



SANTA ANA WATERSHED  
PROJECT AUTHORITY

# 2025 Brine Line Sewer System Management Plan Update

PA 24 Committee  
Item No. 6.A  
Daniel Vasquez  
Manager of Operations  
April 1, 2025

# Recommendation

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That the Project Agreement 24 Committee certifies the 2025 Brine Line Sewer System Management Plan (SSMP) for submission to the State Water Resources Control Board according to Waste Discharge Requirements (WDR) 2022-0103-DWQ.

# Sewer System Management Plan

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- SSMP is required for publicly owned collection systems comprised of more than 1 mile of pipe or sewer line that convey untreated wastewater to a publicly owned treatment facility.
- State Water Resources Control Board recently adopted new Waste Discharge Requirements (WDR) General Order 2022-0103-DWQ which outlines new requirements.

# SSMP Overview

- Spill Emergency Response Plan was last updated in January 2025.
- **SSMP Update is Due May 2, 2025**

	SSMP REQUIRED ELEMENTS
1	Sewer System Management Plan Goal and Introduction
2	Organization
3	Legal Authority
4	Operation and Maintenance Program
5	Design and Performance Provisions
6	Spill Emergency Response Plan
7	Sewer Pipe Blockage Control Program
8	System Evaluation, Capacity Assurance and Capital Improvements
9	Monitoring, Measurement and Program Modifications
10	Internal Audits
11	Communication Program

# Summary of New Requirements (1 of 2)

SSMP Element	Summary of 2022 WDR Changes
Goal and Introduction	<ul style="list-style-type: none"><li>• Implementation of SSMP as “Living Document”</li><li>• Updated Sewer Map</li><li>• Narrative for regulatory context</li></ul>
Organization	<ul style="list-style-type: none"><li>• Contact information of responsible staff for SSMP elements</li></ul>
Legal Authority	<ul style="list-style-type: none"><li>• Collaboration with storm drain agencies</li></ul>
O/M Program	<ul style="list-style-type: none"><li>• Enhanced training, SERP mockups</li></ul>
Design and Performance Provisions	<ul style="list-style-type: none"><li>• Non-Substantive</li></ul>
Sewer Pipe Blockage Control program	<ul style="list-style-type: none"><li>• Justification for FOG Program management</li></ul>

# Summary of New Requirements (2 of 2)

SSMP Element	Summary of 2022 WDR Changes
Spill Emergency Response Plan	<ul style="list-style-type: none"><li>• Spill Categories</li><li>• Storm drain agencies collaboration</li><li>• Annual Certification</li></ul>
System Evaluation, Capacity Assurance, and Capital Improvements	<ul style="list-style-type: none"><li>• Implementation of Capital Improvements</li><li>• Capacity Assessments</li></ul>
Monitoring, measurement, and Program Modifications	<ul style="list-style-type: none"><li>• Change Log</li><li>• Key Performance Indicators</li></ul>
Internal Audits	<ul style="list-style-type: none"><li>• Internal Audits every 3 years, Update every 6</li></ul>
Communication program	<ul style="list-style-type: none"><li>• Enhanced communication procedures</li></ul>

# SSMP Updates

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- Restructured Legal Authority element to reflect the governance of PA 24 over the Brine Line.
- Developed new training to meet new WDR requirements such as spill-mockup training, contractor SERP training, and data entry to State Website.
- Integration of Brine Line Master Plan into System Evaluation, Capacity Assurance, and Capital Improvements SSMP Element.
- Development of Key Performance Indicators (KPI's) for each SSMP Element to measure effectiveness and implementation of all SSMP requirements.

# Recommendation

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# Questions?

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SANTA ANA WATERSHED  
PROJECT AUTHORITY

# Inland Empire Brine Line Reach IV-D Condition Assessment

PA 24 Committee

Item No. 6.B

David Ruhl

Executive Manager of Engineering and Operations

April 1, 2025



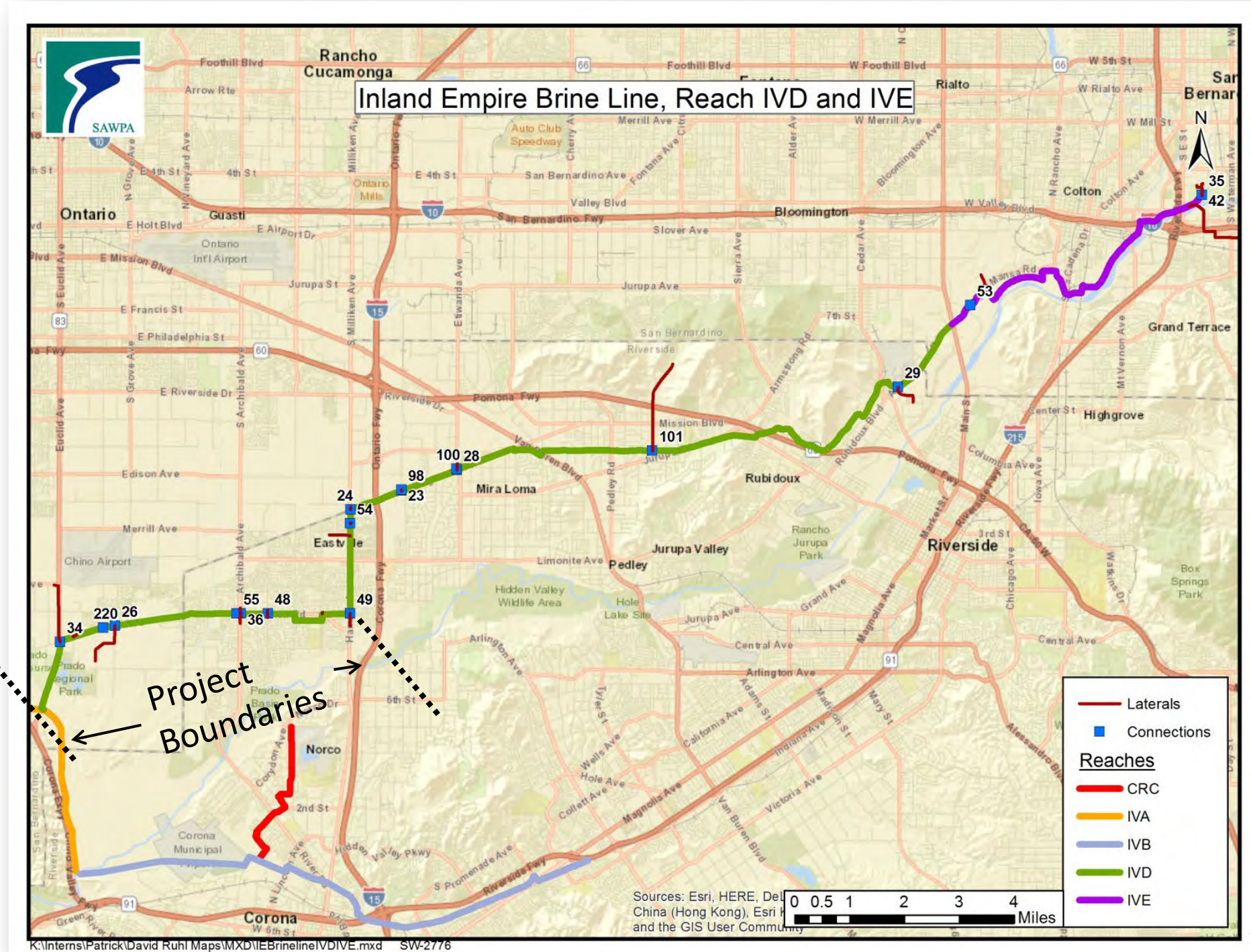
# Brine Line Reach IV-D Pipeline Corrosion

## Reach IV - D

- 21 Miles
- Built in mid 1990s
- Pipe size 36" – 48"
- Ave. Flow 5.5 MGD

# Project Boundaries

- 7 Miles
- 42" RCP with 270 degree T-Lock
- Within Cities of Chino and Eastvale





# Brine Line Reach IV-D

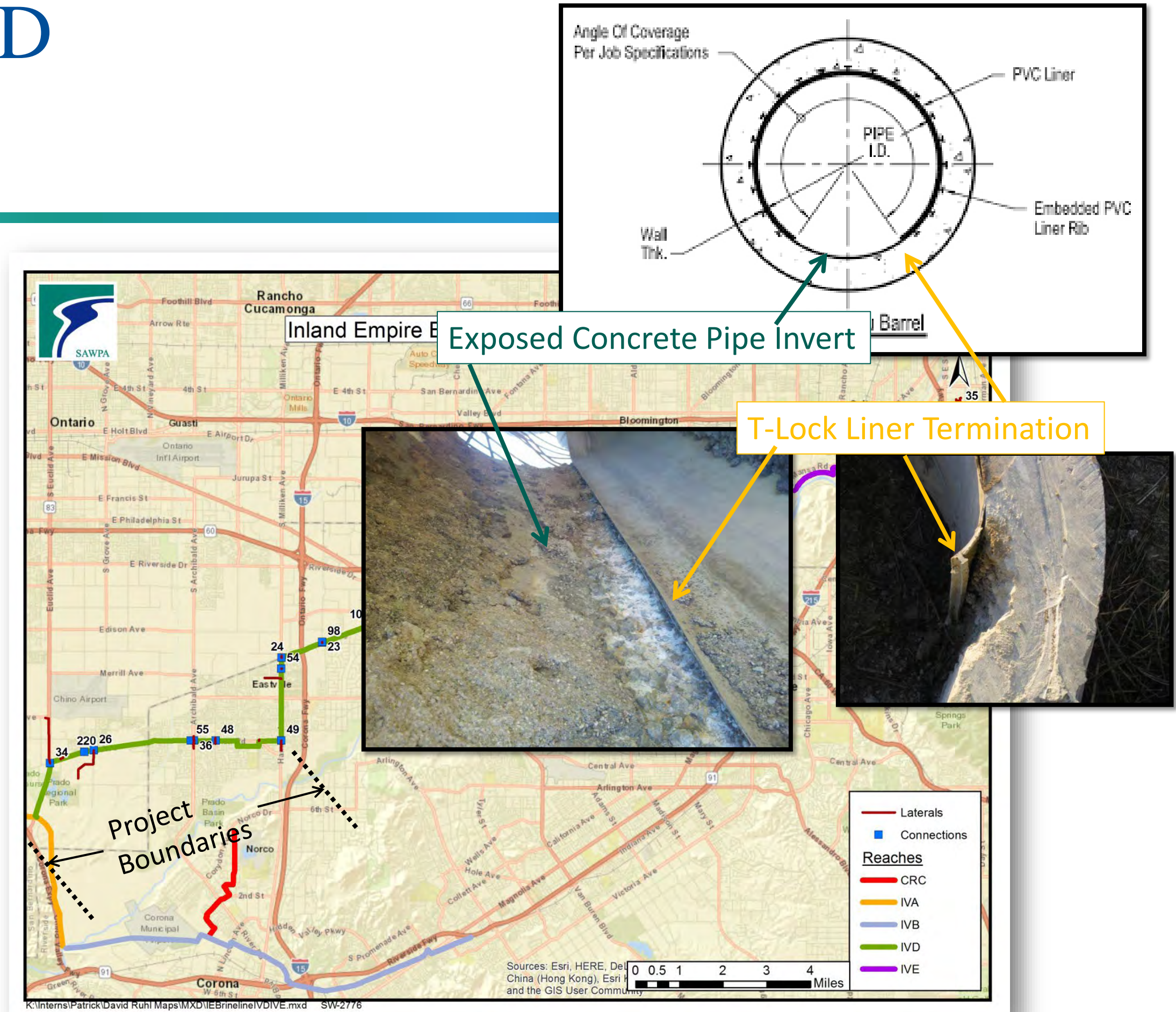
## Pipeline Corrosion

### Reach IV - D

- 21 Miles
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### Project Boundaries

- 7 Miles
- 42" RCP with 270 degree T-Lock
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# Field Investigation



Dischargers shutdown beginning on February 26<sup>th</sup>



Condition assessment 30 hours beginning on February 27<sup>th</sup>



Line cleaning and CCTV



Manned entry at 7 locations to conduct visual assessment and physical tests



Preliminary finding and recommendations presented to PA – 24 in July 2024





# Findings and Final Report

- Pipe segments and MAS appear to be in a similar condition as in 2018 and 2019.
- Unlined concrete surfaces below the liner termination point have moderately deteriorated, meaning the concrete has exposed aggregate.
- Testing results indicate the lined concrete appear to be well protected from the corrosive environment and in good condition.
- Draft Report provided to Member Agency staff for review in August 2024.
- Final Report completed in November 2024



Figure 1: Behind the liner testing



Figure 2: Unlined concrete testing

# Project Recommendations

Project	Anticipated Schedule	Project Recommendation	Order of Magnitude Cost
Near-Term	2 years	Man-entry inspections at two key locations, Clean and CCTV 1 pipe segment	\$90,000
Mid-Term	5 – 10 years	Clean and CCTV 7 miles of pipeline. Man-entry inspection at 7 locations. Refine useful life estimate.	\$900,000
Long-Term Phase 1	10 – 15 years	Rehabilitate 23,000 feet of Brine Line	\$28 Million (+/-) Subject to reevaluation
Long-Term Phase 2	20+ years	Rehabilitate 12,000 feet of Brine Line	\$15 Million (+/-) Subject to reevaluation

# Next Steps

- Include the recommended Projects in the Brine Line CIP.
- Continue to coordinate with City of Chino on potential impacts to this portion of Reach IV-D due to the proposed City of Chino Euclid Bridge Project.





# Recommendation

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Receive and file the Data Analysis and Summary Report for Brine Line Reach IV-D Rehabilitation Work Plan Mid-Term Recommended Inspection Final Report.

# Questions?

# Thank You

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