



Subcommittee on Pure Water Southern
California and Regional Conveyance

State Water Project Dependent Areas Drought Mitigation Actions

Item 3a

March 28, 2023

Presentation Outline

- Background
- SWP-Dependent Areas Workshops
- Project Portfolios
 - Flexibility Projects
 - Supply Storage Projects
- Next Steps

Background

- Risk to SWP-dependent areas identified in the 2020 IRP Needs Assessment
- Multi-year drought – lowest three-year deliveries in SWP history
- System limitations in the current distribution system restrict the movement of certain supplies from reaching the SWP-dependent areas
- Metropolitan committed to system improvements to enhance flexibility to address lack of connectivity in existing system

Actions Taken after the 2014-15 Drought



Greg Ave. PS Refurbishment



PC-1/Lakeview Intertie



Perris PS Surge Protection

Key Board Actions Impacting SWP-Dependent Areas

**Nov
2021**

MET's
commitment
to action for
SWP
Dependent
Areas

**Dec
2021**

Approval for
DVL to Rialto
inclusion in
CIP

**Feb
2022**

Approval for
Sepulveda
Feeder PS
Projects
inclusion in
CIP

**April
2022**

Water
Shortage
Emergency
Resolution

**Aug
2022**

Resolution
affirming
commitment
to action;
improve
system
flexibility

**Dec
2022**

Resolution to
accept award
of \$50 million
grant funding
for drought
projects

**Jan
2023**

Award first
construction
contract for
DVL to Rialto
Wadsworth
Bypass



Board Resolution



Drought Project Action

State Water Project Dependent Areas Drought Mitigation Workshops

2022 | 2023

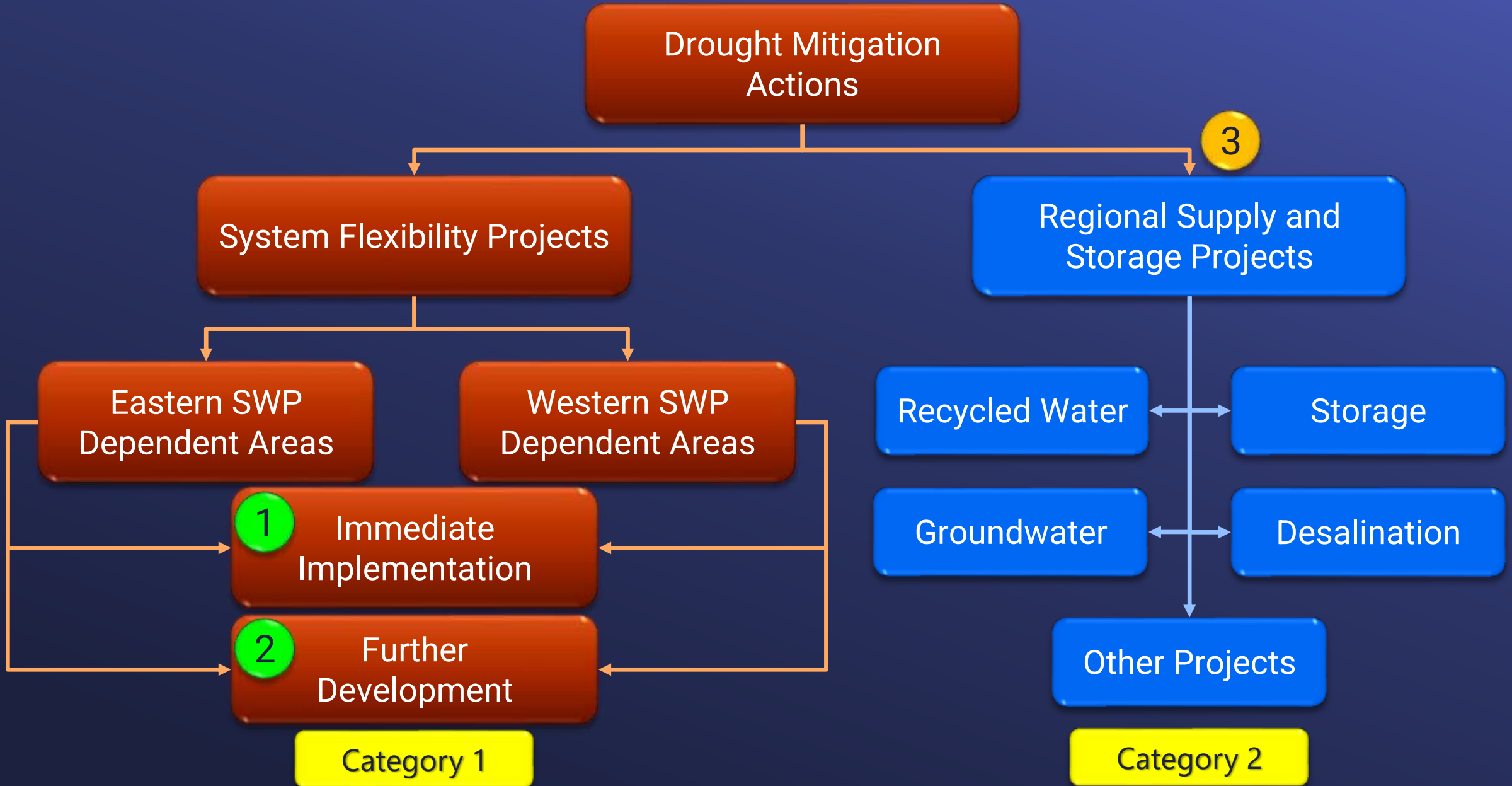
Workshop 1 (April 22) Identify Drought Mitigation Functions	Workshop 2 (June 10) Brainstorm Ideas Addressing Functions	Workshop 3 (June 17) Identify & Select Top Evaluation Criteria	Workshop 4 (July 15) Review & Discuss Evaluation Results	Workshop 5 (August 12) Create Initial Portfolios	Workshop 6 (August 26) Create Initial Portfolios	Workshop 7 (Jan 13) Evaluate Portfolios for Immediate Action
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Sep 2022 Nov 2022 March 2023

◆ Board Update

Current Approach to Drought Mitigation Actions



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Projects for Immediate Implementation



1a

System Flexibility Projects for Immediate Implementation: Eastern Area Portfolio

Project	Capacity	Estimated Cost	Planned Board Action	Anticipated Completion Schedule	Status
Wadsworth Bypass	Up to 120 cfs 87 TAF	\$23 M	Jan-23	Dec-24	On schedule – in Construction
Inland Feeder-Rialto Pipeline Intertie		\$17 M	Mid 2023	Dec-24	On schedule – in design
Badlands Tunnel Surge Tank		\$18 M	Mid 2023	Dec-24	On schedule – in design
Foothill Pump Station		\$26 M	Mid 2023	Dec-24	On schedule – in design, resolving environmental challenges
TVMWD Miramar Pump Station Upgrades	Up to 30 cfs 21 TAF	TBD (Member Agency Project)	TBD	TBD	Feasibility Study Completed

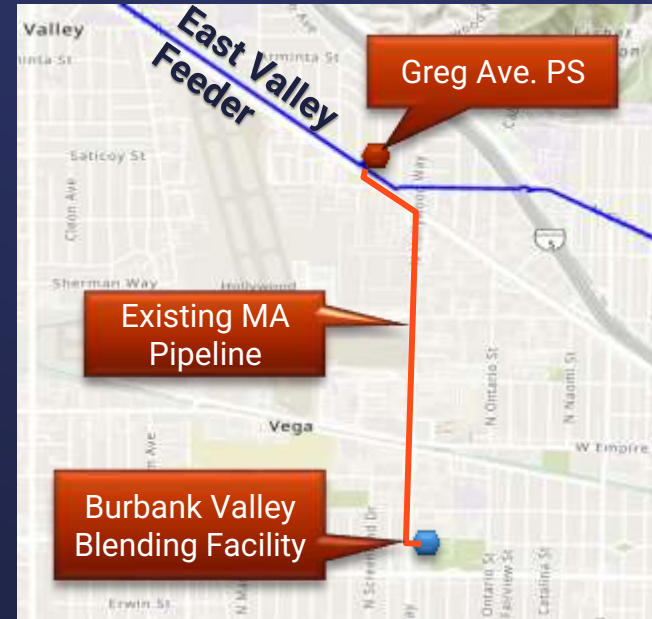
1b

System Flexibility Projects for Immediate Implementation: Western Area Portfolio

Project	Capacity	Estimated Cost	Planned Board Action	Scheduled Completion	Status
Sepulveda Feeder Pumping Project - Phase 1	up to 60 cfs* 42 TAF	\$90 M	Mid 2023	Mar-26	Alternative Project Delivery - RFQ Issued March 2023
Shift of Burbank B-5 Supply to B-5A	up to 7 cfs 5 TAF	\$7 M	TBD	TBD	Feasibility Study Completed

*Capacity includes 30 cfs pump station capacity and 30 cfs water savings that would otherwise be delivered into the common pool to maintain water quality

Sepulveda Pumping Project - Phase 1



Shift of Burbank B-5 Supply to B-5A

Projects for Immediate Implementation Tested using the IRP Needs Assessment

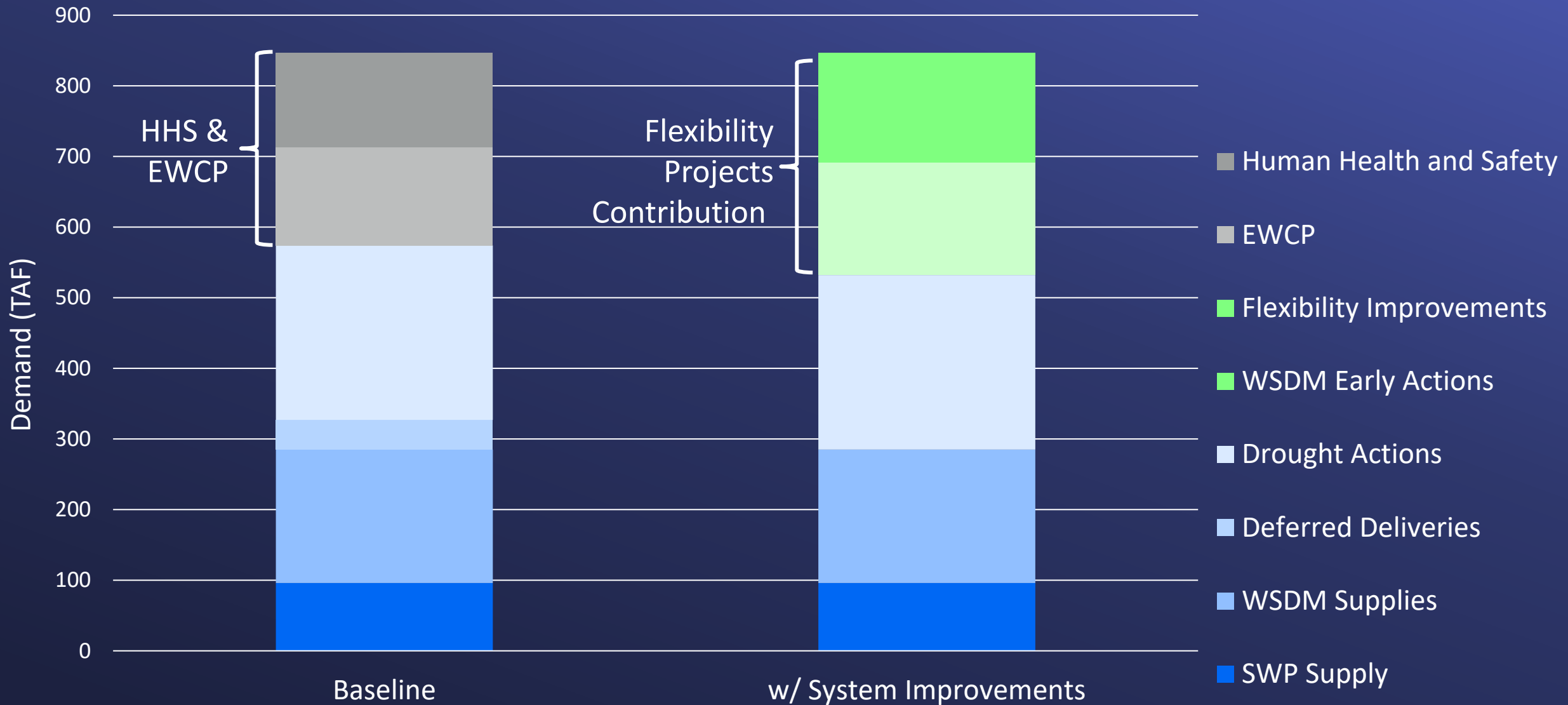
- The System Flexibility Projects for Immediate Implementation were analyzed for their effectiveness in improving reliability using the IRP needs assessment results



Key Takeaways

- There is a benefit from the implementation of the SWP-dependent areas flexibility projects
 - Increased likelihood of meeting all member agency demands
 - Magnitude of the shortage is reduced
- Future water supplies may be a limiting factor for regional reliability

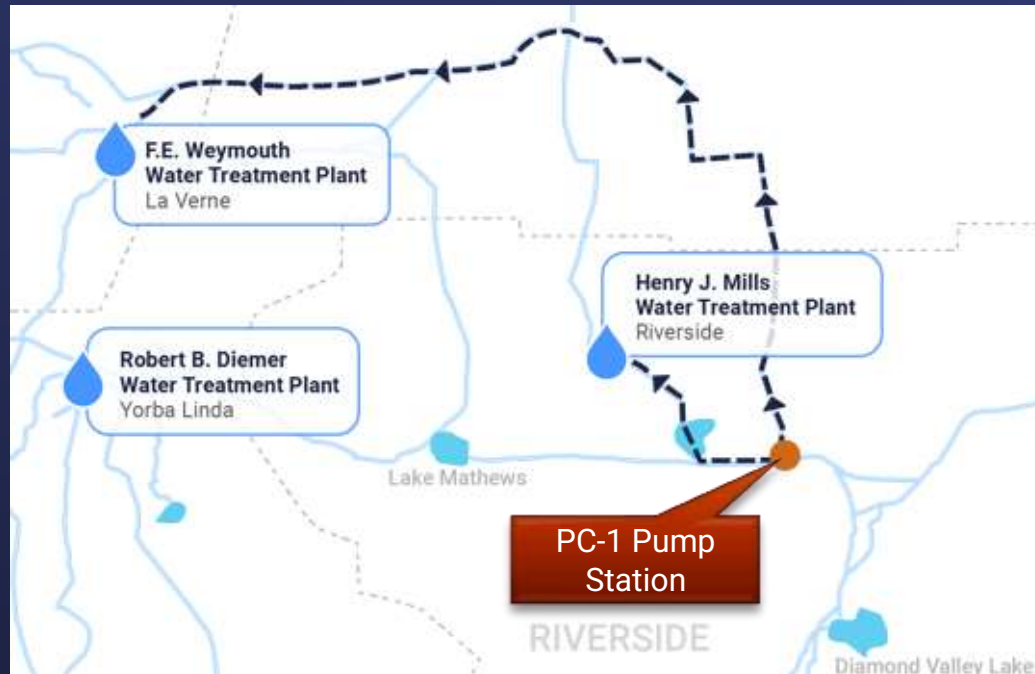
Impact of System Improvements on Member Agencies in 2022



2a

System Flexibility Projects for Future Development: Eastern Area Portfolio

Project	Capacity	Action	Planned Board Action	Anticipated Completion Schedule	Status
PC-1 Pump Station*	> 150 cfs	Study	TBD	TBD	Feasibility Study

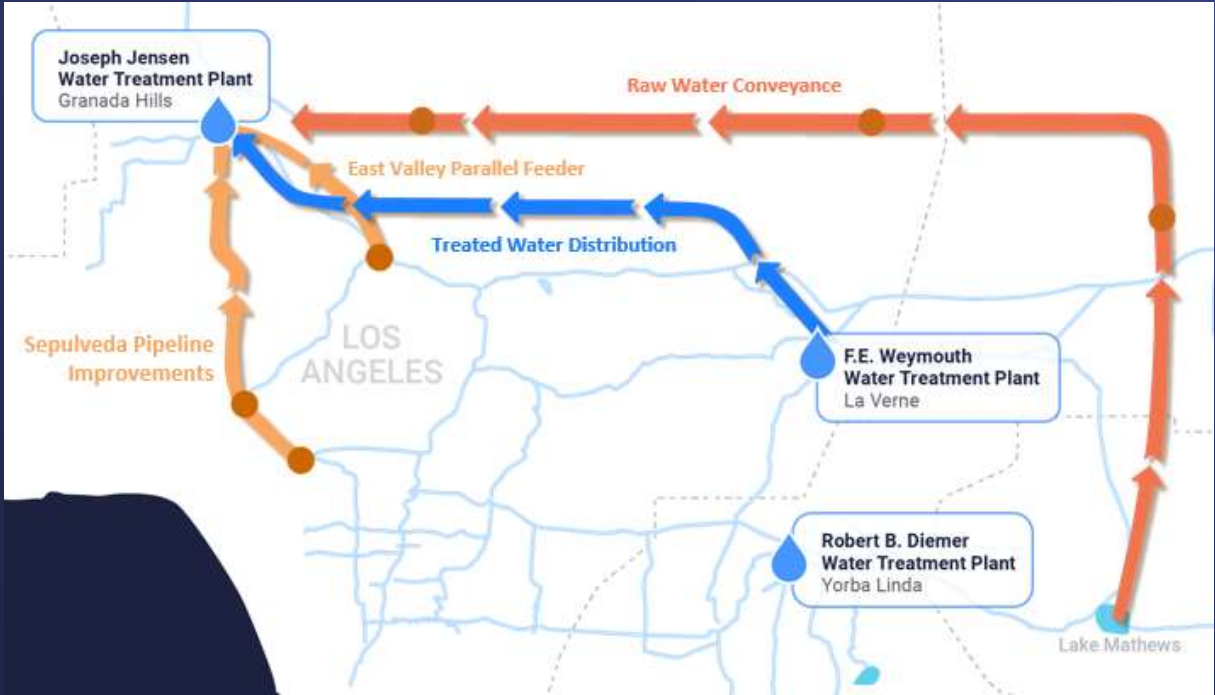
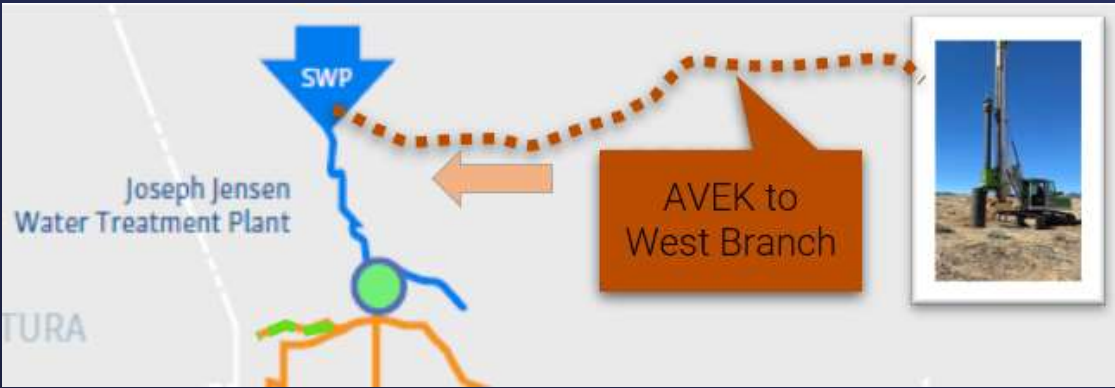


* Can potentially benefit the Westside member agencies

2b

System Flexibility Projects for Further Development Western Area Portfolio

Project	Capacity	Action	Scheduled Completion	Status
AVEK HDWB to Supply Westside Agencies	Max 125 cfs Max 70 TAFY	Study	Dec - 23	Consulting MAs & evaluating alignments
East-West Conveyance System	Minimum 160 cfs	Study	Dec-23	Study Ongoing



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Storage and Supply Regional Portfolio For Incorporation into One Water Implementation

Project	Action	Scheduled Completion	Status
Surface Storage Options	Study – Phase 1	Oct-23	On schedule – in progress
Desalination Reconnaissance Study	Study – initial findings	Dec-23	RFP – in advertisement
IEUA Local Resource Development	Benefit Assessment	May-23*	Collaborating with MA to apply for available programs
Chino Basin Program Expansion	Study	May-23*	Evaluating preliminary study commissioned by MA
Pure Water Southern California Enhancements	Study	Dec-23	Study Ongoing

* Delayed from previous forecasts

Next Steps

- **Projects for Immediate Implementation**
 - DVL to Rialto – Board action for two construction contracts (mid 2023)
 - TVMWD Miramar Pump Station Upgrades - Identify funding options, develop terms for design, construction, operation
 - Sepulveda Feeder PS Phase 1 – Board action for design-build contract (mid 2023)
 - Burbank B-5 to B-5A Shift – Identify funding options, develop terms for design, construction, operation
- **Flexibility Projects for Further Development**
 - East/West Conveyance – Board action to amend agreement and expand feasibility study (April 2023)
 - AVEK to West Branch – Board action for feasibility study (mid 2023)

Next Steps – Continued

- Supply and Storage Improvements
 - Desalination – Board action for study (mid 2023)
 - Surface Storage – Board action for Phase 2 study (mid 2023)
 - IEUA Local Supply/Storage Projects – Identify potential projects for inclusion into LRP (mid 2023)
 - Chino Basin Program Augmentation – provide recommendation on potential participation (TBD)
- Collaboration with Member Agencies
 - Drought Mitigation Workshops –workshops in May & July 2023
 - East/West Conveyance Workshops – scheduled for April
- Pure Water Southern California – continue workshops to explore opportunities for potential integration with OpNext in the future

Scheduled 2023 Collaboration Workshops with Member Agencies

- 4/18: E-W Conveyance Study Workshop #2
- 4/24: LA Operation NEXT/Pure Water SoCal Integration Workshop #3
- 5/19: SWP-Dependent Areas Drought Mitigation Planning Workshop #8
- 6/07: E-W Conveyance Study Workshop #3
- 7/28: SWP-Dependent Areas Drought Mitigation Planning Workshop #9
- 8/17: E-W Conveyance Study Workshop #4
- 9/19: E-W Conveyance Study Workshop #5

