

Engineering, Operations, & Technology Committee

Planning and Execution of Pipeline Shutdowns Within Metropolitan's Distribution System

Item 6c August 18, 2025

Subject

Conveyance and Distribution Shutdown Planning and Execution

Item 6c

Conveyance and
Distribution
Shutdown
Planning and
Execution

Purpose

Overview of activities required to plan and execute a conveyance and distribution system shutdown

Shutdown Drivers

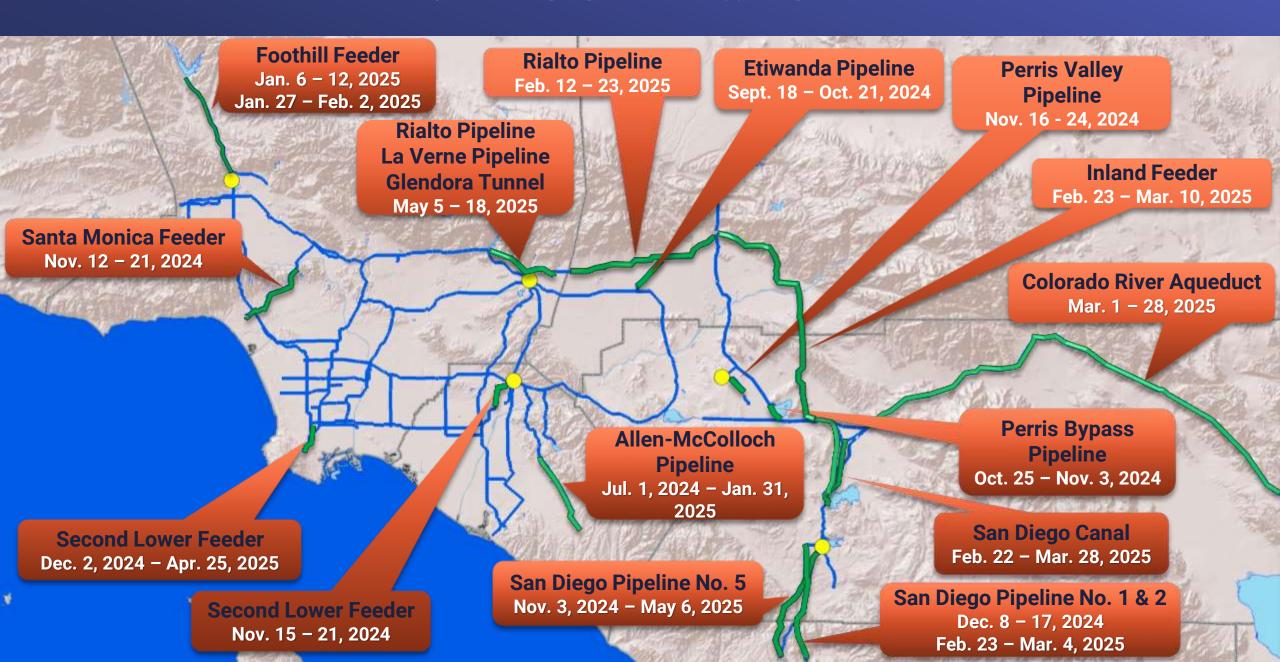








FY 2024/25 Shutdown Schedule



Internal and External Coordination





Thank you for your support and patience as we work to rehabilitate this major pipeline and ensure water reliability throughout Southern California.

> ración per ao apeyo y pasiencia mientras matigames sara rehabilitar esta importante tuberio y garantinar la monfabristad del apos en todo el sur de California.



Una de las futiertes principales en el sistema de agua regional, el Second Lower Feeder, identituye agua en una extensión de 36 millas desde la Flanta de Tratamiento de Agua Flotient B. Diemer en Visitas Linda basila al Resarvorio de Patos Viedes en Rolling Hills Estates. Commundo en 1967, la antiqua futiería cilhorinca de concreto pretensado necesala ser revestida con acera para saeguma su unicipridad futura. El revestimento de la futería en el Second Liber Feeder consecció en octubre de 2017 y se espera que se lieve a calto en foses durante los primismos 8-10 años.

El Proyecto de Revestiniento del Second Lower Feeder 35 relubilitaria aproximadamento 4 millas de tuberia en las ciudades de Los Angeles y Torrance. La coestrucción comenzó en octubre de 2024 y se espera que continúe hasta sunir de 2025.

Qué esperar durante la construcción

- . Ruido de la actividad de construcci
- Retrasos temporarios en el tránsito, restricciones o carries y estacionamiento.
- . Puede ser necesario trabalar las 24 horas







Temperature Discountain

¿Por qui monstile indivigir les 34 hands del die, bra 7 dies de la sementa? Els monantes l'applique les 34 basse parts complete de projectir de marines planette y properties. Monstile relative se transité del conforme commisse de marinelles que productes permittes en sommette confidéd de apar

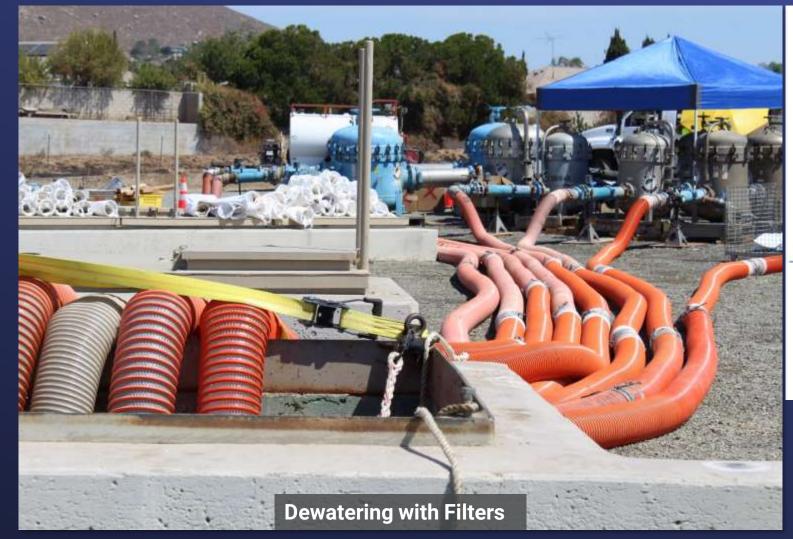
¿Allectaris sobe proportio nel servicio de agua?

Als. El aque empara arrecta entreperir per se promoder lacur de prentiso ante la información de constituir de la constituir de

¿My a susselve el radio de la constitución bela la contre? La resunta, el se tato, del habas resistado por la racida cuarria tasa ben destre de la biblios, momentam y note. Es puedes que concreta el radio de los presentams termo-ent para game el sobres de contreta de la refleción en la balente.

Public Notice – External Affairs

Dewatering Location Information and Coordination





Metropolitan Water District of Southern California

Raw Water Discharge Plan

Raw water discharge from

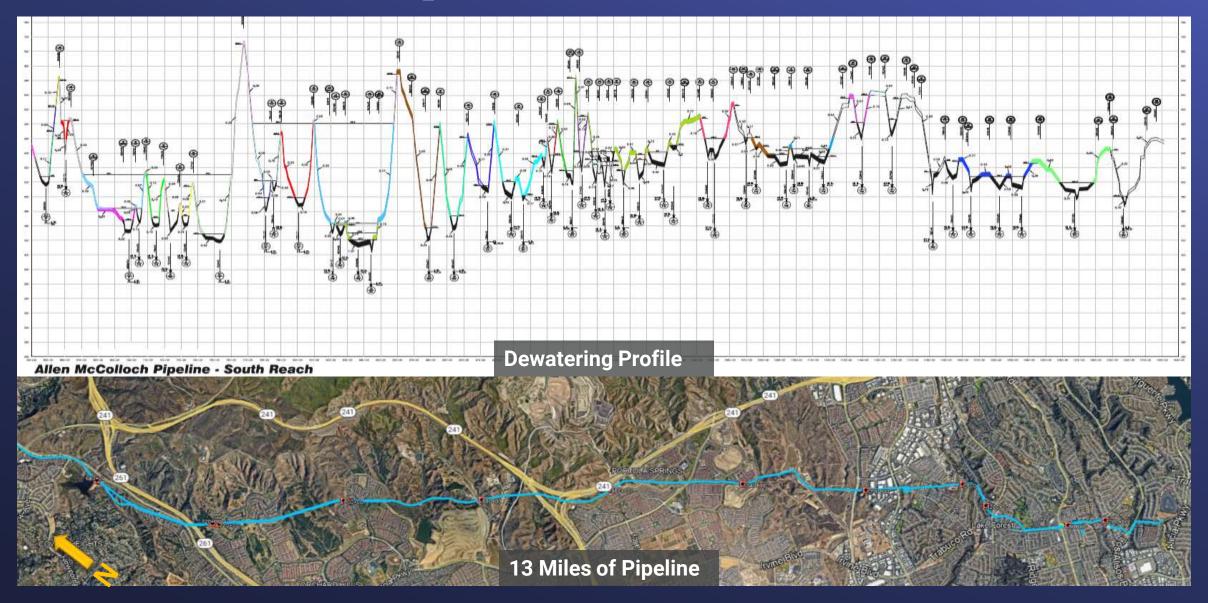
SAN DIEGO PIPELINE 5

Into Santa Margarita River Watershed Area

And San Luis Rey River Watershed Area

- Dewatering locations tracked and monitored
- Additional control
 measures due to invasive
 mussels (Quagga/Golden)

Operational Planning



Operational Planning

SLF 73+01 BO

Dewatering Location

Dewatering Information-Diemer Plant below Guard Shack



Gravity Discharge @ 5CFS

Volume –1.65AF Time- 4 Hours

Confirm 58+32 And 79+10 Open

Begin Flood and Pump

Remove Flange Cont. Pumping

Volume- .15A Time- 2 Hrs.

Equip. - 125kw Generator

Pumps- 3" Submersible

Hose-3" rigid 30' 3" Lay flat 30'

SLF 81+44 PW

Dewater Location

Dewatering Information -Valley View Ave/Golf Course

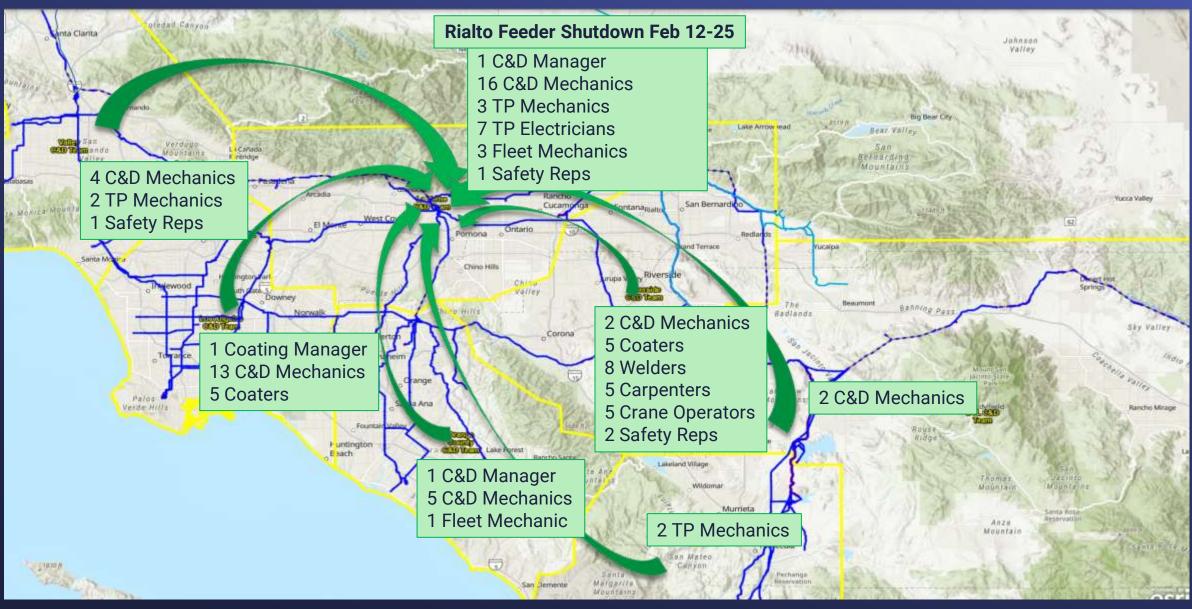


Flood and pump @ 800GPM
Volume –.25 AF Time- 2 hours
Confirm 79+10 and 84+26 open
Remove Flange Cont. Pumping
Equip.-70kw generator
Hose – 6" rigid 30', 6" lay flat 40'
Pump – 6" & 3" submersible
NOTE: Approx. 15' push

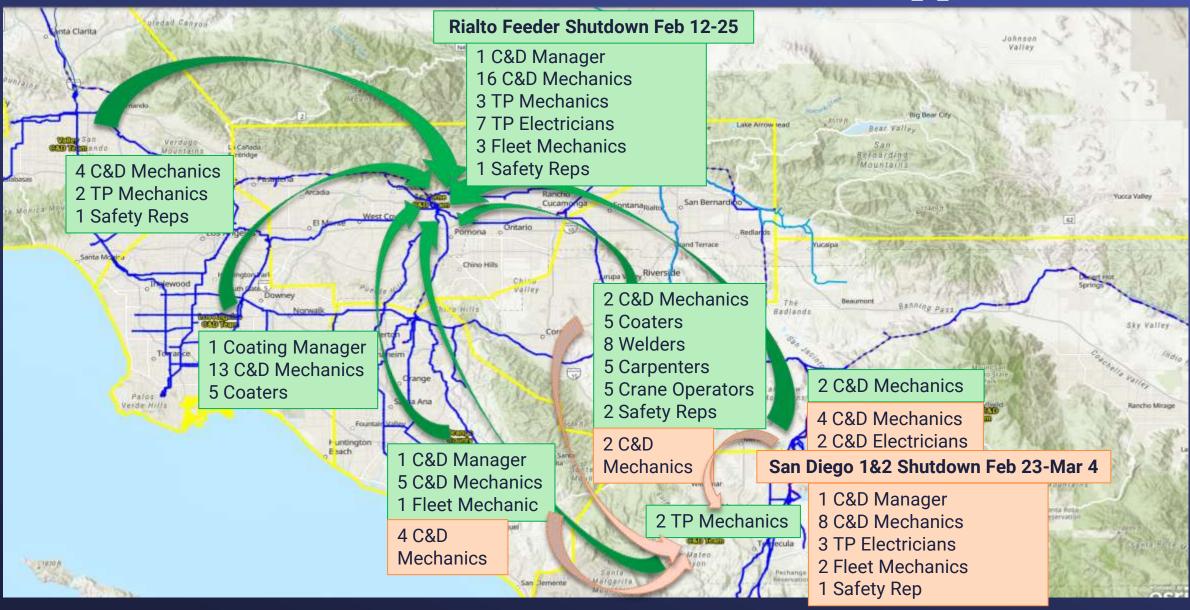


- Shutdown overview for staff briefings
- Location-specific information

Personnel Movement for Shutdown Support



Personnel Movement for Shutdown Support



Equipment Staging





- Remote locations near shutdown often used as base of operations
- Fleet logistics are of great importance

Clearance Procedures









Shutdown Execution



- 13-hour shift rotation to allow for overlap
- Safety Meeting and update from Shutdown Managers before each shift
- New shift relieves current shift at various locations

Shutdown Execution





- Shutdown Managers coordinate daily activities
- Adjust from previous shift progress or setbacks
- Monitor and track crews over long distances

Shutdown Execution





Preventative Work Completed During Shutdowns

Inspection Team Preparing for Entry

Engineering inspections

 Structural and corrosion, typically Technology used to locate broken wires in Prestressed Concrete Cylinder Pipelines



Corrective Work Completed During Shutdowns







Capital Improvement Work Completed During Shutdowns



Making it Happen, Together



