



Engineering, Operations, & Technology Committee

Management Announcements and Highlights

Item 7a

November 13, 2023

Item 7a Management Announcements and Highlights

Subject

Update on Engineering Services, Information Technology, and Water System Operations activities for the month of November

Purpose

Provide updates on Engineering Services, Information Technology, and Water System Operations activities

Next Steps

Update the board in January 2024

Engineering Services

2023 EOT Inspection Trip

- Revised Date:
 - Thursday - November 16, 2023
- Locations to be visited:
 - La Verne
 - Water Quality Laboratory
 - Weymouth Water Treatment Plant
 - La Verne Shops
 - Lake Mathews
 - Perris Valley Pipeline project



2022 Inspection Trip

USBR Large-Scale Water Reuse Grant Funding for Pure Water Southern California

- USBR initially making \$180M available in first phase of process
 - \$450M total set aside
- Developing grant application
 - Securing letters of support
 - Requesting approximately \$100M to \$125M
 - Will require a 3:1 MWD match of grant funds
 - Future board approval of grant fund acceptance required
- Grant application due Nov. 21, 2023
- Notification of acceptance by mid-2024
- Grant funds must be spent by Nov-2026



SCE Method of Service Request Application for Pure Water

- SCE can provide power for Pure Water on requested timeline
- Method of Service request (MOS) will establish project criteria, power supply needs/timing, and costs for subsequent SCE engineering studies
 - Metropolitan submitting multiple scenarios for SCE to study
 - \$150,000 deposit required to start process
 - Expected duration of these studies: 6-9 months
- SCE design of electrical power components can commence following Metropolitan approval of a selected operational scenario
 - Selected operational scenario will determine scope and cost of modifications made to SCE's system

Metropolitan Staff Participation in WaterReuse California Conference 2023 – November 5-7, 2023

- Award Winner
 - Rupam Soni – Recycled Water Advocate of the Year
- Technical Presenters
 - Joyce Lehman (two presentations)
 - Gloria Lai-Bluml
- Panelists
 - Adel Hagekhalil
 - Deven Upadhyay
 - Heather Collins
 - Terri Slifko

Water System Operations

Current Operational Conditions



Whitewater Channel Repair

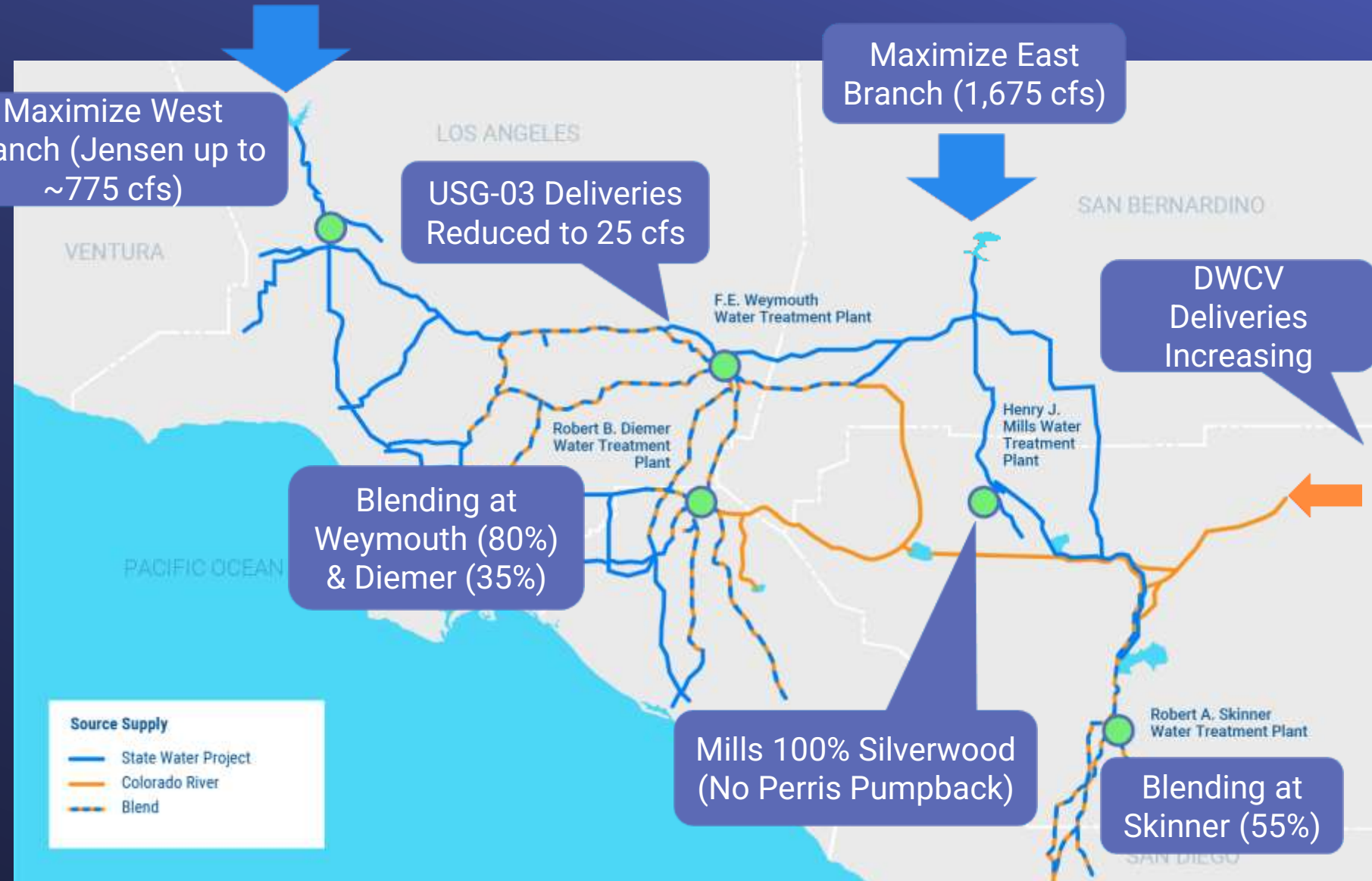
Managing Surplus Conditions

- 2023 SWP Allocation at 100%
- CRA at 5-pump flow
- Deliveries to DWCV at 550 cfs and increasing after channel repair
- SWP blend targets are 80% at Weymouth, 35% at Diemer, and 55% at Skinner
- October 2023 deliveries of 128 TAF were 29 TAF lower than October 2022

Maximizing SWP Supplies

Current Surplus Operations

*Balancing water supply,
quality, and system
constraints*



Southerly View of
Potential Breach Location



Whitewater River Repairs

Ensuring Continued System Reliability

Santa Monica Feeder

Replace Valves
Nov. 6 – 12, 2023

Allen-McColloch Pipeline

PCCP Inspection
Recently Completed

Eastside Pipeline

New turnout installed for future
service connection EM-25
Recently Completed



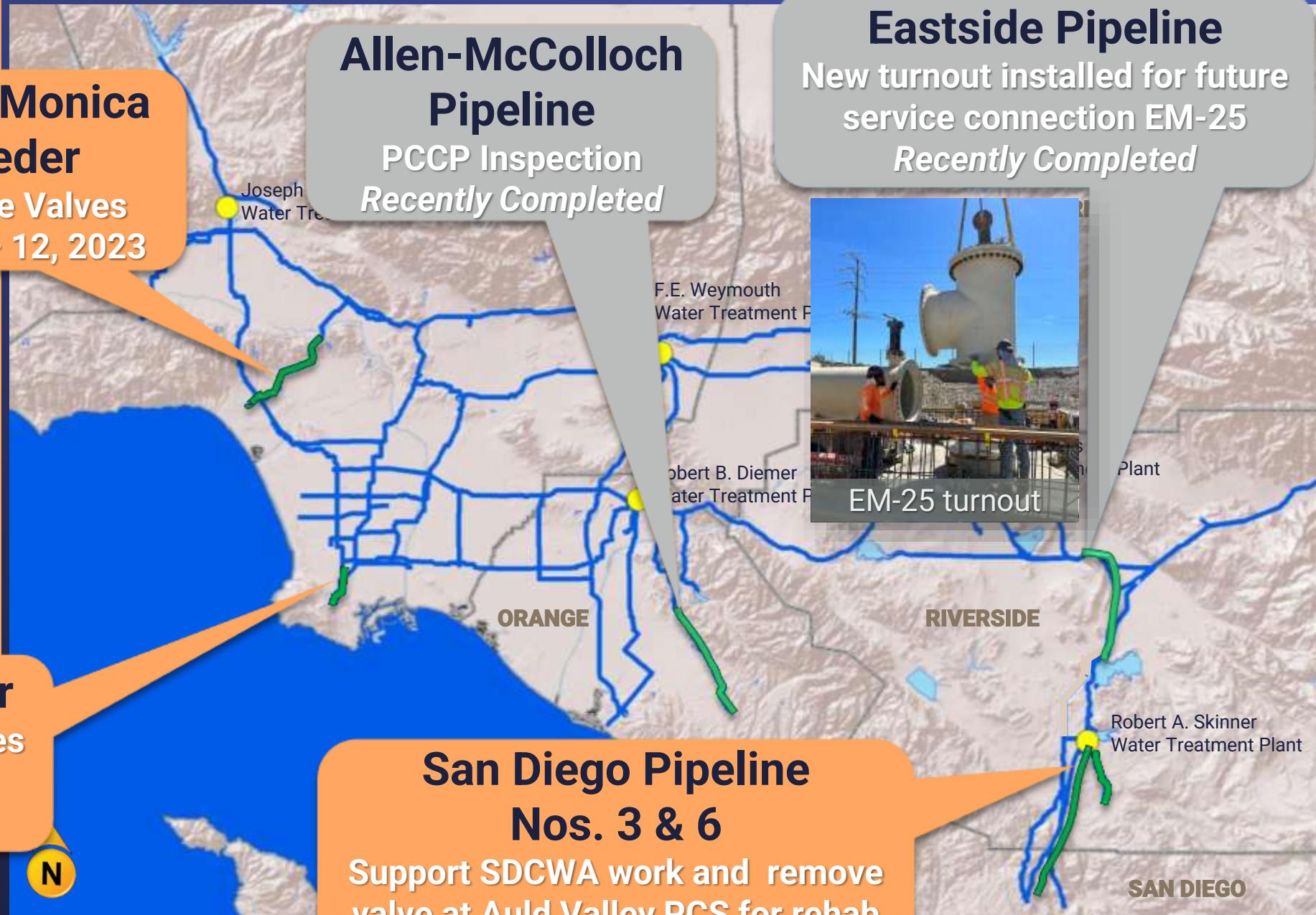
EM-25 turnout

Second Lower Feeder

Tie in temporary Palos Verdes
Reservoir Bypass Line
Nov. 2 – 9, 2023

San Diego Pipeline Nos. 3 & 6

Support SDCWA work and remove
valve at Auld Valley PCS for rehab
Nov. 1 – 14, 2023



Highland Fire



*As of 11/3, ~2,500 acres
burned; 50% contained*

Partnering with Emergency Management Agencies

- Wildfire in southern Riverside County about 15 miles southeast of Lake Skinner; **no impact to Metropolitan operations**
- DVL recreation area used as Fire Unified Command Post
- Metropolitan's Eastern C&D Incident Command Post activated; staff participated at Fire Command Post
- Alert sent to Metropolitan employees for potential local unhealthy air quality
- Effective communications throughout event



Direct Potable Reuse Regulations



*Panel at SWRCB public hearing on
proposed DPR regulations*

Revisions to DPR Draft Criteria

- Significant public comments during initial 45-day public comment period
- Metropolitan and LACSD submitted joint comment letter
- DDW released revised criteria on October 17 with additional 15-day comment period
- Metropolitan submitted additional joint comment letter with LACSD on revised criteria on November 3

Direct Potable Reuse Regulations



Key Revisions Improve DPR Criteria

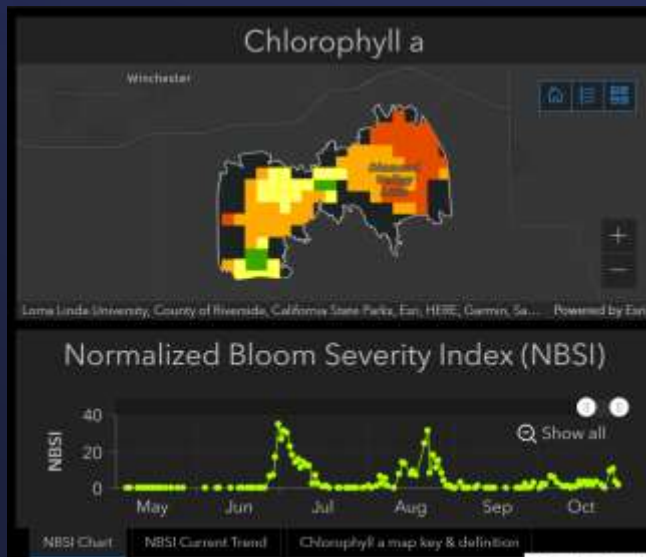
- ✓ Flexibility for Pathogen Control allows pathway for new treatment mechanisms and technologies
- ✓ Flexibility added for TOC dilution in reservoir
- ✓ Streamlining authority for source control program
- Joint comment letter requests:
 - Broad Alternatives clause
 - Standardized online monitoring technology
 - Establishment of CEC Science Advisory Panel
 - Enhanced flexibility in governance and compliance
 - Practical monitoring and reporting provisions

Award-Winning Lake Explorer Dashboard

Partnership between Water Quality and Information Technology

Metropolitan's automated tool for using satellite-based data to monitor lake conditions recognized by a Government Experience Award from the Center for Digital Government

Monitoring Cyanobacterial Blooms



Seyoum Gebremariam, Jonathan Houck, Seth Potter

Information Technology

Center for
Digital
Government's
Experience
Project Winner

Overview of Lake Explorer Dashboard

- Using satellite imagery, the team created a water quality dashboard to monitor the levels of chlorophyll and cyanobacteria in all of the Metropolitan managed reservoirs in near real-time
- The dashboard contains the conditions of the lakes/reservoirs since 2016 so users can select the month/day/year and see the conditions on those dates
- The dashboard compares the change in cyanobacteria using the NCDI (Normalized Cyanobacteria Database Index) Trend and compares the change in chlorophyll using the NBSI trend (Normalized Bloom Severity Index)
- This automated process uses technology to optimize and improve the water quality monitoring that is vital to the health and wellbeing of our 19 million customers

