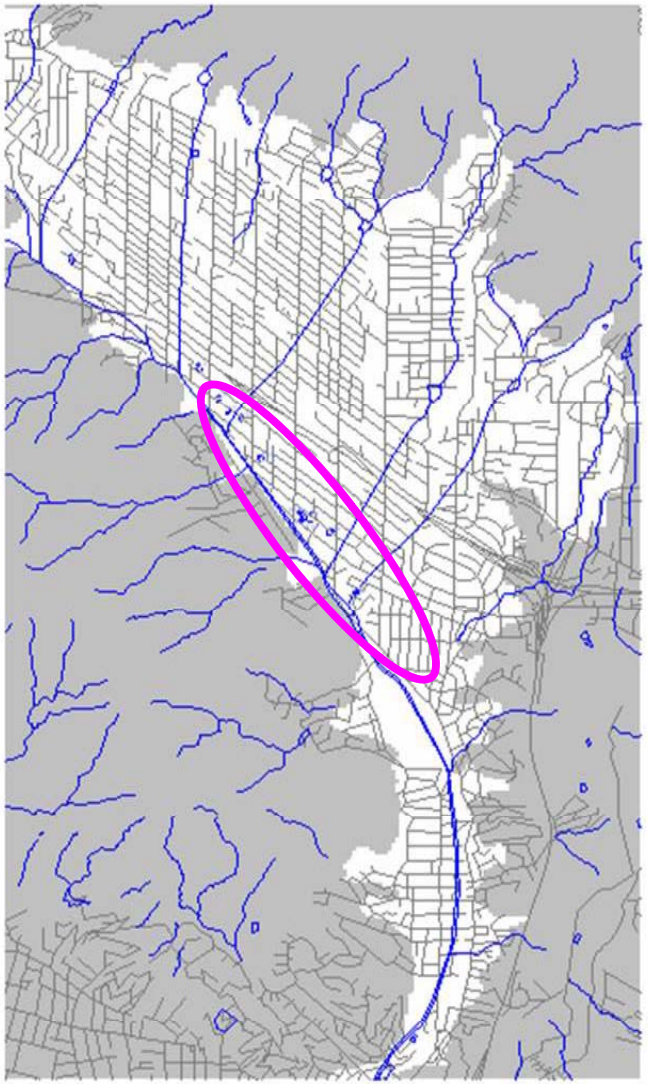
- 12 GW wells located along Verdugo Wash
- Provides 4.0 MGD max
- Today – 60% of water demand
- Dry Years – 50% of water demand

Imported Water – FMWD/MWD

- Provides 5.9 MGD max
- Today - 40% of water demand
- Dry Years – 50% of water demand

Groundwater Cost - $300/ac-ft

FMWD Cost - $960/ac-ft



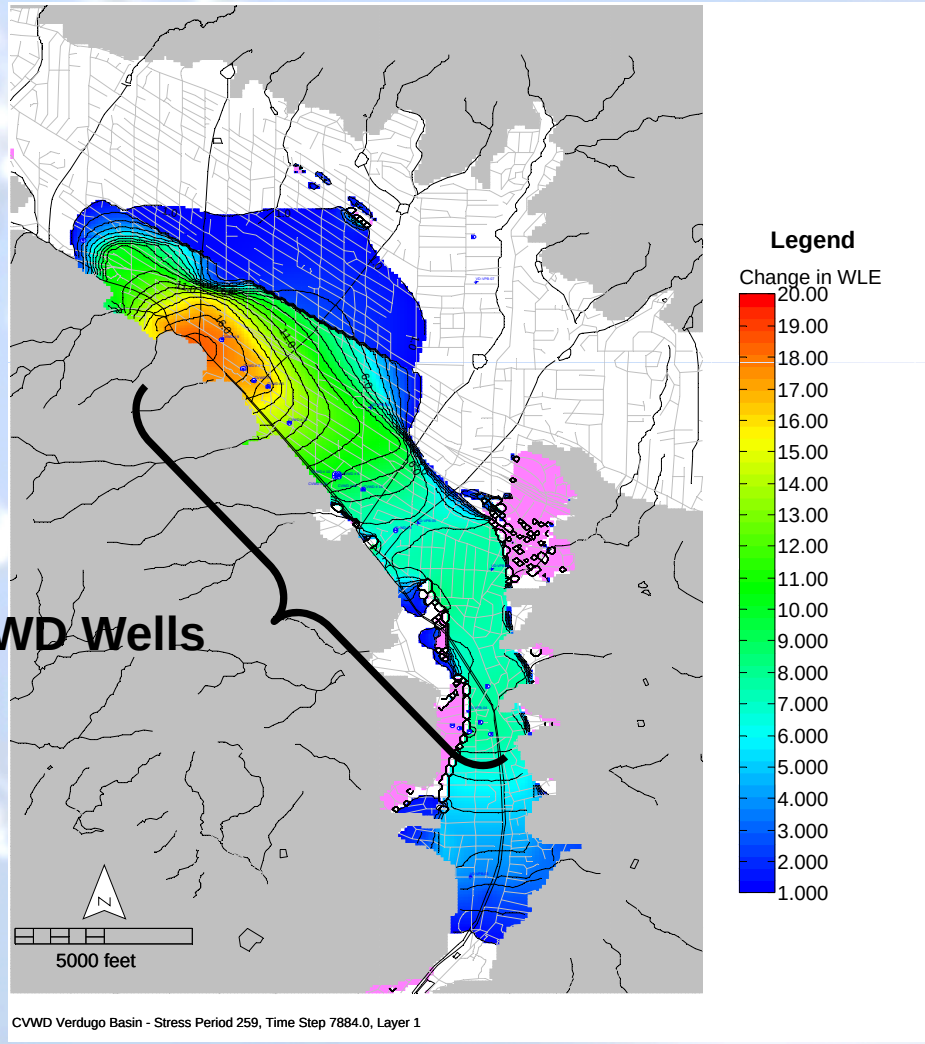
Preliminary Studies

- **CVWD received three (3) AB 303 grants for $785,000 from DWR**
  - **2003 - Installed 3 Monitoring Wells**
  - **2005 - Verdugo Basin Recharge and Conjunctive Use Study**
  - **2006 - Geophysical Study of the Verdugo Basin**

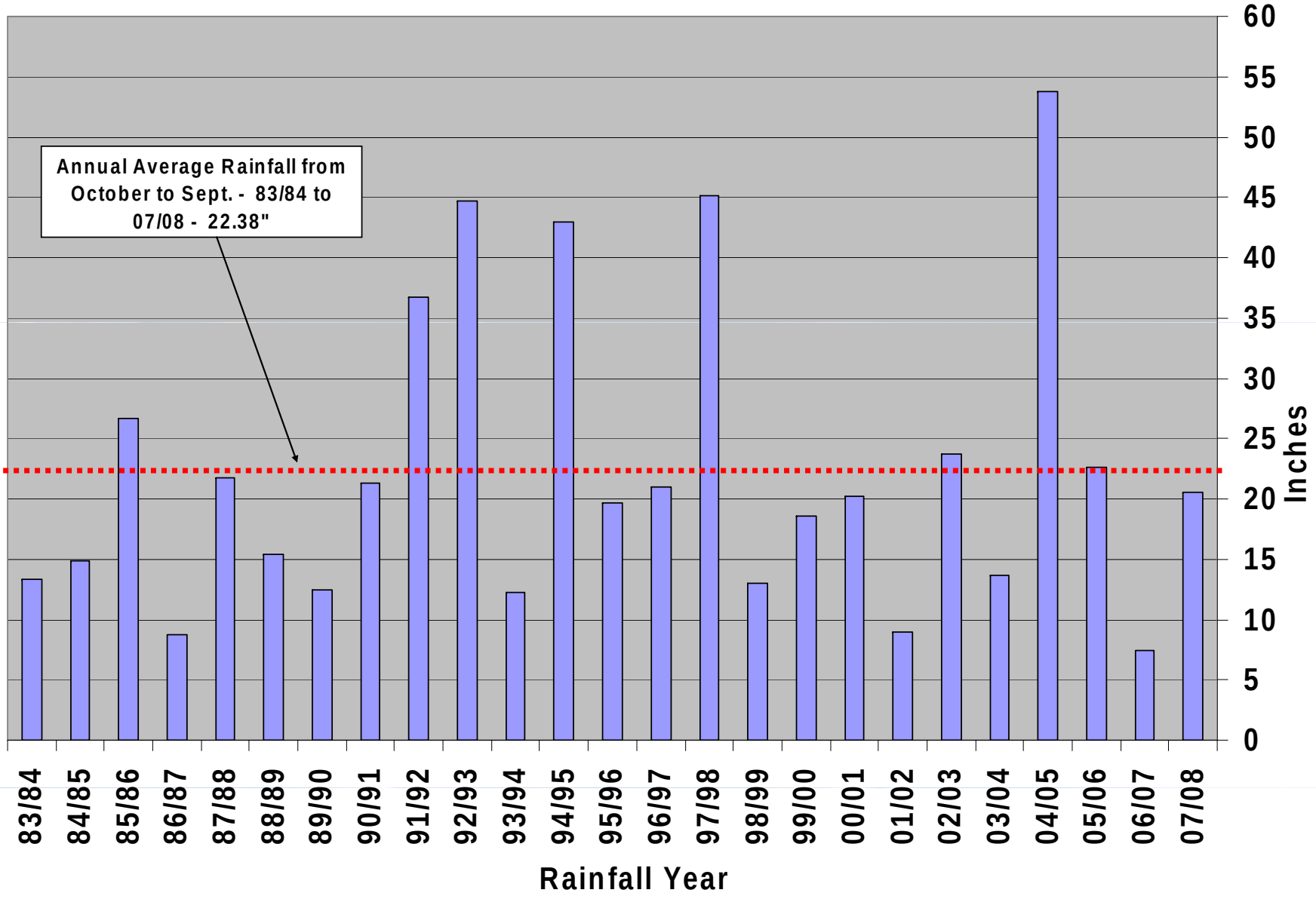
Storm Water Recharge

Crescenta Valley County Park:

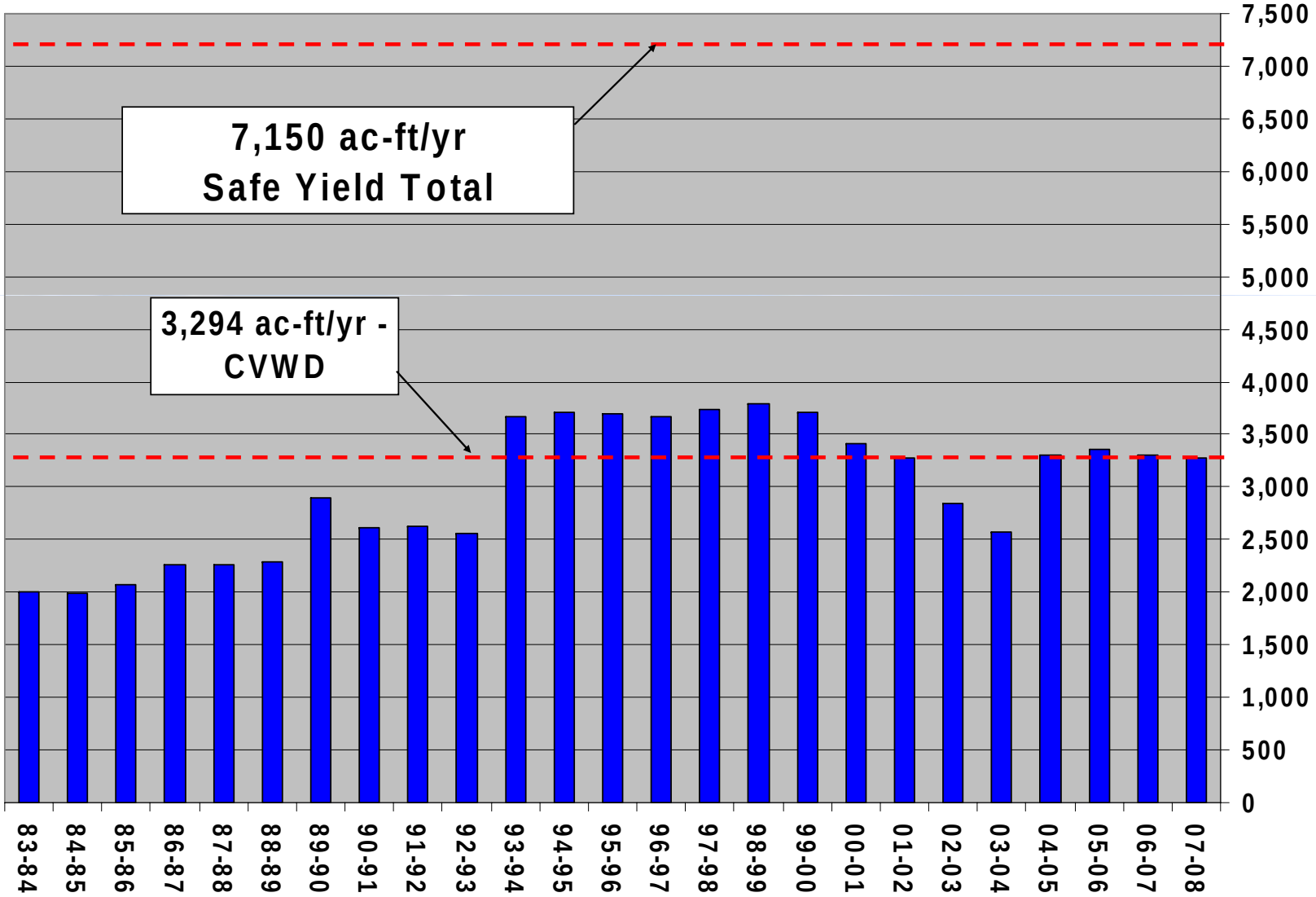
- Starting in April 1984
- Recharge about 340 AF/Yr over about 40 acres at CV Park
- GWL increased by 20 feet in recharge area
- GWL increased from 5 to 18 feet in well field area
- Based on April 1984 to Dec 2002 water levels:

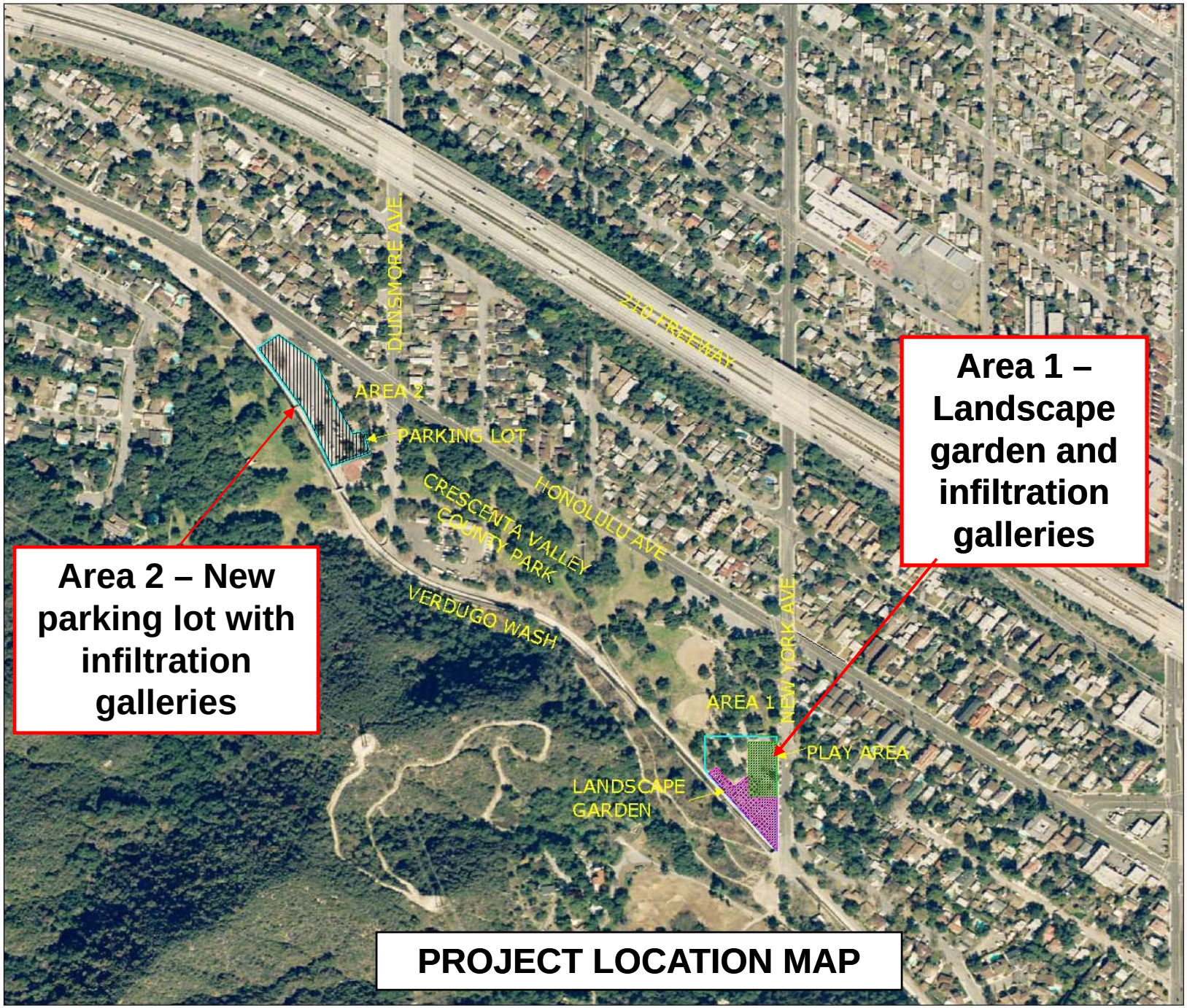


Crescenta Valley Water District
Annual Rainfall Total - 1983/84 through 2007/08



Crescenta Valley Water District
Groundwater Production - 83/84 to 07/08 (ac-ft/yr)





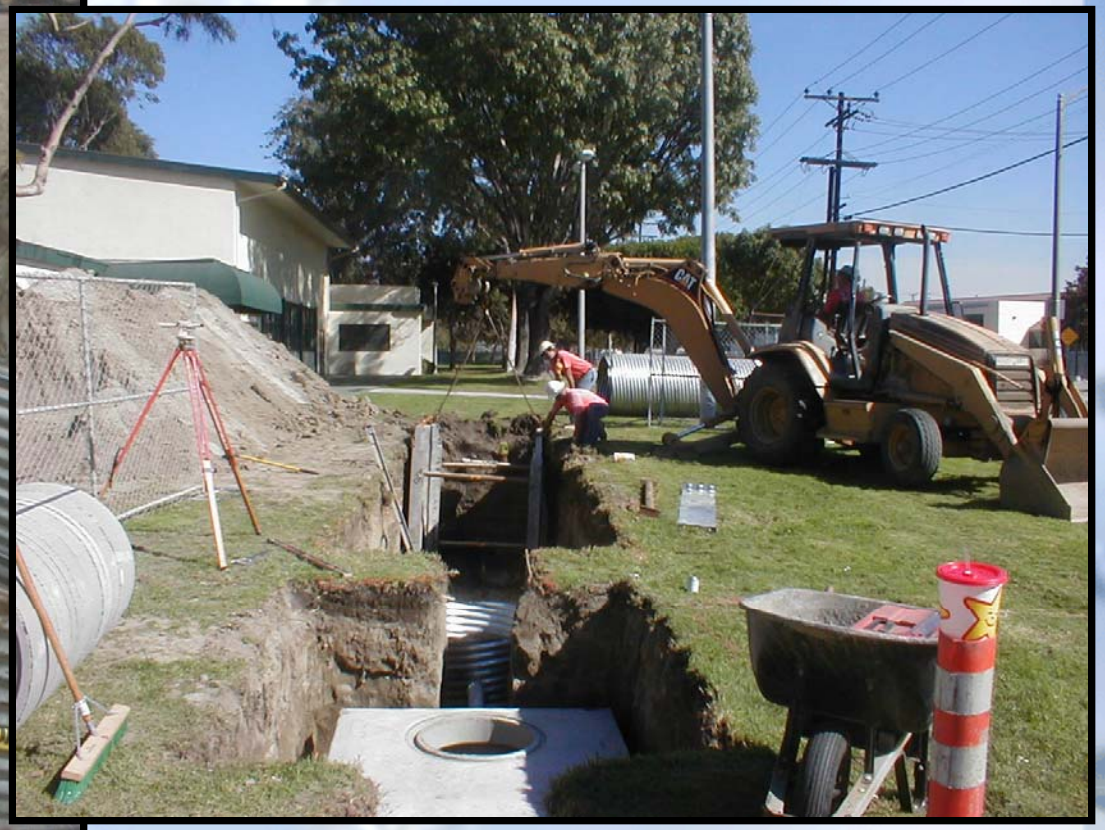
PROJECT LOCATION MAP

Crescenta Valley County Park

Dunsmuir Channel

Verdugo Wash

Infiltration Galleries



Water Conservation Demonstration Garden

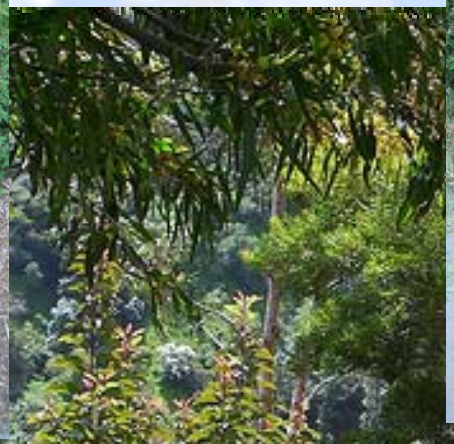
Area 1:

- Restoration with native and heritage plants garden
- Provide examples of water conservation for the local community

Area 2:

- Redesigned to incorporate native landscaping into large parking area
- Capture surface water to achieve 0% runoff to the channel

Water Conservation Demonstration Garden



Project Schedule

Task	Start Date	End Date
Preliminary Planning	June 2009	October 2009
CEQA - Environmental Assessment	August 2009	January 2010
Preliminary Design	January 2010	July 2010
Final Design	July 2010	December 2010
Bidding	December 2010	February 2011
Start Construction	February 2011	March 2011
End Construction/ Project Closeout	March 2011	October 2011

Crescenta Valley Water District

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Preliminary Cost Estimate

Area 1	Quantity		Unit Cost	Cost
Infiltration Galleries	1	LS		$909,500
Play Area	1	LS		$216,000
Landscape Area	1	LS		$100,500
Subtotal				$1,226,000
Area 2	**Quantity**		**Unit Cost**	**Cost**
Infiltration Galleries	1	LS		$661,000
Parking Area	1	LS		$94,750
Landscape Area	1	LS		$118,250
Subtotal				$874,000
Construction Subtotal				$2,100,000
20% Contingency				$420,000
Construction Total				$2,520,000
Planning/Design & Construction Management				
Conceptual Planning	1.5%			$37,800
CEQA	1.0%			$25,200
Survey	2.0%			$50,400
Soils Engineer	3.0%			$75,600
Engineering	7.5%			$189,000
Construction Management	5.0%			$126,000
Contingency	7.8%			$196,000
Total Planning/Design & Construction Management				$700,000
Total Cost Estimate				$3,220,000

GEOMATRIX

Project Status

- **Conceptual Concept – needs to be discussed further with stakeholders**
- **Funding – cost sharing by stakeholders and through IRWMP grant**
- **The benefits include:**
  - **Capturing storm water to benefit the Verdugo Basin**
  - **Utilizing portions of the park for public education**
  - **Reducing runoff and pollutants from the park**
- **Project is not a benefit for disadvantaged community**

Questions and Comments