Site Planning Options
Community Discussion and Workshop

May 18, 2019
10:00AM
www.TaylorYardG2.com
Project Overview
River Hydrology & Hydraulics
Site Assessment Results / Remediation Options
Vista Del Rio
Community Feedback
Initial Design Approach
Site Planning Options
Site Experience
Agency Partners

- Mountains Recreation & Conservation Authority
- Coastal Conservancy
- Santa Monica Mountains Conservancy
- California Department of Toxic Substances Control
LA RIVER BACKGROUND

TIMELINE

- Tongva Native Americans at River’s Edge
- Los Angeles Floods
- Chief of Flood Control for LA District
- Arroyo Seco Bridge Construction
- Lewis MacAdams
- LA River Revitalization Master Plan
- Canoeing in the LA River
- ARBOR study rendering
- The River at the G2/Taylor Yard Parcel

THE LOS ANGELES RIVER
51 miles long (first 32 miles in LA City)

THE LOS ANGELES RIVER WATERSHED
871 square miles

- Los Angeles River
- Major Tributaries
- Los Angeles River Watershed

Revitalization of the River, with public access, open space, native ecosystem restoration, and world-class parks, will contribute to creating a more livable, more sustainable City.

THE LOS ANGELES RIVER REVITALIZATION MASTER (LARRMP) PLAN 2007
- 23 miles of LA River within LA City

GOALS:
1. REVITALIZE THE RIVER
2. GREEN THE NEIGHBORHOODS
3. CREATE VALUE
4. CAPTURE COMMUNITY OPPORTUNITIES
SITE CONSTRAINTS

SCHEDULE OF RAIL AND BRIDGE PROJECTS
LOCATION OF TAYLOR YARD PEDESTRIAN BRIDGE
LOCATION OF LAY-DOWN AREA FOR TAYLOR YARD PEDESTRIAN BRIDGE
FIRE REGULATIONS/ EMERGENCY ACCESS/EGRESS
ARBOR SETBACK

UPDATED UNDERSTANDING OF SITE CONTAMINATION

ACCESS TO SITE
ACCESS TO COUNTY ACCESS ROAD
ACCESS TO RAIL MAINTENANCE ROAD
HIGH TENSION WIRE REGULATIONS & OFFSETS / NEW LOCATION
EXISTING UTILITIES (WATER, GAS, & POWER)
STRATEGIC OPPORTUNITIES | 100 ACRES OF RECREATION

BOWTIE PARCEL
G1 PARCEL
18 AC

TAYLOR YARD
G2 RIVER PARK
42 AC

RIO DE LOS ANGELES
STATE PARK
40 AC
Project Overview
River Hydrology & Hydraulics
Site Assessment Results / Remediation Options
Vista Del Rio
Community Feedback
Initial Design Approach
Site Planning Options
Site Experience
Hydrology Objectives

- **Flood Risk:** All design concepts will include necessary measures to ensure the project maintains, and does not exceed, the existing level of flood risk as the current concrete channel configuration of the Los Angeles River.

- **Habitat:** Safely reduce river velocity to support habitat
ARBOR Study - Reach 6
USACE Hydrologic Analysis

- **Current Conditions** - Using a design flowrate of 93,800 cfs (USACE), the current state of the LA River shows potential flood risk to the south/west of G2 - The original channel design used 83,700 cfs for the design flow rate. Changes to the watershed account for the increased flow rates.

- Current conditions include deposited sediment and growth of vegetation within the channel

- USACE Analysis specifically identified need for further refinements and additional analysis during subsequent phases.

*Figure 1-3  Floodplain Analysis by USACE using 1-D/2-D HEC-RAS Model*
Cooperative Approach for the LA River

- **Los Angeles County** is leading multi-agency efforts to identify & prioritize projects along the 51-mile length of the river.
- This will be a multi-year effort with a variety of projects

Planned Hydraulic Analyses

- Additional 1-D models for the river and the proposed concept alternatives under existing channel conditions
- Develop 2-D models for the river and the proposed concept alternatives
- Evaluate impacts to water surface elevations and velocities related to cross-sectional changes
- Evaluate impacts to water surface elevations and velocities related to vegetation and roughness
- Develop channel protection concepts to include bioengineering and hardscape based on findings of results
- Develop riparian corridor habitat plans based on expected velocities and river impacts
Potential Flood Risk Abatement Strategies
Project Overview
River Hydrology & Hydraulics
Site Assessment Results / Remediation Options
Vista Del Rio
Community Feedback
Initial Design Approach
Site Planning Options
Site Experience
Previous Site Use

Union Pacific Railroad (or predecessors) onsite 1930 to 2006

Elevated Stock Switches at Taylor Yard Circa 1950
Taylor Round House Day Shift 1949
Taylor Yard Round House Circa 1950
### Previous Site Use

#### CONTAMINANTS

<table>
<thead>
<tr>
<th>Contaminants</th>
<th>Historical Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Petroleum Hydrocarbons (TPH)</td>
<td>Diesel fuel, gasoline, engine oil, grease</td>
</tr>
<tr>
<td>Metals</td>
<td>Paint, batteries, treated wood (rail ties)</td>
</tr>
<tr>
<td>Volatile Organic Compounds (VOCs)</td>
<td>Solvents, degreasers, painting products (resins, sealants, solvents, lacquers, varnish)</td>
</tr>
<tr>
<td>Semi-Volatile Organic Compounds (SVOCs)</td>
<td>Lubricants, fuel, resins, adhesives</td>
</tr>
</tbody>
</table>
Site Assessment Conclusions

- The Site is expected to be used for a park/open space
- Lead and possibly diesel range petroleum will define the areas needing remedial action
- VOCs in vapor could require additional remedial action but is not a major source of human health risks for open space
Possible Remediation Strategy

Use combination of remediation practices to achieve appropriate residential, recreational, or ecological standards based on the ultimate design:

▪ **Soil Removal and Disposal:** Contaminated soil is removed and transported by truck or train to an appropriate disposal site

▪ **Engineered Cap:** Contaminated soil is covered with clean sand, an impermeable liner, then several layers of clean soil to allow for vegetation

▪ **Soil Treatments:** Contaminated soils are treated to either transform, capture or stabilize target contaminants in-place or following excavation (*eg: phytoremediation, microbial degradation, chemical oxidation, stabilization/solidification*)

... among others

Entry way to Chatsworth Park South, a remediated Los Angeles park
Project Overview
River Hydrology & Hydraulics
Site Assessment Results / Remediation Options
Vista Del Rio
Community Feedback
Initial Design Approach
Site Planning Options
Site Experience
selgascano
serpentine pavilion
London 2015
Los Angeles 2019
selgascano
youth factory
merida 2011
Project Overview
River Hydrology & Hydraulics
Site Assessment Results / Remediation Options
Vista Del Rio
Community Feedback
Initial Design Approach
Site Planning Options
Site Experience
COMMUNITY INPUT

WHAT WE’VE DONE

COMMUNITY SITE TOURS

COMMUNITY WORKSHOPS

COMMUNITY SURVEY

FOCUS GROUPS

WHAT WE HEARD

A NEED FOR RECREATIONAL OPPORTUNITIES
(walking, jogging, kayaking)

A HIGH INTEREST IN NATURE
(open spaces, trails, habitat)

A PARK FOR ALL / A SHARED VISION
(results are consistent throughout zip codes)

A PARK FOCUSED ON THE RIVER
(river interaction and education)

A SPACE FOR CULTURAL EVENTS
(pavilions, amphitheater, flexible spaces)
<table>
<thead>
<tr>
<th>ACTIVITIES/RECREATION OPPORTUNITIES</th>
<th>SOCIAL/EVENTS/EVENT SPACES</th>
<th>STRUCTURES</th>
<th>NATURAL SPACE/WILDLIFE HABITAT</th>
<th>SUSTAINABILITY ELEMENTS</th>
<th>MOBILITY/ACCESS/COMFORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Promenade</td>
<td>Museum/Cultural Center</td>
<td>Restaurants</td>
<td>Trails to the River’s Edge</td>
<td>Native Plants</td>
<td>Paths/Trails</td>
</tr>
<tr>
<td>2 miles of multi-modal trails</td>
<td>Amphitheater</td>
<td>Restrooms</td>
<td>Terraced Edge</td>
<td>Nursery</td>
<td>Promenades</td>
</tr>
<tr>
<td>Viewing platforms</td>
<td>Farmers Markets</td>
<td>Amphitheater</td>
<td>Viewing Platforms</td>
<td>Stormwater Treatment</td>
<td>Land Bridge to Rio De Los Angeles</td>
</tr>
<tr>
<td>Play areas- nature play</td>
<td>Plazas</td>
<td>Flex Spaces</td>
<td>Arboretum</td>
<td>Arboretum</td>
<td>Connection to Bowtie</td>
</tr>
<tr>
<td>Meadows + Open Areas</td>
<td>Cafe</td>
<td>Cafe</td>
<td>Nursery</td>
<td>Wetlands</td>
<td>Shade Structures</td>
</tr>
<tr>
<td>Kayak Launch + River Access</td>
<td>Public Facility</td>
<td>Flex space for temporary Restaurants + Food Trucks</td>
<td>Constructed Wetlands</td>
<td>Tree Shade</td>
<td>Tree Shade</td>
</tr>
<tr>
<td>Dedicated picnic Areas</td>
<td>Museum/Cultural Center</td>
<td>Public Facility</td>
<td>Native Planting</td>
<td>Demonstration Gardens</td>
<td>Bridge to Frogtown</td>
</tr>
<tr>
<td>Flexible open space</td>
<td></td>
<td></td>
<td>Daylit Stormdrain</td>
<td>Solar Power</td>
<td>Parking for Vehicles + Bikes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3 MAIN THEMES FOR THE PARK

A HIGH INTEREST IN **NATURE**
(open spaces, trails, habitat)

A NEED FOR **RECREATIONAL OPPORTUNITIES**
(walking, jogging, kayaking)

A PARK **FOCUS ON THE RIVER**
(river interaction and ecological education)

**THEME 1 - URBAN ECOLOGY**

**THEME 2 - PEOPLE**

**THEME 3 - THE SITE & THE RIVER HISTORY**
Project Overview
River Hydrology & Hydraulics
Site Assessment Results / Remediation Options
Vista Del Rio
Community Feedback
Initial Design Approach
Site Planning Options
Site Experience
3 DESIGN OPTIONS

ISLAND

AN ISLAND FOR BIODIVERSITY AND RESILIENCY

Inspired by the story of the river:
Sediment islands & channel and bridges

SOFT EDGE

A ECOLOGICAL EDGE FOR PEOPLE AND WILDLIFE

Inspired by the dynamic natural processes – erosion, sedimentation and meandering water

THE YARDS

A PARK AT THE HEART OF IT’S COMMUNITY

Inspired by the natural, agricultural, cultural and industrial story of the site
TAYLOR YARD G2 DESIGN DRIVERS

1. River Hydrodynamics and Flood Control
2. On-site Stormwater Capture
3. High Voltage Electric Transmission Line Towers
4. Safe, Cost-Effective, Phased Site Remediation
5. Site Access and Connections To Neighborhoods
6. Rich Riverine and Upland Urban Habitat
7. Rich Riparian and Upland Habitat
8. Program to Generate Revenue for Park Operations
9. Appropriate Structures to Support Park Program
10. Phased Site Development For Early Public and Long-term Uses
ELECTRICAL EASEMENT STRATEGIES

LADWP TOWERS **MOVED** ALONG THE RAIL

LADWP TOWERS **REMAIN** IN PLACE

**ISLAND**

**SOFT EDGE**

**THE YARDS**
Project Overview
River Hydrology & Hydraulics
Site Assessment Results / Remediation Options
Vista Del Rio
Community Feedback
Initial Design Approach
Site Planning Options
Site Experience
CELEBRATING THE STORY OF THE LA RIVER

A BRAIDED RIVER

SHOWCASING THE ISLAND WHERE NATURE CAN HAPPEN

ICONIC BRIDGES

ISLAND
ISLAND | PROPOSED SITE FEATURES AND PROGRAM ELEMENTS

SITE FEATURE
1. SYCAMORE GROVE
2. DISCOVERY PLAY
3. MEADOW
4. WILLOW UPLAND
5. LOW FLOW WALKWAY
6. ISLAND ECO RESERVE/LAB
7. RIVER EXHIBITION PAVILION
8. FLOATING ISLANDS
9. RIVER DECK
10. NATIVE COLLECTIONS
11. THE CROSSING
12. SCULPTURE GARDEN
13. AMPHITHEATER
14. ARBORETUM
15. VIEWING DECK
16. PARKING
17. TAYLOR YARD PEDESTRIAN BRIDGE

4.5 ACRES OF PROPOSED BUILDING FOOTPRINT
* 2 STORY BUILDING
** 3 STORY BUILDING

1. PARK OFFICE/ RANGER STATION*
2. KAYAK LAUNCH/ CAFE
3. RECREATIONAL CAMPING + RESTROOM
4. YOUTH ENRICHMENT CENTER
5. CAFE
6. RESEARCH BUILDING*
7. MUSEUM/CULTURAL CENTER*
8. PUBLIC FACILITY (PARKING BELOW)**
9. RESTAURANT
10. KAYAK LANDING/ CAFE / KIOSK

5 ACRES
CELEBRATING NATURAL PROCESSES

A SEASONAL FLOODPLAIN

AN EXTENSIVE RIVER BED CREATING A BIODIVERSITY HOTSPOT

ENGAGING THE RIVER EDGE

SOFT EDGE
SOFT EDGE | PROPOSED SITE FEATURES AND PROGRAM ELEMENTS

SITE FEATURE
1. NATIVE NURSERY
2. ELYSIAN BRIDGE
3. ARBORETUM
4. THE CLIFF
5. LA LOMA
6. DISCOVERY PLAY
7. MEADOW
8. BIO-PLATEAU
9. THE FIELDS
10. BOULDER BEACH
11. ECOLOGICAL STITCH
12. THE ESPLANADE
13. RIVER STEPS
14. AMPHITHEATER
15. LAND BRIDGE
16. TAYLOR PLAZA
17. PARKING
18. TAYLOR YARD PEDESTRIAN BRIDGE

4.5 ACRES OF PROPOSED BUILDING FOOTPRINT
* 2 STORY BUILDING
** 3 STORY BUILDING

1. PARK OFFICE/ RANGER STATION*
2. KAYAK LAUNCH/CAFE
3. RECREATIONAL CAMPING + RESTROOMS
4. YOUTH ENRICHMENT CENTER
5. CAFÉ
6. RESEARCH BUILDING (PARKING BELOW)**
7. MUSEUM/CULTURAL CENTER*
8. PUBLIC FACILITY (PARKING BELOW)*
9. RESTAURANT
10. KAYAK LANDING/CAFE/KIOSK

5 ACRES
3D VIEWS | LOOKING SOUTH

GLASSELL PARK
SAN FERNANDO RD
RIO DE LOS ANGELES
EXISTING RAIL

THE AMPHITHEATER
BOULDER BEACH
NATURE PLAYGROUND
LA LOMA
THE CLIFFS

LOS ANGELES RIVER GREENWAY TRAIL
ELYSIAN VALLEY
CELEBRATING THE HISTORY OF THE SITE

ROUNDOUSE & RAIL INFRASTRUCTURE

PEOPLE: THE BEATING HEART OF G2

A PLACE OF WONDER & IMAGINATION

THE YARDS
THE YARDS | PROPOSED SITE FEATURES AND PROGRAM ELEMENTS

SITE FEATURE
1. BIO-HEDGE HABITAT MOUNDS
2. NURSERY + ARBORETUM
3. STORMWATER DEMONSTRATION GARDENS
4. RIVER WATER PUMP
5. THE WETLAND
6. RIVER AMPHITHEATER
7. NATURE PLAY
8. THE CANYONS
9. LAND BRIDGE
10. THE ROUND HOUSE
11. RIVER OUTFALL
12. ELYSIAN VALLEY BRIDGE
13. MIRADOR
14. PRADO
15. VIEWING PLATFORM
16. RIVER STEPS
17. TAYLOR BOARDWALK
18. PLANTED EDGE ARMATURE
19. TAYLOR YARD PEDESTRIAN BRIDGE

4.5 ACRES OF PROPOSED BUILDING FOOTPRINT
*2 STORY BUILDING
**3 STORY BUILDING

1. PARK OFFICE/RANGER STATION*
2. KAYAK LAUNCH/CAFE
3. RECREATIONAL CAMPING + RESTROOMS
4. YOUTH ENRICHMENT CENTER
5. CAFE
6. RESEARCH BUILDING**
7. MUSEUM / CULTURAL CENTER*
8. PUBLIC FACILITY (PARKING BELOW)*
9. RESTAURANT
10. KAYAK LANDING/CAFE/KIOSK
**OPTION COMPARISON**

**ALTER CHANNEL EDGE**

**ISLAND**
- Reflects historic tributary with stormwater/day-lit creek feature

**SOFT EDGE**
- Closest to the ARBOR diagram & objectives/riparian terraces

**BIODIVERSITY**
- High biodiversity potential where day-lit creek feature meets the River
- Creates a protected habitat island & marsh channel with high potential for biodiversity
- Individual Stormwater & River water habitats

**KEY FEATURE**
- Enlarges footprint of the site with the creation of the Island
- Formal river steps

**TOPOGRAPHY**
- Major topographic feature creates a “hide and reveal” element at park entrance

**POWER TOWERS**
- Power towers are relocated

**MAINTAIN CHANNEL EDGE**

**THE YARDS**
- More upland habitat, less riparian habitat

**BIOGEOGRAPHY**
- Stormwater feature/day-lit creek will provide habitat value
- Minimal riparian habitat at river’s edge
- Less excavation/alteration of the river edge
- Constructed wetland combines River water and Stormwater

**KEY FEATURE**
- Celebrates roundhouse with sculptural canopy
- Building focused at main park entrance
- River balconies & amphitheaters

**TOPOGRAPHY**
- Major topographic features focus on creating a barrier to the rail as well as a rich habitat network

**POWER TOWERS**
- Power towers are relocated
- Power towers are not relocated
OPTION COMPARISON | STRUCTURES

ISLAND
Art Center College of Design
Pasadena, CA

SOFT EDGE
Porto School of Architecture
Porto, Portugal

THE YARDS
Mimesis Museum
Paju, South Korea
OPTION COMPARISON | RIVER EDGE

ISLAND

Rhône River Banks
Lyon, France

SOFT EDGE

Isar-plan
Munich, Germany

THE YARDS

River Decks
Bar-le-Duc, France
OPTION COMPARISON | KEY FEATURES

ISLAND
River Aire
Switzerland

SOFT EDGE
Martin Luther King Park
Paris, France

THE YARDS
Espacio Escultorico
Mexico City, Mexico
Project Overview
River Hydrology & Hydraulics
Site Assessment Results / Remediation Options
Vista Del Rio
Community Feedback
Initial Design Approach
Site Planning Options
Site Experience
A SATURDAY AT TAYLOR YARD G2

GROUP OF TEENAGERS
Arrive 1 PM by Bike

- Check out the blooming Agave at the Native Collections
- Volunteer at the Native Nursery
- Walk through the Meadow
- Yoga at the Meadow
- Kayak through the Islands
- Explore the island trail
- Enjoy the River walk

GROUP OF ADULTS
Arrive 10 AM by Foot

- Attend concert at the Amphitheater
- Puppet Show at the Amphitheater
- Get Ice Cream at the Cafe
- Visit Special Exhibit at the Museum
- Feed the Birds at the Rivers Edge
- Have fun at the Nature Playground

FAMILY WITH SMALL CHILDREN
Arrive 11 AM by Car

- Arrive 9 AM by Foot
- Get Breakfast at the Farmers Market
- Happy Hour at the cafe
- Visit Special Exhibit at the Museum

RETIRED FRIENDS

- Arrive 9 AM by Foot
- Get Breakfast at the Farmers Market
- Happy Hour at the cafe
- Visit Special Exhibit at the Museum
- Feed the Birds at the Rivers Edge
- Have fun at the Nature Playground
- Attend concert at the Amphitheater
- Puppet Show at the Amphitheater
- Get Ice Cream at the Cafe
- Visit Special Exhibit at the Museum
A NATURE FOCUSED VISIT TO TAYLOR YARD G2

- Walk through the Sycamore Grove
- Take low flow path to habitat island
- Visit the River Exhibition Pavilion
- Visit the native collections
- Walk through the oak woodland
- Visit the stormwater feature
- Ride-share drop-off
A PARK DAY AT TAYLOR YARD G2

WALK THROUGH THE NATIVE NURSERIES

HAVE FUN AT THE NATURE PLAYGROUND

PICNIC AT THE MEADOW

ATTEND A CONCERT AT THE AMPITHEATER

MEET FRIENDS AT THE RIVER STEPS

VISIT THE STORMWATER FEATURE

GET ICE CREAM AT THE CAFE

icons: 🚶‍♂️ 🚶‍♀️ ⛃️
A CULTURAL TRIP TO TAYLOR YARD G2

CONCERT AT THE RIVER STEPS
WALK THROUGH THE SCULPTURE GARDEN
MEET FRIENDS AT THE CAFE
VISIT THE MUSEUM/ CULTURAL CENTER
Interactive Design Review

WATER  CONNECTIVITY  PEOPLE
INCLUSIVE  SOIL  RESILIENT
HABITAT  INSPIRATIONAL  HISTORY
UNIQUELY LOS ANGELES