

IAM USA Chapter

National Branch Meeting

June 17 2026

Agenda

- Overview of IAM-USA Chapter and Membership
- Presentation by Great Lakes Water
- Q&A
- Close the National Meeting - Branch Networking as applicable

The Institute of Asset Management



- The Institute of Asset Management (the IAM) is the international professional body for asset management professionals.
- The IAM develops asset management knowledge and best practices and generates awareness of the benefits of the asset management discipline for individuals, organizations, and wider society.
- Established in 1994, the IAM currently has over 2000 individual and 300 corporate members and a network of over 46,000 people globally.
- The Institute of Asset Management (the IAM) is a not-for-profit professional body and is committed to remaining independent from commercial and trade associations.

Why Join IAM?

CONNECT

With Your Community



Meet with members of the asset management community and expand your networks

DEVELOP

Your Capability



Enhance your career with our range of services to enable you to progress and take the next step in your professional journey, whatever that may be

EXPAND

Your Knowledge



Access tools to support you in your day-to-day role

RECOGNITION

From Your Peers



Gain recognition and discover opportunities to contribute locally and globally to raise your profile and that of the asset management profession.

Membership Levels, Costs & Benefits



Student – actively studying asset management



Associate – no prerequisites



Member (MIAM) – experience and Proposer support required



Fellow (FIAM) – leadership experience and two Proposers required



Corporate – no prerequisites, additional benefits beyond those listed here. Includes 1 membership

Annual Membership Costs

- ✓ Initial joining fee: \$50 (free for Corporate)
- ✓ Student: \$40 (\$25 for Corporate)
- ✓ Associate, MIAM, FIAM: \$200 (\$170 for Corporate)

Membership Benefits

- ✓ Discounts on books & publications
- ✓ Discounts on IAM Conferences & events
- ✓ Assets magazine
- ✓ Information about upcoming events
- ✓ Opportunities to contribute to knowledge
- ✓ Reciprocal membership with the Society of Maintenance & Reliability Professionals (SMRP)

Corporate Members and Patrons

- Corp members:
 - 1898 & Co., a part of Burns & McDonnell
 - 21Tech, Amentum
 - AsInt, Inc.
 - Black & Veatch Corporation
 - Carollo Engineers, Inc.
 - City of Greeley
 - CodeRed Business Solutions, Inc.
 - Cohesive
 - Collins Engineers, Inc.
 - EA Engineering
 - Science, and Technology Inc.
 - PBC
 - Gannett Fleming, Inc.
 - Hazen And Sawyer
 - HDR
 - HNTB Corporation
 - International Council for Machinery Lubrication
 - Johnson, Mirmiran & Thompson (JMT)
 - Jones Lang LaSalle Incorporated
 - KBR Corporate Headquarters
 - Kennedy/Jenks Consultants, Inc.
 - Life Cycle Engineering Inc
 - Lumenor Consulting Group
 - Marine Tiger Technologies
 - NiSource
 - Novo Nordisk
 - Port Authority of NY and NJ
 - Raftelis
 - Stratum Consulting Partners
 - US Rail Systems Inc.
 - Woolpert, Inc
 - ZPRO SOLUTIONS INC.
- Corp patrons:
 - CBRE
 - Jacobs
- Academics
 - Michigan Technological University
- NGO/Gov institutions:
 - Bi-State Development Agency/Metro
 - Bonneville Power Administration
 - Bureau of Reclamation
 - Charlotte County Board of County Commissioners
 - City and County of Denver
 - City Of Fort Worth
 - City of Tualatin
 - City of Virginia Beach Department of Public Works
 - Clackamas County Water Environment Services
 - Fairfax County
 - Great Lakes Water Authority
 - King County Metro
 - Metropolitan Airports Commission
 - Metropolitan Atlanta Rapid Transit Authority – Headquarters
 - Metropolitan Council Minneapolis Water Treat. & Dist. Services, Div
 - New York Power Authority
 - Port of Corpus Christi Authority
 - Port of Long Beach
 - Prince William Water
 - Salt River Project
 - San Francisco Bay Area Rapid Transit District
 - Sandia National Laboratories

IAM Opinion Survey 2026



IAM OPINION SURVEY

WE WANT TO HEAR YOUR THOUGHTS!

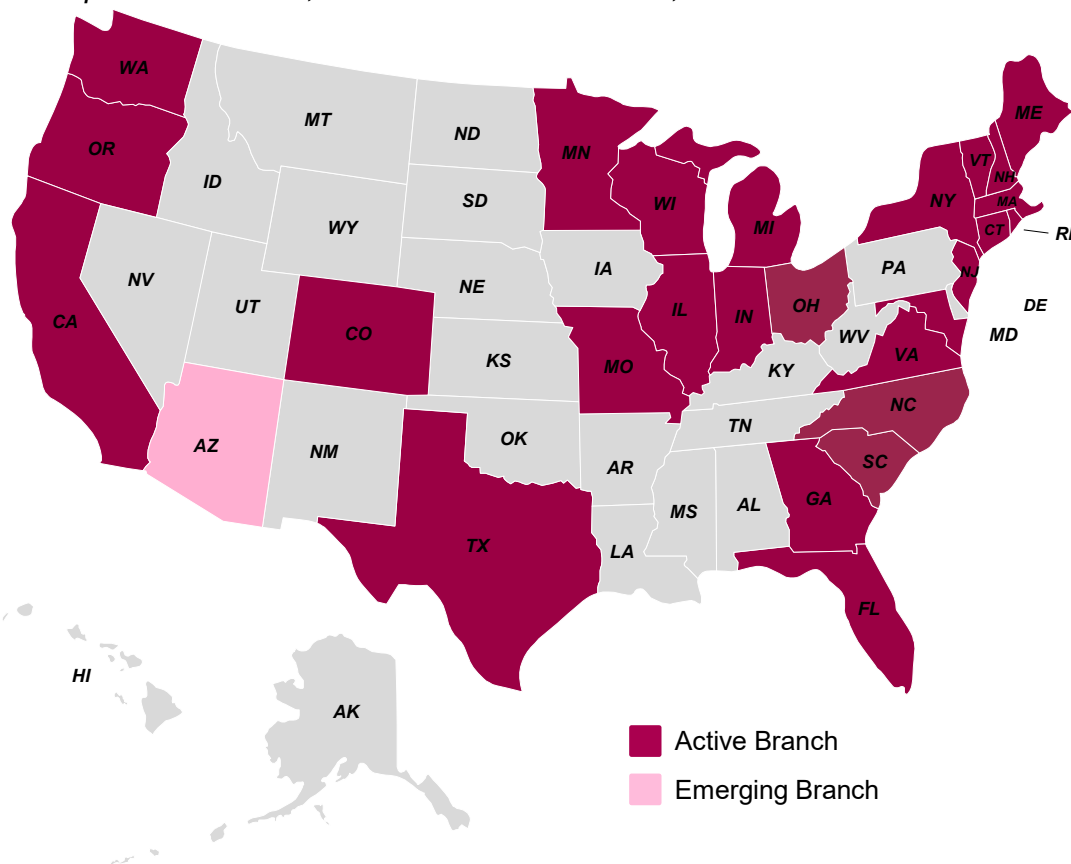


Take the
Survey

USA Chapter Branches

US Paying IAM members – 464 currently (~16% of overall IAM membership)

Plus 31 Corporate Members, 23 Government Members, 2 Patrons and 1 Academic institution.



17 Active Branches

- Atlanta
- Austin
- Carolinas
- Colorado
- Great Lakes
- Houston
- Minnesota
- New England
- New York / New Jersey
- Oregon
- Pacific NW
- San Francisco (Bay Area)
- Southern California
- South Florida
- Southwest Florida
- St. Louis
- Washington DC / Maryland / Virginia

1 Developing Branch

- Arizona

Get Involved With Your Local Branch

Send an email to get involved:

branches@usa.theiam.org

- Support branch activities
- Present at a branch meeting
- Start a new branch in your area

Branches needing support:

- SW Florida
- Houston
- New England
- Pacific NW
- Minnesota
- Carolinas
- Austin

2026 North American Conference



Toronto, Canada, 5 - 7 October

Convergence: Connecting People, Data, and Assets

Mark your calendars for the 2026 IAM North American Conference

Delta Hotels, Toronto, 75 Lower Simcoe Street, Toronto, Canada

**Early Bird Pricing Ends
July 31**

Track 1: Operations Track: Mastering the Life cycle - In partnership with SMRP

Track 2: Organizational Track: Culture as Catalyst

Track 3: Innovation Track: The Digital Edge

**North American Awards and Abstracts
Submissions - Closed**



IAM Communication Preferences – Login and Update

IAM Portal

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Set your preferences below to receive email information about the following topics. You can change your preferences at any time below to opt out

Call for Papers/Speaker Opportunities
☒ Yes ☐ No

IAM Event Invitations ☒ Yes ☐ No

IAM News And Updates ☒ Yes ☐ No

IAM Exams ☒ Yes ☐ No

IAM Surveys ☒ Yes ☐ No

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Chapter Preferences

Affiliating with a Chapter and Branch below means you will receive local event invites, news and updates. You can change your preferences at any time below.

☒ USA Chapter

Hide Branches ^

Select the branches you wish to receive information about:

☒ IAM Atlanta Branch

☒ IAM Austin Branch

☒ IAM Bay Area Branch

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☒ IAM Colorado Branch

☒ IAM DC, Maryland and Virginia

☒ IAM Great Lakes Branch

☒ IAM Houston Branch

☒ IAM Minnesota Branch

☒ IAM New England

☒ IAM New York / New Jersey Branch

☒ IAM Oregon

☒ IAM South Florida Branch

☒ IAM Southern California Branch

☒ IAM St Louis Branch

Update



Keep Up to Date with the IAM

- If you are already a member ensure you are **signed up for updates**
- If you are not already a member why not join and ensure you sign up for updates:

[IAM - Individual Membership \(theiam.org\)](https://theiam.org)

- If you don't want to be a member, register for an account and ensure you sign up for updates:

[IAM - Register Member \(theiam.org\)](https://theiam.org)

- Follow our IAM LinkedIn page:

<https://www.linkedin.com/company/the-iam/>

We are posting something every working day

~21,000 followers



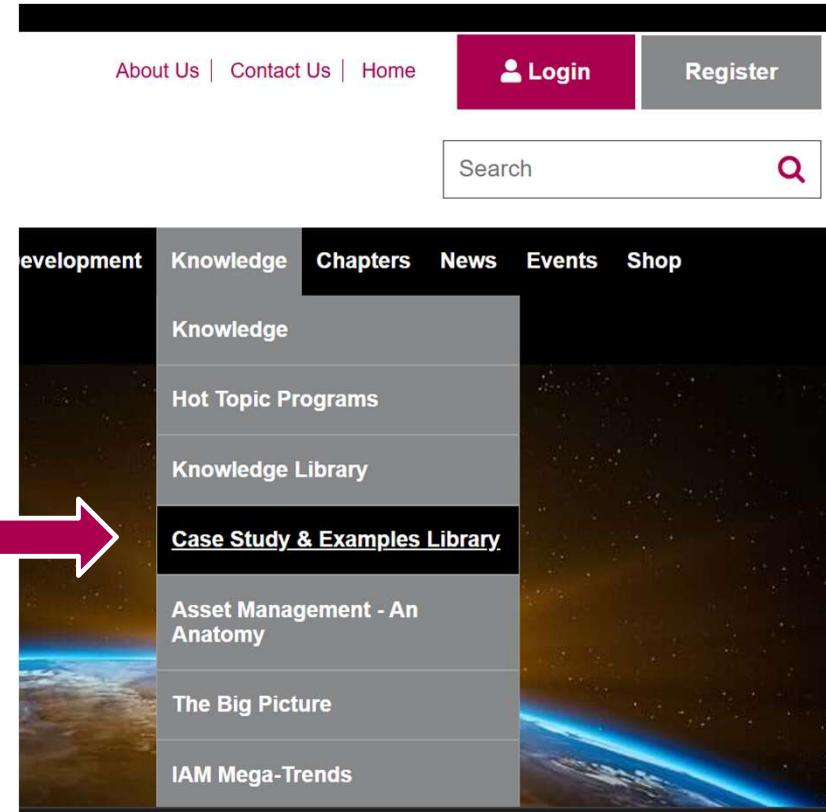
Knowledge Groups and Case Studies

- Work with us to develop a case study for your organization and present at a webinar

Tammy.Whipple@usa.theiam.org

Andrew.Ardrey@usa.theiam.org

- Case Study Library is available online



Great Lakes Water

IAM USA Chapter
National Branch Meeting

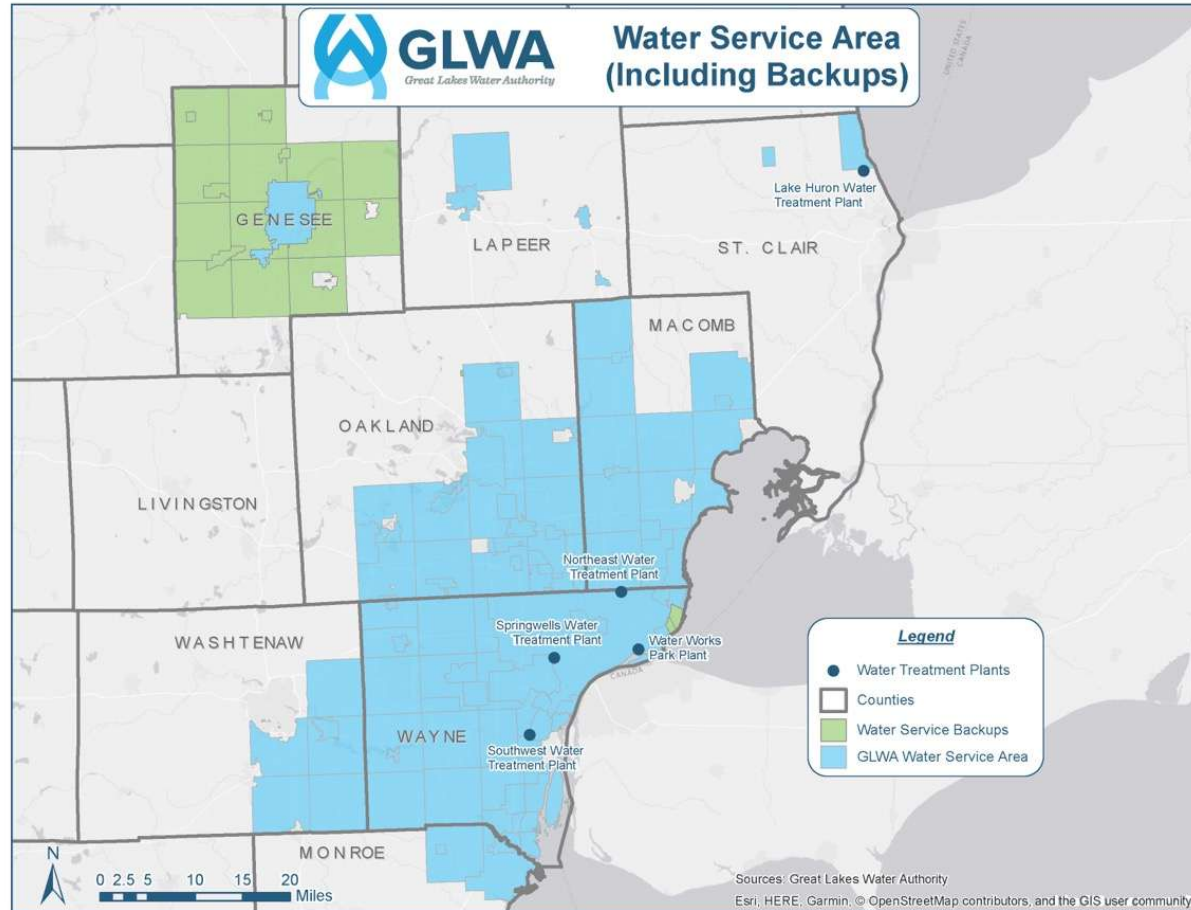
Asset Management in Practice: GLWA's Linear System Integrity Program (LSIP)

Steve Dutschke, Director, Asset Management
Great Lakes Water Authority
Steven.Dutschke@glwater.org



June 17th, 2026 | 2:00 – 4:00pm

- 💧 Infrastructure is expensive. Our water transmission needs significantly outweigh our current renewal strategy
- 💧 We need to be smart and adapt. We are evolving to a more comprehensive “Water Transmission Main Renewal Strategy”
- 💧 Infrastructure is expensive. Long-term, annual funding and affordability is the greatest challenge



Water System

5 

Treatment Plants



816 miles of
transmission main



3.8 MILLION
PEOPLE SERVED



88 Member Partners
across **112** communities



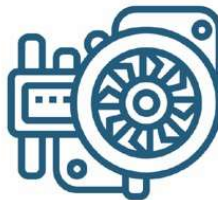
Treatment capacity of **1,720**
million gallons per day



3 Water
Intakes



19 BOOSTER
PUMP STATIONS



1,698 SQ. MILE
service area

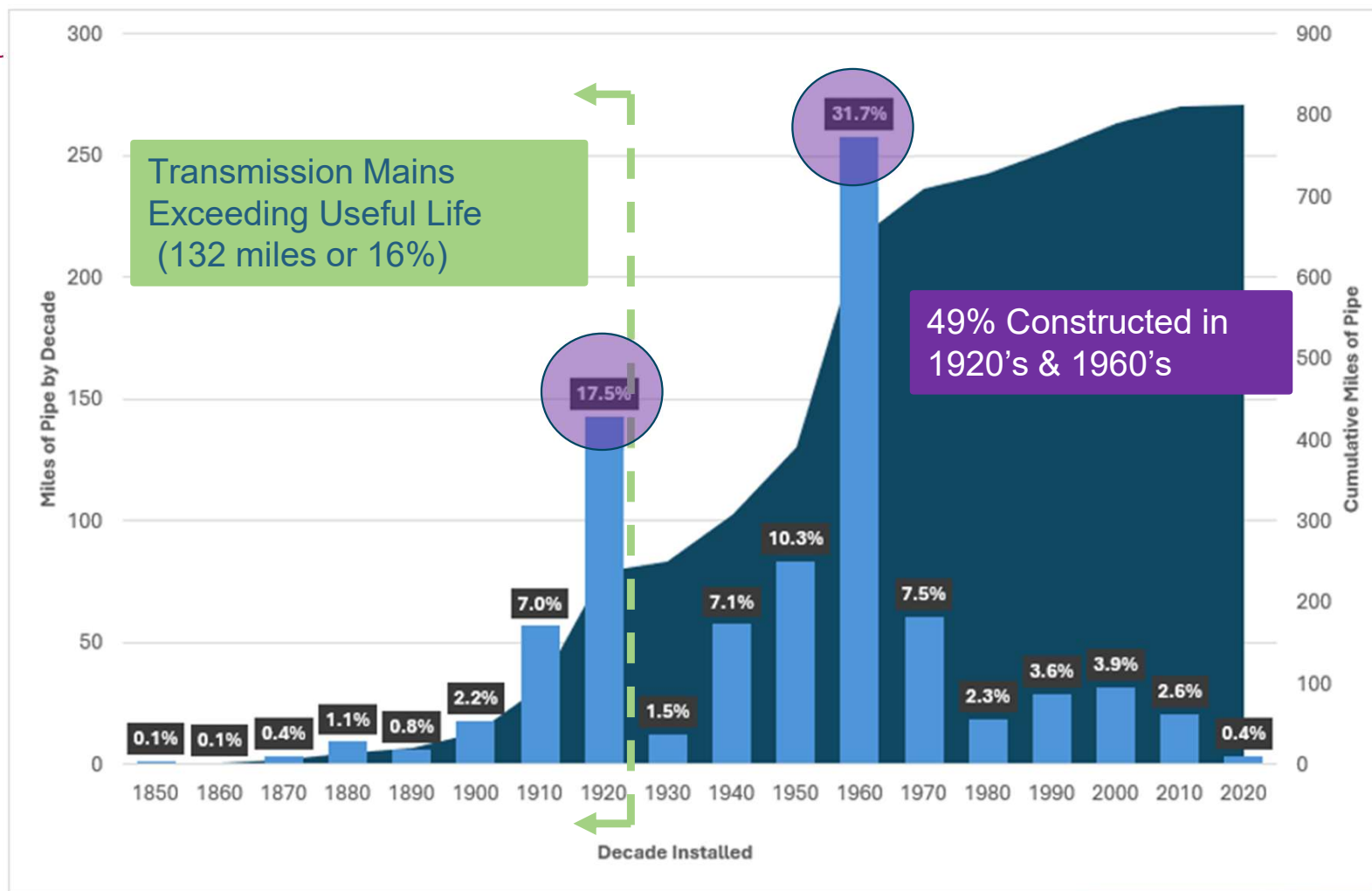
MISSION: *To exceed our customer's expectations by utilizing best practices in the treatment and transmission of water and WW, while promoting health communities and economic growth.*

Water Transmission System

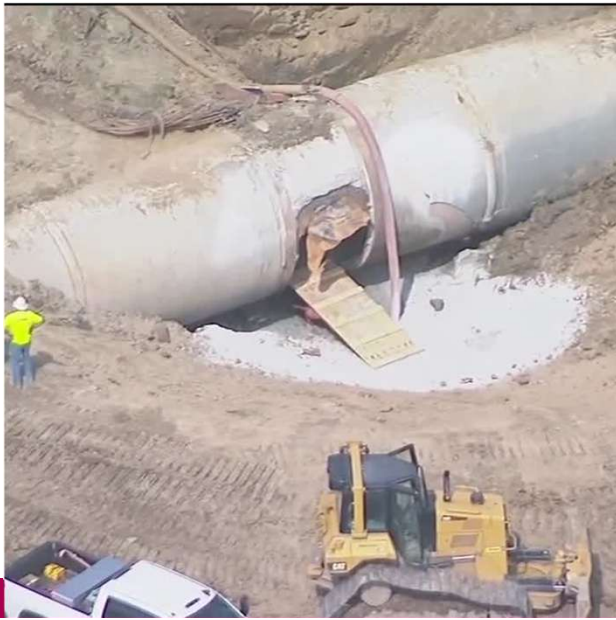
- 💧 Total Transmission Main: 800 miles across eight counties
 - 💧 Concrete mains: 500 miles
 - 💧 Metallic mains: 300 miles
- 💧 Large diameter mains up to 120 inches and under a pressure of up to 180 pounds per square inch
- 💧 Average age: 76 years
- 💧 Expected useful Life: 80 – 120 years depending on main type
- 💧 Estimated replacement cost ~\$10 Billion
- 💧 Water Mains failing leads to negative outcomes



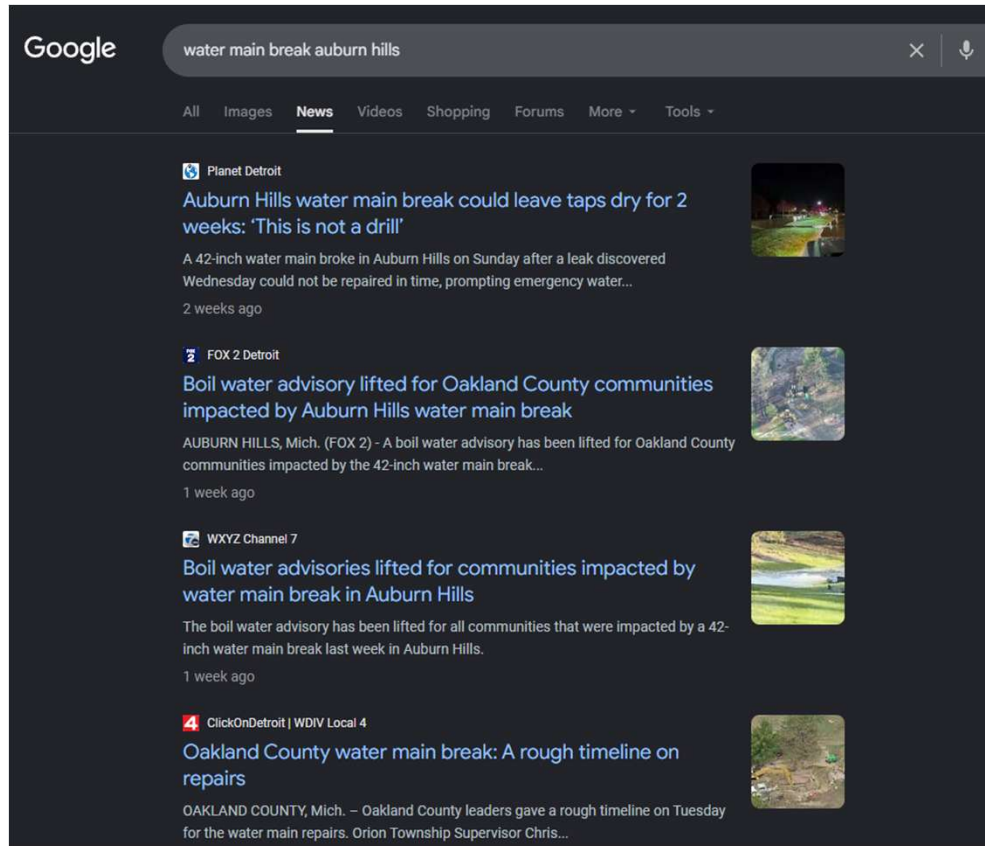
Water Transmission System



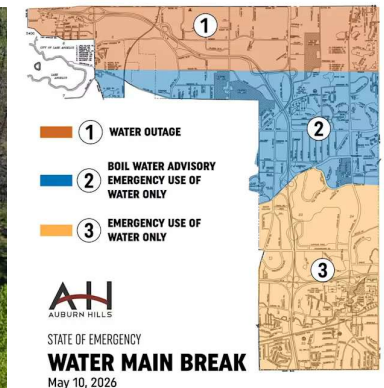
The NEED to Proactively Manage Transmission Mains



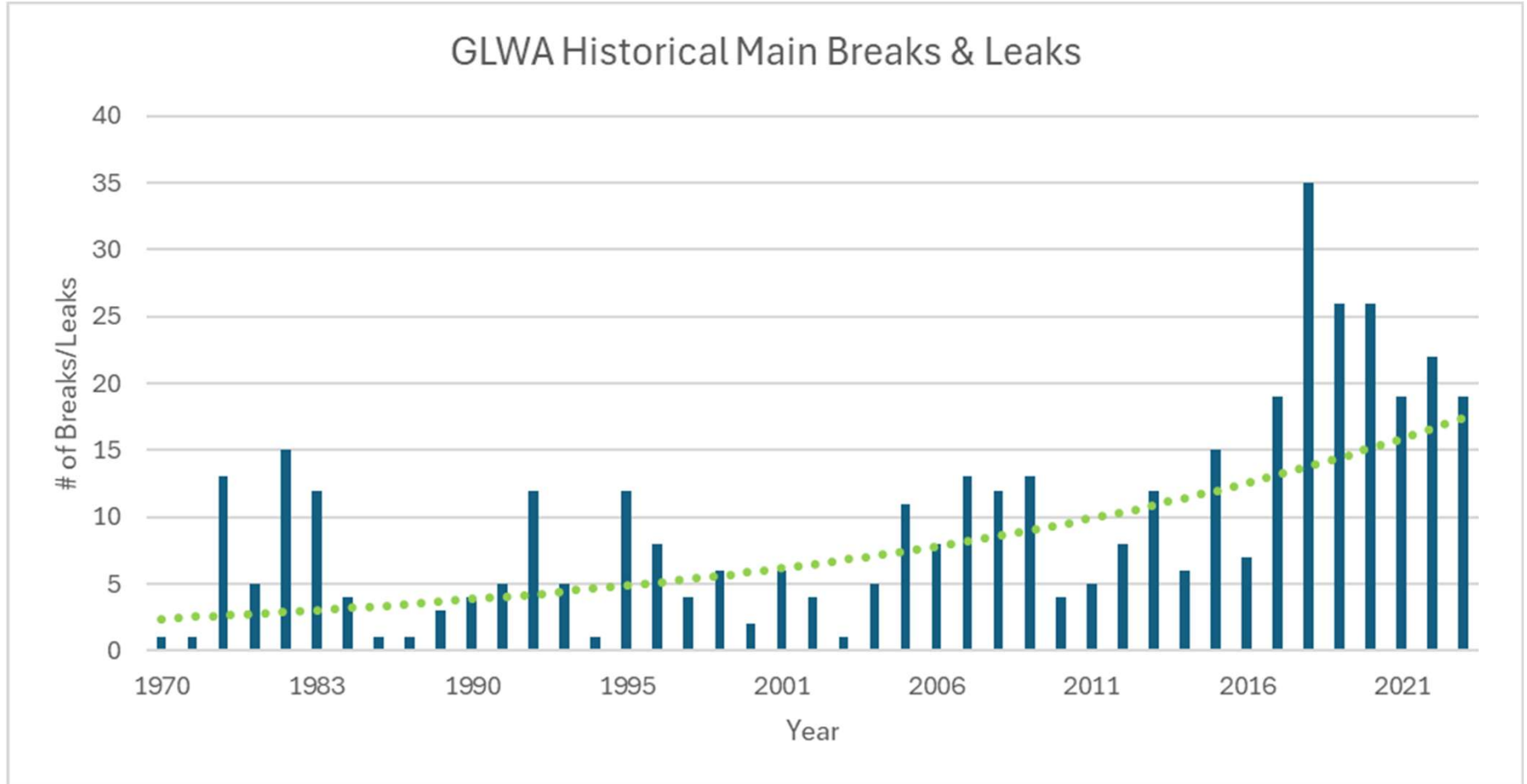
Post Submission Adjustment



- 💧 This presentation was prepared in April & May
- 💧 This is a real and present issue
- 💧 Failure to manage this infrastructure well have economic, social and environmental impacts



Main Breaks & Leaks



About the Linear System Integrity Program (LSIP)

A framework to proactively manage linear assets through effective condition assessments

Goals:

Increase reliability to meet service levels

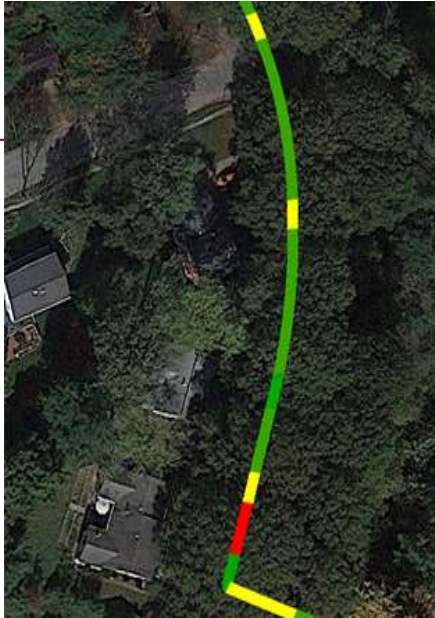
Limit failures on high-consequence assets

Reduce the overall risk of pipeline failures

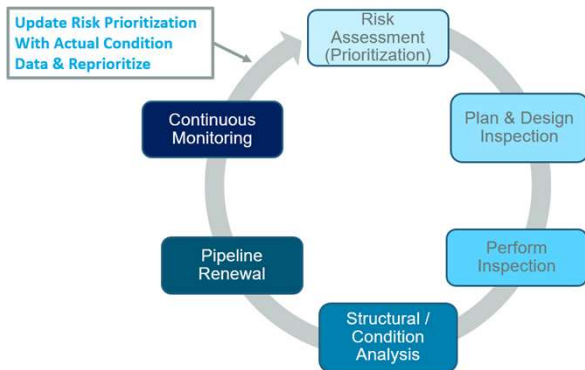
Maximize the useful life of GLWA's linear assets

Implement consistent and effective data management protocols

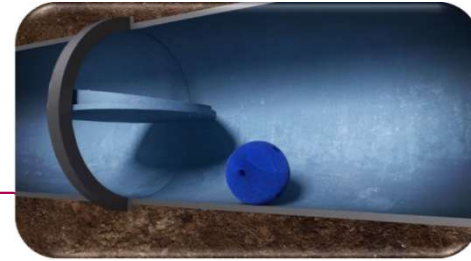
LSIP History



- 💧 Prioritization of transmission main based on Risk for strategic condition assessment and targeted renewal
- 💧 “Lean” program strategy developed:
 - 💧 Focus on approximately 20 miles of Prestressed Concrete Cylinder Pipe (PCCP) per year
- 💧 With LSIP Program Manager, HDR of Michigan developed program framework, governance and began high resolution condition assessments and renewal

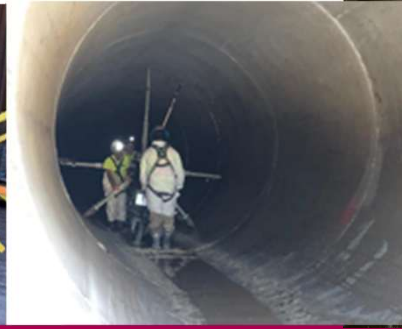
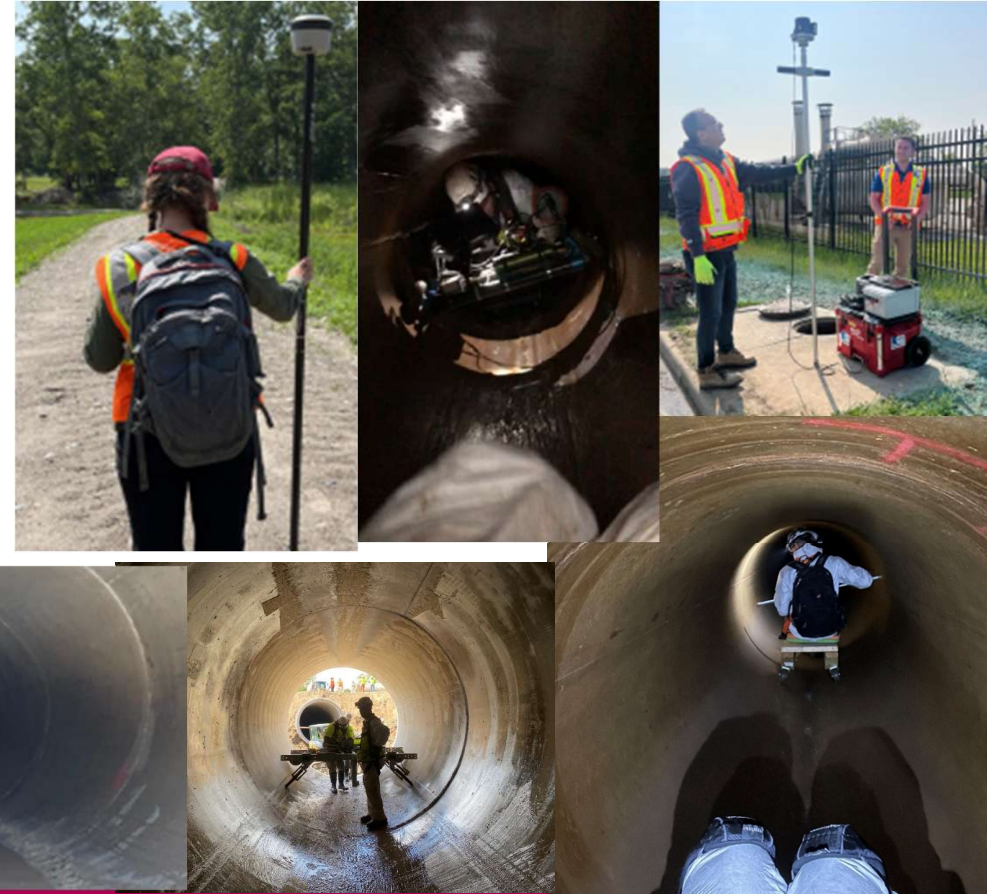


LSIP Progress



💧 Condition Assessment Completed

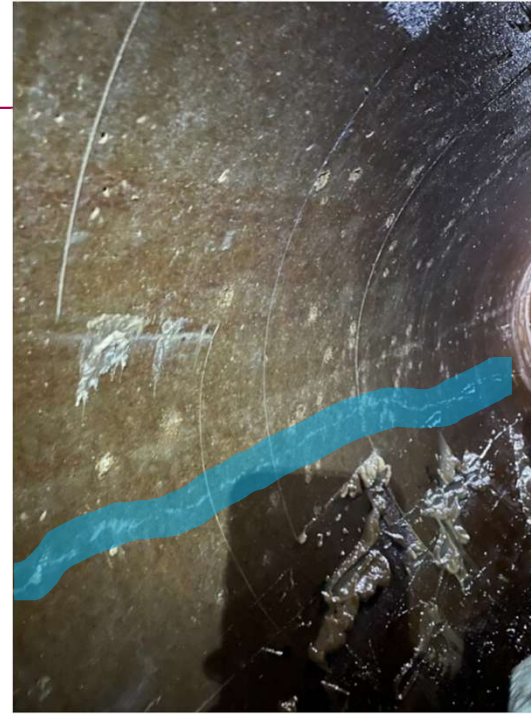
- 💧 Aboveground survey – 37.5 miles
- 💧 High resolution inspection – 57.7 miles
- 💧 Visual and sounding inspection – 23.2 miles
- 💧 Pilot technologies (external acoustic & internal fiber)– 2.4 mile
- 💧 Opportunistic pipe inspection – 18.9 miles
- 💧 Future planned pipe inspection (through 2027) – 14.6 miles



LSIP Progress Cont'd

💧 Pipe segments renewed:

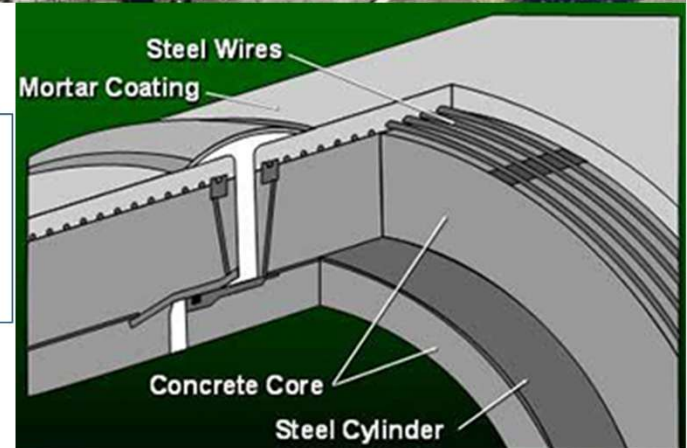
- 💧 Pipes failed (cracks/hollows)– 20 (400 feet)
- 💧 Pipes with significant distressed – 57 (1,043 feet)
- 💧 Pipes nearing or exceeding strength limit– 97 (1,939 feet)
- 💧 Pipes under the influence of cathodic protection system – 33 (632 feet)



LSIP Progress Cont'd



Prestressed
Concrete Cylinder
Pipe (PCCP)
Cross Section



LSIP Progress Cont'd

💧 Lean program has been focused on inspecting & renewing distressed PCCP Pipe:

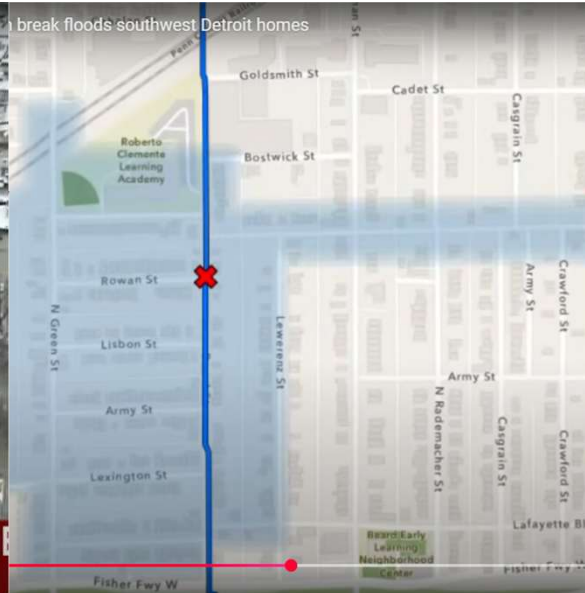
- 💧 Primary renewal strategy has been with Carbon Fiber Reinforced Polymer (CFRP) (3,785 feet)



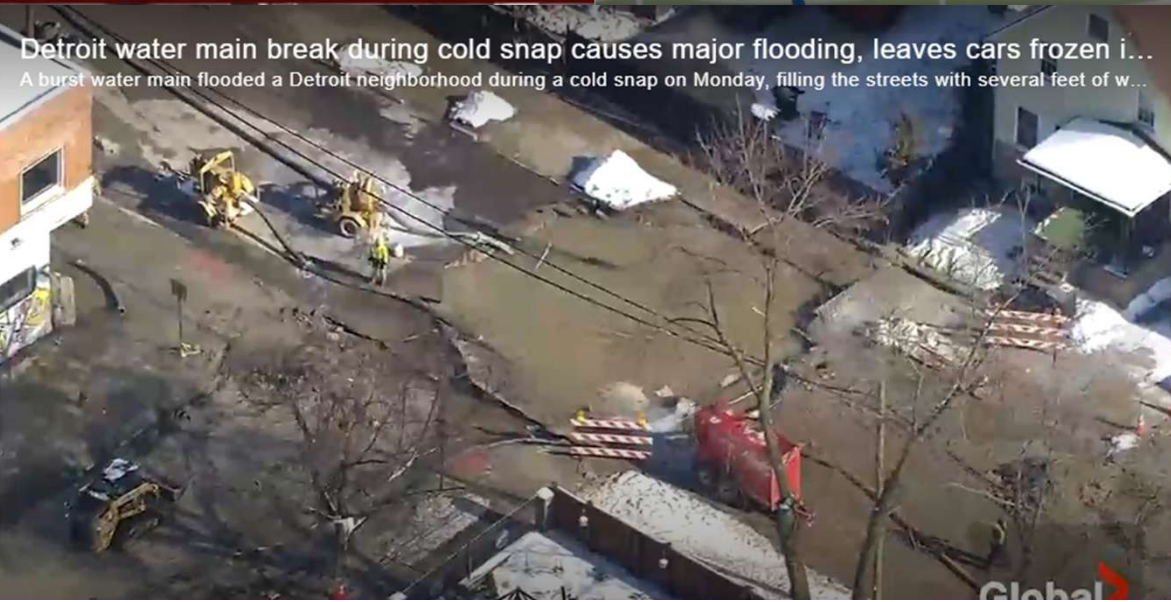
break floods southwest Detroit homes



MASSIVE WATER MAIN BREAK FLOODS NEIGHBORHOOD IN SOUTHWEST DETROIT



Detroit water main break during cold snap causes major flooding, leaves cars frozen i...
A burst water main flooded a Detroit neighborhood during a cold snap on Monday, filling the streets with several feet of w...



**Then GLWA's
World
Changed on
February 17,
2025**

Detroit water main break during cold snap causes major flooding, leaves cars frozen i...
A burst water main flooded a Detroit neighborhood during a cold snap on Monday, filling the streets with several feet of w...



Detroit water main break during cold snap causes major flooding, leaves cars frozen i...
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Detroit water main break during cold snap causes major flooding, leaves cars frozen i...
A burst water main flooded a Detroit neighborhood during a cold snap on Monday, filling the streets with several feet of w...



54-Inch Failure Investigation

Metallurgical Analysis Conclusions:

- 💧 Welding defects
- 💧 Significant thinning of external weld due to corrosion
- 💧 Large, discrete, external pits on pipe section

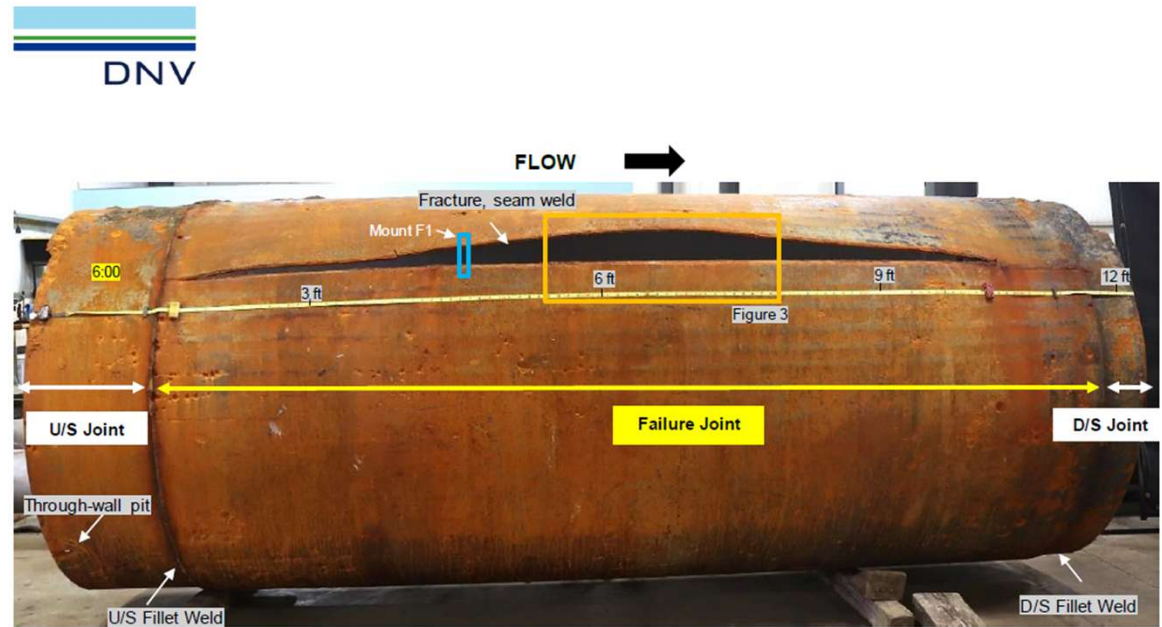
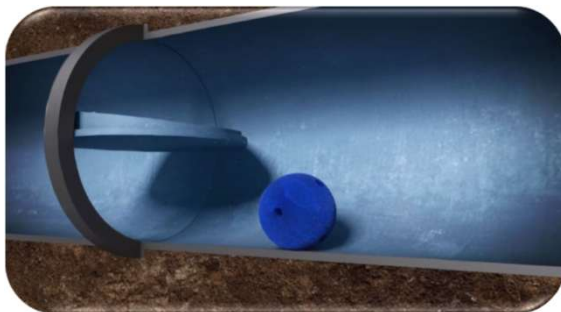


Figure 2. Photograph of the pipe section after removal from the flatbed truck. The tape measure shows the distance, in feet, downstream (D/S) from the upstream (U/S) cut end of the pipe section. The location where a metallographic mount was removed is identified by the blue rectangle.

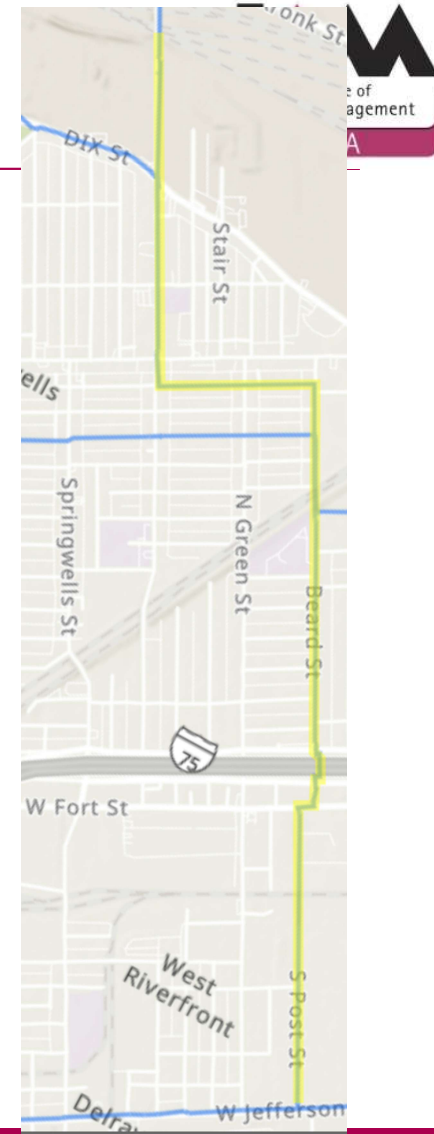
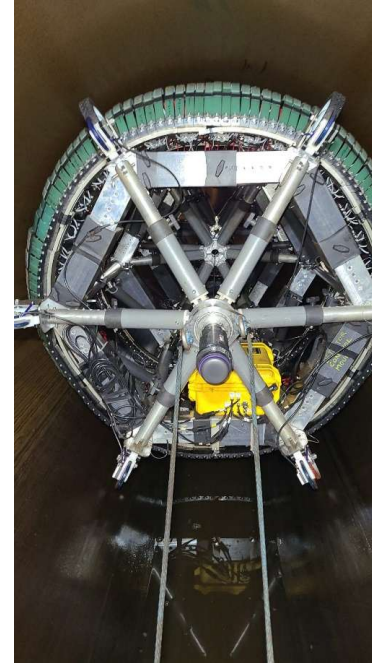
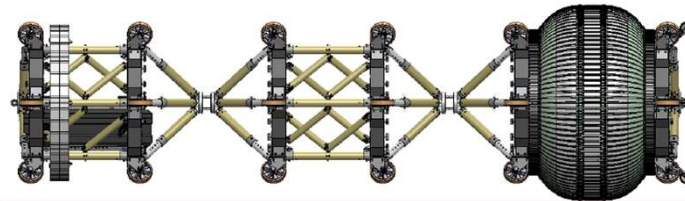
Ongoing Beard Street 54-Inch Renewal Investigation

- Hydraulic modeling & field testing to determine potential for decommissioning portions of the main
- Inspection and assessment – March 2026
- Identification of other welded steel mains constructed between 1928 – 1939 – Approximately 24 miles



PICA RFT Series

54" HEX EMIT Tool Datasheet – RFT Inspection Tool



Evolution of the Linear System Integrity Program

- ◆ Evolved LSIP to a more comprehensive renewal strategy by considering:
 - ◆ Cohort 1 - Decommissioning 127 miles of candidate water main – Removing risk from our system
 - ◆ Cohort 2 - Continuing Prestressed Concrete Cylinder Pipe inspections and renewal
 - ◆ Cohort 3 - Renewing/replacing pipelines exceeding their useful life – primarily metallic pipe – approximately 230 miles
 - ◆ Updating prioritization to better account for flooding impacts to public health & safety

Comprehensive Transmission Main Renewal Strategy Objectives & Challenges

Objectives:

- Reduce overall system risk
- Minimize failures on high-risk mains

Challenges:

- Funding & Affordability
- Failures will continue until risk is mitigated over time
- Coordination with local and GLWA projects
- Ability to take main out-of-service
- Incredibly expensive program



Example Renewal Strategies

💧 Example 1: Annual renewal strategy by cohort

- 💧 Cohort 1: Decommission 10% of mains over 10 years
- 💧 Cohort 2: Continue 5% PCCP inspection & renewal
- 💧 Cohort 3: Renew 1% of “All Other” transmission mains



\$53 Million
Annually

💧 Example 2: Annual decommission & 1% renewal

- 💧 Cohort 1: Decommission 10% of mains over 10 years
- 💧 Cohort 2 & 3: Renew 1% of all transmission mains



\$84 Million
Annually

💧 Example 3: Annual 1% Renewal of All Mains

- 💧 Cohorts 1, 2 & 3: Renew 1% of all transmission mains



\$79 Million
Annually

Investments To Address Mains Beyond Useful Life & Decommissioning

Transmission Main Management	Miles	Management Strategy	Estimated Cost
Mains Exceeding Useful Life	83.6	Renew / Replace	\$886M
Mains Exceeding Useful Life By 2035	9.1	Renew / Replace	\$85M
Decommission	127.3	Decommission	\$188M
Total	220.0		\$1.159B

Conclusions

- 💧 Our current level of investment, while significant, cannot reduce our current frequency of water main breaks.
- 💧 Without increased funding, the rate of failures will increase due to the age of the transmission mains
- 💧 GLWA has developed an approach to minimize, but not eliminate, this increased risk to the transmission system
- 💧 Examples indicate an annual programmatic budget of approximately \$75 million is necessary to proactively manage the transmission network

Comprehensive Transmission Main Renewal Strategy

Key Take-Aways

- 💧 Infrastructure is expensive. Our water transmission needs significantly outweigh our current renewal strategy
- 💧 We need to be smart and adapt. We are evolving to a more comprehensive “Water Transmission Main Renewal Strategy”. We will continue to evolve.
- 💧 Infrastructure is expensive. Long-term, annual funding and affordability is the greatest challenge



Thank you for
joining us today
Next: Branch Meetings