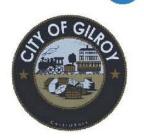
DRAFT 2015 South County Recycled Water Master Plan Update











Item # 11
AGENDA DATE: 03/02/16
PRESENTATION

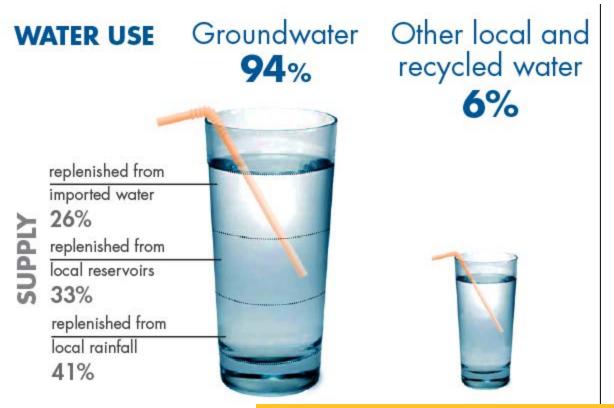
Overview

- ■Water Supply South County
- ☐ South County Recycled Water Master Plan
 - ✓ Draft 2015 Master Plan Update
- □ Next Steps

Water Supply -Santa Clara County (South)

Groundwater = Primary Water Supply

South County Water Supply and Use (2005 – 2015)



Recycled Water Benefits South County

2015 South County Recycled Water Master Plan Update

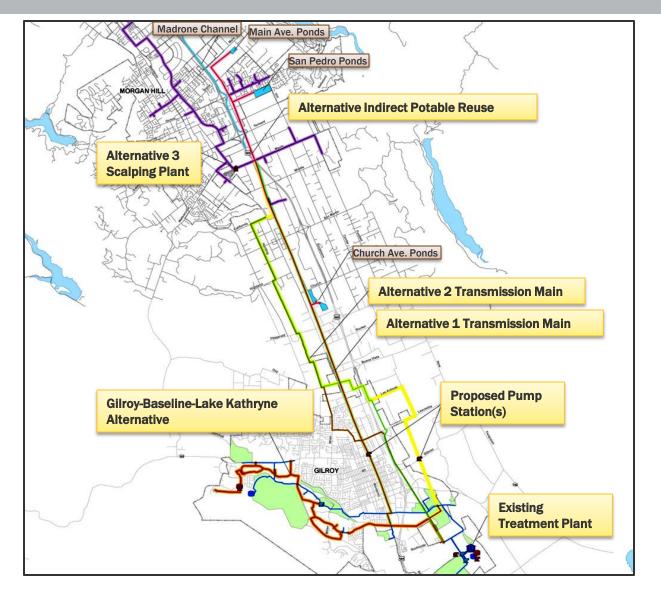
- □Update to 2004 Master Plan
- □ Further evaluate options for recycled water expansion
- ☐ Assess potable reuse options
- □Perform a system reliability study



City of Morgan Hill Alternatives

- □ Alternative 1 MH High Speed Rail Transmission Main
- ☐ Alternative 2 Joint Trunk Transmission Main
- ☐ Scalping Plant
- ☐ IPR

Morgan Hill Alternative - Transmission Main





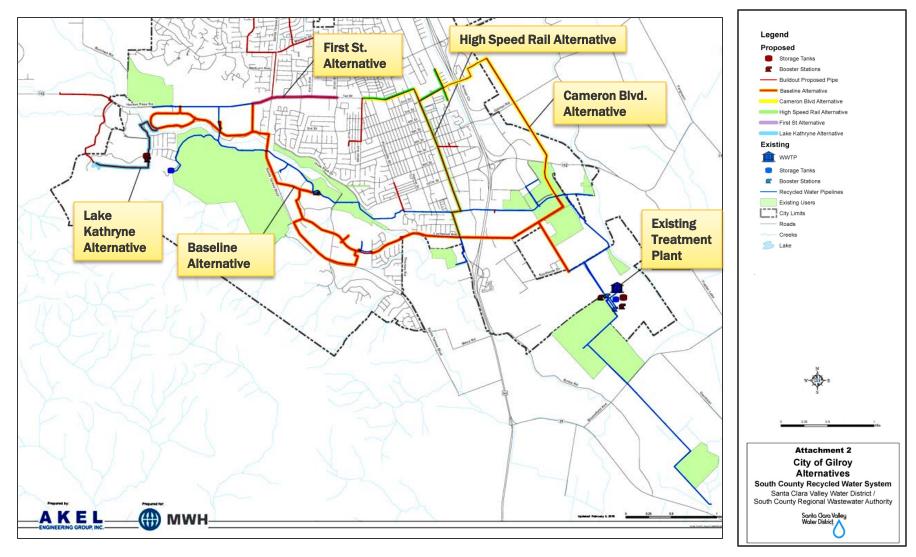
Alternative Evaluation - Morgan Hill

Alternative Morgan Hill - Alternative 1 and 2 (Transmission Main)	 Advantages Service to Morgan Hill Dual use opportunity for NPR/IPR (up to 8.5 MGD). Alternative 2: Potential for joint construction with Morgan Hill sanitary sewer project 	 Disadvantages Cost: [\$2,800-\$4,000]/acre-foot supply Alternative 1: Land and easement acquisition tied to future railroad project
Scalping Plant Alternative	 Service to Morgan Hill Dual use opportunity for NPR/IPR (up to 2.5 MGD) 	 Cost: [\$7,400-\$8,000]/acre-foot supply Inability to meet existing customer demands due to reduced WWTP influent during peak demand periods. Inadequate flow in sewer collection system could create odor and clogging problems. Resulting sludge loading and reduced flow could substantially change composition of WWTP influent potentially leading to compliance issues.

City of Gilroy Alternatives

- □ Baseline Alignment Refined 2004 Master Plan Recommendation
- ☐ First Street Alignment
- ☐ Lake Kathryne Alignment
- ☐ High Speed Rail Alignment
- ☐ Cameron Boulevard Alignment

Map of Gilroy Alternatives



Evaluation Results

	Potential Annual Average Demand (acre-foot)	Market Assessment Average Score [1 to 25]	Cost * (Dollar / acre-foot)
Gilroy			
■ Baseline Alignment (Recommended)	914	16	2,600
☐ First Street Alignment	79	13	
	766	22	2,200
☐ High Speed Rail Alignment	319	12	
☐ Cameron Boulevard Alignment	319	12	
Morgan Hill			
☐ Transmission Main + Distribution Main	[494 – 797]	[11 – 13]	[2,800 – 4,400]
☐ Scalping Plant (1 MGD) + Distribution Main	[378 - 494]	[11 – 13]	[7,400 – 8,000]

^{*} Uninflated costs over a span of 30 years.

Next Steps

- ☐ Encourage Public feedback through April 15, 2016
- ☐ Finalize master plan update by June 30, 2016

Santa Clara Valley Water District Recycled & Purified Water Unit

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Santa Clara Valley Water District **South County Regional Wastewater Authority**

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Recycled Water Feasibility Evaluation

March 2, 2016



