

# CVSP Water Supply Evaluation

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Background

Existing Conditions

Projected Demand and Potential Water Sources

Potable and Non-Potable Water Supply Alternatives

Next Steps/Process

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CVSP Task Force

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## Water Supply Evaluation - Background

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- ◆ Purpose of California Senate Bill 610 (SB 610):
  - Improve linkage between available water supplies and local land use decisions.
  - Promote collaborative planning between water suppliers/wholesalers and local jurisdictions.
  - Is the projected water supply sufficient or insufficient for the proposed project [CVSP]?
- ◆ SB 610 requires detailed water availability information be included in CEQA documentation and provided to decision-makers prior to approval of specified large development projects.

## **Water Supply Evaluation - Background**

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### **Santa Clara Valley Water District's (SCVWD) Role**

- ◆ SCVWD acts as CEQA “Responsible Agency” for certain aspects of the Coyote Valley Specific Plan (i.e., operation of the water supply facilities system).
- ◆ SCVWD manages the Coyote Valley Groundwater Sub-basin to maintain long term stability and preserve local water resources.
- ◆ SCVWD is the primary wholesaler for the water supply in Santa Clara County.
- ◆ SCVWD participates in selecting a preferred alternative for water supply to ensure consistency with the long-term planning goals for the County.

## Water Supply Evaluation - Background

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### SCVWD's Guiding Principles for CVSP

- ◆ To ensure that a reliable supply of high-quality water is provided to the residents and businesses within the Coyote Valley Specific Plan area and the rest of Santa Clara County.
- ◆ To aggressively protect groundwater resources from contamination and the threat of contamination.
  - The Coyote Valley Sub-basin is shallow and sensitive to contamination.
  - Measures must be taken to insure groundwater protection.

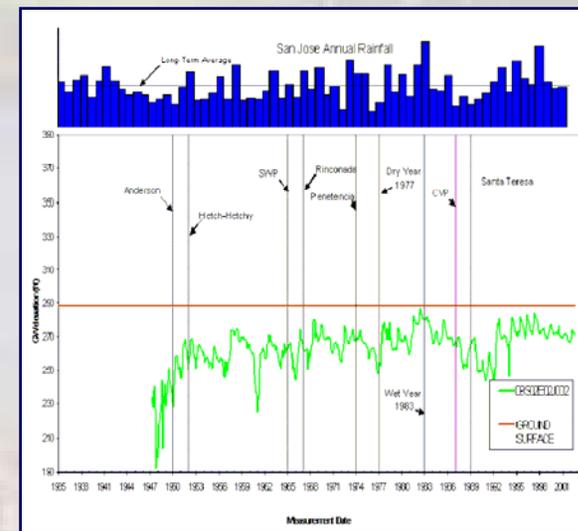
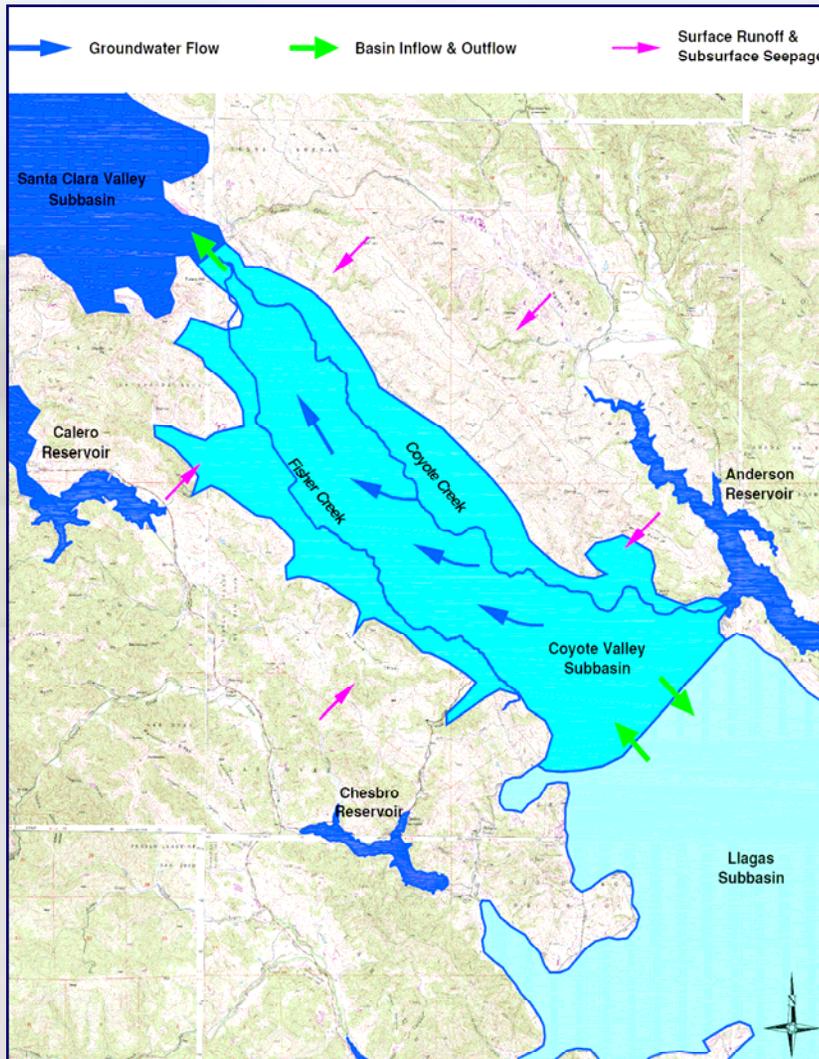
## Water Supply Evaluation - Background

- ◆ Three public water systems that could potentially serve water in Coyote Valley have prepared SB610 Water Supply Assessments (WSAs), which will be included as appendices in the City's Water Supply Evaluation document.
  - San Jose Water Company
  - City of San Jose Municipal Water Department
  - Great Oaks Water Company
- ◆ City has coordinated with SCVWD to prepare a neutral evaluation of the water supply situation using information provided by the three public water systems and the District's 2005 Urban Water Management Plan (UWMP).
- ◆ To meet the requirements of Senate Bill 610, a public water system must demonstrate an adequate supply of water to the project over the next 20 years. (2030 is the planning horizon.)

## Water Supply Evaluation – Existing Conditions

- ◆ All potable water used in Coyote Valley is pumped from groundwater stored in the Coyote Sub-basin.
- ◆ The Coyote Sub-basin is currently in rough balance, meaning the amount of water flowing out of the basin is approximately equal to the amount of water flowing into the basin and water levels are stable.
- ◆ The Santa Clara Valley Water District manages releases of stored water from Anderson Reservoir to maintain the basin stability.

# Water Supply Evaluation – Existing Conditions



## Water Supply Evaluation – Projected Demand

### Coyote Valley Water Demand, In Acre-Feet per Year (AFY)

Area	Existing	Forecasted Build-Out	Demand Increase
Coyote Valley Urban Reserve & North Campus Industrial Area Residential and Employment Demands	2,800	11,900	9,100
Outside of Plan Area (Morgan Hill Sphere of Influence)	2,000	2,000	---
Coyote Valley Greenbelt	2,100	4,000	1,900
Metcalf Energy Center Potable Demand	400	600	200
<b>TOTAL</b>	<b>7,300</b>	<b>18,500</b>	<b>11,200</b>

## Water Supply Assessment – Projected Demand

### Coyote Valley Potable and Non-Potable Water Demands

	Total Water Demand (afy)	Non-Potable Water Demand (afy)	Potable Water Demand (afy)
Coyote Valley Urban Reserve & North Campus Industrial Area Residential and Employment Demands	11,900	2,000	9,900
Outside of Plan Area (Morgan Hill Sphere of Influence)	2,000	400	1,600
Coyote Valley Greenbelt	4,000	1,900	2,100
Metcalf Energy Center *	600	0	600
<b>TOTAL</b>	<b>18,500</b>	<b>4,300</b>	<b>14,200</b>

\*Up to 4,000 afy Recycled Water Currently Provided to MEC

## Water Supply Evaluation – Projected Demand

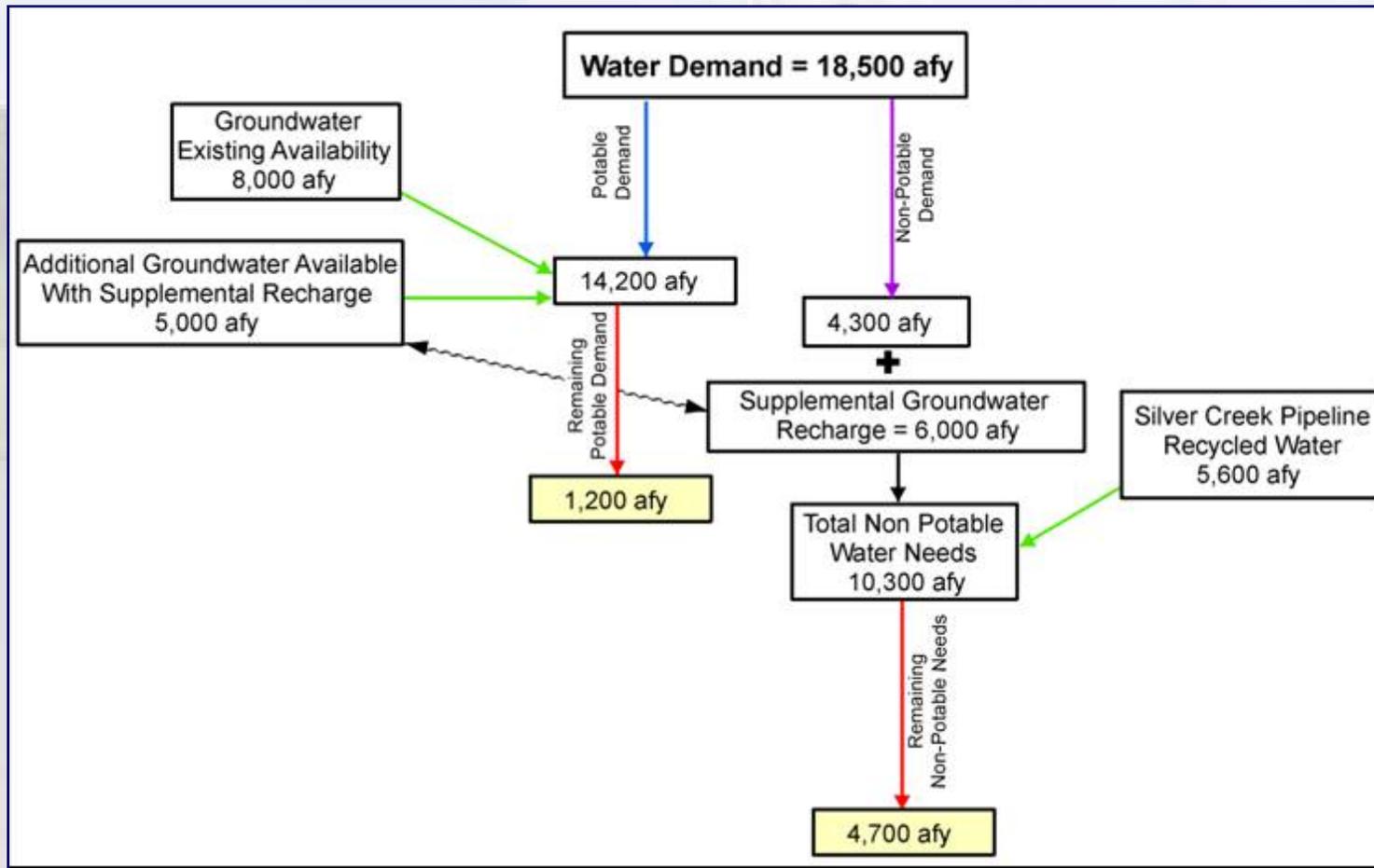
- ◆ The SCVWD 2005 Urban Water Management Plan (UWMP) has accounted for 18,500 acre-feet per year CVSP demand.
- ◆ The UWMP concludes that water supply will be able to meet projected county-wide water demands through 2030 for normal, single dry, and multiple dry years through a combination of techniques including:
  - Significant investment to preserve and protect existing supplies while developing new supplies;
  - Implementing strategies with a high degree of reliability through near term investments that are cost-effective, environment-friendly, and flexible, with no major capital construction;
  - Water conservation; and
  - New investments in recycling, desalination, and/or storage.

## Water Supply Evaluation - Potential Sources

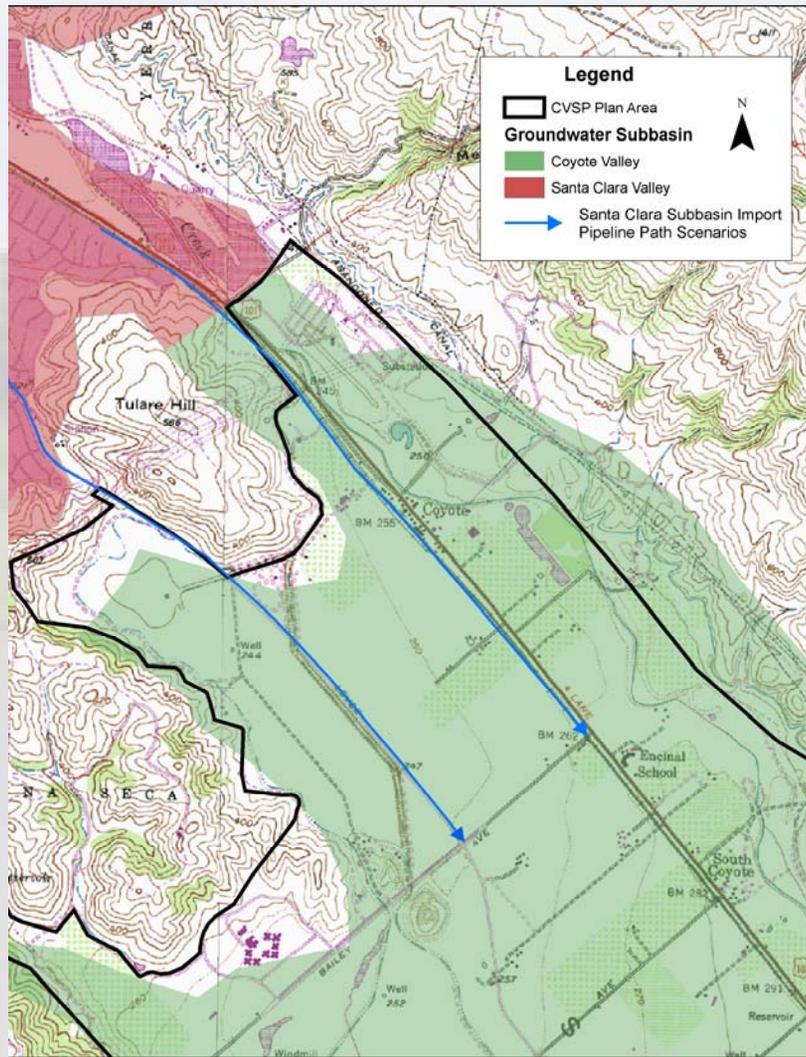
- ◆ Groundwater
  - Primary near term source.
  - Increased extraction from Coyote Sub-basin with additional recharge and supply.
  - Use of managed Santa Clara Sub-basin groundwater reserves with mitigation.
- ◆ Recycled Water
  - Longer term solution.
  - Expansion of fully advanced treated recycled water for potable use through recharge and direct non-potable use.
- ◆ Water conservation - aggressive implementation.
- ◆ Surface water utilization – facilities expansion.

## Water Supply Evaluation – Potential Sources

How will water be distributed to Coyote Valley while maintaining stable groundwater levels?



## Potable Water Alternatives

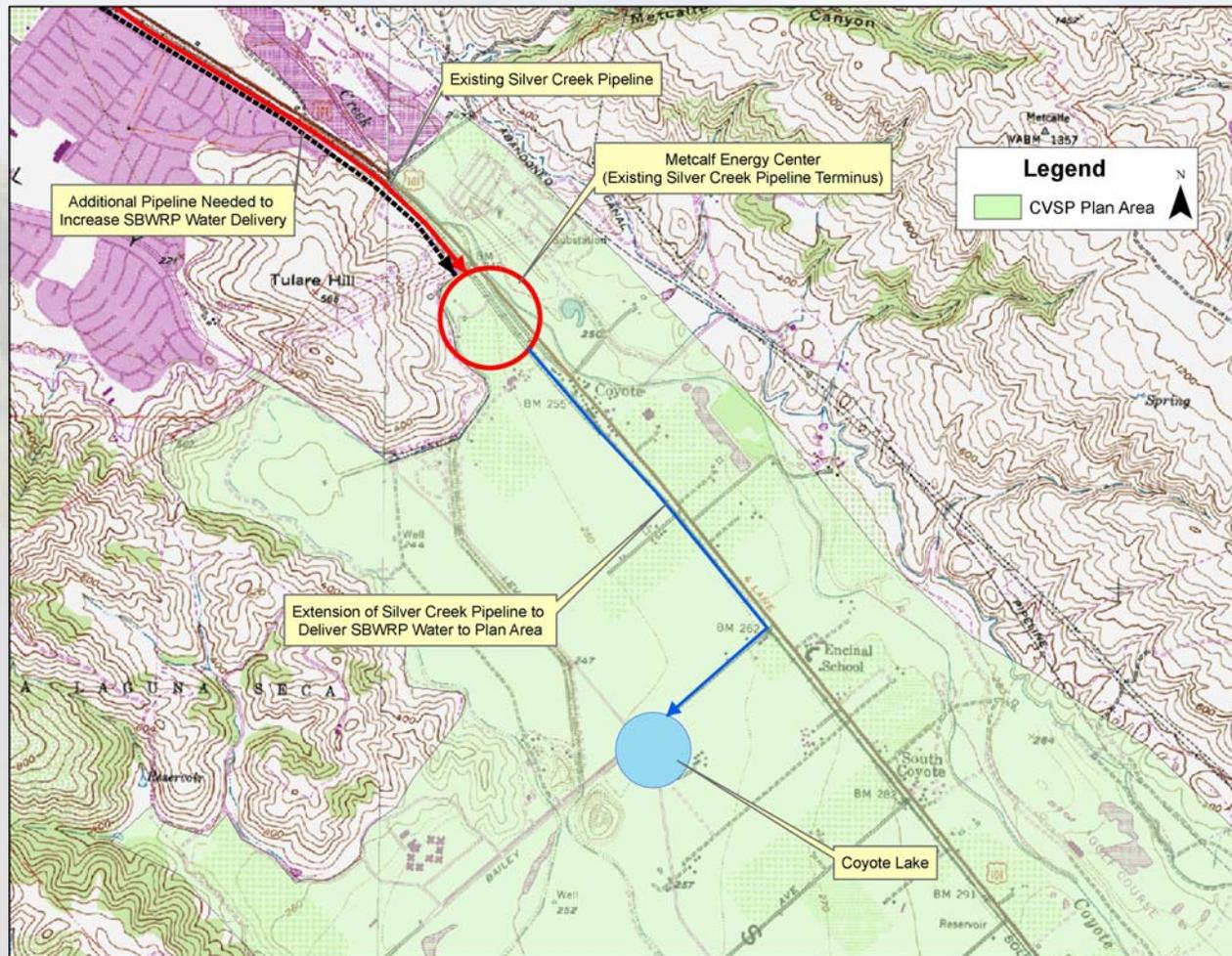


**Santa Clara Basin Storage  
350,000 acre-feet**

**Coyote Valley Basin Storage  
25,000 acre-feet**

# Non-Potable Water Alternatives

## Expansion of South Bay Water Recycling Program



## Water Supply Evaluation – Next Steps

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- ◆ Potential implications of pending November 2006 ruling by California Supreme Court in *Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova*.
- ◆ Water Supply Evaluation reviewed by SCVWD Board for endorsement.
- ◆ Final Water Supply Evaluation presented to City Council for approval.
  - City Council will not select public water systems for Coyote Valley.
- ◆ Final Water Supply Evaluation, the three WSAs, and relevant findings will be included in CVSP CEQA documents.