



Stakeholder Workshop #4

October 26, 2016



One Water LA Decision Time



Part 1 (Today)

- Projects & Criteria
- Criteria Exercise
- Portfolio Themes

Part 2 (Early December)

- Long-term Policies
 Brainstorm
- Project Scoring Update
- Portfolio Evaluation Update

Part 3 (Early 2017)

- Long Term Policies Wrap-Up
- Implementation Strategies
- Wastewater & Stormwater
 Facilities Plans



Objectives of One Water LA Decision Time (Part 1)

Present an Overview of **Alternatives Analysis Process** Present **Potential Projects** to meet 2040 Goals Conduct **Evaluation Criteria Exercise Obtain Input on Portfolio Themes** One Water LA

		Agenda
1.	Welcome & Progress Update a. One Water LA Progress Update b. Stakeholder Input To-Date & Look-Ahead	1:00-1:15 pm
2.	Alternatives Analysis a. Alternatives Analysis Process b. Q&A c. Projects Review d. Q&A	1:15-2:00 pm
3.		2:00-3:00 pm
4.		3:15-3:45 pm
5.	Next Steps and Meeting Close	3:45-4:00 pm







1a. Progress Update



Progress Update - Overview

Final Steps:

Q1 2017

- Project Timeline & Triggers
- Short- & Long-Term Policies
- One Water LA 2040 Plan
- Programmatic EIR

Key Tasks Currently In-Progress:

- Wastewater Facilities Plans
- Stormwater Facility Plan

Q4 2016

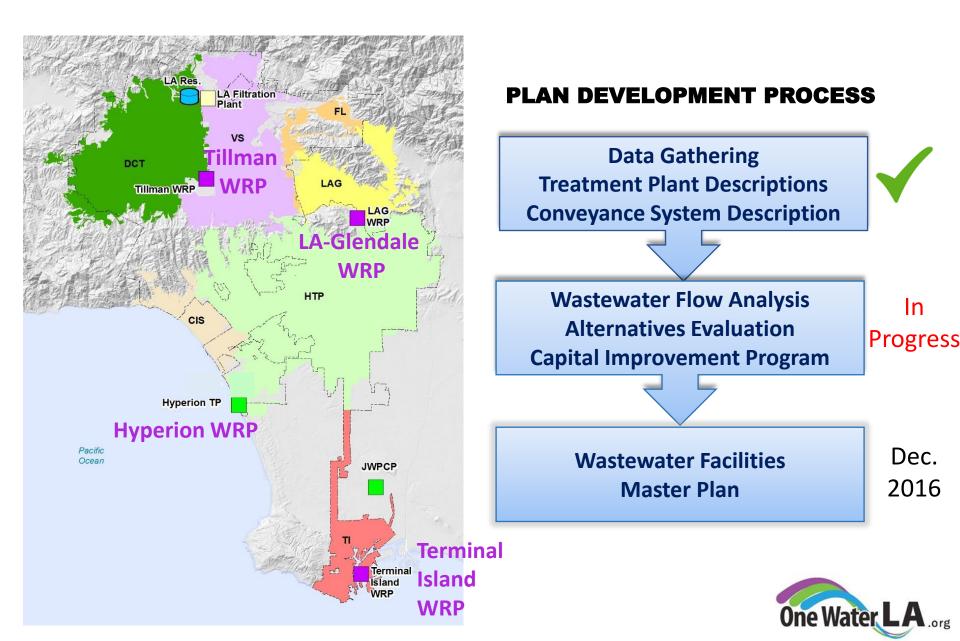
- Long-Term Alternatives Analysis
- Funding Strategies
- Climate Change Adaptation & Mitigation Plan
- LA River Flow Study

Foundational Work Completed to-date:

- Existing & Future Flow Conditions
- Mass Balance Model
- Description of Existing Wastewater & Stormwater Facilities
- Climate Change Vulnerability Assessment
- Near-Term Integration Opportunities/Case Studies
- Long-Term Integration Opportunities/Basis of Planning
- Several Special Studies



Wastewater Facilities Plans - Status





Stormwater Facility Plan - Status



2015
Enhanced
Water
Management
Plans

Stormwater Quality Cleaner Beaches & Gean Enhanced V Program for the Upper Information Water Supply Stool Approach Stormwater Capture Reduce Flooding Impacts

PLAN DEVELOPMENT PROCESS

Data Gathering
Stormwater Flows & Events
Stormwater Conveyance System



System Consideration
Stormwater System Analysis
Capital Improvement Program

In Progress

Stormwater & Urban Runoff Facilities Master Plan

Dec. 2016





Other Related Projects & Activities

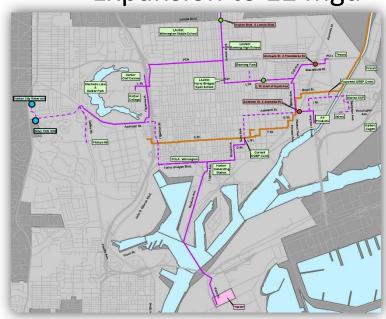
San Fernando Basin Groundwater Replenishment Project



Recycled Water Fill Station Update



Terminal Island Advance Water Purification Facility (AWPF)
Expansion to 12 mgd



Asset Management Customer Value Leading Practices Conference (late Nov)







1b. Stakeholder Input To-Date & Look-Ahead



Stakeholder Input To-Date

Stakeholder Workshop #1 (12/10/2015)



One Water LA Phase 2 Overview

Presented Mass Balance Model

Special Topic Groups invitation

Brainstorm of solutions for:

- Recycled Water
- Stormwater Solutions

Stakeholder Workshop #2 (6/29/2016)

Stakeholder

Workshop #3

(9/13/2016)



GWR Project Presentation Q&A **Special Topic Groups,** input on:

- Partnership & Collaboration
- Decentralized Treatment



- Evaluation Criteria
- Project Concepts & Policies

Input on **Climate Change**Vulnerabilities & Approach

Special Topic Groups, input on:

- Funding
- Outreach & Communication
 - Stormwater







World Café





Stakeholder Input Look-Ahead

Part 1 (Today)

Stakeholder Workshop #4



Project Evaluation Criteria
Project Concepts
Portfolio Themes

Decision
Time
Series

Part 2 (Early December)

Stakeholder Workshop #5



Long-term Policies Brainstorm Project Scoring Update Portfolio Evaluation Update

Part 3 (Early 2017)

Stakeholder Workshop #6



Long Term Policies Wrap-Up
Implementation Triggers
Wastewater Facilities Plans
Stormwater Facility Plan







2a. Alternatives Analysis



Alternatives Analysis

Objective

Identify the best overall implementation strategy to achieve the One Water LA Guiding Principles & Objectives, coupled with the Sustainability Plan targets.

Desired Outcome

A prioritized list of key projects and programs that collectively achieve the objective with a dynamic trigger-based implementation plan.

Process

A 7-step Alternative Analysis Process that provides the road-map to achieve the objectives & desired outcomes.







Alternative Analysis 7-Step Process

EVALUATION CRITERIA

1 Develop Evaluation Criteria:

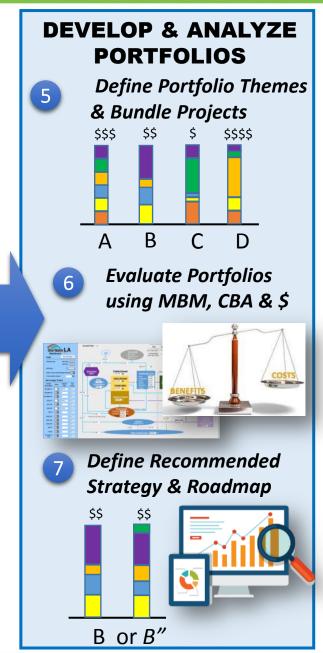
Category	Criteria
Economic	Unit Cost
Economic	Financial Benefits
Economic	Project Funding Mechanism
Economic	Likelihood to obtain Outside Funding
Resiliency	Drought Resiliency
Resiliency	Earthquake Resiliency
Resiliency	Flood Risk Mitigation
Resiliency	Local Supply Benefit
Resiliency	Energy Impact/Greenhouse Gas Emissions
Implementation	Constructability
Implementation	Institutional Collaboration
Implementation	Regulatory Approval
Implementation	Public Engagement
Implementation	Property Ownership
Implementation	Public & Political Support
Environmental	Environmental Justice
Environmental	Air Quality Improvement
Environmental	Open/Natural Space & Recreational Benefit
Environmental	Stormwater Quality
Environmental	Ecological Benefit/Habitat Restoration



Collaborative Process

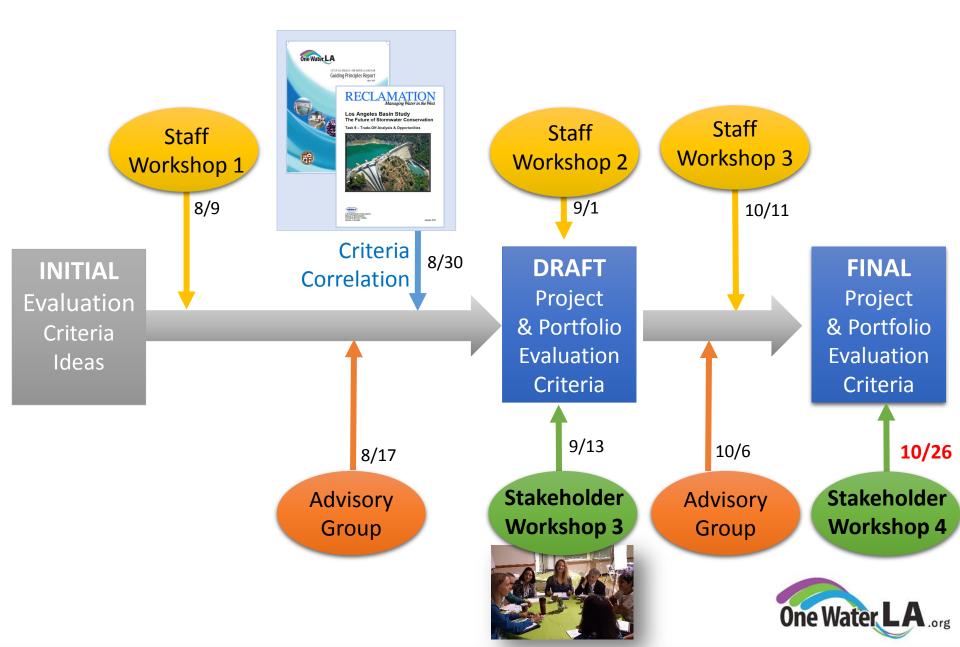
- Task 5 Project Team
- Task 5 Workgroup
- Advisory Group
- Stakeholders







Step 1 - Criteria Development





Step 1 – Develop Evaluation Criteria

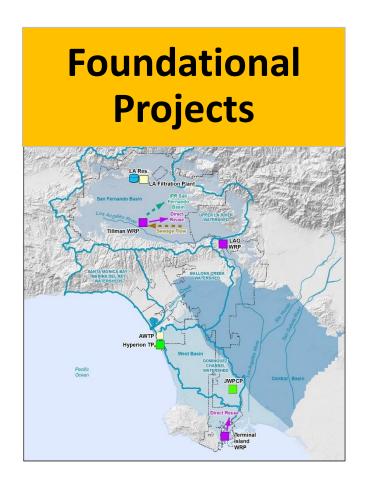


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Step 2 – Define Projects

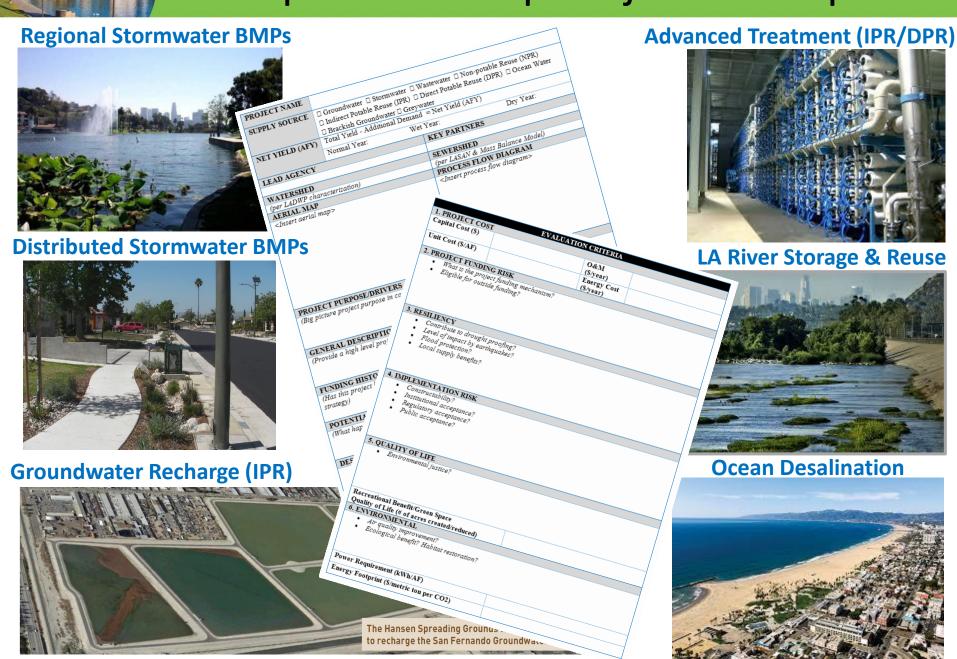






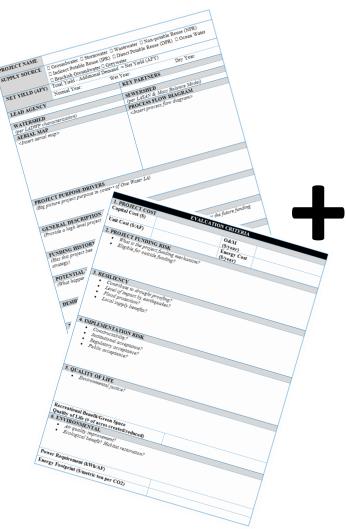


Step 3 – Develop Project Descriptions





Step 4 - Project Benefits Scoring



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- 1. Review Project Description
- 2. Assign Score 1-5 for each criteria
- 3. Calculate Total Benefit Score per Project

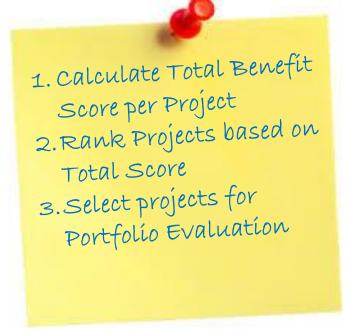


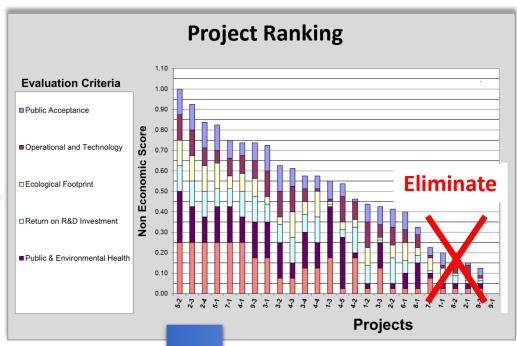
Step 5 – Define Project Portfolios

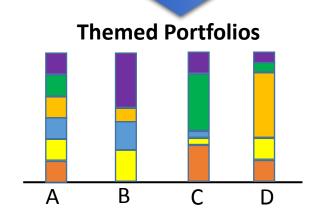
Project Scoring













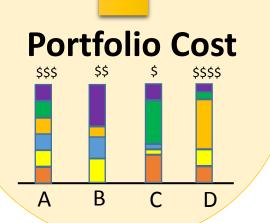


Step 6 – Evaluate Portfolios

Total Portfolio Benefit Scores



Define
Preferred
Portfolio



Mass Balance Tool Analysis



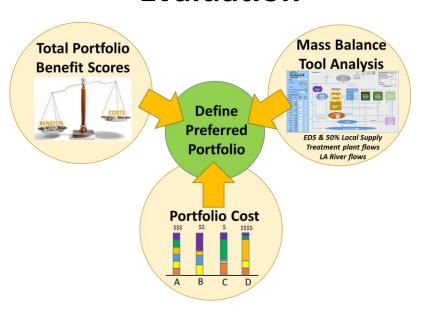
ED5 & 50% Local Supply
Treatment plant flows
LA River flows



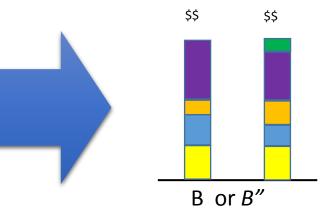


Step 7 – Define Long-Term Strategy

Portfolio Evaluation



Recommended Portfolio









Alternatives Analysis - Stakeholder Input

EVALUATION CRITERIA

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Collaborative Process

- Task 5 Project Teg
- Task 5 Workgroup
- Advisory Group
- Stakeholders

DEVELOP & EVALUAT

Define Projects

Foundational Projects

Potential Other Projects

3 Develop Conceptual Project Description Sheets

4 Project Cost & Benefits Scoring and Ranking



DEVELOP & ANALYZE PORTFOLIOS

Define Portfolio Themes

& Bundle Projects\$\$\$ \$\$ \$ \$\$\$\$

A B C D

6 Evaluate Portfolios using MBM, CBA & \$



Define Recommended
Strategy & Roadmap







Alternatives Analysis Process – Q&A

EVALUATION CRITERIA

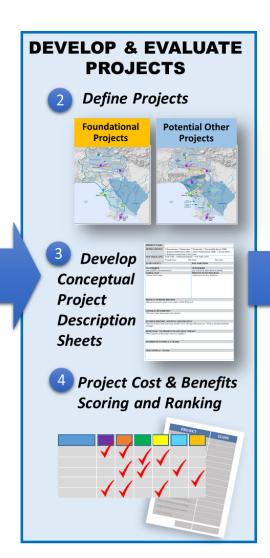
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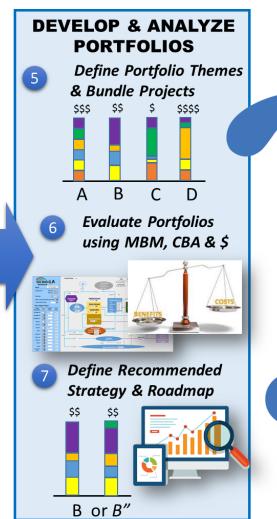
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Environmental	Open/Natural Space & Recreational Benefit
Environmental	Stormwater Quality
Conference and all	Contract Deposits / University Destruction



Collaborative Process

- Task 5 Project Team
- Task 5 Workgroup
- Advisory Group
- Stakeholders











2b. Projects Review



Two Primary Project Categories

Foundational Projects

Projects that are expected to occur independent of the One Water LA Plan

- Some may be funded
- Some may have complete EIRs
- Some may be in LASAN's CIP
- Some may be in LADWPs CIP

Potential Projects

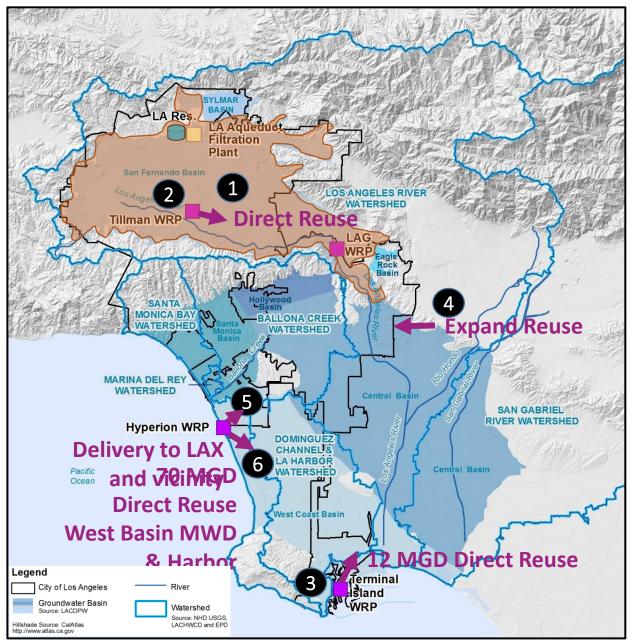
Projects that are assessed as part of the portfolio analysis of the One Water LA Plan

 No commitment has been made to implement at this time

- Historical water conservation contributes to the 50% local supply goal.
- New water conservation is included as part of the total water demand target and therefore is not a separate project.
- **Graywater** is considered as a method of water conservation and will also be addressed under policy recommendation.



Foundational Project Locations

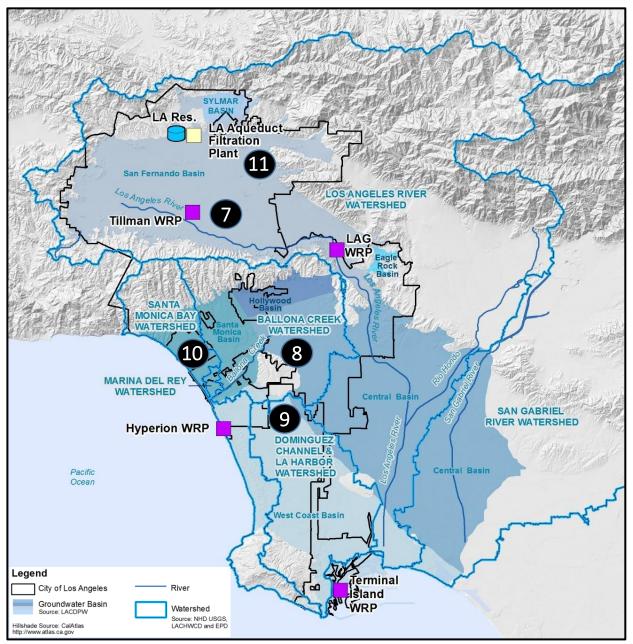


- Groundwater San Fernando Groundwater Basin Cleanup & Remediation
- 2. Groundwater Replenishment Project with AWFP at Tillman WRP (up to 30,000 afy in San Fernando Basin)
- 3. Recycled Water Terminal Island Expansion to 12 mgd
- 4. Recycled Water Expansion of NPR per 2015 Urban Water Management Plan
- 5. Recycled Water Hyperion WRP Demonstration Plant & delivery to LAX and vicinity
- 6. Recycled Water Hyperion WRP Delivery expansion to 70 mgd for West Basin MWD and Harbor





Foundational Project Locations



- 7. Stormwater Projects Upper LA River Watershed (EWMP/SCMP Regional/Centralized & Prop. O)
- 8. Stormwater Projects Ballona Creek Watershed (EWMP/SCMP Regional/Centralized & Prop. O)
- 9. Stormwater Projects -Dominguez Channel Watershed(EWMP Regional/Centralized & Prop.O)
- 10. Stormwater Projects Santa Monica Bay/Marina del Rey Watersheds (EWMP Regional/Centralized & Prop. O)
- 11. Stormwater Other Planned Projects within the City (e.g. Sun Valley Watershed Management Plan & Greater LA IRWMP)





Draft Foundational Project List

- 1. Groundwater San Fernando Groundwater Basin Cleanup & Remediation
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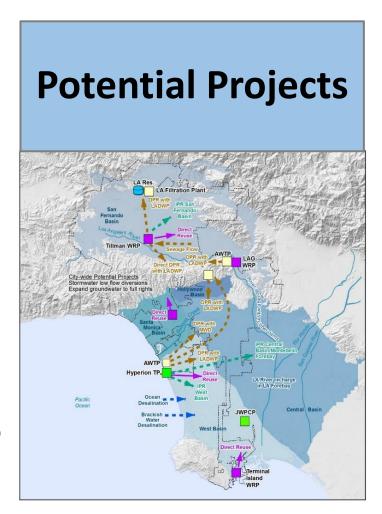


Draft Potential Projects

Not a to the limplem to the limplem to water availability constraints



- Potential projects are grouped into 4 categories was a series of the ser
- The Alternatives Analysis will identify the best projects per category that move forward into the Portfolio Analysis Phase







Draft Potential Project List

Projects are listed in random order

- 1. Distributed Stormwater Upper LA River Watershed
- 2. Distributed Stormwater Ballona Creek Watershed
- 3. Distributed Stormwater Dominguez Channel Watershed
- 4. Distributed Stormwater Santa Monica Bay/Marina del Rey Watersheds
- 5. Distributed Stormwater Low Flow Diversions
- 6. LA River storage with recharge in LA Forebay
- 7. LA River storage with rubber dams
- 8. IPR Tillman WRP to San Fernando Basin (Phase 2)
- 9. IPR Hyperion WRP to West Basin/Central Basin Injection wells
- 10. IPR Hyperion WRP to Central Basin/Spreading Basins
- 11. IPR Hyperion WRP to other regional system
- 12. IPR Hyperion WRP to San Fernando Basin
- 13. DPR Tillman WRP to LA Reservoir/LAAFP
- 14. DPR Tillman WRP to LADWP distribution system
- 15. DPR LA/Glendale (LAG) to Headworks Reservoir
- 16. DPR Hyperion WRP to LADWP distribution system
- 17. DPR Hyperion WRP to an open reservoir + SWTP
- 18. DPR Hyperion WRP to LA Reservoir/LAAFP
- 19. Groundwater expansion to full water rights outside the San Fernando Basin
- 20. East-West Valley Interceptor Sewer
- 21. Increase Recycled Water demand beyond 2015 UWMP
- 22. Rancho Park Recycled Water Satellite Plant
- 23. Ocean desalination
- 24. Brackish groundwater desalination

IPR Projects

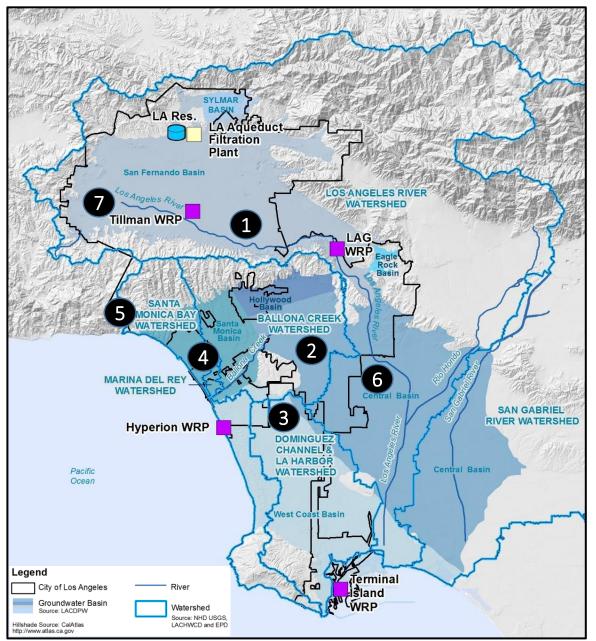
Stormwater

DPR Projects

Other Projects



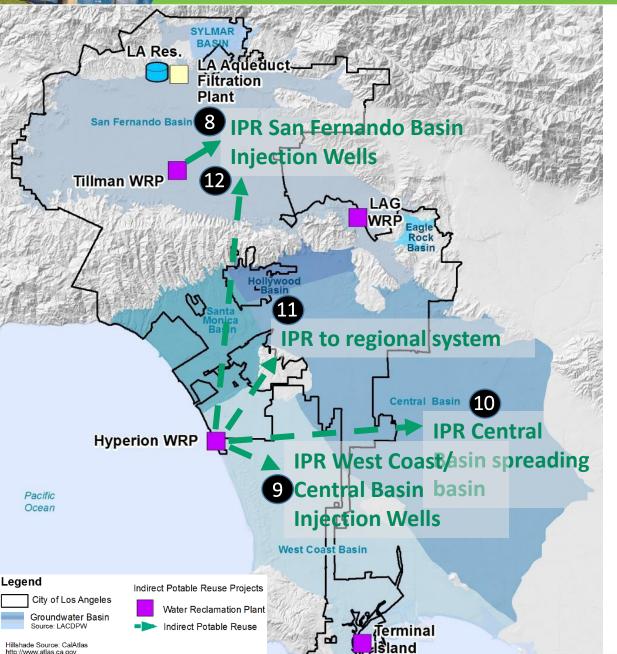
Potential Projects - Stormwater



- Distributed Stormwater –
 Upper LA River Watershed
- 2. Distributed Stormwater Ballona Creek Watershed
- 3. Distributed Stormwater Dominguez Channel Watershed
- 4. Distributed Stormwater Santa Monica Bay/Marina del Rey Watersheds
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One Water LA

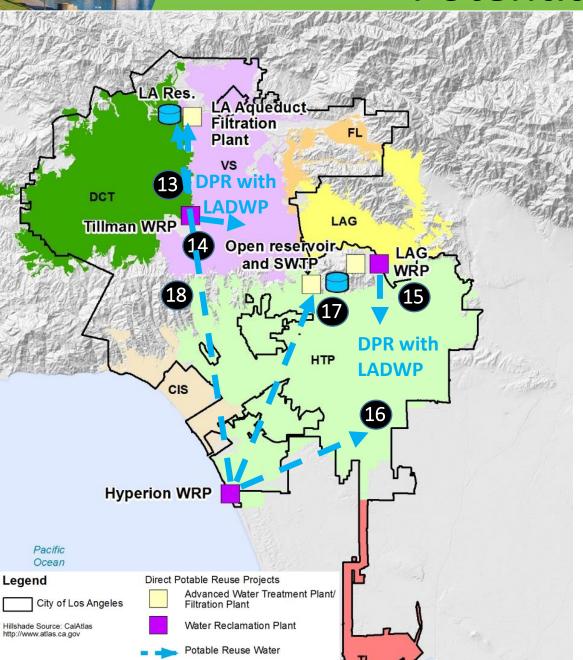
Potential Projects - IPR



- 8. Tillman WRP to San Fernando Basin (Phase 2)
- 9. Hyperion WRP to West Coast/Central Basin Injection wells
- 10. Hyperion WRP to Central Basin/Spreading Basins
- 11. Hyperion WRP to other regional system
- 12. Hyperion WRP to San Fernando Basin



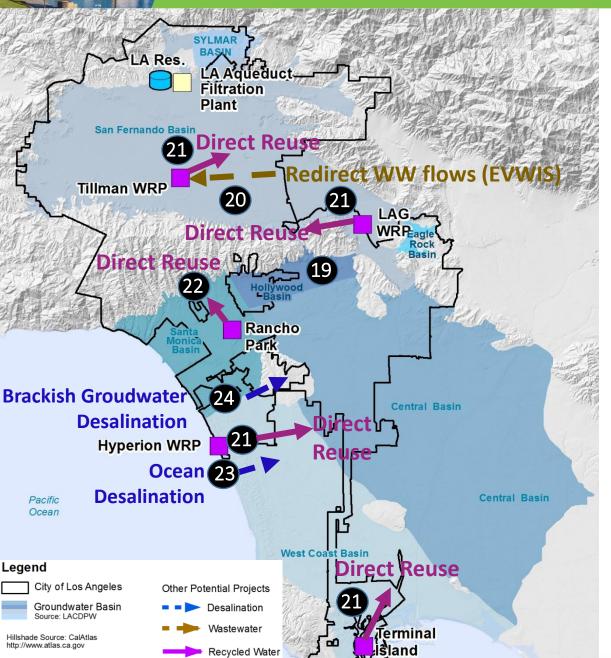
Potential Projects - DPR



- 13. Tillman WRP to LA Reservoir/LAAFP
- 14. Tillman WRP to LADWP distribution system
- 15. LA/Glendale (LAG) to Headworks Reservoir
- 16. Hyperion WRP to LADWP distribution system
- 17. Hyperion WRP to an open reservoir + SWTP
- 18. Hyperion WRP to LA Reservoir/LAAFP



Potential Projects - Other



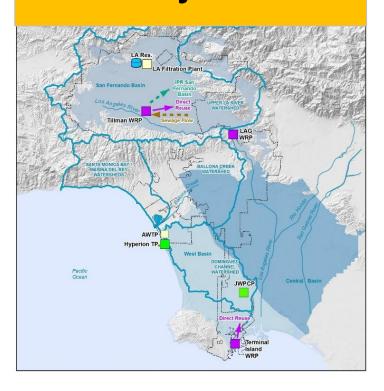
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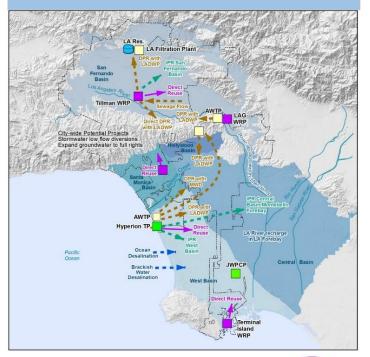


Q&A: Project List

Foundational Projects



Potential Projects









3. Evaluation Criteria



Final Evaluation Criteria

Category	Criteria
Economic	Unit Cost
Economic	Financial Benefits
Economic	Project Funding Mechanism
Economic	Likelihood to obtain Outside Funding
Resiliency	Drought Resiliency
Resiliency	Earthquake Resiliency
Resiliency	Flood Risk Mitigation
Resiliency	Local Supply Benefit
Resiliency	Energy Impact/Greenhouse Gas Emissions
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ECONOMIC CATEGORY

Criteria	Definition
Unit cost	Evaluate the unit cost of water supply for the project. It is calculated as: $Unit\ Cost = \frac{Annual\ Cost + Annual\ O\&M\ Cost}{Annual\ Net\ Yield}, \text{ where}$ $Annual\ Net\ Yield = Total\ Annual\ Yield = Annual\ Demand\ Created.$ The calculation assumes inflation rates wherest rates, and life expectancies.
Financial Benefits	Evaluate financial merits and impacts should the Project be implemented, or consequences if the Project is not implemented considering opportunity cost, revenue increased avoidance of lipes, avoidance of major repairs/damage.
Project Funding Mechanism	Evaluate the opportunity for inter-departmental cost-sharing based on benefits that are aligned with departmental hissions and the ability for the Project to be funded using existing funding mechanisms or structures, the ease of creating the new funding mechanisms, and the ability to gain sufficient revenue from those mechanisms for funding the Project. New funding mechanisms would include items such as creating a new type of charge (e.g. a stormwater fee, where this is not one already). Existing structures include existing rates or fees.
Likelihood to obtain Outside Funding	Evaluate the ability for the project to receive outside project funding and the portion of the project that could receive funding. Outside funding is defined as funds from State, Federal, or community grant or low-interest loan programs.





RESILIENCY CATEGORY

Criteria	Definition
Drought Resiliency	Evaluate the ability for a project to provide water during a drought. This will be calculated by a ratio between normal and dry year supplies as follows: $Drought\ resiliency\ ratio = \frac{Volume\ of\ water\ available\ in\ a\ dry\ year}{Volume\ of\ vare}$
Earthquake Resiliency	Evaluate the ability for the project to with tand earthquakes, based on the ability for the project to deliver water after a major earthquake and the chance that the project would still operate after a major earthquake.
Flood Risk Mitigation	Evaluate the ability for the project to bring-flood protection benefits and/or reduce existing flood risk.
Local supply benefit	Evaluate the ability for the project to deliver local supplies to the City.
Energy Impact/Greenhouse Gas Emissions	Evaluate power consumption, defined as amount of power used per unit of water processed (kWh per acre-ft of water). The total annual energy consumption per unit of supply is the metric for greenhouse gas emissions and climate change impacts.





IMPLEMENTATION CATEGORY

Criteria	Definition
Constructability	Evaluate the ease of constructing the project. Types of project components are considered wells, pipelines, treatment plants, green infrastructure, habitat restoration, wetlands etc. (Does not include Property Ownership).
Institutional Collaboration	Opportunity for inter-departmental collaboration of the Project based on benefits that are aligned with departmental missions measured by the ability to increase coordination between City departments partners, stakeholders and outside agencies (such as Metropolitan Water District [MWD] or [METRO].
Regulatory Approval	Evaluate the ease of obtaining regulatory approval for the voject. Considers whether existing regulatory framework exists for approxing the project.
Public Engagement	Evaluate the opportunity for the public to be involved in project planning and implementation, and after project combletion through ongoing education programs, and volunteer opportunities.
Property Ownership	Evaluate the ease to acquire necessary parcels/easements, focusing on large project components that do not include assets in public right-of-way.
Public & Political Support	Level of City Hall, City Council, Commissioners, Mayor's Office, non-governmental organizations (NGOs), Neighborhood Councils, other governmental agencies, and the public or other political stakeholders support, acceptance and willingness to embrace and be involved in the Project.





ENVIRONMENTAL CATEGORY

Criteria	Definition
Environmental Justice	The fair treatment and meaningful involvement of all people in the development and implementation of a project (including the enforcement of environmental laws, regulations and policies) with the goal of delivering specific benefits to previously underserved communities.
Air Quality Improvement	Degree of potential benefit or depage to air quality.
Open/Natural Space and	Level to which the project creates locations of open/natural space, reducing heat-island impacts, creating recreations and areas and ecosystem function and
Recreational Benefit	connectivity. Defined as the amount of open/natural space created/destroyed. Paved open space is not considered beneficial. Turf is limited to recreational benefits.
Stormwater Quality	The goal is assessing the quality of stormwater reaching rivers and oceans. This will be calculated by stormwater volume reduction.
Ecological Benefit/Habitat Restoration	Degree of the Projects potential benefit or damage to surrounding or downstream ecosystems, flora, and fauna.





Evaluation Criteria Exercise

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Which criteria is most important to you?





Evaluation Criteria Exercise Instructions

Around the room you will see each criteria on the wall

Criteria: Unit Cost

Definition: Evaluate the unit cost of water supply for the project. It is calculated as:

Unit Cost = Annualized Capital Cost + Annual 0&M Cost / Annual Net Yield Annual Net Yield = Total Annual Yield - Annual Demand Created.

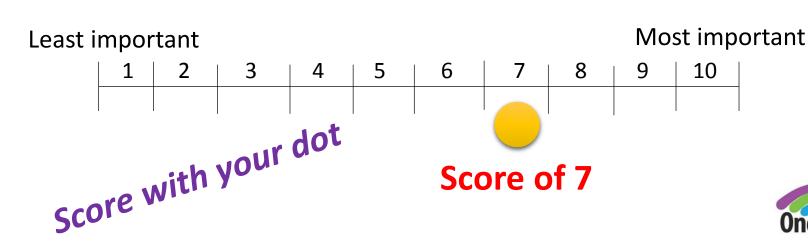
The calculation assumes inflation rates, interest rates, and life expectancies as listed in Table G.21 of TM5.1.

What You'll Need:

- Stickers
- Handout of Criteria
 Definitions

...and please direct questions to the One Water Team

Ask: On a scale of 1 to 10 how important is this criteria (10 being most important)?







Evaluation Criteria Exercise Wrap-Up

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4. Project Portfolio Themes



4a. Portfolio Goals & Objectives

Goals

Identify the preferred portfolio/implementation strategy to achieve the One Water LA Objectives coupled with the Sustainability Plan targets

Objective

Define portfolio themes to test the sensitivity of projects and programs

Desired Outcome

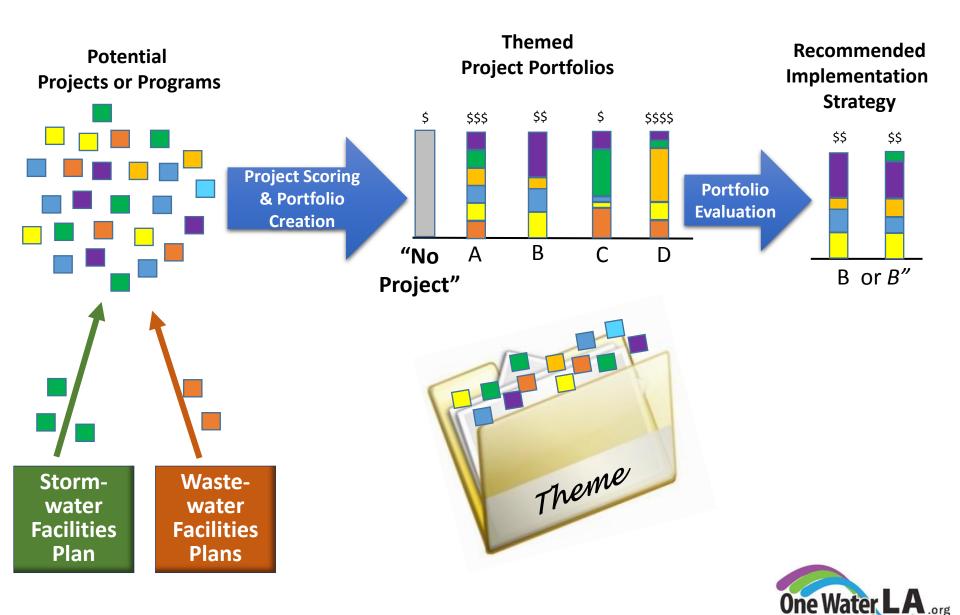
A portfolio of projects/programs collectively achieve the objective with dynamic trigger-based implementation plans







Portfolio Development & Evaluation





Portfolio Theme Brainstorm

Maximize Distributed Projects (SW & RW)

Maximize Stormwater Capture & Use

Maximize Recycled Water (NPR/ IPR/DPR)

Maximize Resiliency Benefits

What Portfolio Themé Ideas do you have?

Maximize Environmental Benefits Minimize Imported Water (= Max. Local Supplies) Minimize Unit Cost







5. Closing



Outcomes of One Water LA Decision Time (Part 1)

Present an Overview of **Alternatives Analysis Process** Present **Potential Projects** to meet 2040 Goals Conduct **Evaluation Criteria Exercise** Obtain Input on **Portfolio Themes** One Water LA



One Water LA Decision Time



Part 1 (Today)

- Projects & Criteria
- Criteria Exercise
- Portfolio Themes

Part 2 (Early December)

- Long-term Policies
 Brainstorm
- Project Scoring Update
- Portfolio Evaluation Update

Part 3 (Early 2017)

- Long Term Policies Wrap-Up
- Implementation Strategies
- Wastewater & Stormwater
 Facilities Plans



Decision Time Part 2 - Policy Brainstorm

Foundational Projects

Potential Projects

Short & Long Term Policies

Policies that support the implementation of One Water LA Plan projects

Examples:

- Institutionalizing processes for joint projects and cost-sharing
- Construction dewatering beneficial reuse



Decision Time Part 2 - Policy Brainstorm

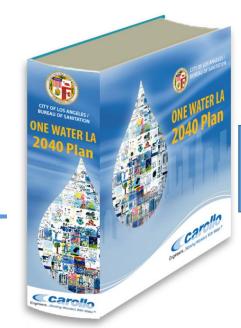
Foundational Projects

Potential Projects

Short & Long-Term Policies

Wastewater Facility Plans Projects

Stormwater Facility
Plan Projects







Upcoming Events

- LADWP Integrated Resource Plan (Power) Be a part of LA's Clean Energy Future
 - Wednesday October 26 from 6-8 pm, LADWP Headquarters or Webcast
 - Wednesday November 2 from 6-8 pm, Workshop at Wilmington Senior Citizen Center, Wilmington
 - Thursday November 3 from 6-8 pm, Workshop at Pacoima Neighborhood City Hall, Pacoima
- Saturday October 29 Community Climate Action Summit
 - 9 am 6 pm in Santa Monica
- Wednesday November 16 LA County GIS Day Steering Committee
 - 9 am 3 pm in Downtown Los Angeles
- Thursday December 1 One Water LA Holiday Event
 - 5:30-8:30 PM in Downtown Los Angeles (AON building)
- Early December One Water LA Stakeholder Workshop #5
 - Date, time, and location TBD
- Early 2017 One Water LA Stakeholder Workshop #6
 - Date, time, and location TBD





Dec 1st One Water LA Holiday Event



Carollo Engineers will be hosting a
Holiday Celebration in honor of
One Water LA and the work done
through this innovative project

December 1, 2016 5:30 PM – 8:30 PM

RSVP via email to: LChavez@carollo.com







Meeting Close