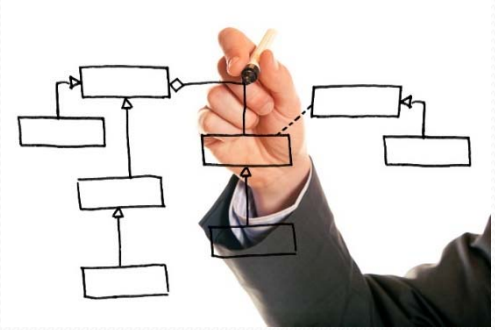
Lower Ballona Creek Planning and Feasibility Study

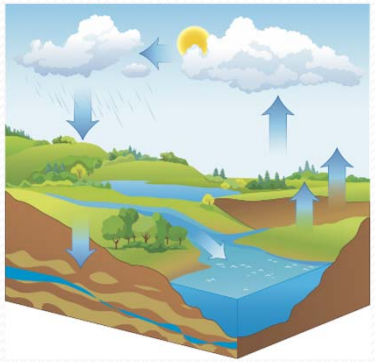
3rd Stakeholder Meeting.

January 23rd, 2019

Contents



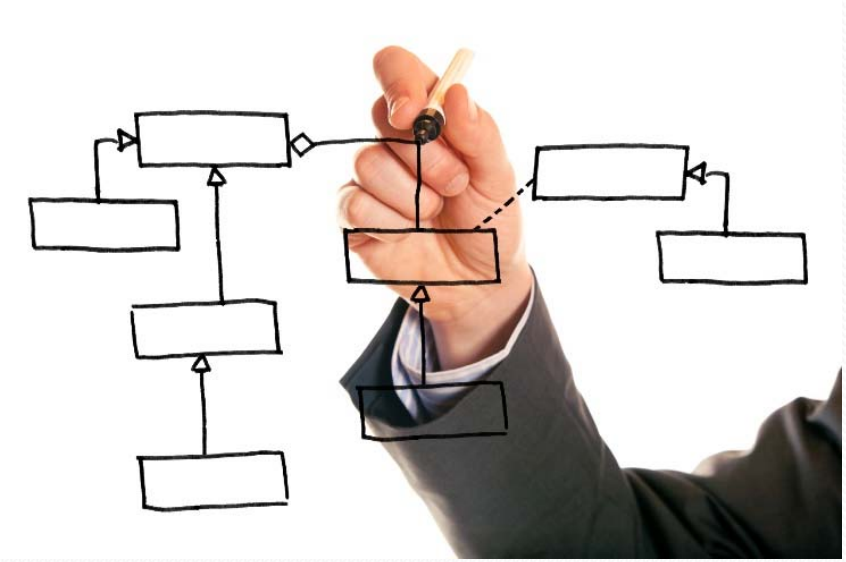
Project Overview



Macro Hydrology Analysis

Site Assessment

Outreach and Education



Project Overview

Scope Statement

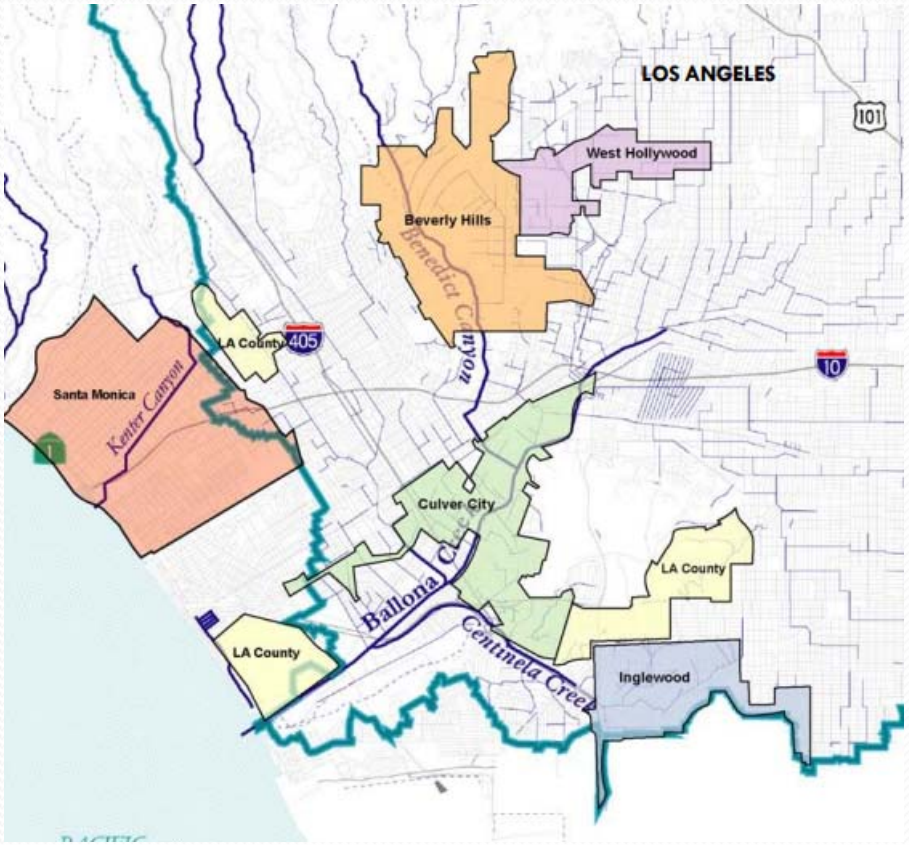
- Perform an engineering and feasibility study associated with implementing storm-water management and augmentation of local water supply. The Project provides the framework for **implementing storm-water management using green infrastructure** including **outreach to local businesses and adjacent stakeholders along the Ballona Creek**. Through the development of a Project Assessment and Evaluation Plan (PAEP), benefits will be quantified with guidelines to evaluate effectiveness and recommendations on the needed actions to obtain the desired results.
- Conduct an engineering feasibility and design study to **capture and infiltrate runoff from approximately 15 acres** through-the-use-of specific BMPs (such as cisterns), and develop a Project Assessment and Evaluation Plan (PAEP). The PAEP will outlining **measurement tools and methods to quantify primary and secondary benefits**, including technical guidelines to **evaluate the effectiveness of the BMPs**. Additionally, the PAEP will include performance measurements for effective monitoring of ambient and pollution reduction to meet set TMDLs limitations in order to **improve local water quality**. The performance matrix will include recommended actions needed to obtain the desired results. The study will also result in creating a draft access agreement and **plan for maintenance**, while **raising community awareness of water quality issues** through stewardship.

Project Goals

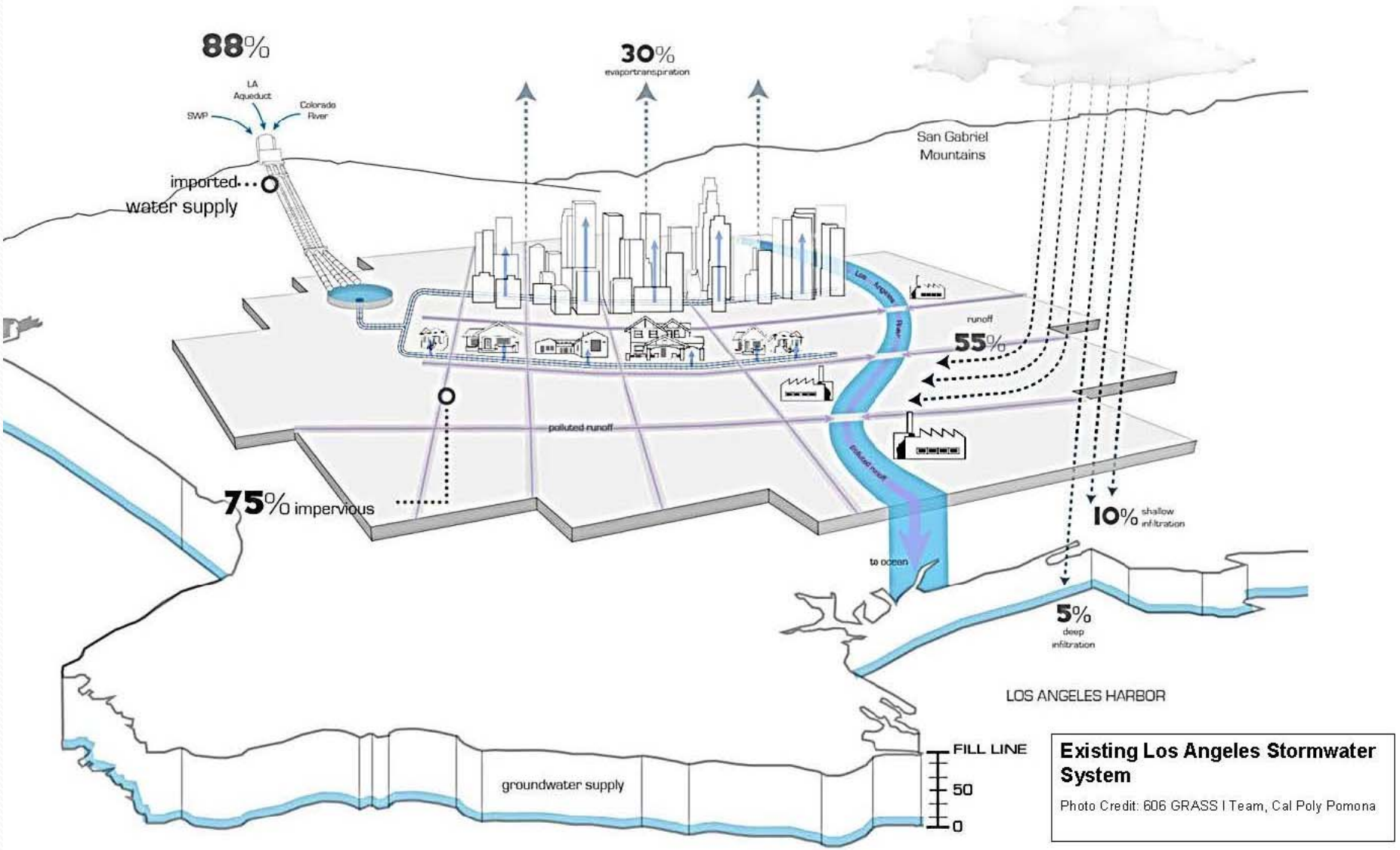
1. Capture and infiltrate runoff from approximately 15 acres (assumes water volume not land mass) utilizing green BMP's
2. Outreach to local businesses and stakeholders along Ballona Creek
3. Improve local water quality
4. Raise community awareness of water quality issues
5. Develop a PEAP outlining measurement tools and methods to quantify project benefits and plans for maintenance

Ballona Creek

- Ballona Creek drains an area of approximately 130 square miles.
- With more than 1.6 million residents, the Ballona Creek Watershed is highly urbanized.
- As a result, surface and groundwater quality has been degraded, natural hydrologic functions modified, plant and wildlife diversity and movement reduced, wildlife decreased, and water quality tainted in Ballona Creek and Santa Monica Bay.
- While flood protection has traditionally been a high priority within the watershed, efforts to improve water quality, habitat, and open space have not been coordinated across jurisdictions and therefore have been less successful.



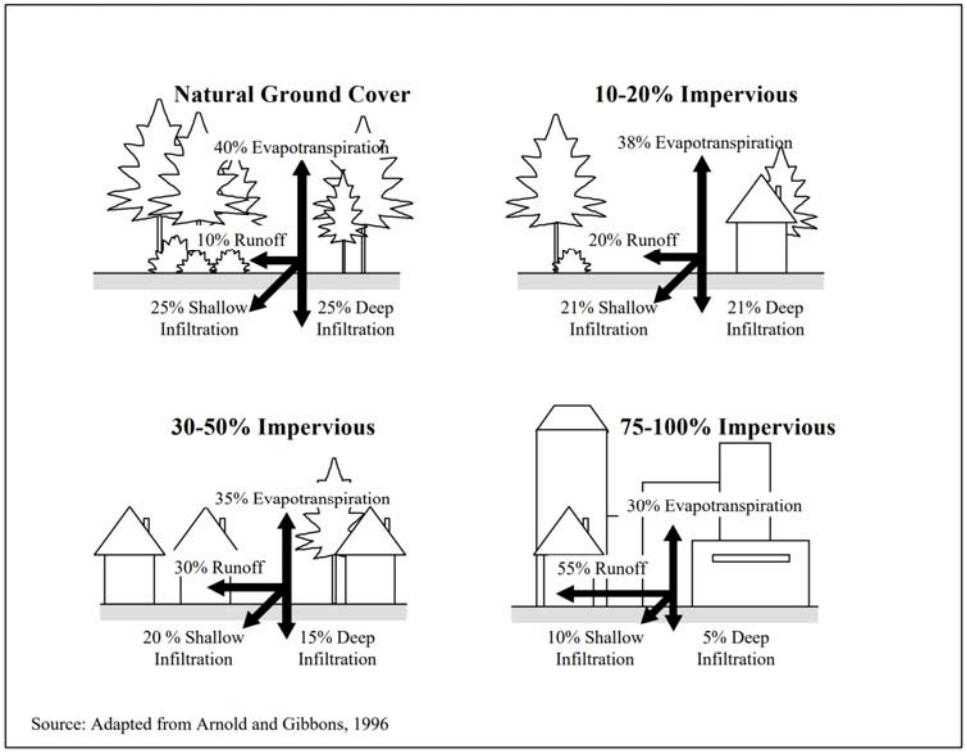
Source: dpw.lacounty.gov



Existing Los Angeles Stormwater System

Photo Credit: 606 GRASS I Team, Cal Poly Pomona

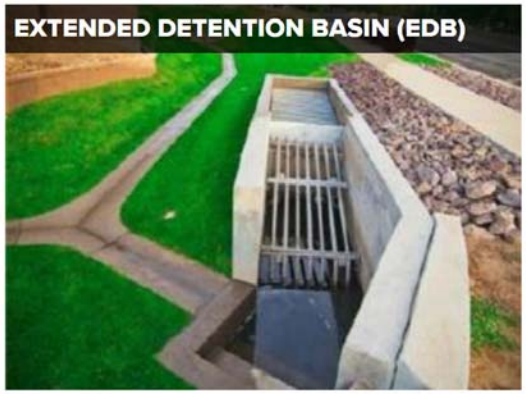
Effects of permeability on water quality



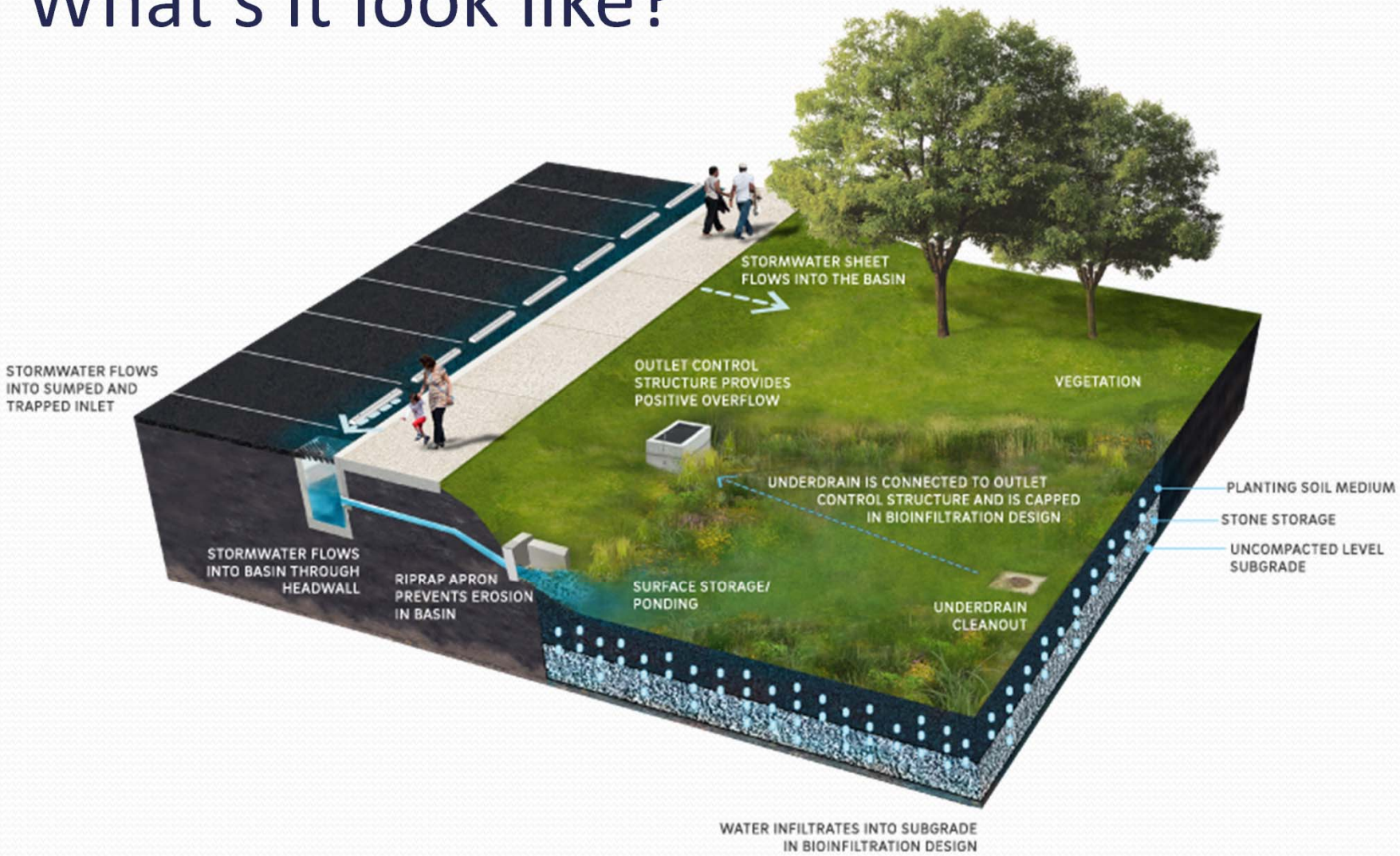
Source: https://www3.epa.gov/npdes/pubs/usw_b.pdf

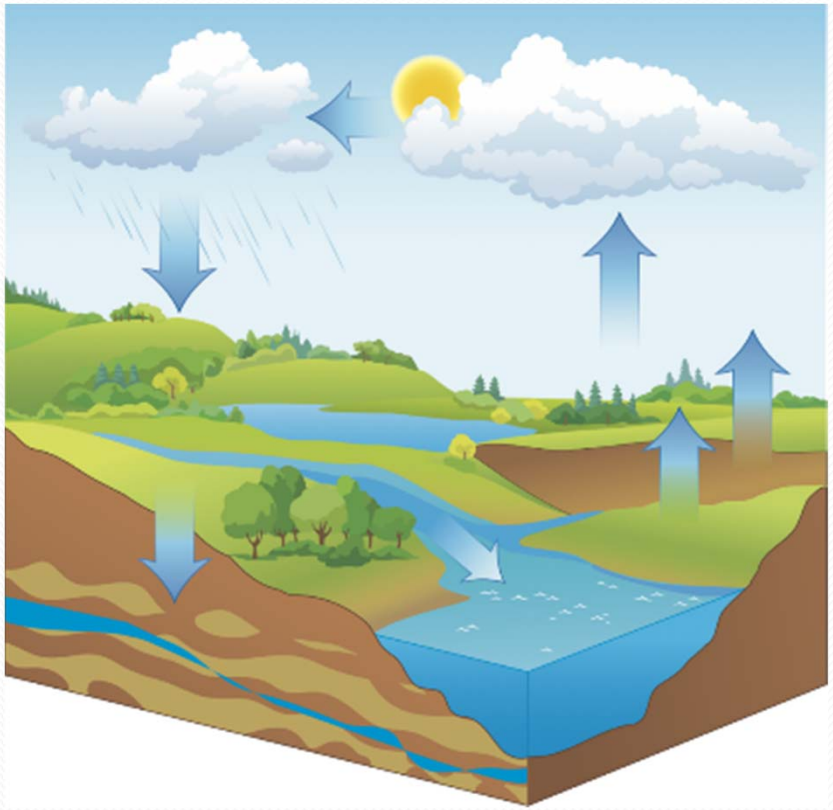
Contaminant	Contaminant Sources
Sediment and Floatables	Streets, lawns, driveways, roads, construction activities, atmospheric deposition, drainage channel erosion
Pesticides and Herbicides	Residential lawns and gardens, roadsides, utility right-of-ways, commercial and industrial landscaped areas, soil wash-off
Organic Materials	Residential lawns and gardens, commercial landscaping, animal wastes
Metals	Automobiles, bridges, atmospheric deposition, industrial areas, soil erosion, corroding metal surfaces, combustion processes
Oil and Grease/ Hydrocarbons	Roads, driveways, parking lots, vehicle maintenance areas, gas stations, illicit dumping to storm drains
Bacteria and Viruses	Lawns, roads, leaky sanitary sewer lines, sanitary sewer cross-connections, animal waste, septic systems
Nitrogen and Phosphorus	Lawn fertilizers, atmospheric deposition, automobile exhaust, soil erosion, animal waste, detergents

Types of Water Quality BMPs



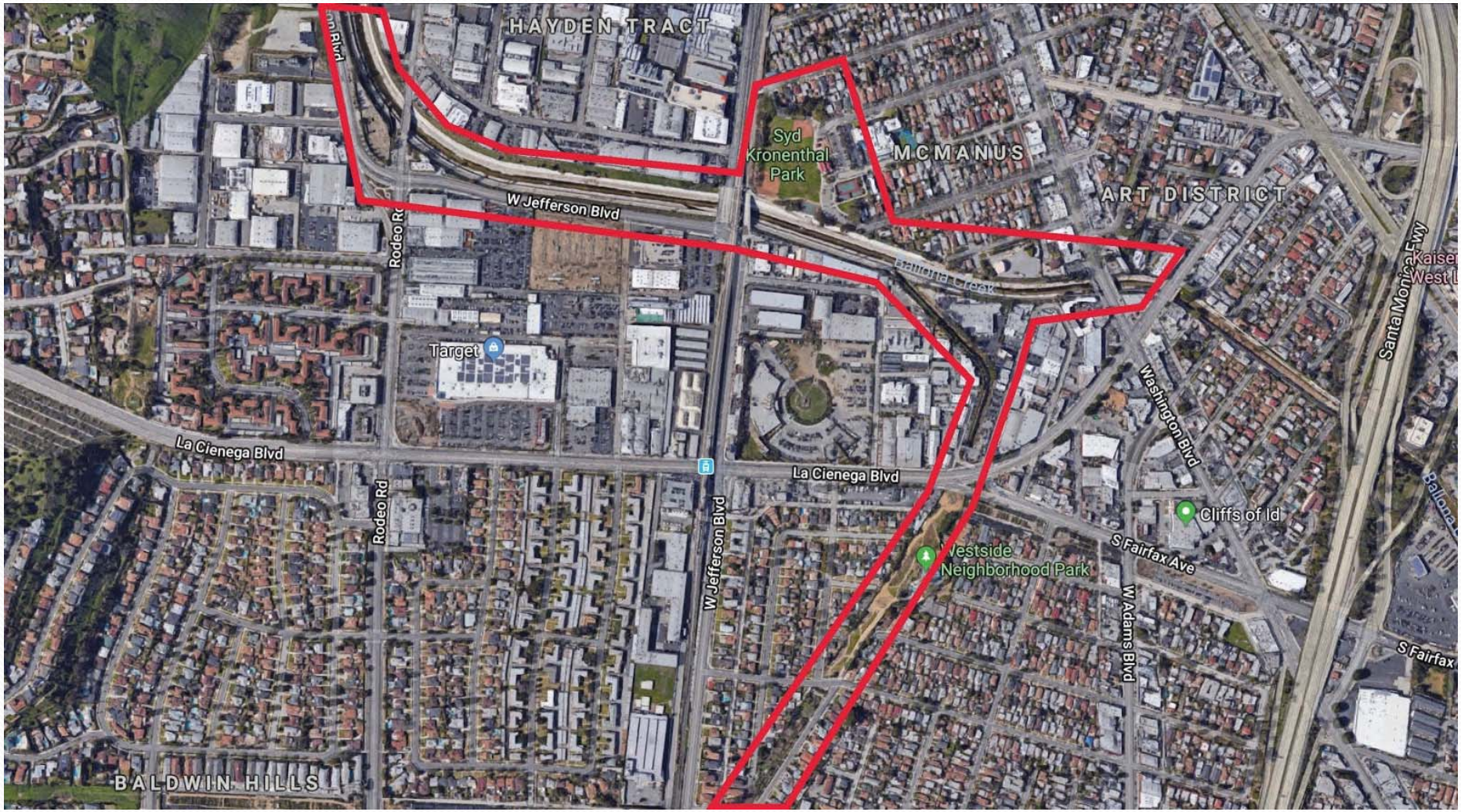
What's it look like?





Macro Hydrology Analysis

Study Area


HAYDEN TRACT
Syd Kronenthal Park
MCMANUS
ART DISTRICT
W Jefferson Blvd
Rodeo Rd
Target
La Cienega Blvd
Rodeo Rd
La Cienega Blvd
W Jefferson Blvd
Washington Blvd
Santa Monica Fwy
Cliffs of Id
S Fairfax Ave
Westside Neighborhood Park
W Adams Blvd
S Fairfax
BALDWIN HILLS

Survey and Base Mapping

A topographical engineering design base map was completed of the Lower Ballona Creek area from Washington Boulevard to Higuera Street

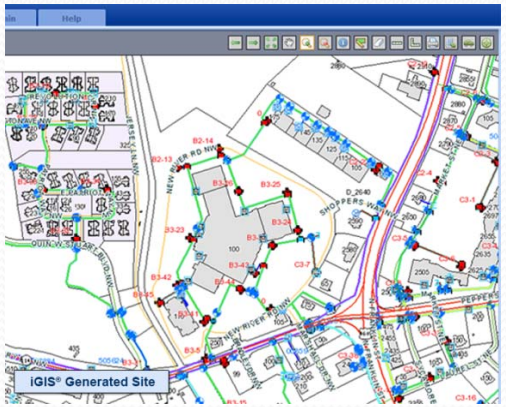
Included Features

Existing monuments
Property
Boundaries
Parcel and property information
Right of way
Jurisdictional boundaries
Known Storm Water Utilities

Survey Method

Aerial Photogrammetry
With GPS ground Control

Overlaid
on

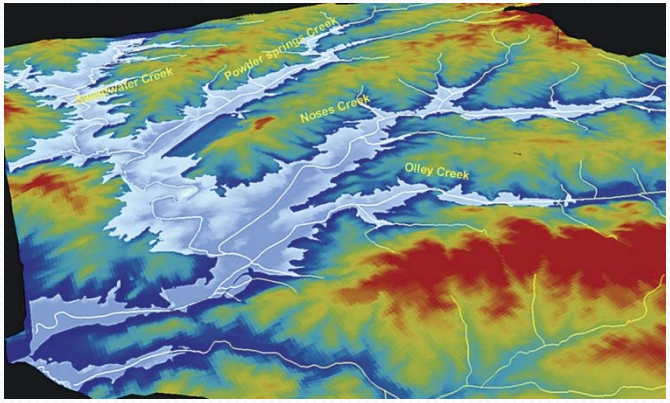


GIS and Public
Records Mapping

Engineering and Feasibility Study

Hydrology Analysis

Base maps were analyzed to determine the flow water through the surface and known substructure. A quantitative analysis was done identifying the potential amount of water reclaimable in our study area



Geotechnical Testing

Upon analyzing base map and hydrology data geotechnical bores will be strategically placed along creek. Depth and test type will depend on data. Locations will be tested for infiltration and percolation testing

The above testing will be analyzed in conjunction with property data, accessibility and available storm water solutions to identify areas for water quality improvement and capture

BALLONA CREEK URBAN GREENING FEASIBILITY: HYDROLOGY STUDY

JUNE 19, 2018

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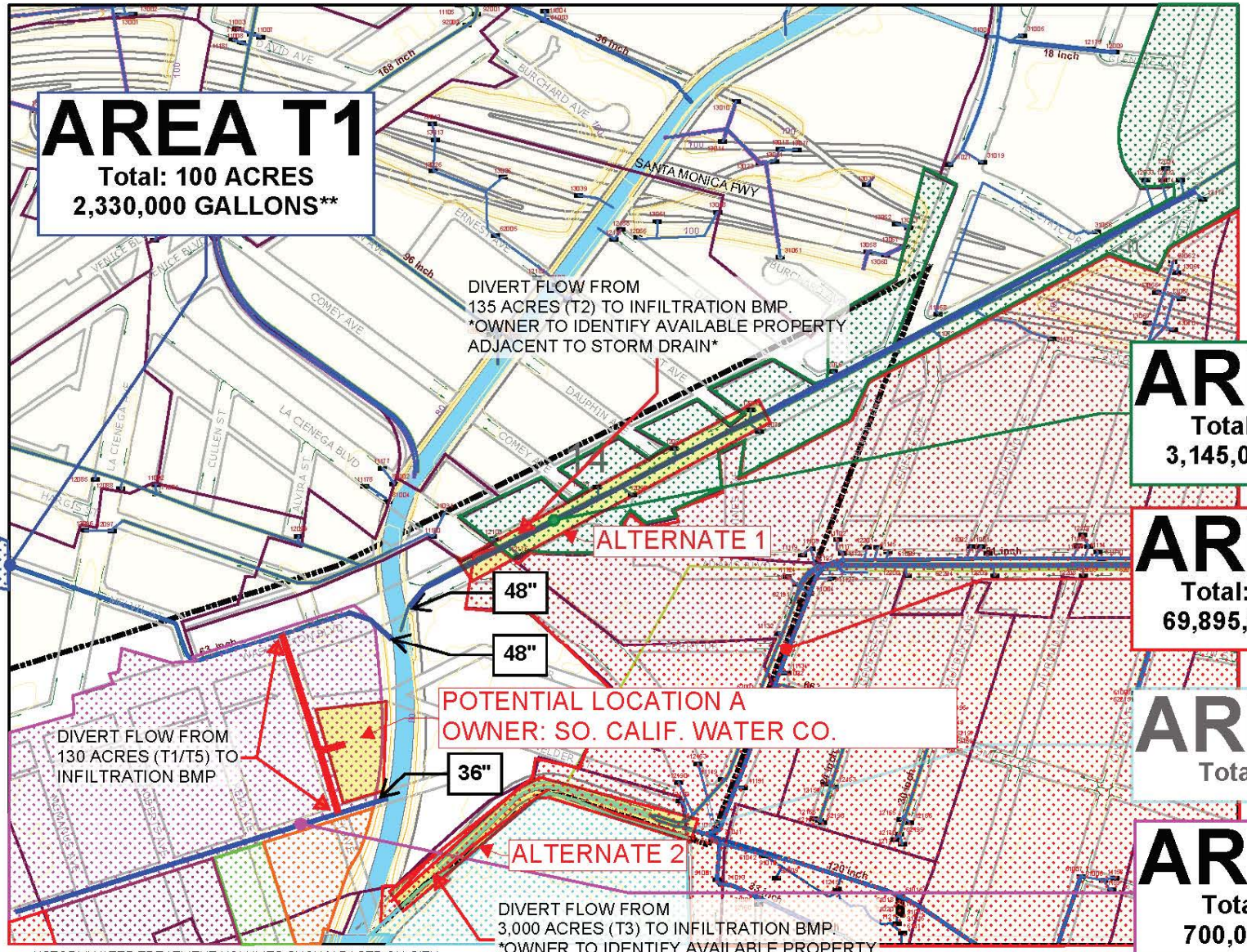


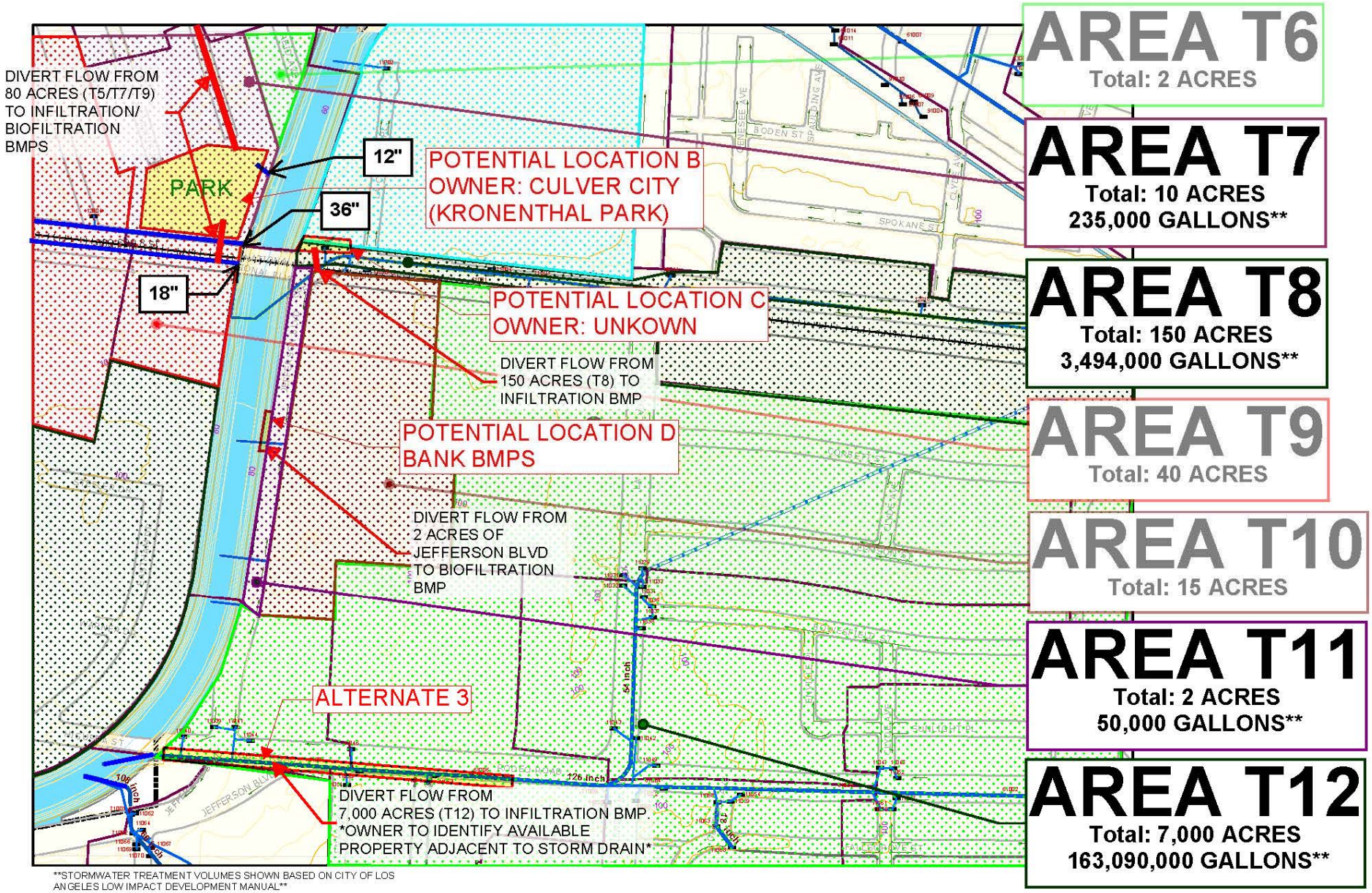
AREA T2
Total: 135 ACRES
3,145,000 GALLONS**

AREA T3
Total: 3,000 ACRES
69,895,000 GALLONS**

AREA T4
Total: 30 ACRES

AREA T5
Total: 30 ACRES
700,000 GALLONS**

STORMWATER TREATMENT VOLUMES SHOWN BASED ON CITY OF LOS ANGELES LOW IMPACT DEVELOPMENT MANUAL



AREA T6
Total: 2 ACRES

AREA T7
Total: 10 ACRES
235,000 GALLONS**

AREA T8
Total: 150 ACRES
3,494,000 GALLONS**

AREA T9
Total: 40 ACRES

AREA T10
Total: 15 ACRES

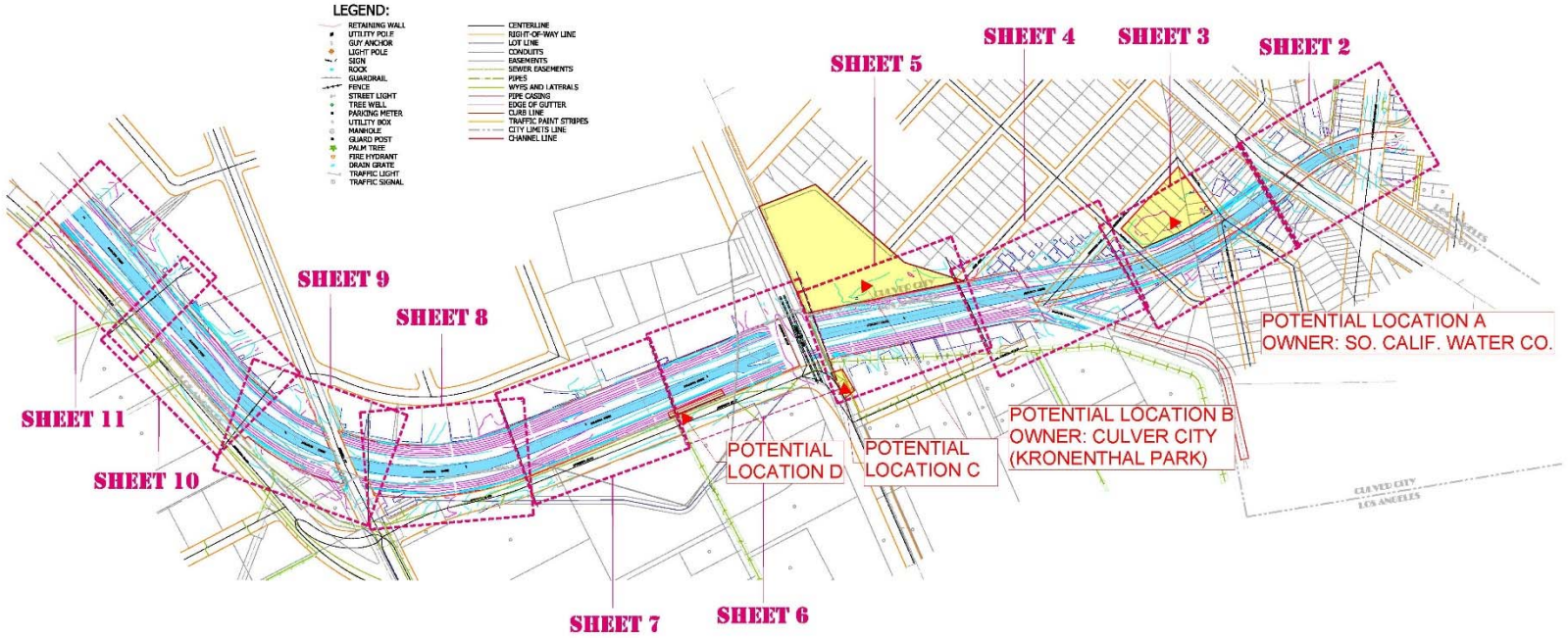
AREA T11
Total: 2 ACRES
50,000 GALLONS**

AREA T12
Total: 7,000 ACRES
163,090,000 GALLONS**

STORMWATER TREATMENT VOLUMES SHOWN BASED ON CITY OF LOS ANGELES LOW IMPACT DEVELOPMENT MANUAL

LOWER BALLONA CREEK
BASE MAP

VICINITY MAP
NO SCALE



BENCH MARK:

B.M. NO. 13-01116 NAVD 1988 CITY OF LOS ANGELES DATUM

FOUND SPK IN N. CURB JEFFERSON BLVD, 20 FT. W/O CTR LINE HETZLER RD., 0.26 MI. W/O C/L HOLDREGE AVE., E. END CB

ELEVATION = 79.65 FEET (ADJUSTMENT OF 2000)

NOTES:

1. THIS MAP WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. EXISTING EASEMENTS (IF ANY) ARE NOT SHOWN HEREON.
2. THIS IS NOT A MAP OF A BOUNDARY SURVEY. NO PROPERTY CORNERS HAVE BEEN SET AS A PART OF THIS WORK.
3. THE SUBJECT PROPERTY LINES SHOWN HEREON ARE BASED ON LOS ANGELES COUNTY DEPARTMENT OF REGIONAL PLANNING GIS INFORMATION AND ARE FOR GRAPHICAL PURPOSES ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION TIES. CHRIS NELSON & ASSOCIATES DID NOT PERFORM A BOUNDARY RESOLUTION. A FIELD SURVEY MAY INDICATE DIFFERENCES IN ACTUAL LOCATIONS.
4. SURVEY MONUMENTS FOUND IN THE COURSE OF THIS MAPPING ARE SET BY OTHERS, AND HAVE BEEN USED ONLY AS REFERENCE FOR THE PURPOSE OF TOPOGRAPHICAL MAPPING, WITHOUT OUR VERIFICATION OF THEIR AGREEMENT WITH APPLICABLE LEGAL DESCRIPTIONS AND SENIORITY OF DEEDS.
5. RELATION OF TOPOGRAPHIC FEATURES (FENCES, WALLS, TREES, UTILITY POLES, ETC.) TO PROPERTY LINES AS SHOWN HEREON IS SUBJECT TO THE ADJUSTMENT THAT A BOUNDARY SURVEY MAY REQUIRE.
6. LANDSCAPING AND LANDSCAPE IRRIGATION DEVICES MAY EXIST WITHIN THE PROPERTY AND ARE NOT SHOWN.
7. TREELINE CANOPIES ARE PICTORIAL AND MAY NOT REFLECT TRUE DRIPLINES.
8. IF RETAINING WALLS OR SIMILAR STRUCTURES ARE TO BE DESIGNED FROM TOPOGRAPHY SHOWN HEREON, THE ELEVATIONS OF CRITICAL POINTS CONTROLLING THE DESIGN MUST BE VERIFIED PRIOR TO ADOPTION OF FINAL DESIGN.

AERIAL SURVEY NOTE:
THIS AERIAL SURVEY WAS COMPILED BY DON REID CORPORATION, WITH 1 FOOT CONTOUR INTERVALS FROM THE AERIAL PHOTOGRAPHY.

PROFESSIONAL LAND SURVEYOR — CHRIS D. NELSON — No. 6385 — STATE OF CALIFORNIA

REVISION NOTES		
DATE	DESCRIPTION	BY

PREPARED BY:
chris nelson & Associates, inc.
[PROFESSIONAL LAND SURVEYORS]
3130 Wilshire Blvd., Suite 402, Santa Monica, CA 90403
Voice: 818.991.1040 Fax: 818.991.0614

PREPARED FOR:
OVER J, INC.
www.overjinc.com

AERIAL PHOTOGRAMMETRIC
TOPOGRAPHIC SURVEY
LOWER BALLONA CREEK
WASHINGTON BOULEVARD TO HIGUERA STREET
ALONG A PORTION OF THE BOUNDARY OF CULVER CITY AND THE CITY OF LOS ANGELES

JOB NO. 18-4518
SCALE: 1" = 200'
DATE: MARCH 2018
DRAFTED: TMH

SHEET NO.
1
OF 11 SHEETS

PREPARED BY:
chris nelson & Associates inc.
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JOB NO. 18-4518
SCALE: 1" = 20'
DATE: MARCH 2018
DRAFTED: TMH

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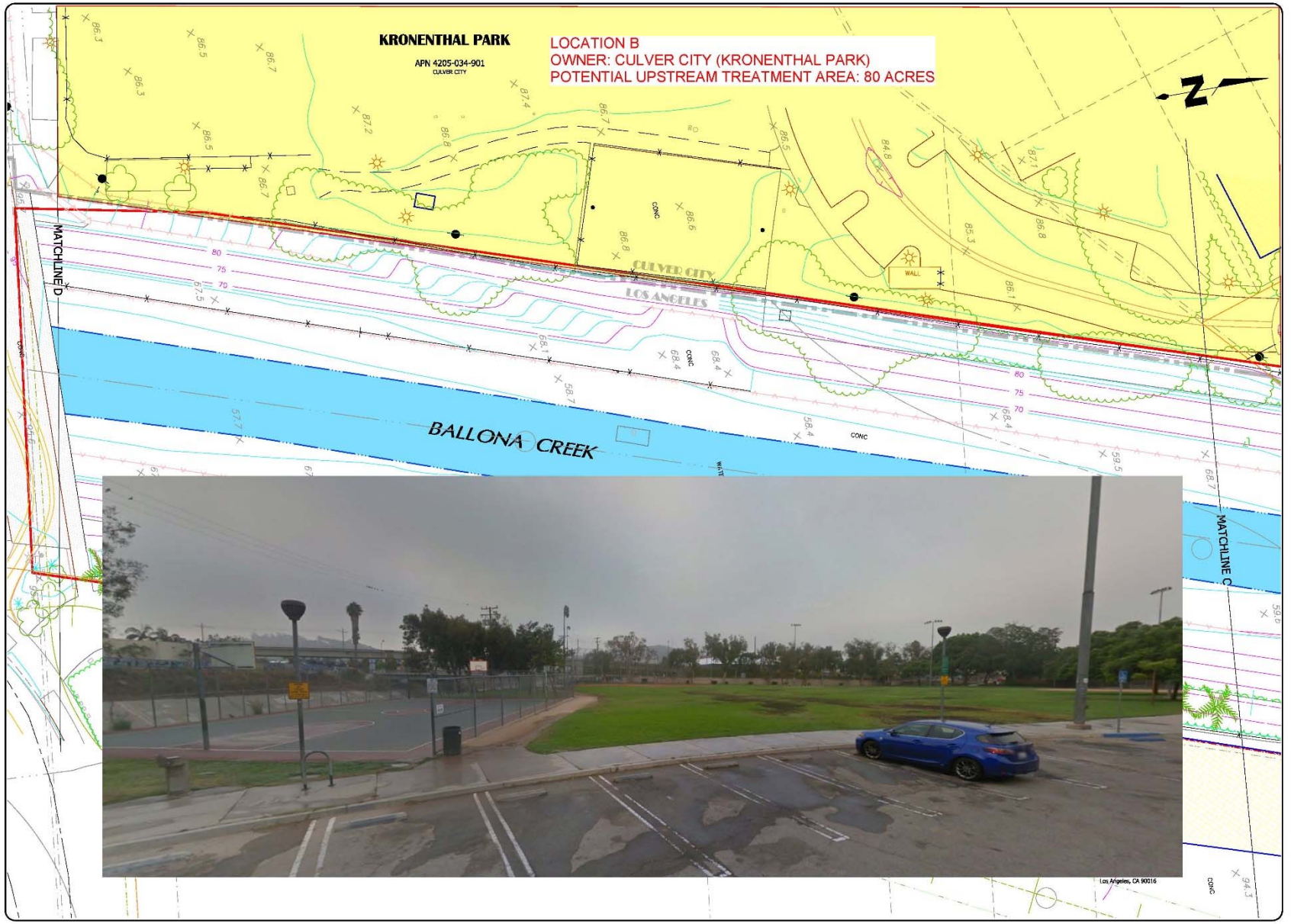

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DATE: MARCH 2018
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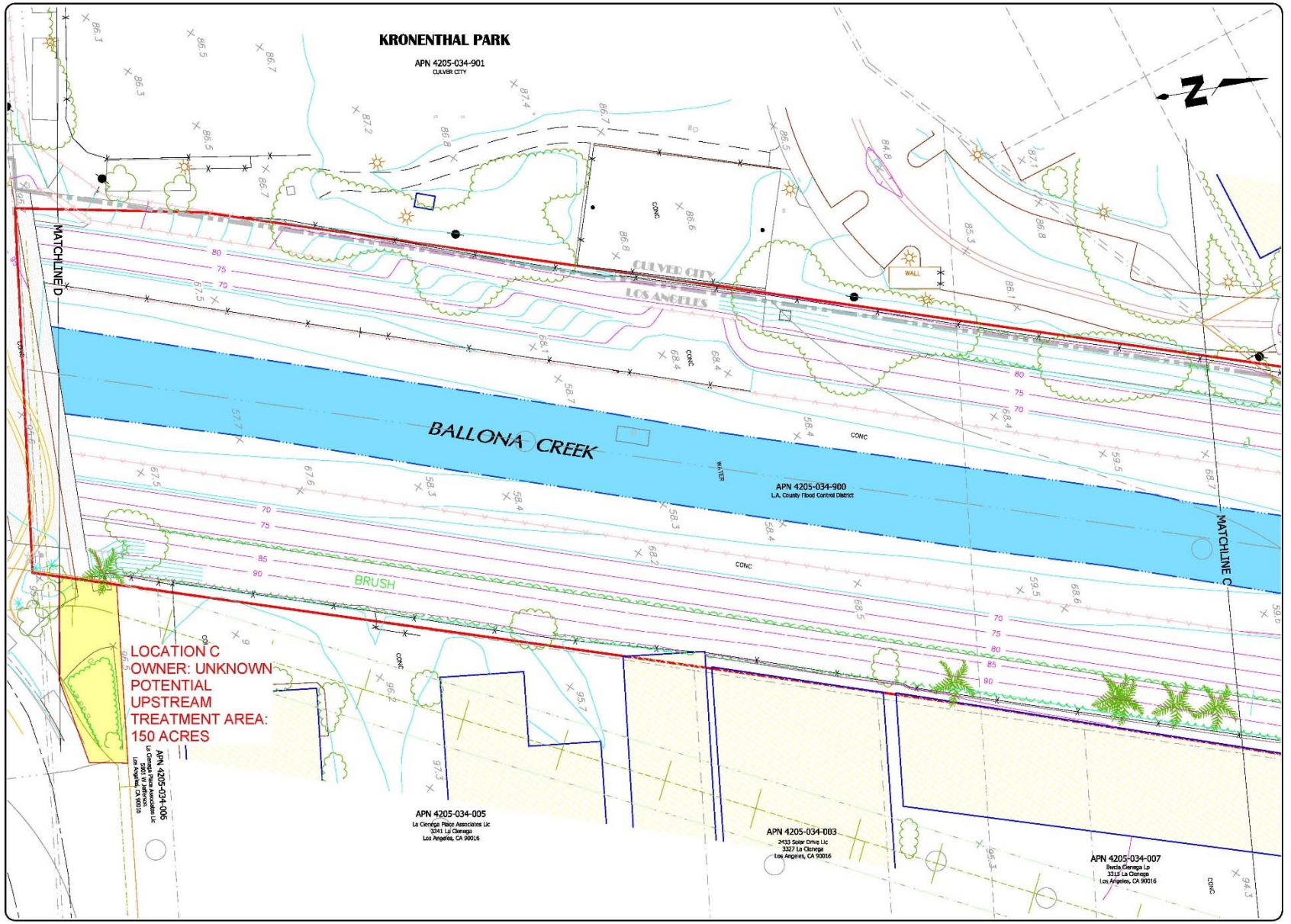

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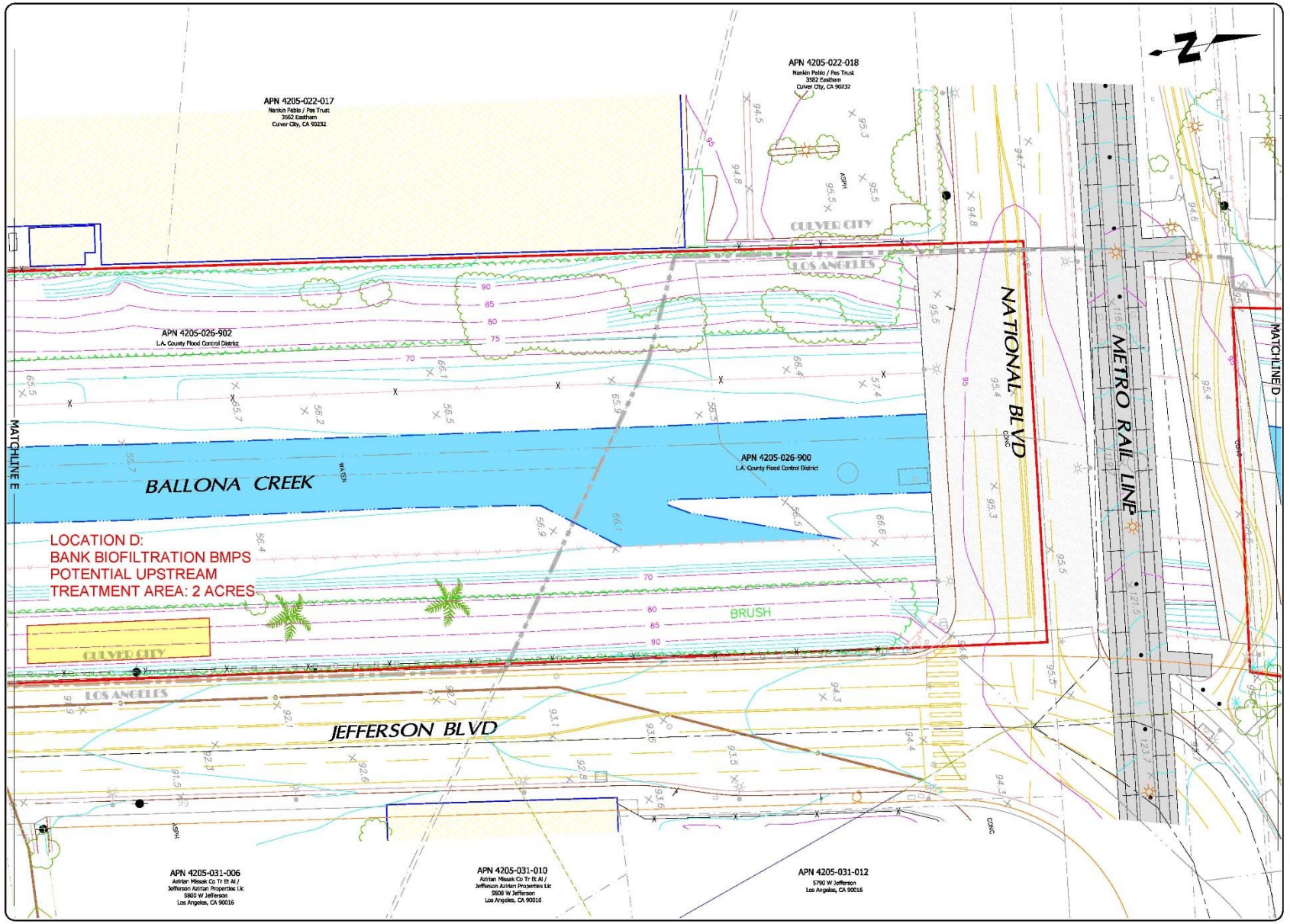
OF 11 SHEETS



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DRAFTED: TMH

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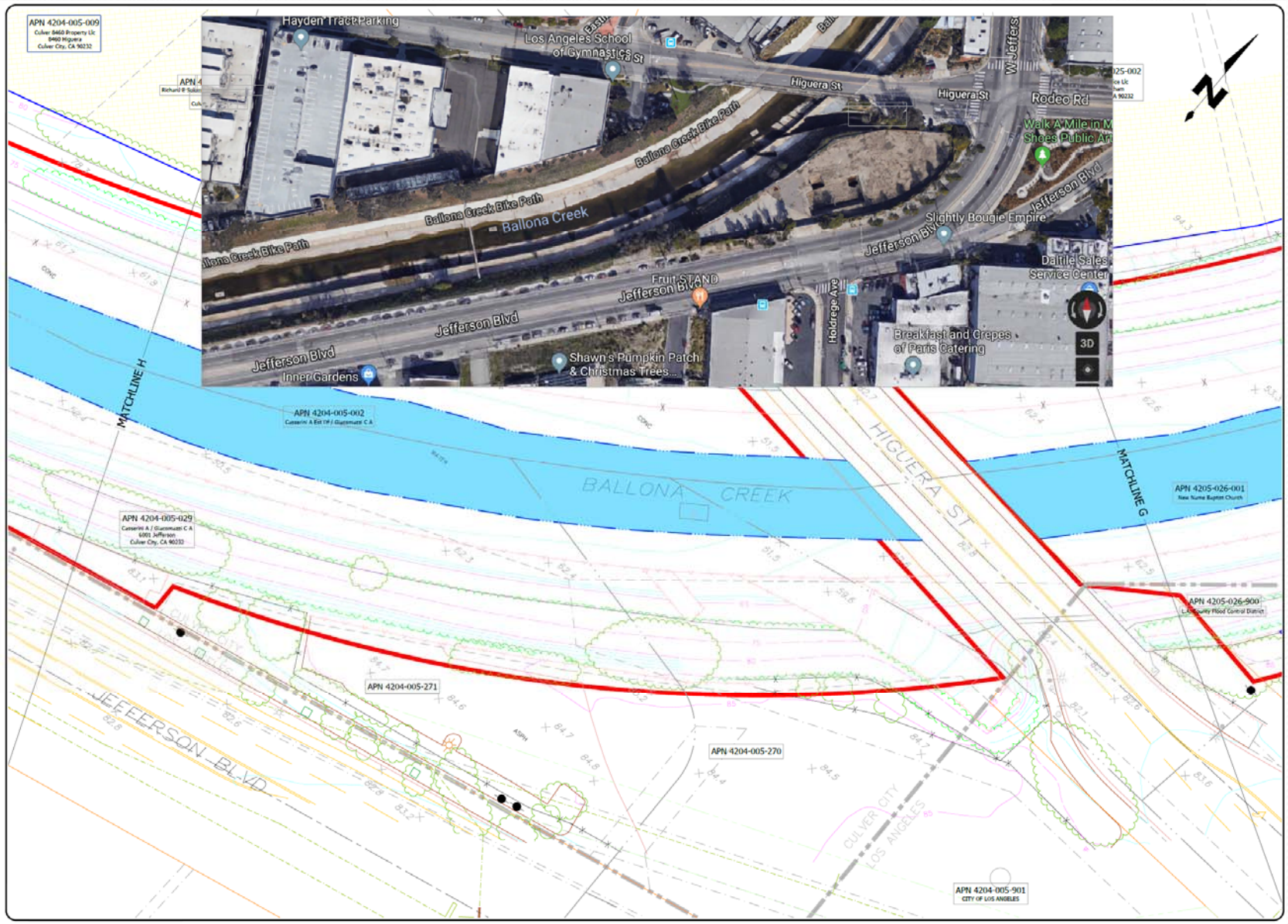
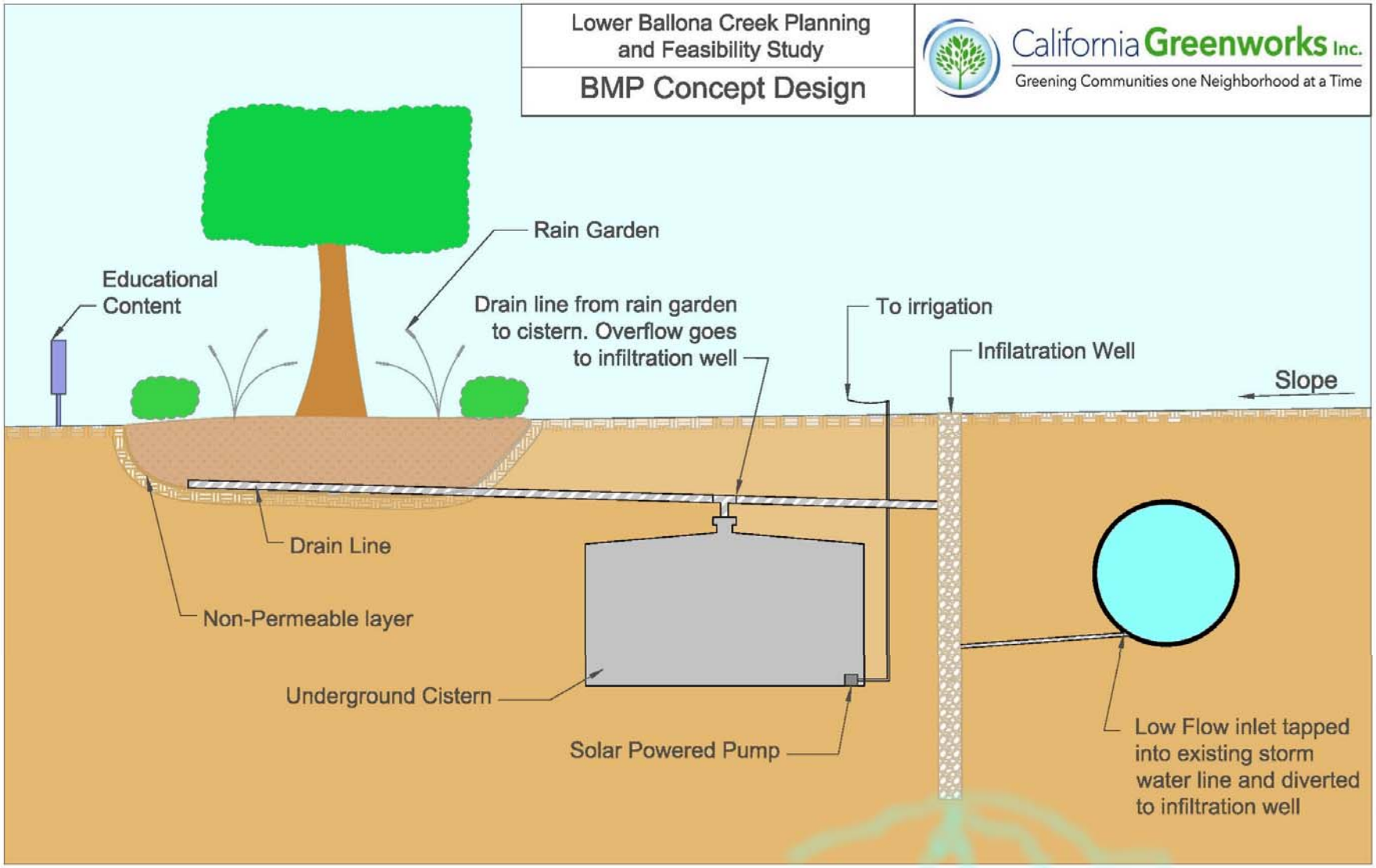
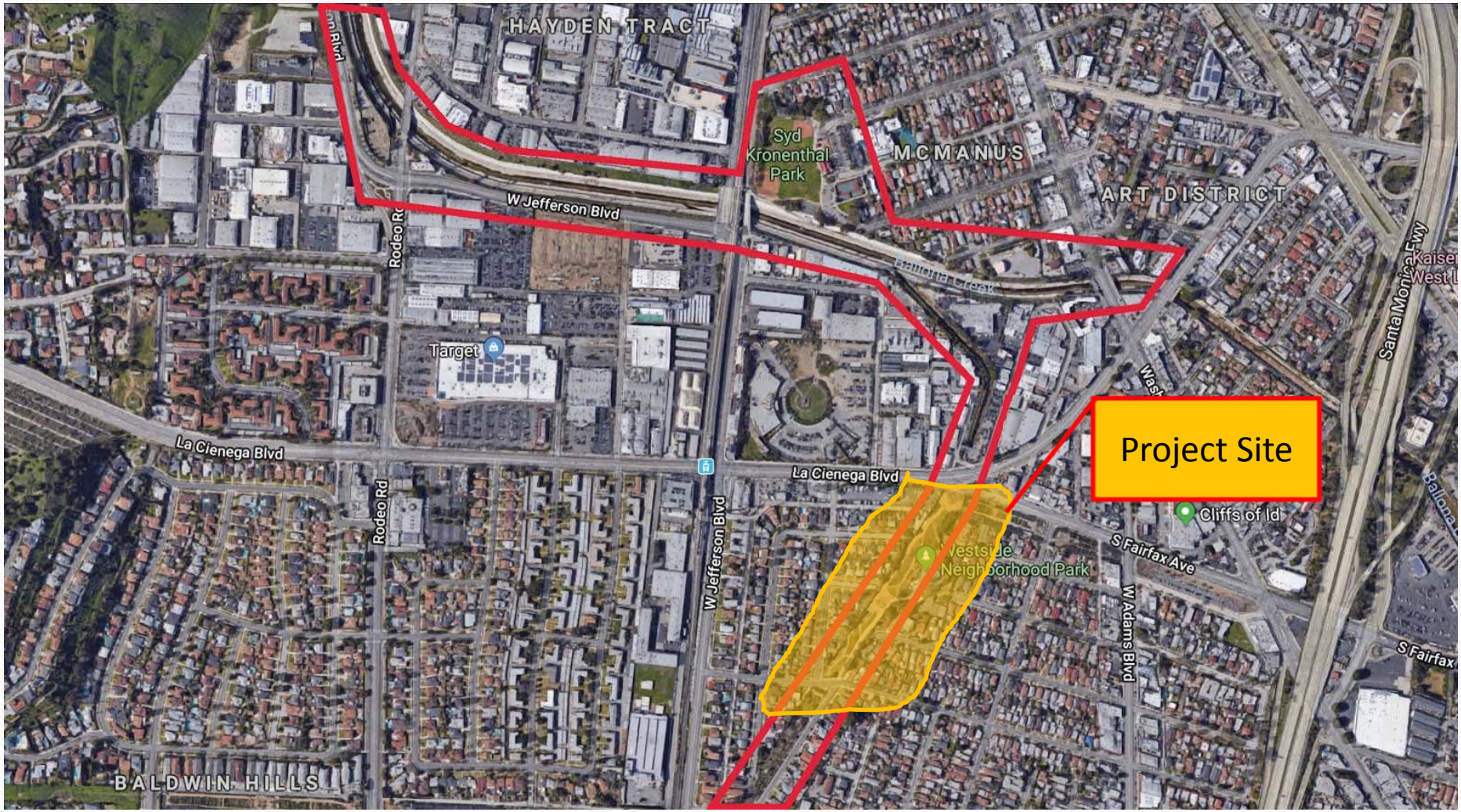
OF 11 SHEETS


APN 4204-005-009
Culver 8460 Property Llc
8460 Higuera
Culver City, CA 90232
Hayden Tract Parking
Los Angeles School of Gymnastics
Higuera St
Rodeo Rd
Walk A Mile in M
Shoes Public Art
Ballona Creek Bike Path
Ballona Creek
Jefferson Blvd
Slightly Bougie Empire
Daltile Sales
Service Center
Fruit STAND
Holdrege Ave
Breakfast and Crepes
of Paris Catering
Shawn's Pumpkin Patch
& Christmas Trees...
Inner Gardens
3D
MATCHLINE H
MATCHLINE G
APN 4204-005-002
BALLONA CREEK
HIGUERA ST
APN 4205-026-001
APN 4204-005-029
APN 4205-026-900
APN 4204-005-271
APN 4204-005-270
JEFFERSON BLVD
CULVER CITY
LOS ANGELES
APN 4204-005-901
CITY OF LOS ANGELES


Lower Ballona Creek Planning and Feasibility Study
BMP Concept Design
California Greenworks Inc.
Greening Communities one Neighborhood at a Time
Rain Garden
Educational Content
Drain line from rain garden to cistern. Overflow goes to infiltration well
To irrigation
Infilatration Well
Slope
Drain Line
Non-Permeable layer
Underground Cistern
Solar Powered Pump
Low Flow inlet tapped into existing storm water line and diverted to infiltration well

Site Assessment

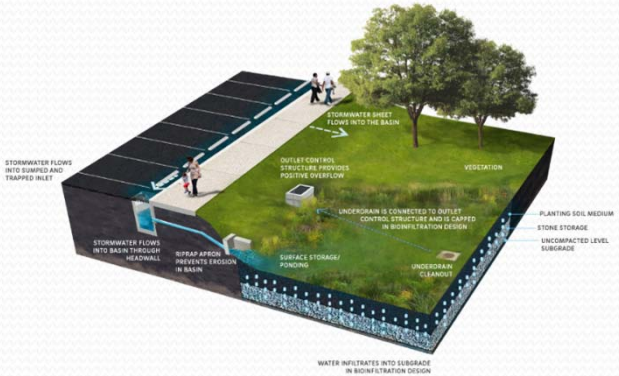
Site #1: Westside Neighborhood Park



Why Westside Neighborhood Park?

- Large Public Site that can benefit from beautification
- Two Nursery sites which may utilize reclaimed water
- Potential to extend into blackwelder business tract
- Directly connected to Ballona Creek
- Nearby Metro Station to promote site access and popularity
- Surrounding DAC neighborhood can benefit from park activities and can be targeted for education and outreach

Westside Neighborhood Park Potential



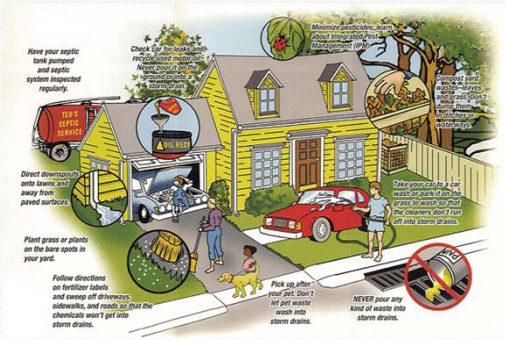
Implementation of Green BMPs to offset hundreds of acres of water from Ballona Creek

Park can be designed to maximize use in exercise and community activities

Interactive water quality themed Play 'n' Learn area for neighborhood children

Potential to extend BMPs and track through blackwelder for employee engagement

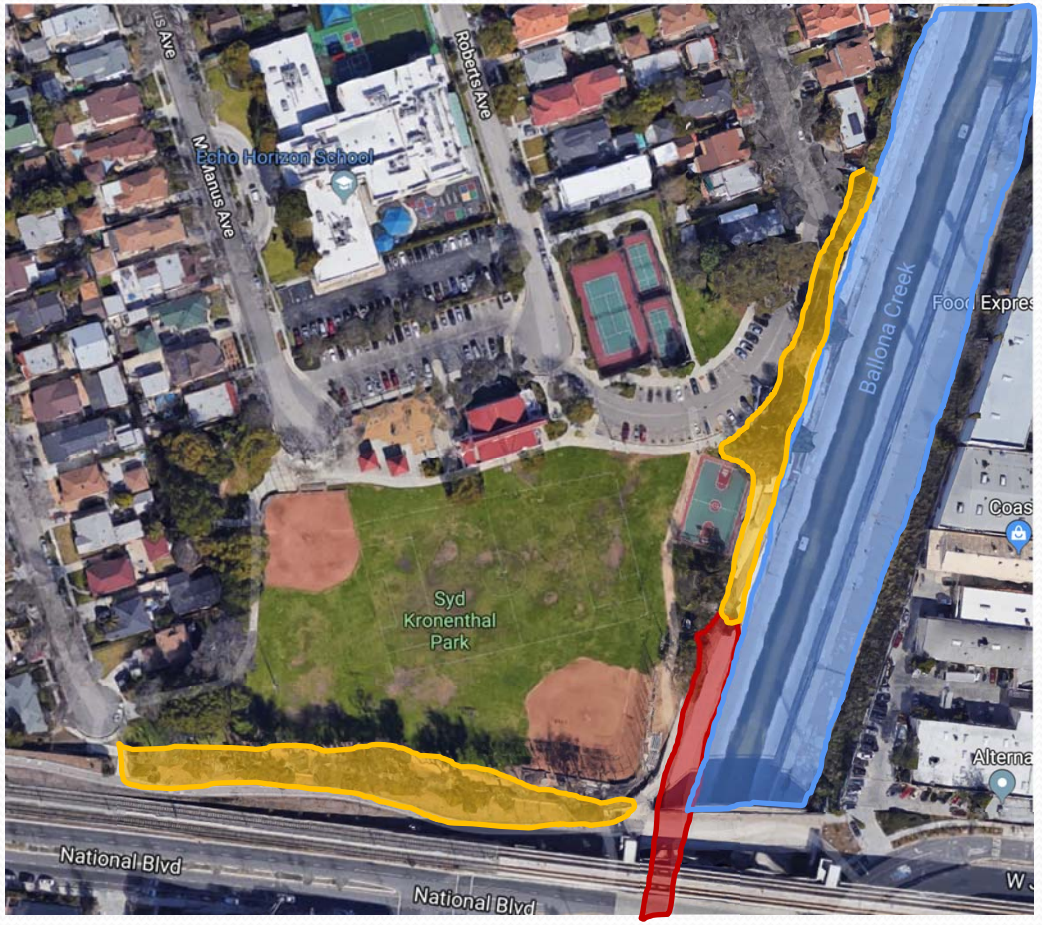
Redesign can accommodate pop-up business culture in effort to boost local small business engagement as well as generate park income to offset maintenance costs



Park Outreach program can work to promote adaptation of BMPs in nearby neighborhood homes and can include car washing programs minimize contributions to runoff pollution

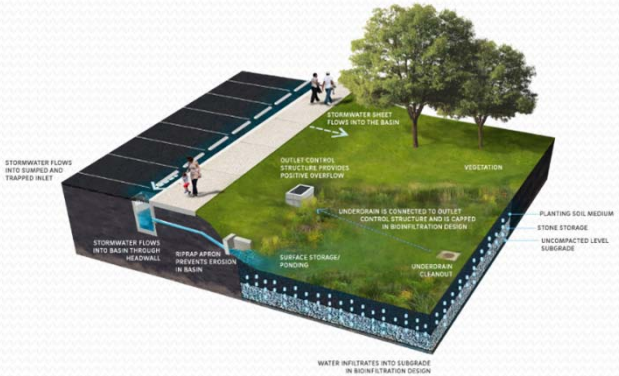
Site #2: Syd Kronenthal Park

Why Syd Kronenthal Park?



- Public Site that can benefit from beautification
- Future improvement planned at site which can reduce costs if planned with our project
- Directly connected to Ballona Creek
- Connected to bike popular bike path
- Surrounding neighborhood can benefit from park activities and can be targeted for education and outreach

Syd Kronenthal Park Potential

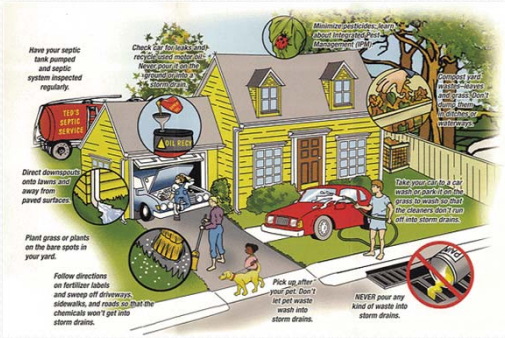


Implementation of Green BMPs to offset up to 80 acres of water from Ballona Creek

Improvement work can be coordinated with future project to share costs

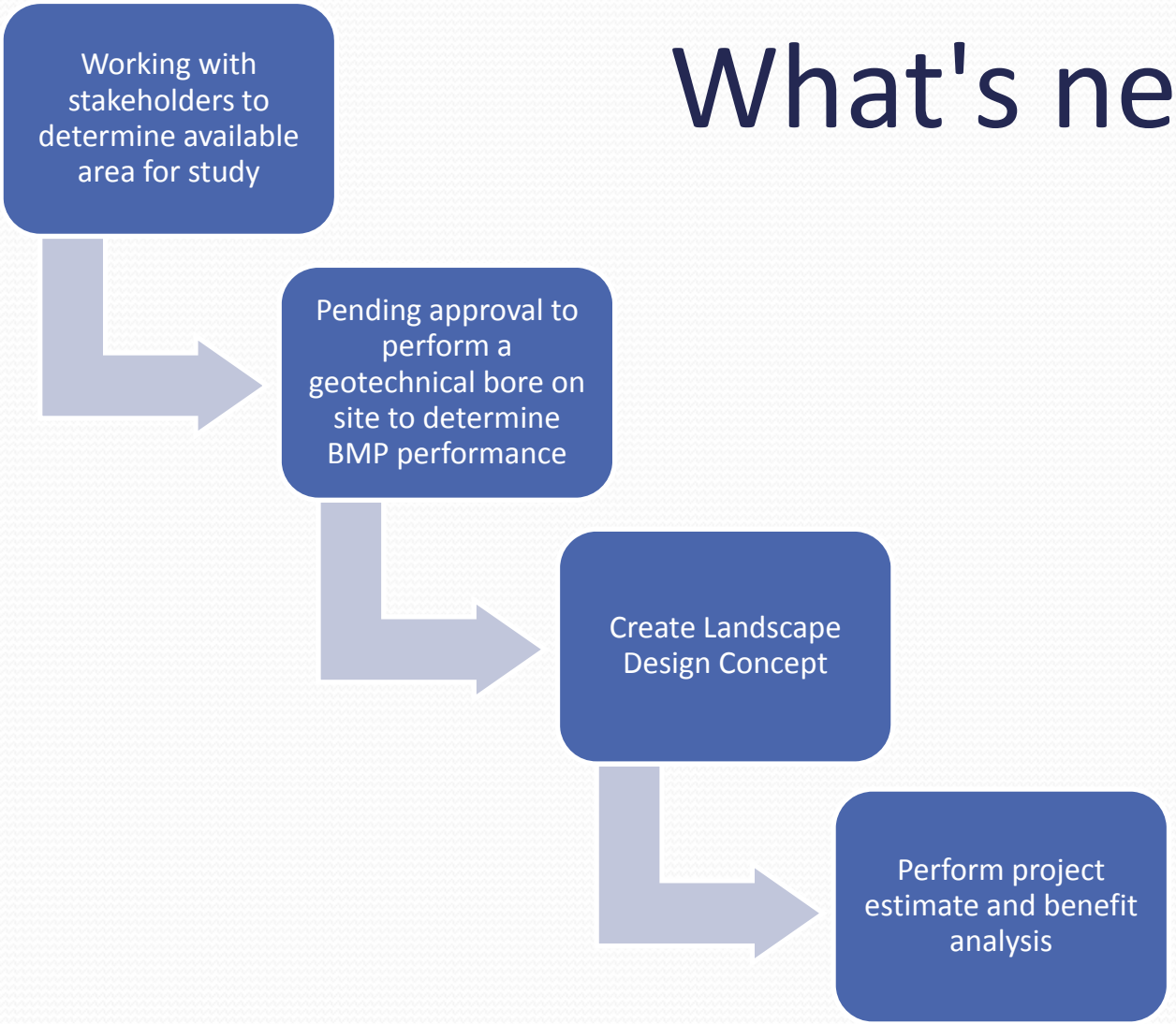
Interactive water quality themed Play 'n' Learn area for neighborhood children

Potential to extend benefits to bike path in future



Park Outreach program can work to promote adaptation of BMPs in nearby neighborhood homes and can include car washing programs minimize contributions to runoff pollution

What's next?


Working with stakeholders to determine available area for study
Pending approval to perform a geotechnical bore on site to determine BMP performance
Create Landscape Design Concept
Perform project estimate and benefit analysis

Feasibility Criteria

- Ultimately feasibility will be assessed on a ROI considering the following variables:
  - Project Cost (C)
  - Maintenance Costs (M)
  - Economic Benefit (E)
  - Water Reclaimed (W)
  - Offset cost of pollutants (P)

$$ROI = \frac{\text{Net Benefit}}{\text{Investment Cost}} \times 100 = \frac{E + W}{C+M-P} \times 100$$

All variables to be converted to US dollars

Project Risks

Difficult to get coordinate with private properties. Requires outreach to property owners before permitting of future development or re-development.

Multiple jurisdictional control that will require joint or collaborate efforts to achieve BMPs success

Design of Infiltration BMPs require a minimum separation of 10-feet from historic ground water regardless of current level

Modification of the stormwater facilities can trigger Army Corp of Engineers involvement which can greatly extend project schedule and costs

Mitigations and Efficiencies

Utilization of existing public records of nearby properties as benchmarks for soil analysis can reduce boring costs and frictions of obtaining property owner permission

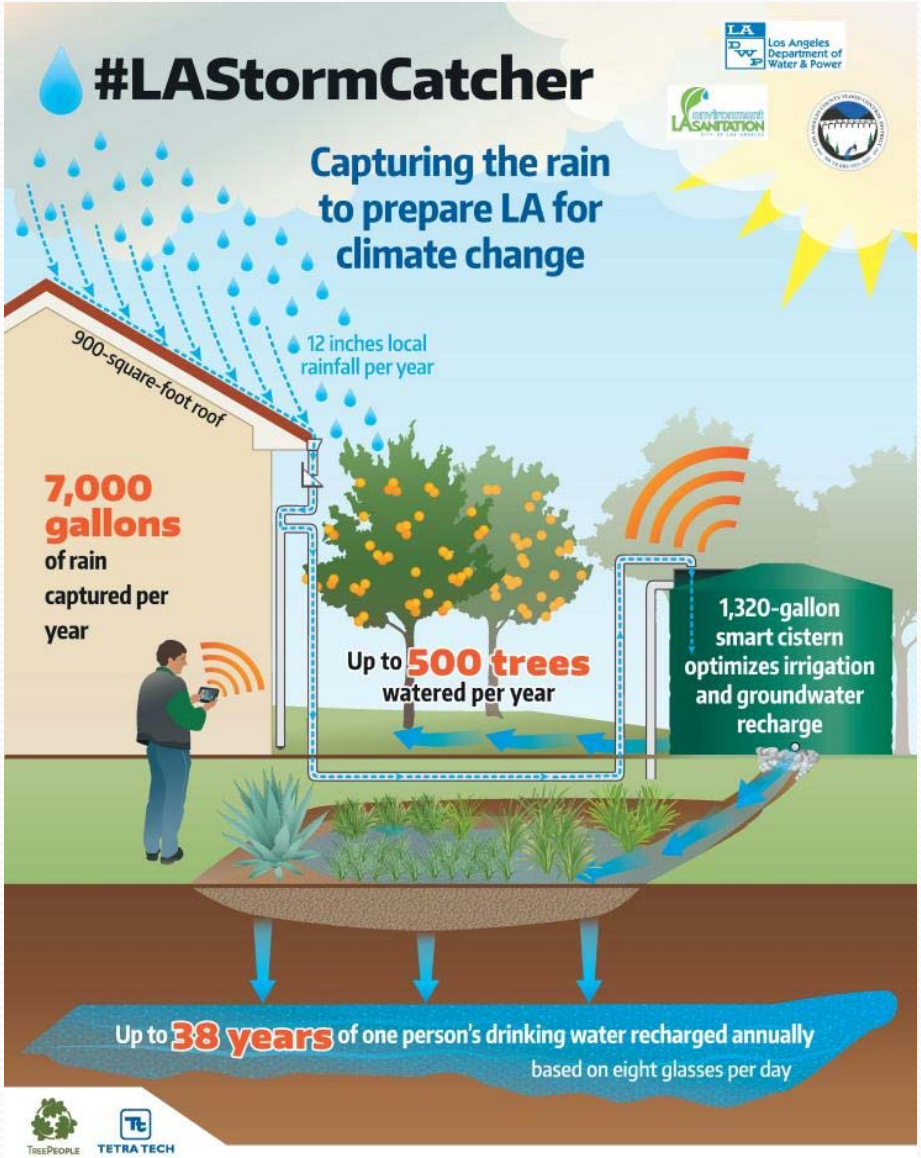
By standardizing BMPs designs and integrating hydrology analysis with public records, BMPs project costs can be greatly reduced by being incorporated in future development or re-development projects

Increased effort in community outreach can rally support for the project as local residents are educated on the benefits and potential of the design

Increase outreach efforts and seek out opportunities to collaborate with local non profits to boost volunteer hours in effort to reduce project maintenance costs

Outreach and Education

Potential Impact of Education and Outreach



Stakeholder Meeting Events

1st Presentation/Design Workshop April 2018

2nd Presentation/Preliminary Engineering and Feasibility July 2018

3rd Presentation/Draft Landscape Conceptual Plan January 23rd 2019

4th Presentation/Final Planning and Feasibility Study March 2019 (Tentative)

List of Stakeholders

- **Cities/County**
  - City of Culver City, Public Works Department
  - City of Culver City, Parks and Recreation Department
  - City of Los Angeles, Department of Water and Power
  - City of Los Angeles, Sanitation Department
  - City of Los Angeles, StormWater Management Department
  - City of Los Angeles, Public Works Department
  - City of Los Angeles, Parks and Recreation Department
  - Los Angeles County, Watershed Management, Flood Control District
- **State and Federal Agencies**
  - Los Angeles Regional Water Quality Control Board
  - Los Angeles Army Corps of Engineers (ACoE)
  - Baldwin Hills Conservancy

List of Stakeholders (cont.)

- **Community and Neighborhood Organizations**
  - Mid-City Council
  - Neighborhood Councils • Citizens Coalition
  - West Area Neighborhood Council
  - Greater Wilshire Council
  - Mid-City West Council
  - South Robertson Council
  - West Adams Council
  - West Los Angeles Council
- **Non-Profit and Academic Organizations**
  - Ballona Creek Renaissance
  - Friends of Ballona Creek
  - Property Owners
  - Hayden Tract
  - Blackwelder Business Tract
  - Good Earth Community Garden
  - First Image Nursery

Two Public Awareness Workshops

- **Overview**
  - The public awareness workshops will be two (2) separate 1-hr seminar on LA stormwater issues. We will host the event in one of the
- **Agenda**
  - First topic is why we need Stormwater Management
  - Second topic is how these projects are implemented and how the public voices their support (What is a feasibility study, how measure W works, etc.)
  - Third topic is what are natural BMP's and how do they work
  - Fourth topic is a brief presentation of our project and how it ties all the above together.
- **Location**
  - Veteran's Community Center
- **When**
  - March and April of 2019

Outreach Presentations in conjunction with Neighborhoods including Government and Public Agencies

Earthfest LA 2018

- Earthfest was held October 20th, 2018. The event included music, food and informative Kiosks that communicated our project goals and the importance of water conservation in the Los Angeles area.
- Total estimated visitors that attended were: 300+ persons

Movie in the Park 2019 (Westside Neighborhood Park)

- An outdoor movie theatre setup will be held on our proposed project site for the DAC's in the immediate are around. A brief and educative presentation will be held discussing water convercany, one speaker will be supplied by California Greenworks, we will also recruit a federal or city agency to supply a speaker as well. Our presentation will be followed up by a ocean-themed movie that is Rated G. Tentatively scheduled for April of 2019
- Outreach will be needed for Council District 10 to get sponsorship for this event
- Begin process for approval and obtaining CUP if needed immediately after this outreach plan is approved.
- Target audience will be those identified in the next slide.

BMP Workshop (tentative)

- We will work with a nursery to host an outdoor hands-on event where we will construct a rain garden. We will target a church, elementary school or community center in the surrounding area. We will give a quick presentation on BMPs and their roles in LA's stormwater management plan.
- Tentatively setup for June 2019

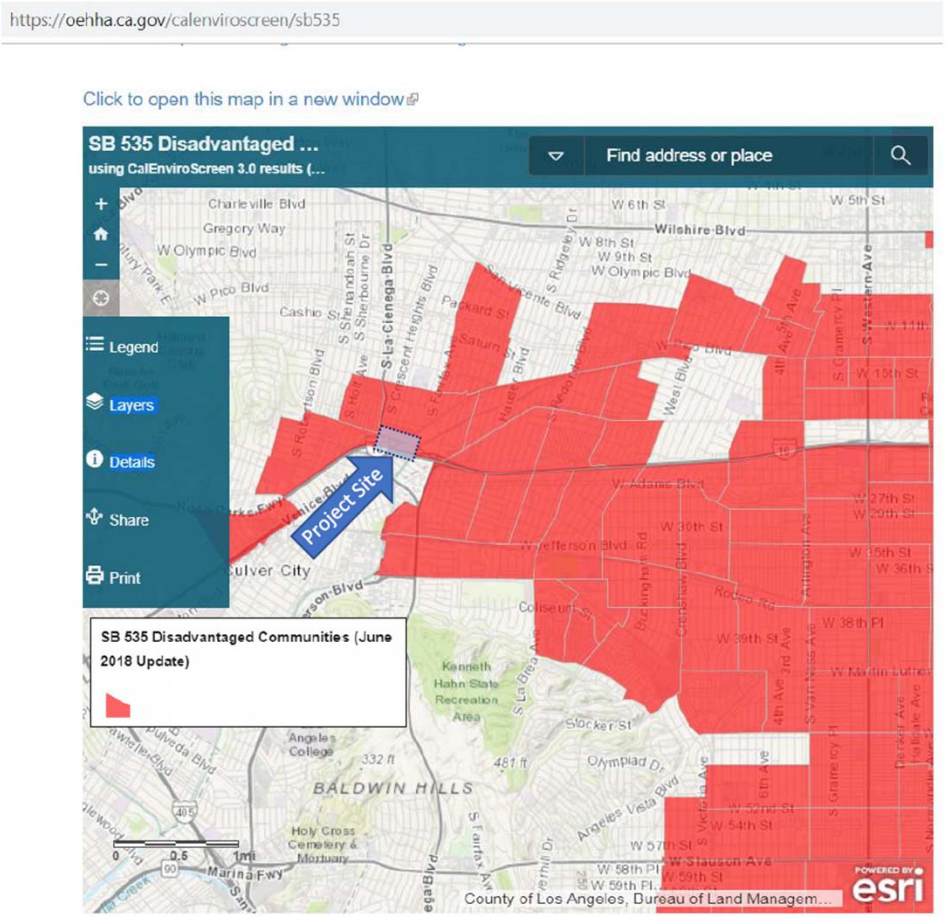
Survey of Controlled Group

Target: Disadvantaged Communities

Our target is any disadvantaged community identified on the OEHHA database that is within a 30 minute public transit ride from our project site. Google maps will assist in determining reach perimeter.

Communities will be organized by zip code giving priority to lowest average income from data pulled from the Census Bureau and will include:

- Residents
- Local businesses
- Schools



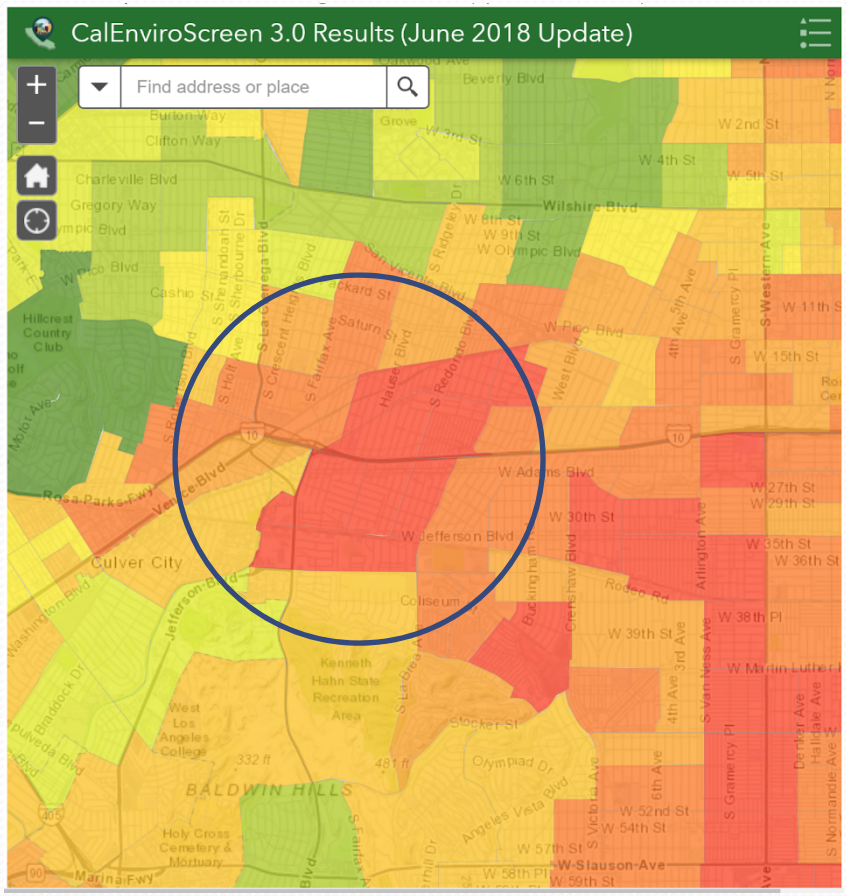
Survey Sample Size

A 2-mile radius was taken from the project site was 158,620 people

Utilizing a confidence level of 95% and margin of error of 1%

9,056 people

Will be targeted for our survey



Survey Objective

1. Identify public support for the project
2. Increase awareness of stormwater issues
3. Collect ideas/requirements for people and local businesses to get involved

Survey Distribution: Residences

Option 1: Social Media

The strategy is to push surveys through social media platforms utilizing in client survey tools and survey monkey. Data from "The 2018 Social Audience Guide" published by Spredfast will be used to assign an age group by social media platform that are most effective. And broken up into two groups:

Current Voters

18 years or older with a heavier influence on people from ages 18 to 49.

Future Voters

13-17 years old with a heavier influence on awareness

https://www.spredfast.com/social-media-tips/social-media-demographics-current

Option 2: Student Outreach

Lecturer on stormwater issues will be given by volunteers to schools in DAC's from elementary schools to colleges

Option 3: Advertise on Metro

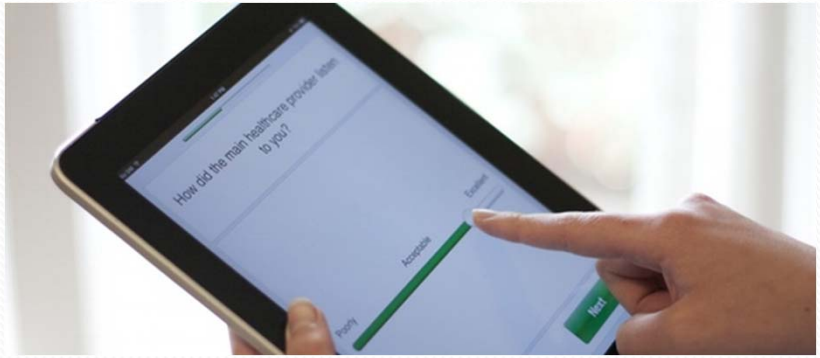
Since our project is located near a metro station we can utilize advertising on public transit vessels like the metro lines to raise project awareness. Links to project site can be pulled up for further info and options to take surveys or sign up as a volunteer

Metro

Survey Distribution: Local Businesses & Public Agencies

Option 1

On foot surveys will be issued to various positive local business within the outreach zone outlined previously.



Option 2

Linkedin and Facebook can be utilized to reach out to local businesses and agencies to take surveys or get involved

Survey Strategy

- The survey's will be promoted on Facebook and will begin with a short film briefly outlining the issues with stormwater management in the LA area. We will then introduce the project, its goals and what it's potential reclaim will be. Once the video is concluded the viewers will be prompted with a survey. This will be handled with Facebook tools. The video will be less than 1 minute long to maximize engagement.

- Based on survey turnout, if we are not reaching our goals we will begin an email marketing campaign and which will include a brief executive summary of the project and include link to the video which will be put on YouTube. There will also be a link to a survey which will be managed through "Survey Monkey"

- We will also be issuing our survey questions out at our events and meetings as well. If survey goals haven't been met then we will begin distributing surveys through mail.

- A typical survey timeline on Facebook is a 1-week campaign and tends to reach thousands at a time. Timeline to make a video will beginning of February 2019. We would like to show the video at the movie in the park event. Therefore the survey timeline for the residents will likely be occurring in multiple intervals between February and June of 2019.
- Surveys will be split into 2 categories: Residents and Local Business

Residential Survey Questions

- What was your understanding of the storm water issues in LA before the video?
  - Scale of 1-5 with a fill in line and room for them to elaborate if needed
- What was your understanding of storm water issues after the video?
  - Scale of 1-5 with a fill in line and room for them to elaborate if needed
- Do you support the Lower Ballona Creek Planning and Feasibility Study Project?
  - Yes/No with room to elaborate
- Would you like to volunteer to support the project? If so please fill in how you would like ot help (i.e. landscaping, coding/wordpress, outreach, donations, etc.).
  - Yes/No with room to elaborate
  - Link to facebook volunteer page will be available for them to click
- Do you have any ideas you'd like to see implemented or feedback on our efforts?
  - Open box for writing

Local Business Questions

- What was your understanding of the storm water issues in LA before the video?
  - Scale of 1-5 with a fill in line and room for them to elaborate if needed
- What was your understanding of storm water issues after the video?
  - Scale of 1-5 with a fill in line and room for them to elaborate if needed
- Do you support the Lower Ballona Creek Planning and Feasibility Study Project?
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- Would you like to volunteer to support the project? If so please fill in how you would like ot help (i.e. landscaping, coding/wordpress, outreach, donations, etc.).
  - Yes/No with room to elaborate
  - Link to facebook volunteer page will be available for them to click
- Are you willing to invest in the construction of green BMP infrastructures on your properties? If not what incentives would need to be present to do so?
  - Yes/No with room to elaborate
  - Our project lead contact information will be available on the local business survey only.
- Do you have any ideas you'd like to see implemented or feedback on our efforts?
  - Open box for writing

Quarterly Summary of Volunteer Recruitment

- A Facebook account separate from California Greenworks page will be created as a platform to organize recruited volunteers.
- California green works will begin promoting volunteering opportunities and giving people the opportunity to sign up for an on-call service managed through Facebook.
- We will begin promoting material December 2018 and will start reporting recruitment numbers January 2019 and monthly from that point on.
- To raise interest, awareness and boost volunteer interest we have investigated 3rd party social media marketing services which include the development and distribution of social media content and the management of outreach goals and volunteer reporting
- The social media platform will be setup and ready for tracking by the date of the survey, tentatively set for the first week of February

Outreach Schedule

Ballona Creek Outreach Schedule	2018				2019				2019				2019				2019				2019				2019			
	December				January				February				March				April				May				June			
Outreach Scope	WK1	WK2	WK3	WK4	WK1	WK2	WK3	WK4	WK1	WK2	WK3	WK4	WK1	WK2	WK3	WK4	WK1	WK2	WK3	WK4	WK1	WK2	WK3	WK4	WK1	WK2	WK3	WK4
Stakeholder Meeting							23																T					
Public Workshop 1										T								T										
Public Workshop 2																												
Public Outreach Event: Movie in Park																	T											
Public Outreach Event: BMP Workshop																								T				
Social Media Survey Campaign																								T				

Target Group*		
	Stakeholder Group 1	Cities, Governments and Federal Agencies Property Owners
	Stakeholder Group 2	Community and Neighborhood Organizations
	Stakeholder Group 3	Stakeholder Group 1 and 2

* See List of Stakeholder Slide for stakeholder by name

Open Forum

Thank you for coming!

California Greenworks Inc.
Greening Communities one Neighborhood at a Time

BALDWIN HILLS PARK LANDS

PROP 1
GOVERNOR GAVIN NEWSOM
WATER BOND 2014
RELIABILITY | RESTORATION | RESILIENCE

LA DWP Los Angeles Department of Water & Power