



Board of Directors Workshop on
Engineering, Operations, and Technology

Pure Water Southern California Considerations for Member Agency Deliveries

July 22, 2025
Item 5a

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Pure Water Southern California Considerations for Member Agency Deliveries

Subject

Considerations for Member Agency Deliveries

Purpose

Provide updated information on the regional benefits of Pure Water and solicit feedback from the Committee about the key terms of the Member Agency term sheets for Pure Water Southern California

Next Steps

Board to consider authorizing the development of Member Agency agreements based on the term sheets in September

Engineering, Operations, and Technology Committee Workshop

Agenda

- Overview of Term Sheet Process
- Key Topics for Discussion
 - Regional Benefits
 - Local Facilities
 - Groundwater Monitoring Responsibilities
 - Water Supply Allocation
- Summary and Next Steps

Overview of Term Sheet Process

Steps of Member Agency Agreement Development

Step 1 LOIs

- 2019-2022
- Completed



Step 2 Term Sheets

- 2024-2025
- Underway – Board Action in Sept 2025

Step 3 Interim Agreement

- 2026-2035+
- Future – Board Action in Early 2026

Step 4 Long-term Agreement

- 2035-2060+
- Future – Board Action in 2035

Member Agency Discussions



Meetings
(April 2024-
May 2025)



Refinement of
Member
Agency
Demands



Development of
Preliminary Term
Sheets for
Purchase and
Delivery of Pure
Water

Goals of Term Sheets

- Establishes agreement on
 - Expectations and performance
 - Areas for collaboration
- Focus on the range of demands for each service connection
 - Minimum day
 - Maximum day
 - Average flows
 - Standby connections



Term Sheet Structure

Recitals

- Regional Benefits of Pure Water
- Regional Operational Objectives
- Price Term
- Collaboration and Coordination

Terms

- Intent
- Expectations
- Performance

Key Topics for Today's Meeting

Topic 1:
Regional
Benefits

Topic 2:
Local Facilities

Topic 3:
Groundwater
Monitoring
Responsibilities

Topic 4:
Water Supply
Allocation

Topic 1 Regional Benefits

CAMP4Water Assessment for Pure Water is Underway



Reliability



Resilience



Adaptability & Flexibility



Affordability



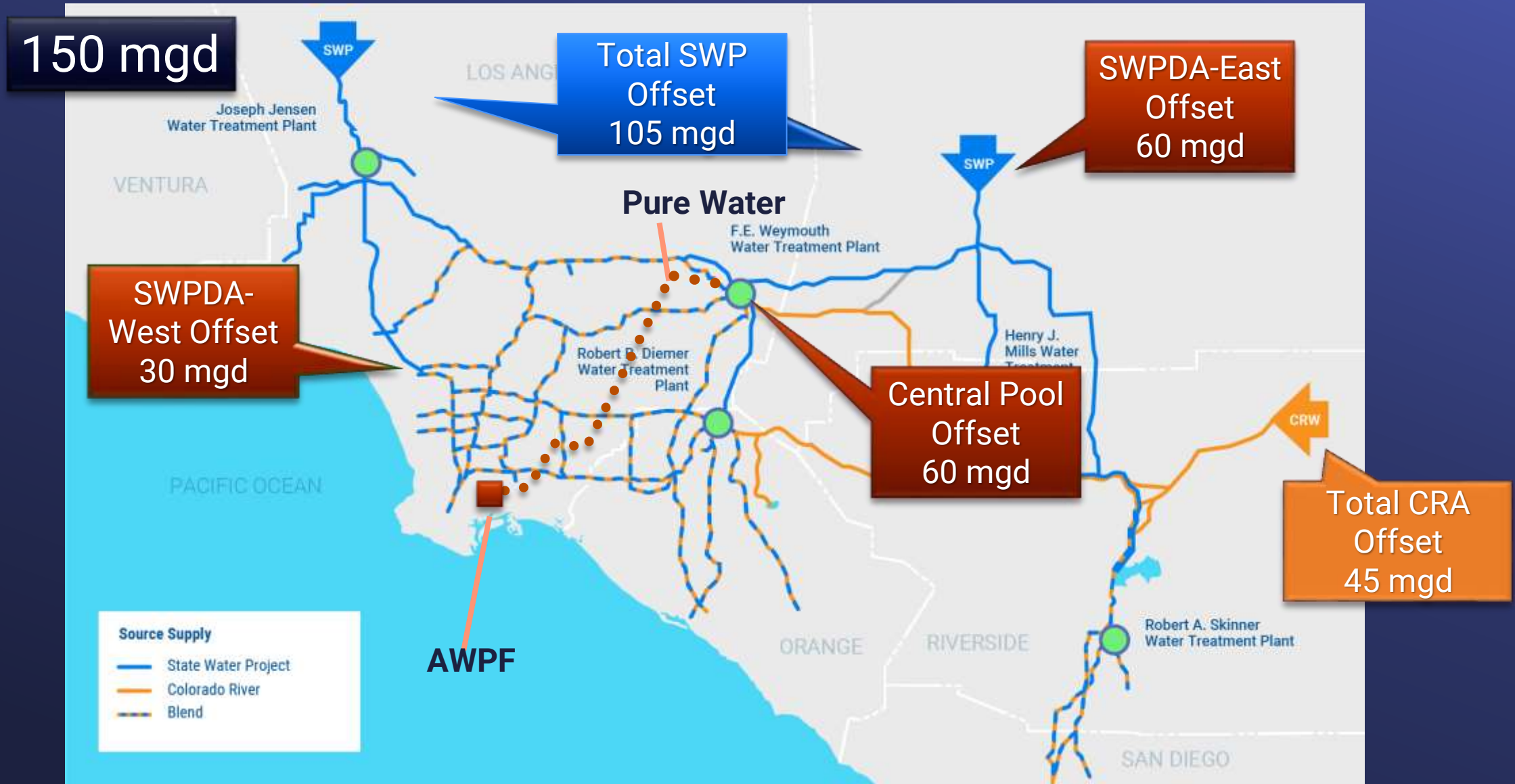
Environmental Co-Benefits



Equity

- CAMP4Water Assessments
 - July One Water and Adaptation (OWA) - Preliminary assessment of Pure Water Southern California
 - September OWA - Preliminary assessments of Sites and Delta Conveyance
 - November OWA - Final assessment in November of all 3 programs

Pure Water Regional Benefits – Average Year Operations



Pure Water Regional Benefits - Dry Year Operations



CAMP4W Preliminary Shortage Assessment

Probability of Shortage

Scenario	Model	2035	2040	2045
Scenario C	Baseline	3%	5%	8%
	With Pure Water	0%	0%	2%
	Reduced Risk Pure Water	100%	100%	75%
Scenario D	Baseline	10%	38%	69%
	With Pure Water	8%	31%	54%
	Reduced Risk Pure Water	20%	18%	22%

Regional Benefits of Pure Water

Reduces Risk of
Regional
Shortage

Reduces
Reliance on SWP
and Colorado
River

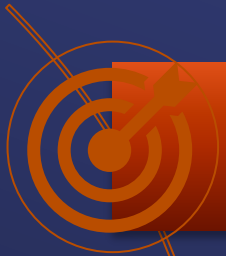
Improves
Groundwater
Sustainability

Improves Local
Supply
Development

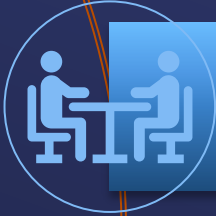
Increases
Available Supply
During Seismic
Emergency

Increases
Operational
Flexibility

Other Benefits of Pure Water Southern California



Advances California/Western State Objectives



Develops New Opportunities for Partnerships



Improves Prospects for Funding



Creates New Jobs

Topic 2

Local Facilities

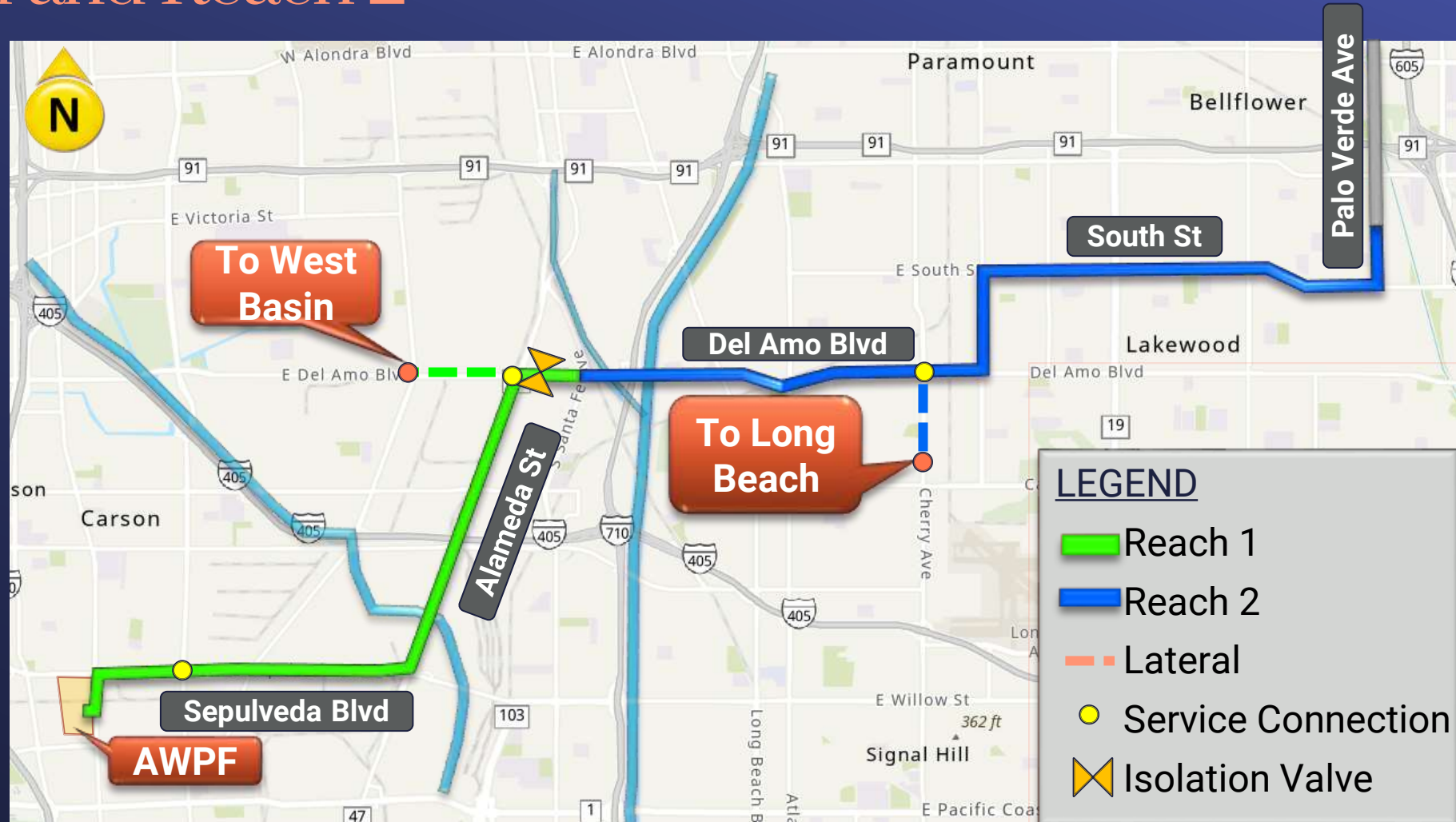
Pure Water Local and Regional Facilities



- Laterals
- Pump Stations
- Monitoring & Injection Wells
- Potential Treatment for Industrial Customers

- AWPf
- Backbone Pipeline & Pump Stations
- DPR Pipeline & Pump Stations
- New Recharge Basin(s)

Backbone Pipeline and Service Connections Reach 1 and Reach 2



Example: West Basin



Topic 3

Groundwater Monitoring Responsibilities

Title 22 IPR Groundwater Monitoring Requirements



Pre-Project Requirements

Aquifer background sampling - 4 consecutive quarters
Must validate groundwater travel times (tracer testing, modeling)



Monitoring Well Network

Early Warning & Intermediate Wells: 2 weeks-6 months travel time between recharge and drinking wells
Must validate receiving project water



Ongoing Operational Monitoring

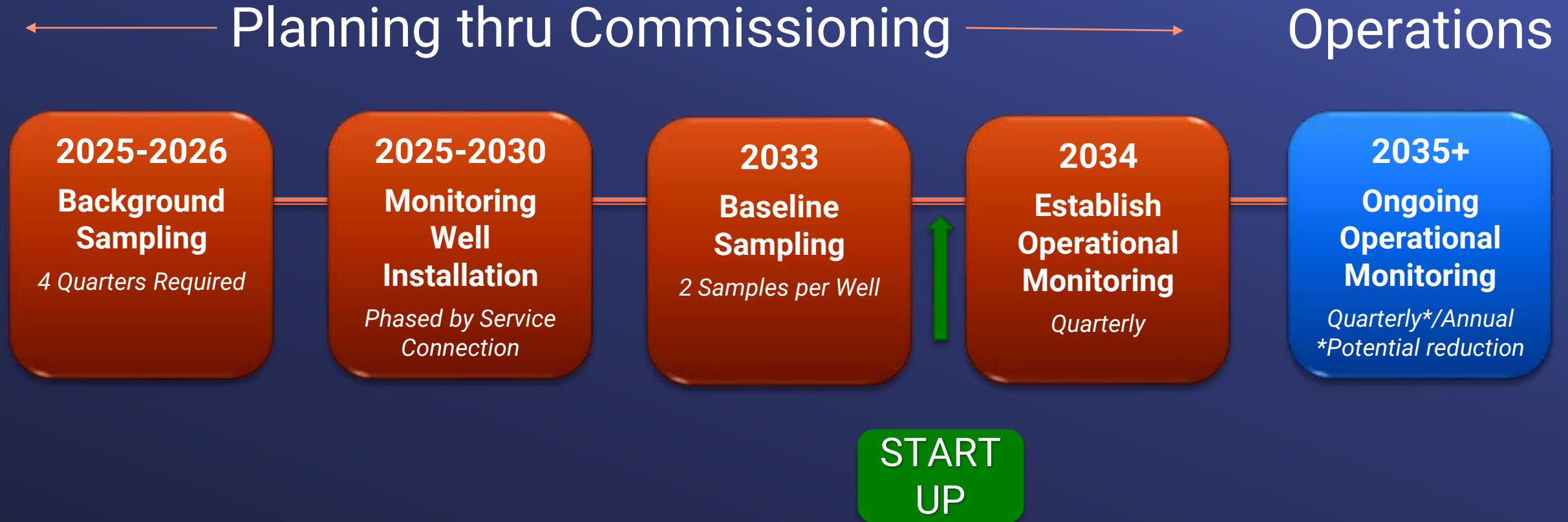
Minimum quarterly samples
Nitrogen, nitrate, nitrite, drinking water contaminants
Action level response if >80% MCL



Reporting Requirements

Electronic laboratory data submission
Annual comprehensive reports – plume movement
5-year engineering report update

Groundwater Monitoring



Shared Responsibility Framework:

- Metropolitan controls risk during critical startup
- Member and Stakeholder Agencies assume responsibility after proven performance

Integrated Monitoring & Reporting



**AWPF
Monitoring**
Metropolitan
Responsibility



**Groundwater
Monitoring**
Member
Agency Local
Operations
Metropolitan
Oversight



**Integrated
Reporting**
Metropolitan
submits
Annual and
5-year permit
compliance
report

Metropolitan (Primary Permit Holder)

- Primary interface with DDW/Regional Board
- AWP operations & monitoring
- Regulatory reports (annual, 5-year updates)
- System-wide compliance coordination
- System integration and optimization

Member and Stakeholder Agencies

- Local recharge facility operations
- Groundwater monitoring
- Data collection & submission
- Immediate response to exceedances
- Public notification

Topic 4

Water Supply Allocation


Direct Recipient Considerations

Pure Water
integrated into
Member Agency
systems through
new Backbone
Pipeline for
IPR/NPR

Delivered and sold
to Member
Agencies through
new service
connections

IPR/NPR benefits
all agencies

Additional Direct Recipient Considerations



Direct Recipients Execute Contracts	<ul style="list-style-type: none">• Minimum Delivery• Maximum Delivery• Standby
During an allocation, some or all of the Direct Recipient's allocation may be met with Pure Water deliveries	<ul style="list-style-type: none">• Pure Water delivery treated same as imported water• Benefit to Metropolitan
Benefits all Agencies	<ul style="list-style-type: none">• Specific Benefits to Direct Recipients• Benefits all Member Agencies during allocation

Staging Would Affect How Much is Needed From Member Agencies During Allocation

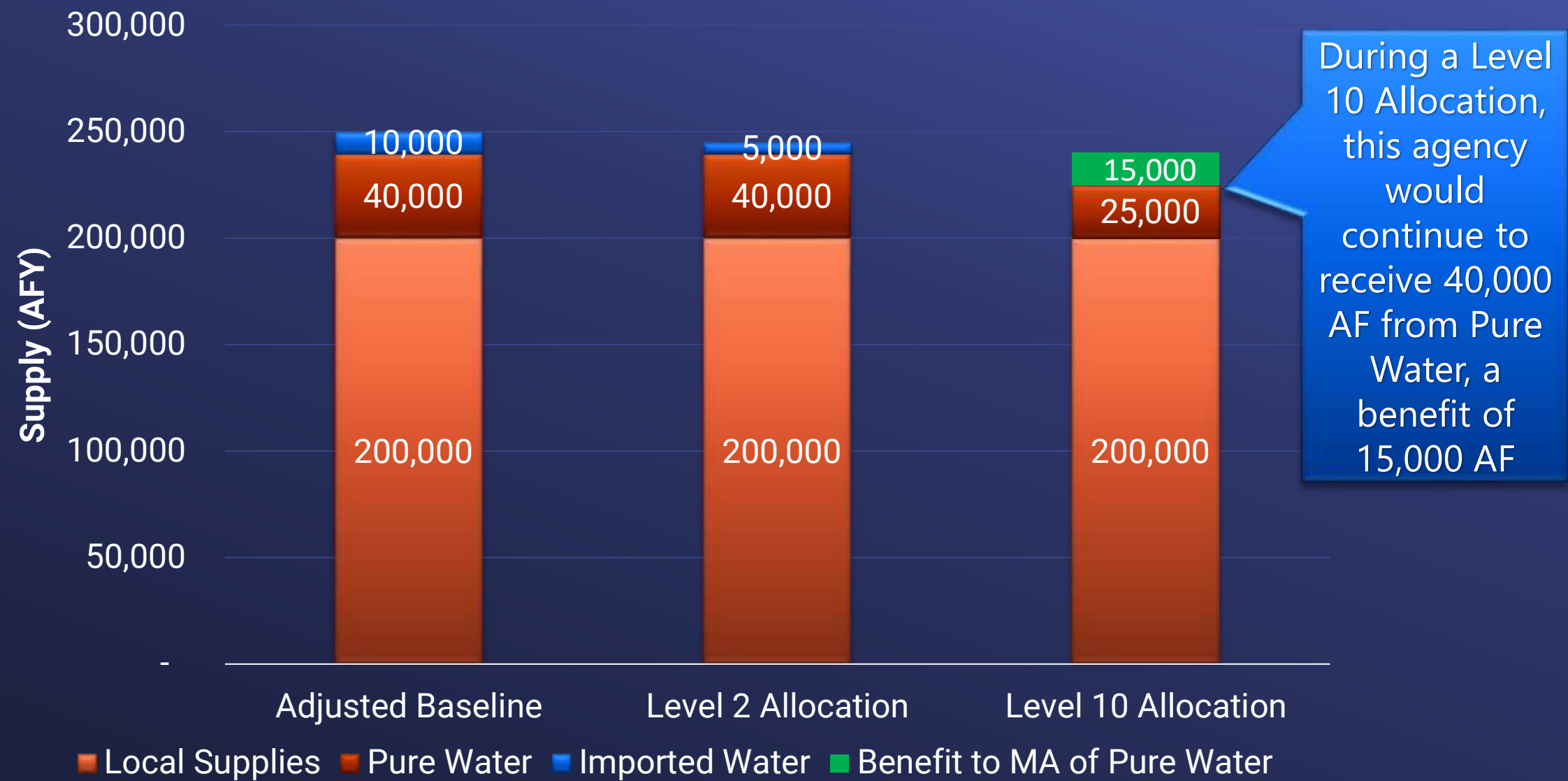
Phase 1
115 mgd

- 90 mgd IPR/NPR via Direct Recipients
- 25 mgd DPR

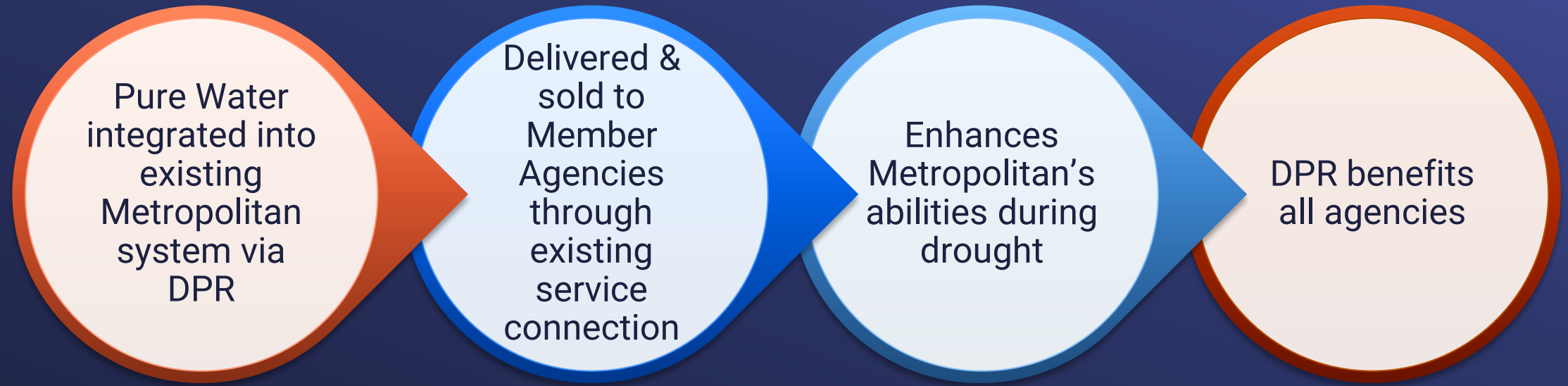
Phase 2
150 mgd

- 90 mgd IPR/NPR via Direct Recipients
- 60 mgd+ DPR

Example – Pure Water Phase I operating



Direct Potable Reuse (DPR) Considerations



Example – Phase 2 with DPR Priority



Pure Water and the Water Supply Allocation

Pure Water would reduce the chances of having an Allocation

Pure Water is proposed to be part of Metropolitan's wholesale service/supply

Therefore, Pure Water would be considered the same as other wholesale supplies under an Allocation

During an Allocation, some or all of the agencies' Allocation may be met with Pure Water deliveries

Price Term and Local Facilities Development

Proposed Approach

- Price Term
 - Pure Water would be part of Metropolitan's regional supply
 - Allocation of costs would be based upon regional and local benefits
 - Price term would be developed with a melded rate
- Local Facilities Development
 - Laterals could be included with backbone pipeline

Summary and Next Steps

Summary

Topics discussed in this workshop

- Overview of Term Sheet Process
- Key Topics
 - Regional Benefits
 - Pure Water Local Facilities
 - Groundwater Monitoring Responsibilities
 - Pure Water and the WSAP

Next Steps

