

Silver Lake Reservoir Complex Storage Replacement Project

Bypass Pipeline Construction & Water Restoration Update
Community Meeting - September 20, 2016



Overview

- SLR Bypass Project Update
- Water Sources to Restore Water to Reservoir
- Reservoir Improvement Options
- Q&A
- Next Steps

Bypass Project

Construction Activity Overview

Pipeline installation in West Silver Lake Drive (Work Area 1 and Work Area 2)	Completed
Pipe connection to RSC4 (Armstrong Ave & West Silver Lake Drive)	Completed
Restoration of West Silver Lake Drive (Back to Two-Way Traffic)	Completed
Drink down Silver Lake Reservoir (Filtered & Treated 168MG)	Completed
Regulator Station	In Progress Sept 2015 – Late 2016
Work in the Silver Lake Reservoir Bottom	In Progress Dec 2015 – Late 2016
Tree Planting and Restoration of Trailer & Parking Area	Late 2016 / Early 2017
Shade Ball Removal	Jan/Feb 2017

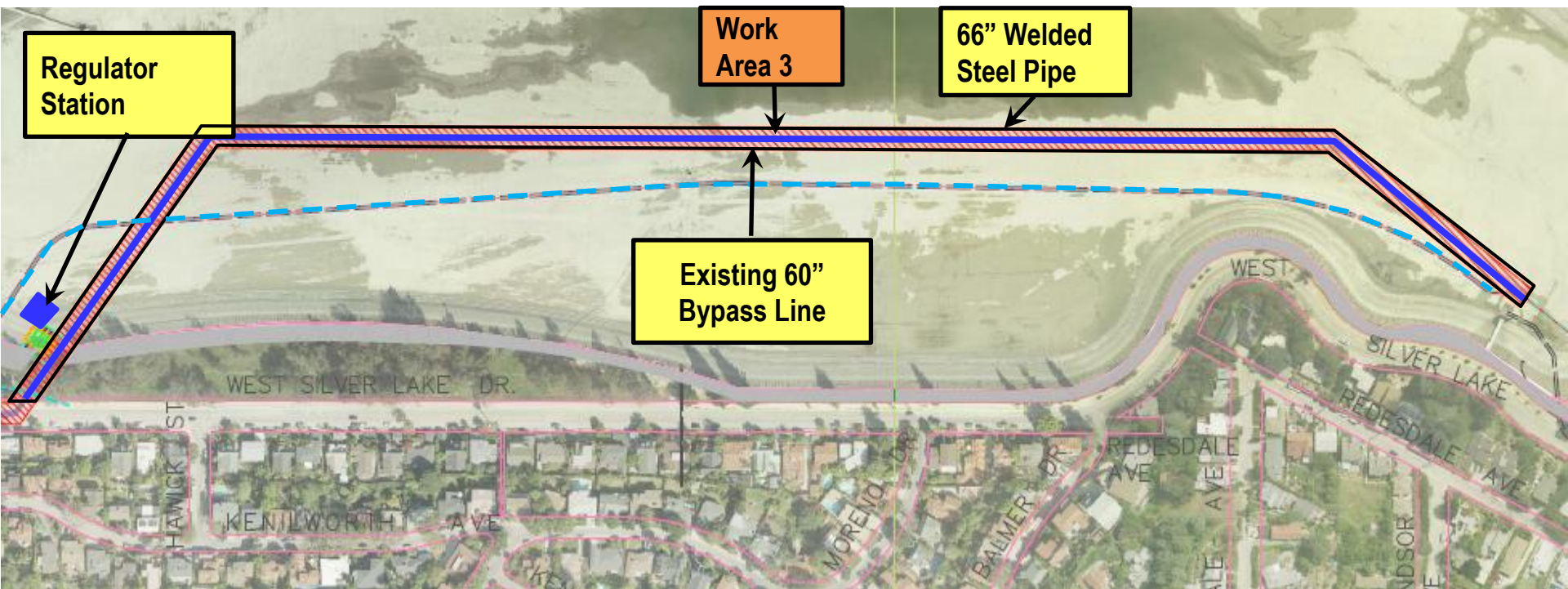


Construction Progress



Construction Status

Regulator Station & Pipeline Installation Within Reservoir



- Silver Lake Reservoir emptied for approximately 12 months during construction
- 3,000 feet of pipeline along the bottom of the Silver Lake Reservoir (**98% Complete**)
- Construction of the regulator station on the north west bank of Silver Lake Reservoir (**75% Complete**)

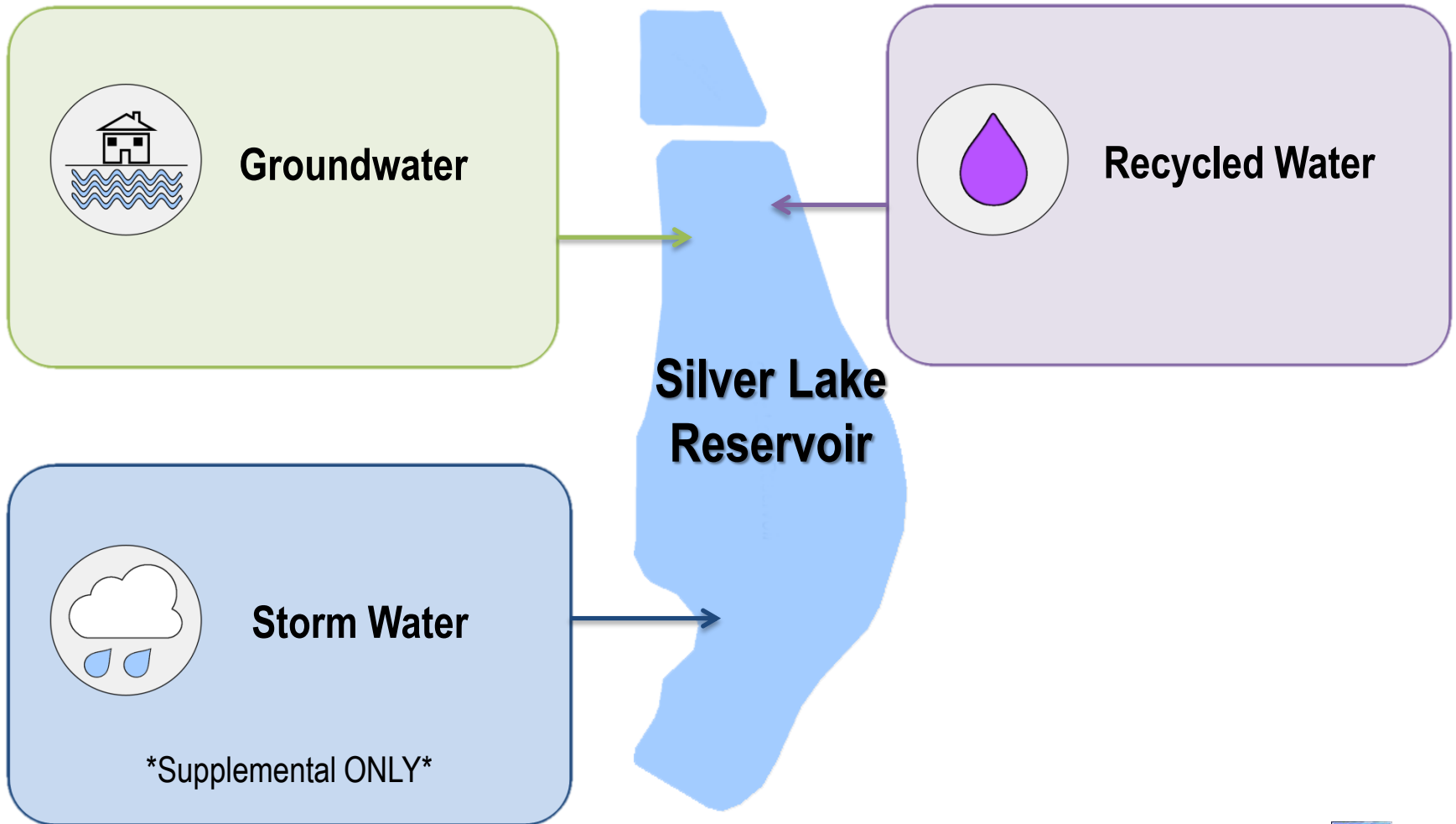
Landscape Plans



- 14 new street trees will be planted along East side West Silver Lake Drive, includes replacing 7 trees removed.
- Jacaranda tree will be planted at the knoll.
- 2 Oak trees will be planted at the Meadow.
- Within complex, 25 new trees planted, trailer and parking areas restored

Options for Restoring Water

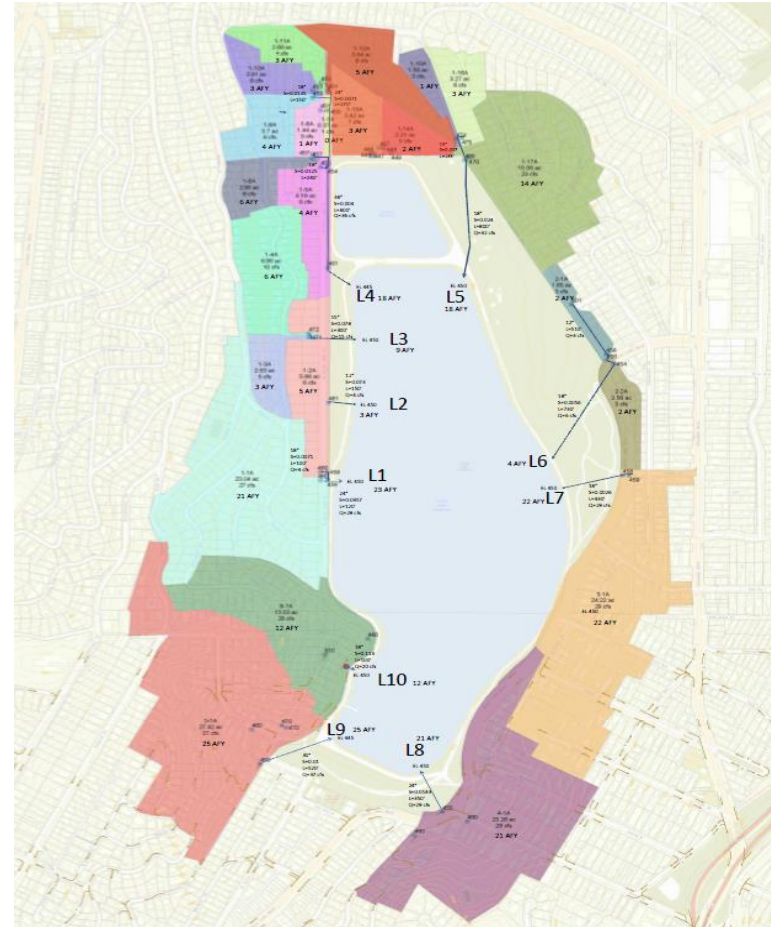
Potential Water Sources



Storm Water Capture

- Potential for up to 133 acre-feet per year (43 M gallons)
- Requires construction of 43 catch basins and related infrastructure

22 Sub-Watersheds Across 147 Acres



Storm Water Capture

Milestones

Planning & Permitting	In progress since 2012
Construction	Late 2017 – Early 2019
Completion	Early 2019

Key Considerations:

- Provides supplemental water only – not enough to restore or maintain reservoir water
- Highly infrastructure intensive – will take up to 3 years to complete

Recycled Water

- Evaluated 4 pipeline routes
- Selected route - 2.6 miles of new 8-inch pipe from existing Greenbelt System in Griffith Park
- New pipeline connects to existing pipe on Glendale Blvd.



Recycled Water

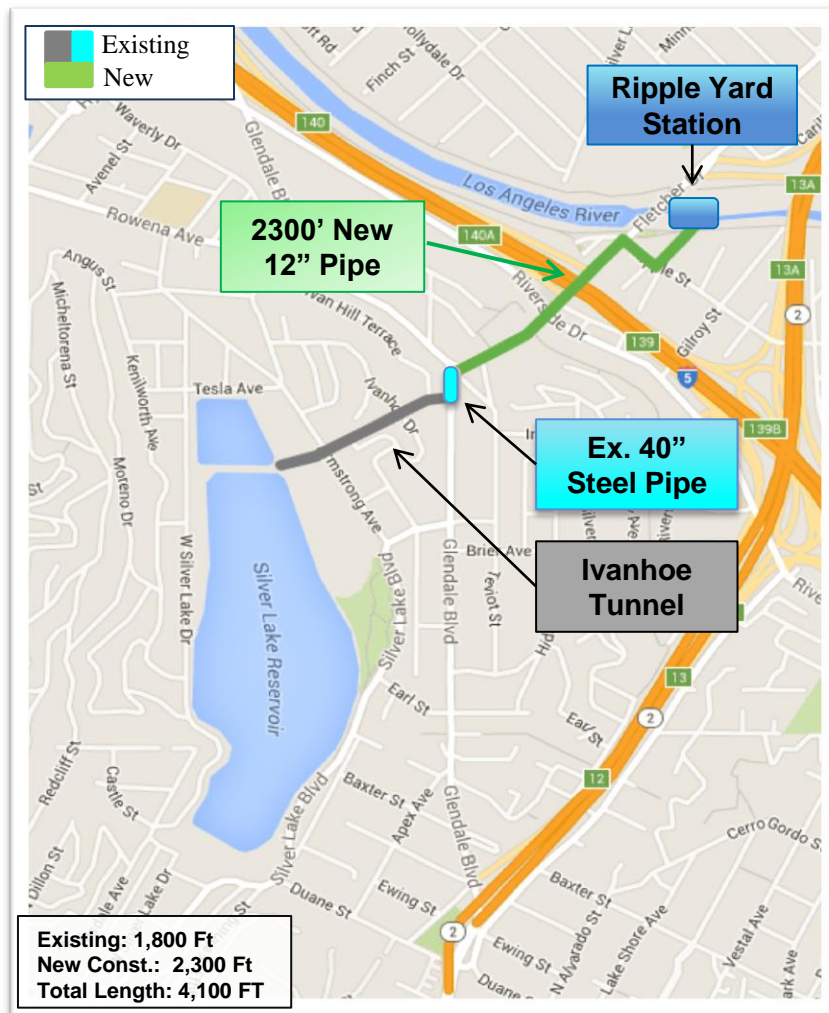
Milestones

Planning Studies	2014-2016 (Substantial completion)
Basin Plan Amendment	2016-2018
Construction	Late 2017-mid 2018
Restoring Water	Late 2018 through 2020

Key Considerations:

- Basin Plan Amendments will take 2 years
- Adequate water supply

Groundwater



- Use existing groundwater wells
- Requires installing 2,300 feet of new pipe
- New pipeline will connect to existing pipeline infrastructure

Groundwater

Milestones

Planning & Design	In progress since early 2016
Permitting	In progress since early 2016
Construction	Early 2017-May 2017
Restoring Water	Begins May 2017 through 2018

Key Considerations:

- Meets desired date for restoring water
- Adequate water supply
- Minimal off-site construction
- Ease of meeting long-term water quality standards

Groundwater

Activities in Progress

Source Water

Initial well assessment completed. Included,

- Video inspection
- Well cleaning
- Pumping test
- Water quality testing



Treatment

- Evaluation underway

Pipeline

- Route study completed
- Pipeline design completed



Permits/Approvals

- Sewer discharge permit received
- Excavation permit application submitted
- Traffic Control Plan being prepared
- RWQCB discussions initiated
- DDW discussions initiated

Summary of Water Source Options

	Storm Water	Recycled Water	Groundwater
Adequate Water Supply	No	Yes	Yes
Timing (by May 2017)	No	No	Yes
Ease of Maintaining Water Quality	No	No	Yes

Reservoir Improvement Options

- Possible removal of a portion of the side slopes to eliminate “striping”
- Investigate means for soil/side slope stabilization



Maintaining Reservoir Water Quality

- Expert team studying long-term water quality maintenance treatment options for Silver Lake and Ivanhoe Reservoirs.

Questions & Answers

Putting Customers First   

Next Steps

Community Meeting:
November 2016

Putting Customers First   