



Engineering, Operations, & Technology Committee

Engineering Services Manager's Report

Item 8b

August 14, 2023

Construction and Procurement Contracts June 2023

Construction and Procurement Contracts Through June 2023

Number of Active Contracts at end of month	54
Total Bid Amount of Contracts in Progress at end of month	\$594 M
Contracts Awarded in month	4
Contracts With Notice To Proceed Issued in month	3
Contracts Completed in month	1
Contract Gross Earnings in month	\$17.7 M

Significant Pipeline Rehabilitations



Orange County Feeder Lining Replacement – Background

- 11 miles of welded steel pipe
 - 36” to 39” diameter
- Originally commissioned in 1942
- Existing coal tar lining is deteriorating



Internal Corrosion

August 14, 2023



Installing Closure Piece

Engineering, Operations, & Technology Committee



Final Inspection

Item # 8b Slide 4

Orange County Feeder – Rehabilitation Strategy

- Stage 1 – Completed 2017
 - Replaced 3 miles of lining
- Stage 2 – Completed 2019
 - Replaced 4 miles of lining
 - Replaced deteriorated valves
 - Improved access locations
 - Sites restoration ongoing
- Stage 3 – Essentially complete
 - Replaced 4 miles of lining
 - Replaced deteriorated valves
 - Improved access locations
 - Sites restoration ongoing
- Total contract value for all 3 stages is approx. \$47 M



Etiwanda Pipeline - Background

- 144-inch diameter welded steel pipe
- Constructed in 1993
- Pressure fluctuations in pipe due to power plant operation
- 40% of mortar lining fallen/delaminated



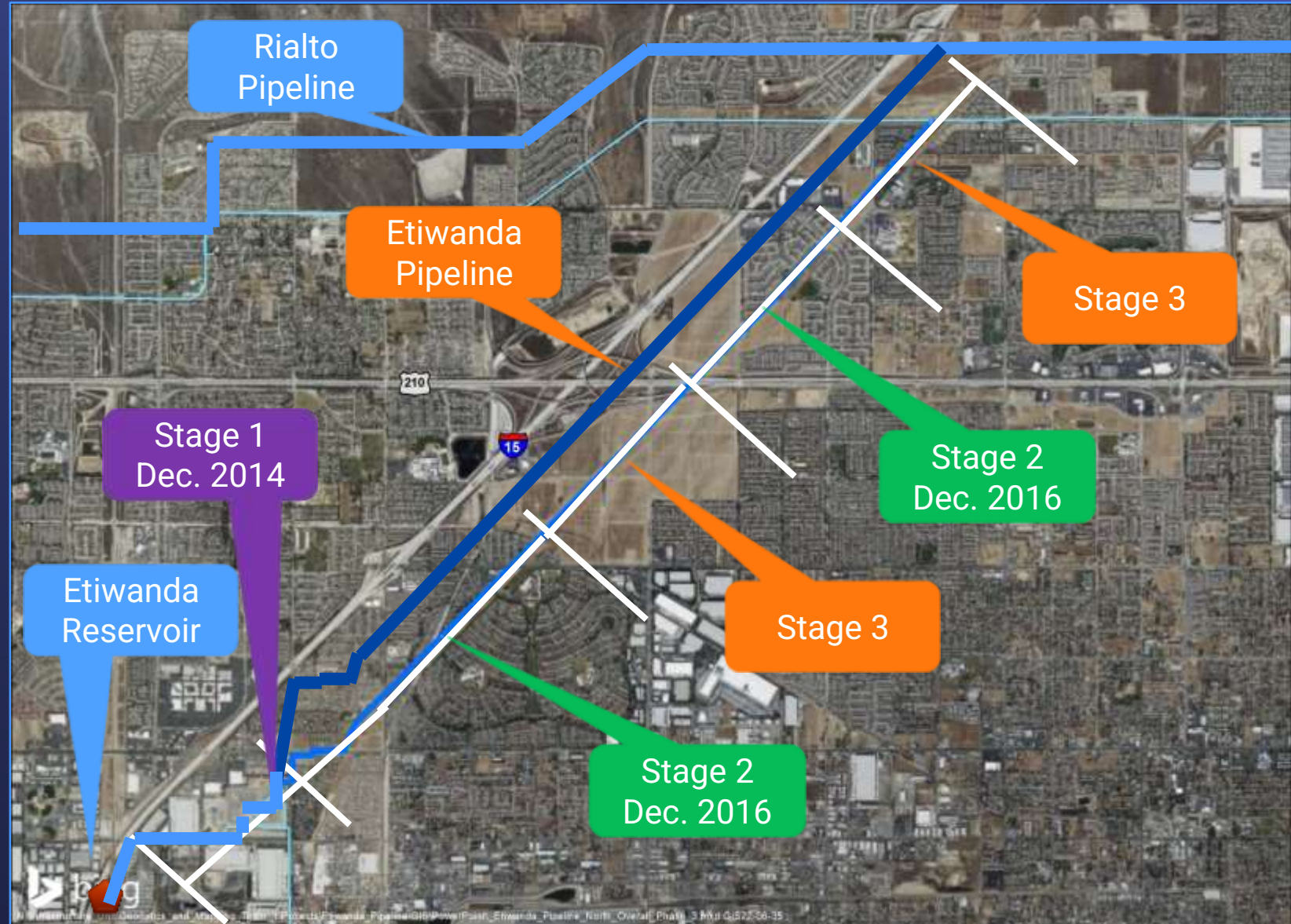
Heavy Corrosion



Final Product

Staged Approach to Pipeline Rehabilitation

- Rehab 5.5 miles
- Stage 1 Dec. 2014
 - 0.5 mile - pilot phase, various repair methods used
- Stage 2 Dec. 2016
 - 2.5 miles - Polyurethane lining
- Stage 3 Aug. 2023
 - 2.5 miles - Polyurethane lining, additional steel liner
- Total contract value for all 3 stages is approx. \$49 M



Lakeview Pipeline Stage 2 Relining

- 3.6 miles of pipeline
- Conveys SWP from Devil Canyon to San Diego Canal
- Pipeline has had numerous leaks due to excessive pipe deformation
- Pipe Procurement:
 - 12,500 feet of 114" & 117" diameter pipe
 - January 2024 board action
- Construction:
 - Installation of MWD-furnished pipe
 - July 2024 board action



Lakeview Pipeline Stage 1
Relining Bernasconi Tunnel

Inland Empire Industry Day

- Date: September 14, 2023
- In-Person Event
- Location: Moreno Valley, CA



2022 Event at Carson, CA

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
PRESENTS
METWORKS
CONTRACTING INFORMATION STRAIGHT FROM THE SOURCE

**INLAND EMPIRE INDUSTRY DAY:
IN-PERSON EVENT**

September 14, 2023
8 a.m. to 11:30 a.m.
Moreno Valley Conference &
Recreation Center
14075 Frederick Street
Moreno Valley, CA 92552

Learn About:

- Lake Mathews Pressure Control Structure and Bypass Project - \$150M Progressive Design Build Project
- Upcoming Metropolitan Contracting and Consulting Opportunities and Successful Contracting Testimonials

Highlight Upcoming Contracting Opportunities from Member Agencies:

- Inland Empire Utilities Agency
- Western Municipal Water District
- Eastern Municipal Water District

[Click here](#)
or scan the QR
code to register
for the event



For more
information on
METWORKS



2023 EOT Inspection Trip

- Date:
 - Tuesday
 - November 7, 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

