welcome!

City of Los Angeles – Bureau of Engineering

MASTER PLANNING EXPERIENCE

- G2 Taylor Yard
- LA River Revitalization Master Plan

The Taylor Yard G2 River Park Project is a major step towards revitalization of the LA River. The transformation of this newly-acquired, 42-acre river-adjacent site will create habitat restoration, support environmental cleanup and sustainability, and open more than one mile of direct river access to local communities.

POSSIBLE PARK DESIGNS AND PROGRAMMING

WHAT'S NEW?

- APRIL 2020: Stakeholder Workshop
- MAY 2020: Stakeholder Workshop
- JUNE 2020: Stakeholder Workshop
- JULY 2020: Stakeholder Workshop
- AUGUST 2020: Stakeholder Workshop
- SEPTEMBER 2020: Stakeholder Workshop
- OCTOBER 2020: Stakeholder Workshop
- NOVEMBER 2020: Stakeholder Workshop
Welcome!

Silver Lake Reservoir Complex Master Plan Process

- December 2017 – Reservoirs no longer drinking water source
- March 27, 2018 – LADWP funding MP process to detail shared use
- May 2, 2018 – RFP Project Description Released
  - Comments provided by Silver Lake Community
- August 2018 – RFP Issued
- December 4, 2018 – Public Presentation of Potential Consultants
- February 1, 2019 – Hargreaves Associates team chosen
- March 14, 2019 – Project Initiation
WHY ARE WE HERE TONIGHT …
AGENDA

01 project team & schedule
  02 prior initiatives
  03 stakeholder working group
  04 site understanding
  05 challenges & opportunities
  06 table sessions
hargreaves associates

over 30 waterfront projects
over 23 water bodies
master planning through implementation

Anacostia River, Washington DC
Arkansas River, Little Rock
Biscayne Bay, Miami Beach
Cumberland River, Nashville
Detroit River, Detroit
Delaware River, Philadelphia
Guadalupe River, San Jose
Jamaica Bay, New York
James River, Richmond
Haihe River, Tianjin
Homebush Bay, Sydney Olympic Park
LA River, Los Angeles
Scissortail Park, Oklahoma

Mississippi River, Baton Rouge, Davenport & New Orleans
Ohio River, Louisville, Cincinnati & Pittsburgh
River Lea, London Olympic Park
Roaches Run, Arlington
Tennessee River, Chattanooga & Knoxville
Three Rivers, Pittsburgh
Trinity River, Dallas & Fort Worth
San Diego Bay, San Diego
San Francisco Bay, San Francisco
South Lake Union, Seattle
Willamette River, Portland
our local team

HARGREAVES ASSOCIATES
Prime / Landscape Architecture & Planning

THE ROBERT GROUP
Community Engagement

COMMUNITY

CWE ENGINEERING
Water Resources
Civil Engineering
Grant Support

GPA CONSULTING
Biology & Environmental Clearance
Cultural Resources

SCIENCE

ART

CHEE SALETTE
Landscape Architecture

+ SUPPORT
BEYAZ & PATEL
Geotech / Structural

JB & ASSOCIATES
Traffic Engineering

BREEN ENGINEERING
Electrical Engineering

LELAND SAYLOR
Cost Estimating

THE ROBERT GROUP
Community Engagement

CWE ENGINEERING
Water Resources
Civil Engineering
Grant Support

GPA CONSULTING
Biology & Environmental Clearance
Cultural Resources

SCIENCE

ART

CHEE SALETTE
Landscape Architecture

+ SUPPORT
BEYAZ & PATEL
Geotech / Structural

JB & ASSOCIATES
Traffic Engineering

BREEN ENGINEERING
Electrical Engineering

LELAND SAYLOR
Cost Estimating
our local team

CWE ENGINEERING
Water Resources / Civil Engineering / Grant Support

• Worked with BOE, BOS, and LADWP on stormwater projects and existing infrastructure

Vik Bapna
• 27 years of experience
• Extensive knowledge in regional Best Management Practices with multiple stakeholders

Steven Bell
• 11 years of experience performing hydrologic and hydraulic analysis on water bodies in LA region
• Extensive experience acquiring grants and permits
our local team

GPA CONSULTING
Biology / Cultural Resources

Sheri Mayta
SENIOR BIOLOGIST /
RESTORATION ECOLOGIST
- Over 14 years of experience
- Skilled in habitat assessments and botanical and avian surveys
- Extensive experience conducting habitat restoration in Southern California

Teresa Grimes
CULTURAL HERITAGE
- 25 years experience
- Expert in identification & evaluation of historic resources
- Extensive experience in LA context
SILVER LAKE RESERVOIR COMPLEX MASTER PLAN
Community Workshop #1

schedule

WE ARE HERE

2019 2020

RESEARCH & ANALYSIS CONCEPT DESIGN DRAFT MASTER PLAN FINAL MASTER PLAN

GRANT APPLICATIONS
SILVER LAKE RESERVOIR COMPLEX MASTER PLAN
Community Workshop #1

WORKSHOP #1
June 27, 2019
Project Introduction

WORKSHOP #2
August 2019
Guided Reservoir Walk / Visioning

WORKSHOP #3
October 2019
Design Options Workshop

WORKSHOP #4
November 2019
Guided Reservoir Walk

WORKSHOP #5
January 2020
Design Refine Workshop

WORKSHOP #6
May 2020
Final MP Celebration

COMMUNITY OUTREACH & ENGAGEMENT

WE ARE HERE
AGENDA

01 project team & schedule
02 prior initiatives
03 stakeholder working group
04 site understanding
05 challenges & opportunities
06 table sessions
prior initiatives

Master plan – **completed in 2000**
- Set out a vision and guide for future improvements projects around Silver Lake

**2000 – 2018 implementation projects:**
- **2005** – West Silver Lake Drive Path opens
- **2006** – Armstrong Path opens
- **2008** – Silver Lake Boulevard Path opens
- **2011** – Silver Lake Meadow opens
- **2012** – Tesla Path opens, Pocket Park and Meadow Native Garden are created
- **2015** – Path and Meadow improvements implemented, Armstrong Native Meadow created
- **2018** – South Dam Path opens, inside the fence
- **2019** – Ivanhoe Path opens, inside the fence
AGENDA

01 project team & schedule
02 prior initiatives
03 stakeholder working group
04 site understanding
05 challenges & opportunities
06 table sessions
stakeholder working group

- Help create transparent 2-way communication within neighborhood
- 5 meetings throughout the process, in between the Community Workshops
- Comprised of groups with history at reservoirs & greatest reach in membership

Silver Lake Forward
Rick Corsini
Elaine Harris Roark
Alt. Jocelyn Hayes Simpson

Silver Lake Neighborhood Council
Nick Fox Robbins
Taryn Poole

Silver Lake Now
Jill Cordes
Andrea Horwatt
Alt. Joe Mellis

Silver Lake Reservoir Conservancy
Andrew Thomas
Shelley Marks
Alt. Leslie Edmonds

Silver Lake Wildlife Sanctuary
Mike Krose
Alt. Janis Purins
silver lake forward

We are a neighborhood 501(c)3 organized in 2016 to improve the reservoir and guided by the values of ACCESS, BEAUTY & CONSERVATION

- Advocated for new Master Plan process, opening of South Dam, and Ivanhoe Dam Promenade
- Engaged the public through events (i.e., Embrace The Lake) and boots on the ground advocacy
- Fostered public and private relationships with environmental non-profits, Council Districts, the City agencies, DWP, schools, local businesses and community organizations.

silverlakeforward.com
silver lake forward

Key Priorities

ACCESS
• Open the complex to the community as a multi-faceted urban park
• Promote multi-modal connectivity
• Engage with schools and the community-at-large

BEAUTY
• Expand green space and naturalize embankments to enhance wildlife habitat
• Create imaginative new uses for exercise and tranquility
• Promote the highest level of Design Quality

CONSERVATION
• Redeploy the reservoir to hold, cleanse, conserve and transfer water resources.
• Create wetlands to manage stormwater and accommodate wildlife.
silver lake neighborhood council

MISSION

The SLNC will work to:

• Honor Diversity
• Build Community
• Forge Bonds with Neighboring Communities
• Promote Participation in City Governance and decision-making processes

To improve the quality of life for all Silver lake Stakeholders
KEY PRIORITIES

• Examine all options thoroughly
• Make Informed decisions
• Look after well-being and needs of humans, animals and the environment
• Increase access for humans while maintaining environmental protections
• Balance the desires and needs of our diverse human stakeholders.

http://silverlakenc.org/
silver lake now

MISSION

• To serve as a moderating voice and advocate for solutions in making the reservoir more accessible to the people.
• To push the design element in the spirit of The Meadow.

HISTORY

• Began as "Refill" Silver Lake Now
• Coordinated with city agencies, city leaders and the community
• Changed name to Silver Lake Now

sign up for our newsletter at https://silverlakenow.com/
silver lake now

KEY PRIORITIES

• Facilitate Communication
• Advocate for more access
• Balance and enhance the co-existence of wildlife and people
• Enhance natural aesthetic

sign up for our newsletter at https://silverlakenow.com/
MISSION

• An all-volunteer, non-profit corporation dedicated to preserving and enhancing the historical, aesthetic, ecological, and recreational benefits of Silver Lake’s reservoirs and surrounding open space. SLRC works to facilitate the transition of the decommissioned reservoir property by reflecting community preferences regarding land use including recreation, wildlife and native plants, public access, and on-site infrastructure.

HISTORY

• 1988: Created as the Committee to Save Silver Lake's Reservoirs (CSSLR) to oppose large filtration plant in Meadow Park.

• 1990s: Joined the Coalition to Preserve Open Reservoirs (CPOR) to ensure community input on future DWP reservoir projects. Worked with DWP to create first Master Plan in 2000.

• 2000s: Worked with DWP + CDs 4 and 13 to support path projects; also helped the DWP reach its decision to move Silver Lake’s drinking water storage to Headworks.

• 2010s: Changed name to SLRC; worked to ensure the community’s wishes for a Meadow Park were fulfilled (achieved in 2011). Began a years-long advocacy effort for 3 reservoir developments: South Dam, Ivanhoe Path, and the new Master Plan.
KEY PRIORITIES DURING MP PROCESS

• Ensure all community voices are heard
• Inform community about City plans for using the reservoir properties
• The Conservancy looks forward to working with city agencies and an engaged Silver Lake community to explore and determine the next steps for this unique historic site—steps that will bring the greatest benefit to residents, visitors, and wildlife.

www.SilverLakeReservoirs.org
silver lake wildlife sanctuary

MISSION
• Preserve the open waters of the Reservoirs
• Create a protected habitat for wildlife
• Promote a peaceful refuge for both people and wildlife

HISTORY
In 2017, the Reservoirs stood empty, drained of water and life. In that moment, we were inspired:
• What if our serene oasis were restored as a wildlife sanctuary?
• What if these waters remained wide and deep forever?
• What if birds, wildlife and people could coexist as they have for over 100 years?
• SL Wildlife Sanctuary was born to realize this vision for all.
Key Priorities

• WILDLIFE…
  - Deep, wide waters for migratory birds
  - Protective fence with wildlife access
  - Suitable and sufficient habitats with native plants

• SERENITY…
  - Passive activity only
  - Open waters for vistas and cooling micro-climate
  - Minimal traffic, litter and noise

• COMMUNITY…
  - Commitment to remain a non-commercial space
  - Positive quality of life for people and wildlife together

SilverLakeWildlifeSanctuary.org
SLwildlifesanctuary@gmail.com
AGENDA

01 project team & schedule
02 prior initiatives
03 stakeholder working group
04 site understanding
05 challenges & opportunities
06 table sessions
history of site 1906 -1930 (reservoir development)

Cir 1908 Silver Lake
1907 – Silver Lake Reservoir
1927
1906 – Ivanhoe Reservoir
history of site 1930s -1970s (major changes)

1950s – Reservoir reshaped and infilled in East Cove (now known as Silver Lake Meadow)

1950s – 60-inch bypass line installed

1970s – Silver Lake Dam Reconstruction
history of site

1970 – present day

2015

Present day

2017
existing site

- ivanhoe dam
- ivanhoe inlet tower
- ivanhoe spillway
- gatewell structure & regulator station
- eucalyptus grove
- overflow spillway
- silver lake outlet tower
- grassy patch
- silver lake dam
- rec center
- tesla pocket park
- nursery school
- dwp facilities including caretakers house, gatewell structure, chlorine station, etc.
- the knoll
- the meadow
- silver lake dam walkway
- dog park
MP study area

EXT. SHARED PATHWAY
0.88 ACRES
(0.69 %)

TOTAL AREA (EXCL. DWP)
116.39 ACRES
(91.27 %)

POTENTIAL FREE SPACE
103.62 ACRES
(81.26 %)

RECREATION & PARKS
7.65 ACRES
(6.0 %)

POTENTIAL SHARED SPACE
4.24 ACRES
(3.32 %)
jurisdictional boundaries

embankment must stay in place - cannot be altered to undermine road

inlet tower

ramps / points of access must remain - 1 in Ivahoe Reservoir, and 2 in Silver Lake Reservoir

outlet tower

embankment must stay in place

LADWP LANDS

11.13 ACRES (8.73%)
jurisdictional boundaries

DSOD Regulates dams to prevent failure, safeguard life, and protect property.

CD 4
David Ryu

CD 13
Mitch O’Farrell

DSOD JURISDICTION
DIVISION OF SAFETY OF DAMS
emergency water
beyond the boundaries

E-W SECTION

N-S SECTION

SILVER LAKE RESERVOIR COMPLEX MASTER PLAN
Community Workshop #1
outside views

1. Map of Silver Lake Reservoir Complex
2. View from Tesla Ave
3. View of tree near Silver Lake Blvd
4. View of street near Van Pelt Pl
5. View of outside area

SILVER LAKE RESERVOIR COMPLEX MASTER PLAN
Community Workshop #1
inside views
AGENDA

01 project team & schedule
02 prior initiatives
03 stakeholder working group
04 site understanding
05 challenges & opportunities
06 table sessions
challenges / opportunities

- historic designation & defining character
- programming uses
- traffic & circulation
- water quality / quantity
- wildlife protection & habitat enhancement
Design within the designation and understand the defining characteristics of site.

**historical cultural monument declaration**

- Occupying 76.6 acres of former marshland, the reservoir has been expanded over the years to a capacity of 3,924 acre feet. 850 million gallons of water are provided to the city each day. The reservoir was expanded and earthquake proofed in various renovations, the first in 1945, and the latest in 1975. The dam was reconstructed in 1976.
historic designation / defining character

opportunity

- Design within the designation and understand the defining characteristics of site.
programming uses

challenges

• Finding an appropriate balance between active and passive uses

• Provide water access to humans and wildlife that is safe

• Balancing the needs of the existing community with future needs.
programming uses

**Tongva Park**  
Santa Monica, CA (~6.2 ac)

**Vista Hermosa Park**  
Los Angeles, CA (~10.5 ac)

**LA State Historic Park**  
Los Angeles, CA (~32 ac)

**Renaissance Park**  
Chattanooga, TN (~22 ac)

**Crissy Field**  
San Francisco, CA (~115 ac)

**Brightwater Treatment Plant**  
Woodinville, WA (~128 ac)

**Sydney Olympic Park**  
Sydney, AUS (~366 ac)

**Queen Elizabeth Olympic Park**  
London, UK (~460 ac)
programming uses
programming uses

**Echo Park Lake (~26.98 ac)**
- Paddle Boating
- Concession
- Rec Center
- Bird Watching
- Wildlife habitat
- Family friendly

**Lincoln Park Lake (~44.71 ac)**
- Historical Value & Cultural Landmark
- Popular for events
- Fishing location
- Playgrounds
- Recreation Center
- Restrooms
- Walking/Running Path
- Sports fields/courts
- Bird watching
- Skateboard Park
- Paddle Boating

**MacArthur Park Lake (~31.92 ac)**
- Paddle Boating
- Bird Watching
- Wildlife habitat
- Walking/Running Path

**Hollywood Reservoir (~429.68 ac)**
- Historical Value & Cultural Landmark
- Hiking Loop
- Family friendly
- Walking/Running Path
- Bird watching
- Sight seeing

**Lake Balboa (~152.75 ac)**
- Historical Value & Cultural Landmark
- Picnic/Playgrounds
- Bird watching
- Skateboard Park
- Paddle Boating
- Bicycle Friendly
- Wildlife Habitat
programming uses

opportunities

Connect to the water

Places to linger

Bridges that connect and protect

Walking paths and gardens

Connect to the water
programming uses

opportunities

Flexible spaces for play

Bird watching

Picnicking and social gathering

Bird watching
traffic / transit

**avenue II scenic**: views to and from reservoir shall be maintained; street to have landscaped setbacks.

**avenue II**: typical row width is 86’; roadway width is 56’ and 1-2 lanes each direction; sidewalk width is 15’.

**collector**: typical row width is 66’; roadway width is 40’ and 1 lane in each direction; sidewalk width is 13’.

**local**: typical row width is 60’; roadway width is 36’ and 1 lane in each direction; sidewalk width is 12’.

**challenges**
- roadway capacity to accommodate potential increase in traffic
- pinch points
- limited access to/from reservoirs

---

1 United States, City of Los Angeles, Department of City Planning.
2 Mobility Plan 2035; Mobility Plan 2035, 2016

---

SILVER LAKE RESERVOIR COMPLEX MASTER PLAN
Community Workshop #1
traffic / transit

challenges

- underserved bus and bike network
- expanding network with topographic challenges

LEGEND

existing bike

future bike route

existing bus

rail

1United States, City of Los Angeles, Department of City Planning, "Mobility Plan 2035," Mobility Plan 2035, 2016
traffic / transit

challenges

• visibility of pedestrians and vehicles at unsignalized intersections
• speeding concerns due to lack of signaled stops
• limited pedestrian crosswalks
• limited access into reservoir
parking

challenges

• potential impacts on the availability of existing on-street parking for residents
• limited parking around site or within site
circulation and movement

opportunities

separated bike lanes & multi-modal transportation

alternatives parking solutions

employ traffic calming measures
circulation and movement

opportunities

upgrade existing sidewalks

provide additional turn lanes when appropriate

improve walkability
water quantity

challenges
• Maintaining consistent water levels in the reservoirs

TOTAL VOLUME
2,220 ac. ft (767 million gal.)

TOTAL DEPTH
47’ deep

historical elev. 440-451

TOTAL LOSS
↓ 5’-7’ per year

NEED MIN. 418 ac.ft / yr
TO KEEP WATER LEVEL IN 440 - 451’ RANGE
water quantity

current sources
- SW Capture Project
- Pollock Well

POLLOCK WELL #3 used to refill reservoir in 2018

STORMWATER CAPTURE PROJECT supply up to 38% of annual total needs
water quality

opportunities

• aeration & recirculation project (DWP)
• water quality increase for habitat improvements / expansion
wildlife protection & habitat enhancement

challenges

• Preserving the existing wildlife within the site

• Balancing human use with wildlife
challenges

• Existing vegetation predominantly non-native and of moderate habitat value.

• Natural functions are lacking within the reservoir limiting food resources and vegetative cover for migratory birds.

• Embankment slopes are too steep for waterfowl wading habitat.

wildlife protection & habitat enhancement
wildlife protection & habitat enhancement

opportunities

Protection fences that allow species movement and prevent barrier to water

Overlooks for observation

Improve water quality for habitat and wildlife (e.g. wetlands or floating islands)

Increase native vegetation and habitat value

Education and stewardship

SILVER LAKE RESERVOIR COMPLEX MASTER PLAN
Community Workshop #1
wildlife protection & habitat enhancement

opportunities

- Support nesting habitat for Great Blue Heron and Great Egret.
- Improve food chain for waterfowl (introduce fish).
- Create shallow wading habitat.
- Maximize wildlife diversity.
- Improve nesting habitat for Great Blue Heron and Great Egret.
AGENDA

01 project team & schedule
02 prior initiatives
03 stakeholder working group
04 site understanding
05 challenges & opportunities
06 table sessions
what are the major challenges & opportunities to you?

what defines the reservoirs to you?
next steps

• Community Workshop #2
  **August 24** on-site *Guided Reservoir Walk*

• For more details about the Silver Lake Reservoir Complex Master Plan project and for upcoming events, please go to: https://eng.lacity.org/slrcmp-home

• If you’d like to provide your ideas, feedback, or questions please send us an email at eng.slrcmp@lacity.org!