Water Supply Measures Reconnaissance Study

Lower Santa Clara River WCVC Meeting July 23, 2015

Reconnaissance Study Process

- Initial Data Review ☑
- Groundwater Basin Modeling ☑
- Concept Development ☑
- Concept Screening ☑
- Draft Report ☑
- Final Workshop ☑
- Final Report ☑

Concept Screening

Screening Criteria	Recharge with Recycled Water	Aquifer Storage and Recovery	Enhanced Stormwater Capture	Pumping Redistribution
Meet Study Objectives Reliably	High	Medium	Medium	Medium
Cost and $/af	Medium	High	Low	Medium
Phasing	High	High	Medium	Medium
Institutional	Low	High	Medium	Low
Other	Medium	High	Medium	Medium

Recommendations and Conclusions

Recommended Projects for Further Development

- Groundwater recharge of the alluvial aquifer with recycled water and delivery to nonpotable customers
- Aquifer storage and recovery of imported water

Opportunity Projects

- Enhanced storm water capture
- Pumping redistribution

Future Projects

- Full advanced treatment (FAT) of recycled water at one or both of the Valley's WRPs
- Expanded treatment of contaminated groundwater

Implementation

Groundwater Recharge with Recycled Water

- Perform a feasibility and siting study of recharge basins, extraction wells (as part of RWMP update)
- Develop and execute an outreach plan
- Prepare a facility plan
- Prepare permitting and engineer's report
- CEQA compliance
- Title 22 engineering report
- Other permits (e.g. ACOE, Fish and Wildlife)
- Design and construction

Implementation (cont'd)

Aquifer Storage and Recovery

- Perform a feasibility and siting study of recharge basins, extraction wells
- Facility plan
- Permitting and engineer's report
- CEQA compliance
- Design and construction

Other Tasks

Both Projects

- Institutional arrangements
- Grant, loan and partner funding
- Evaluate integration with full advanced treatment of recycled water