

Silver Lake Reservoir Complex Storage Replacement Project

Bypass Pipeline Construction & Water Restoration Update
Community Meeting – November 14, 2016



Overview

- SLR Bypass Project Update
- Restoring Water to Reservoirs
- SLR Master Plan 2000
- Short-term Options for Reservoir Improvement
- Q&A
- Future Project Update Meeting

Bypass Project

Construction Activity Overview

Pipeline Installation	Completed
Pipeline Disinfection	Nov 2016 – Dec 2016
Pipeline In-Service (Final Connection)	Dec 2016
Regulator Station	In Progress Sep 2015 – Jan 2017
Tree Planting and Restoration of Trailer & Parking Area	In Progress Nov 2016 - Jan 2017
Ivanhoe Reservoir Shade Ball Removal	Early 2017
Ivanhoe Reservoir Isolation Work (Rowena Complex)	Early 2017

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 (**99% Complete**)
- Construction of the regulator station on the north west bank of Silver Lake Reservoir (**90% Complete**)

Construction Progress



Construction Progress



Construction Progress



Landscape Plans



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

Restoring Water to Reservoirs

- Rehabilitate Existing Groundwater Well
- Install pump & motor system for groundwater well
- New Pipeline Construction:
 - Install 3,100 feet of 12-inch pipe
 - New pipeline will connect to existing pipeline infrastructure
 - Isolate reservoirs from potable system

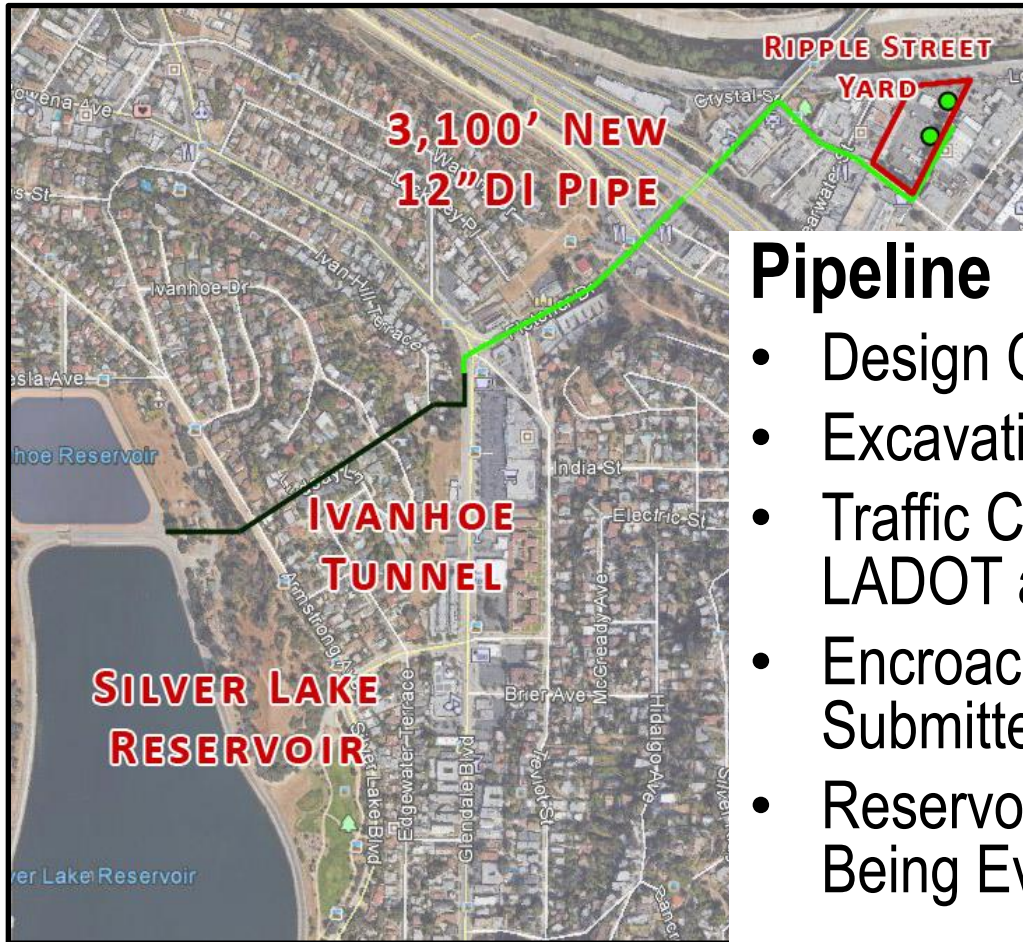
Activities Update



Well Improvements

- Well Assessment Completed
- Groundwater WQ Results Being Evaluated
- Well Electrical Supply and Mechanical Piping Design In Progress
- Pump & Motor Procurement Initiated

Activities Update



Pipeline

- Design Completed
- Excavation Permit Obtained
- Traffic Control Plans Submitted to LADOT and CALTRANS
- Encroachment Permit Application Submitted to CALTRANS
- Reservoir Inlet Modifications are Being Evaluated

Activities Schedule

Well Improvements

Design	September 2016	November 2016
Procurement	October 2016	December 2016
Construction	November 2016	April 2017

Pipeline

Design	September 2016	October 2016
Permitting	September 2016	January 2017
Construction	Dec/Jan 2016/17	April 2017

Target Date - May 2017

Maintaining Reservoir Water Quality

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

Update Nov 2016:

- Modeling for proposed water source(s) underway
 - Will determine necessary treatment and in-reservoir improvements

History of “Silver Lake Master Plan”

Background

- Originally, a large water quality treatment and storage facility was planned to be built at the Silver Lake Reservoir Complex site
- The project was relocated north of Griffith Park to what is now Headworks Reservoir

Purpose

- The 2000 Silver Lake Master Plan was developed to provide a menu of possible mitigation measures to be used by DWP when and if any water quality improvements were needed at the site

Note: Although funding to develop the 2000 Silver Lake Master Plan was provided, no funding was committed for implementation of the concepts proposed.

Completed Improvements

Silver Lake Master Plan 2000

- 2005 - West Silver Lake Drive and Armstrong Avenue Pathway
- 2008 - Pathway on the west side of Silver Lake Boulevard
- 2009 - Silver Lake Meadows
- 2012 - Pathway on the south side of Tesla Avenue

OTHER

- 2006 - Re-landscape Ivanhoe Dam
- 2014 - Tesla Avenue Tree Replacement

Completed Improvements



Other Improvement Opportunities

Silver Lake Master Plan 2000

- Open south end / toe of Silver Lake Dam
- Meadow Expansion
- Remove outer fence/upgrading fencing
- Street lighting at Armstrong Walkway
- Access to eucalyptus tree area

Other

- Elimination of “tiger stripes”
- Realign walkway path close to Ivanhoe (Near Tesla Ave & W. Silver Lake Dr.)
- Access across top of Silver Lake Dam

Future Side Slopes

LADWP is recommending preserving the side slopes due to:

1. Erosion of slopes and undermining of surrounding roadway
2. Vegetation
 - Possible need for additional vector control, irrigation, maintenance
3. Asphalt-Concrete must remain on Silver Lake Dam and on the water retaining structure that separates Ivanhoe and Silver Lake Reservoirs, potentially causing an eye soar.
4. May extend May restoration date

Side Slopes Recommendation

- DWP recommends coating the side slopes with a slurry seal
 1. Colored
 - Advantages - Aesthetics
 - Disadvantages
 - Crack filler will potentially bleed through in 2-3 years
 - Life span 5-7 years
 2. Black
 - Advantages
 - Existing crack filler will not show as much when it bleeds through in 2-3 years
 - Life span 5-7 years

Operational & Maintenance Requirements

- SLR Site
 - LADWP will retain easements and ownership of all infrastructure including pipelines, regulator stations, treatment facilities, buildings, vaults, and other above and belowground structures
- Dams:
 - LADWP will maintain jurisdiction of the dams unless they are notched so that no more than 6' of water may be retained
 - Asphalt-concrete must remain on dams and earth retaining structures

Silver Lake Reservoir

Questions

