



CAPITAL REGION | WATER™

March 14, 2023

Modifications to the Partial Consent Decree

Mission & Values

We are a municipal authority that improves, maintains, and operates the water system and infrastructure of the greater Harrisburg area—from raindrop to river.

Capital Region Water is the steward for drinking water, wastewater and stormwater services for the city of Harrisburg and portions of surrounding municipalities including Penbrook, Paxtang, and Steelton Boroughs, as well as Susquehanna, Swatara, and Lower Paxton Townships. We were transferred ownership and operation of Harrisburg's water systems in late 2013 with a commitment to operating openly and transparently, in a fiscally responsible, proactive, and sustainable manner, and with a community focus.



FLOWING TOGETHER
Embrace Unity and Teamwork



CRYSTAL CLEAR WATER
Transparency & Accountability



KEEPING IT CLEAN DOWNSTREAM
Environmentally Conscious



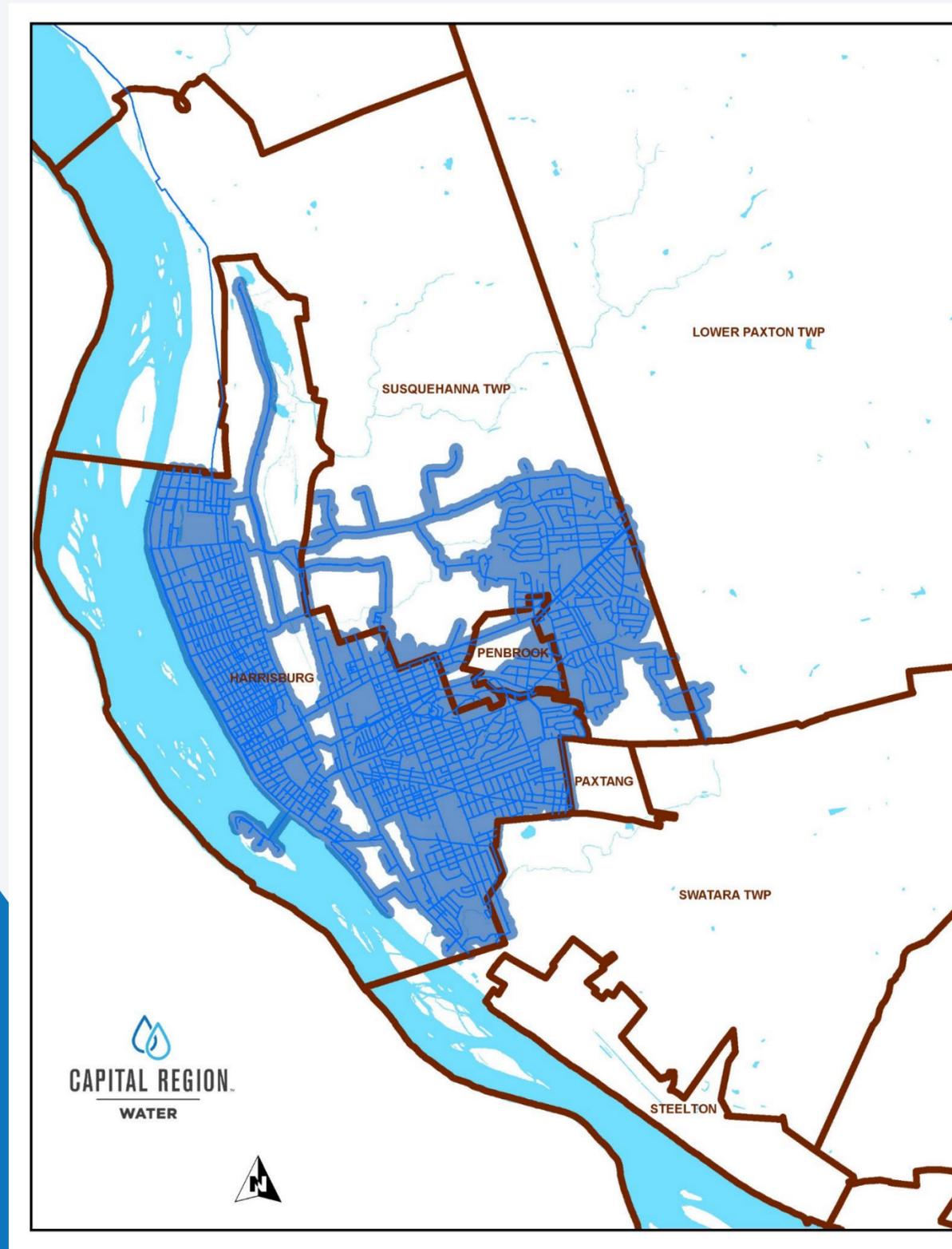
TAPPING INTO COMMUNITY
Community Focused

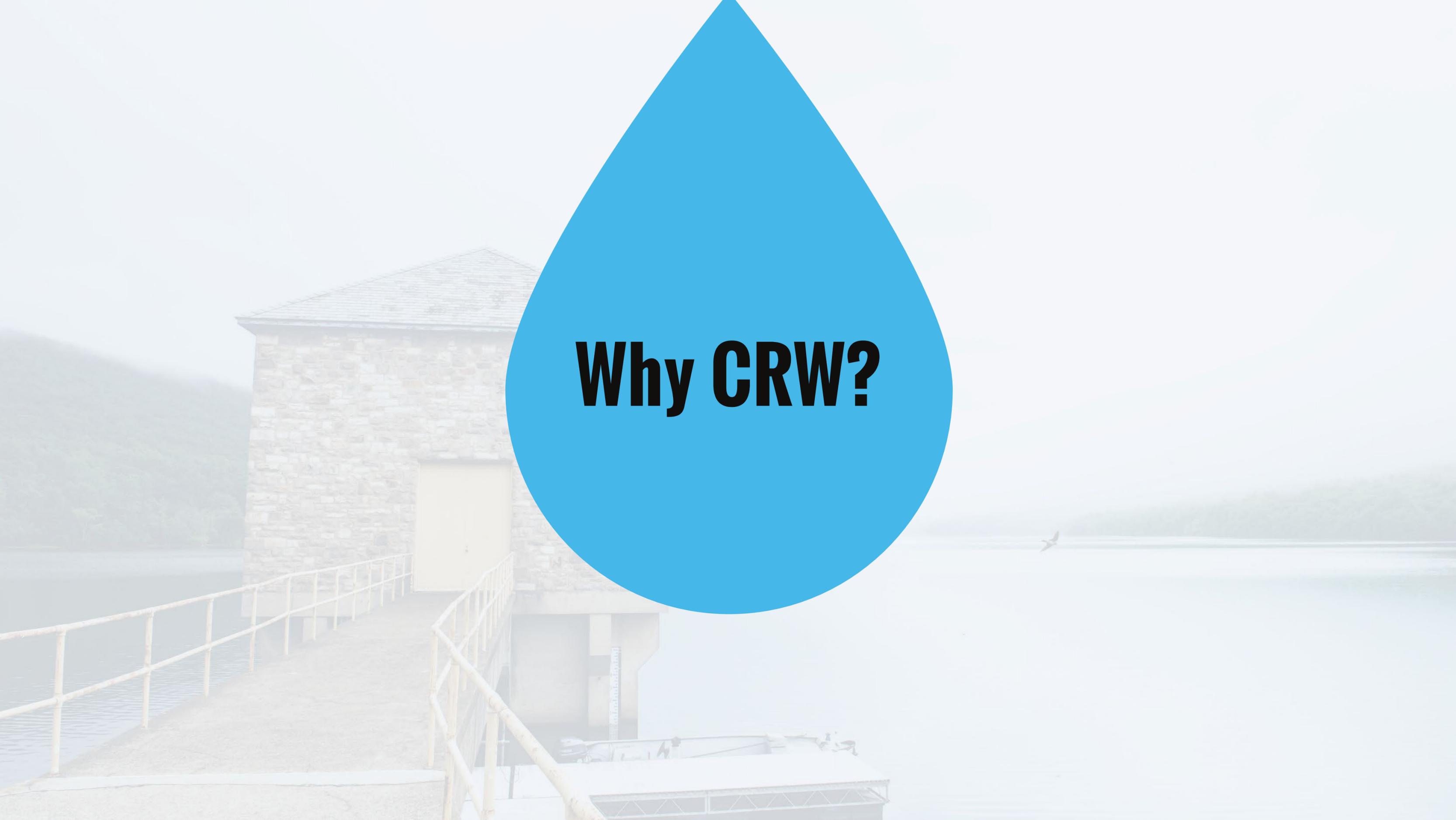


EVERY DROP COUNTS
Fiscally Responsible

Our Service Areas

- Harrisburg
- Steelton Borough
- Susquehanna Township
- Swatara Township
- Lower Paxton Township
- Penbrook Borough
- Paxtang Borough



A stone building with a gabled roof and a concrete walkway with railings is situated on the edge of a calm lake. The background shows misty, forested hills. A large, semi-transparent blue water drop graphic is centered over the image, containing the text "Why CRW?".

Why CRW?

10 Years of CRW

A brief history...

- In 2010, the City of Harrisburg defaulted on debt service payments, leading the City to enter Commonwealth Act 47 (municipal financial distress protection).
- Around the same time EPA began reviewing system inspections and LTCPs that had been approved by PADEP, which initiated the process of our DOJ partial consent decree development.
- Creation of Harrisburg Strong Plan as well as our 2015 PCD.

THE WALL STREET JOURNAL.

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Bottom Falls Out of Pennsylvania's Debt-Ridden Capital

By Michael Corkery



News never stops. Neither do we. Support PennLive.

Harrisburg sinkhole repairs to cost \$1.7M; another sinkhole developing at Third & Woodbine

Updated: Feb. 11, 2013, 6:25 p.m. | Published: Feb. 11, 2013, 5:25 p.m.



By Donald Gilliland | dgilliland@pennlive.com

HARRISBURG — The [North Fourth Street sinkholes](#), which recently became the symbol of the city's crumbling infrastructure and finances [among national media](#), will cost up to \$1.7 million to repair, according to documents the city recently submitted to the [Pennsylvania Infrastructure Investment Authority](#).



CAPITAL REGION | WATER.

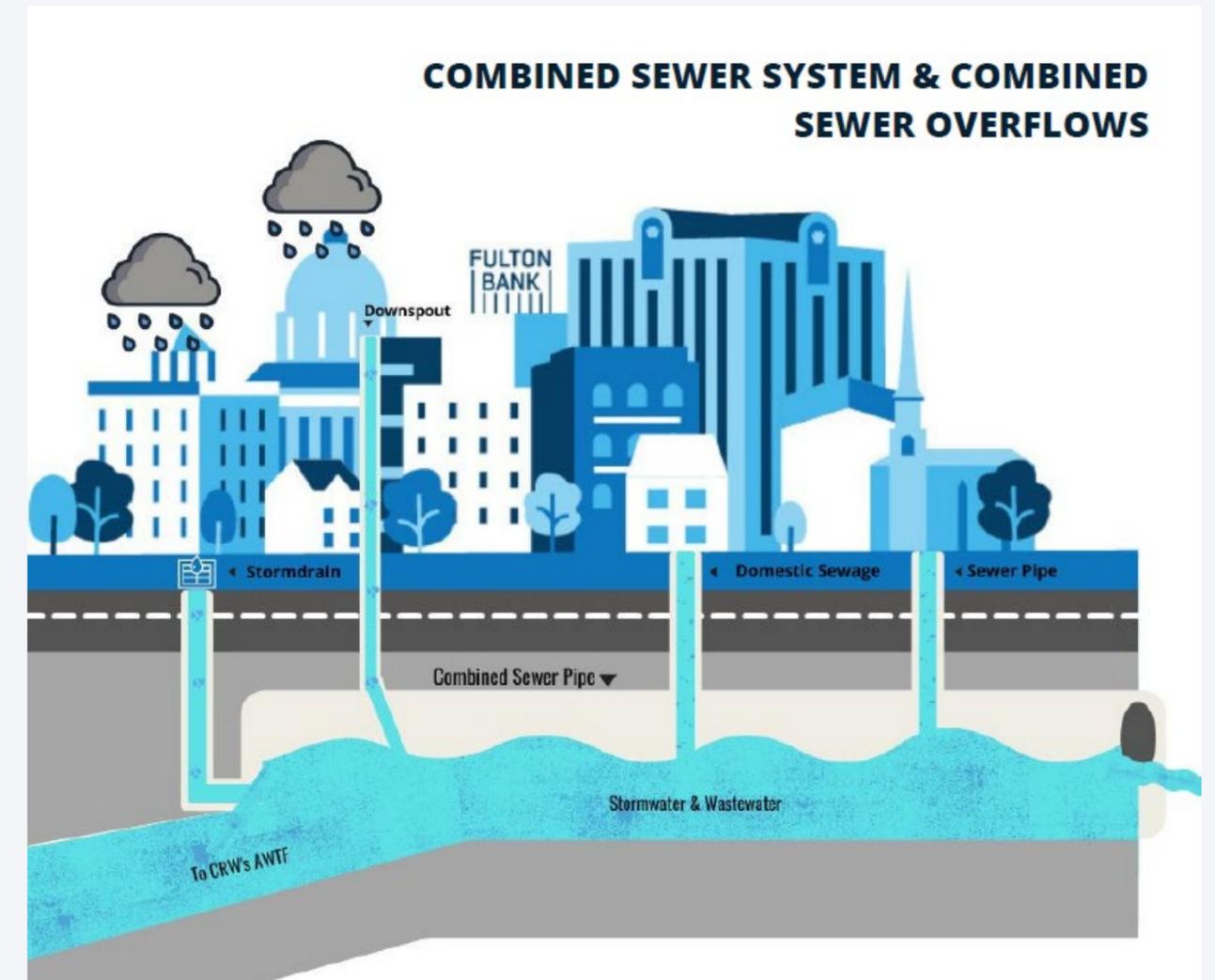
Celebrating 10 Years of Investing in Our Community from Raindrop to River



Our Collective Challenge:

Upgrading an outdated & undersized combined sewer system

- 60% of Harrisburg served by a combined system
- Remaining portion served by a separate storm sewer system
 - Both systems are undersized for peak storm intensities.
 - Further investment is needed to meet our clean water goals.
- 40% of the system in need of repair or replacement



Capital Projects Overview

\$200+ million investment since the 2013 transition of system ownership & operation

YEAR	ADMIN	WATER	WASTEWATER	STORMWATER	TOTAL
2013	68,784	205,119	523,639		797,542
2014	95,015	2,131,748	712,971		2,939,734
2015	242,763	573,782	605,046		1,421,591
2016	34,069	2,616,908	44,183,220		46,834,197
2017	20,993	2,865,205	12,535,672		15,421,870
2018		11,101,054	22,964,725		34,065,779
2019	2,200	11,947,764	18,904,395		30,854,359
2020	84,385	6,549,353	16,973,335	1,394,457	25,001,530
2021	83,499	8,492,275	10,785,447	1,698,080	21,059,300
2022	51,628	7,451,617	11,351,066.72	3,361,311	22,215,623
2023		227,321.00	212,737.00	12,858.90	452,917
TOTAL	683,336	54,162,146	139,752,254	6,466,706	201,064,442

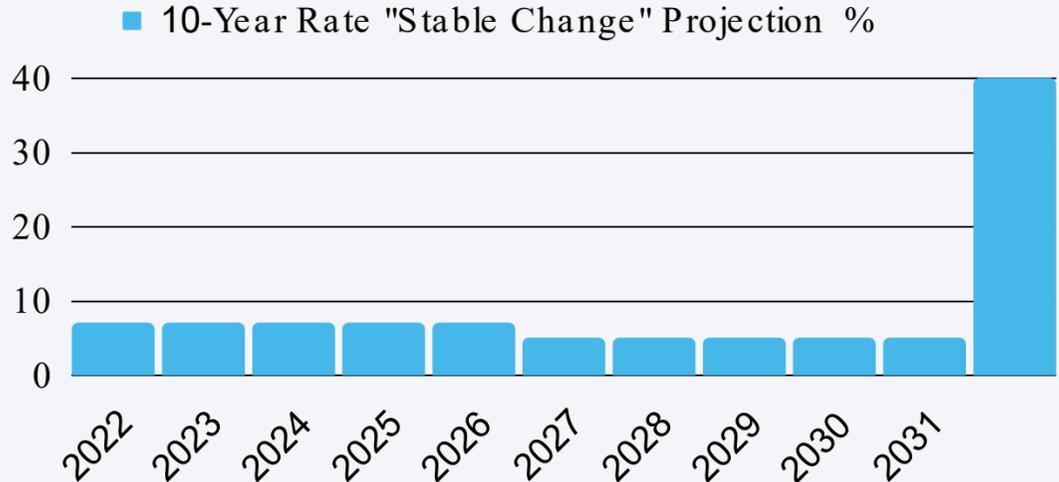
* As of March 2023

CREATIVE, EQUITABLE SOLUTIONS

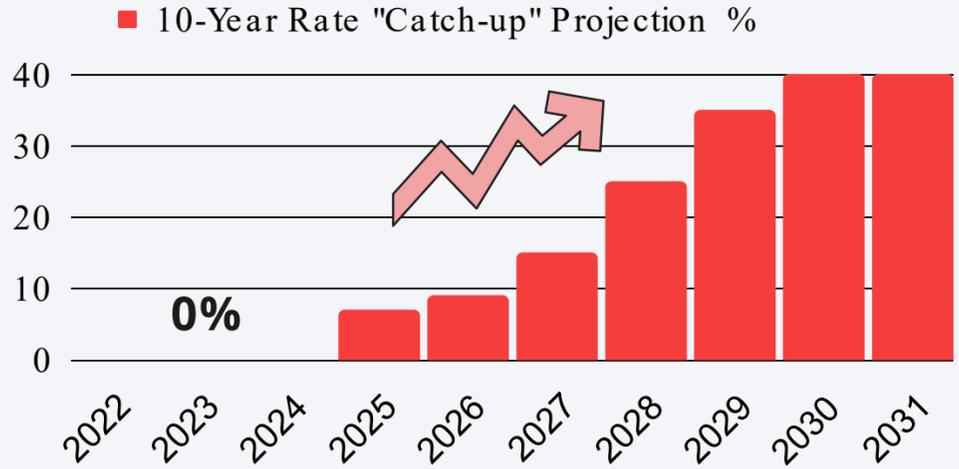
Customer affordability and financial capability are at the forefront of our decision-making. Strong financial health allows CRW access to state revolving loan funds (i.e., PENNVEST), low borrowing rates, and federal and state grant programs. Such opportunities provide **direct cost savings to customers.**



Strong financial standing is critical to obtain grants, low-cost loans, and favored bond issues to fund necessary repairs at the lowest possible cost to residents. Early in CRW's ownership and operation double-digit rate increases were necessary. This is not history we wish to repeat.



VS.



CRW Recognized as Anchor Institutions

Water utilities can root themselves as anchor institutions within their communities

Anchor institutions are:

- Public service entities—like hospitals, universities, or utilities—which are tied to a location due to infrastructure or mission.
- Entities that provide critical services and vital assets to improve economy, health, environment and well-being in communities.
- Organizations that provide active civic leadership and participate in and add to the public life and character of their community.





PUBLIC IMPROVEMENTS.
Headquarters - Information Bureau.
VOTE FOR CLEANLINESS, HEALTH and PROSPERITY.

E. H. STENTZ
MOVED TO
120 N. 5th - 10th St.
WAGONS, BUGGIES, FARM IMPLEMENTS, PLOWS, TWINE.

HEADQUARTERS FOR
MUNICIPAL IMPROVEMENTS
INFORMATION BUREAU

MOCK YUEN
LAUNDRY

GROSS

DEPT. OF FURNITURE

DEPT. OF FURNITURE

DEPT. OF FURNITURE



Then & Now



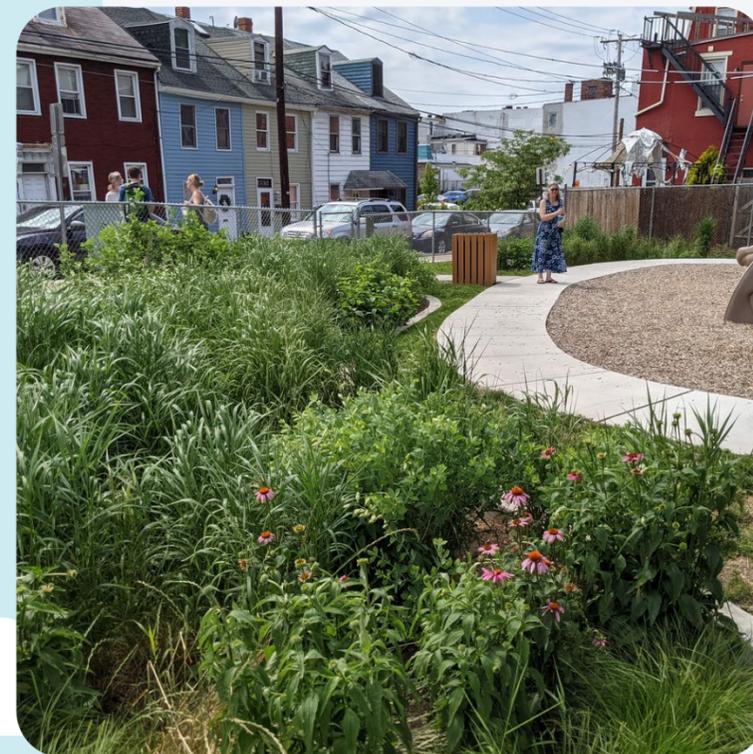
- The City Beautiful movement was an early 20th-century campaign that modernized, beautified, and cleaned up cities nationwide. In Harrisburg, the movement lasted from 1900 to 1930 and included significant improvements in sanitation, paving, and architecture.
- A key component of the movement in Harrisburg was the creation of parks for recreation and, of course, beauty. Riverfront and Wildwood parks are two examples that you can see today.

A COMMUNITY-BASED CAMPAIGN FOR CLEAN WATER AND NEIGHBORHOOD IMPROVEMENTS



Now is a good time for every man, woman and child to make up their minds that they, too, will take a personal part in the effort to make our city a part of and not a contrast to the beautiful frame that surrounds it.

Mira Lloyd Dock
Harrisburg City Beautiful Movement Leader



A Cleaner, Greener Harrisburg



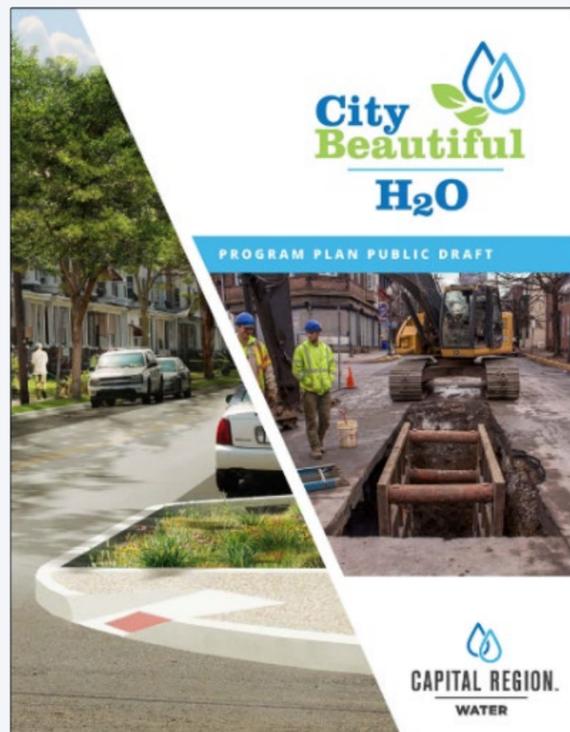


Partial Consent Decree Oversight

Pending Modification Summary

- Recognition of CRW's CSO/MS4 Programming Improvements
- Inherited systems suffered decades of neglect and disinvestment; additional time necessary to provide basic maintenance to assess baseline conditions
- Path to Final Approval, following four years of negotiations
- **10-year (\$200MM) Project List – 85% capture**
- Long Term Control Plan Update
- Public Communication & Outreach

CRW Project Description				Start Construction	Complete Construction	
1	Storm Sewer Diversion in CSO-048 (Coordinated with the I-83 Expansion Project)					
1a	Phase 1: Partial construction of 48" pipe storm sewer diversion of SS-011, 012, and 013 to be installed during PennDOT's construction of the stormwater piping systems for the I-83 expansion project; the 48" pipe will stay dry and capped until the completion of Phase 2				Fall 2023	Summer 2025
1b	Phase 2: Completion of 48" pipe storm sewer diversion (Outfall to Paxton Creek and 16th Street Connection to Railroad); 18th Street 36th storm sewer diversion pipe of SS-011 and 012; completion of additional surface detention and WQ Management				6/30/2031	12/31/2032
2	Collection System Projects					
2a	Small sewer separation of catchments			3/31/2023	12/31/2025	
	<i>Sewer</i>	<i>Impervious Area</i>	<i>Overflow Volume</i>			<i>Overflow Frequency</i>
	S-027	2.5 acres	1.6 MG /typical year			41 per typical year
	S-032	7.6 acres	7.0 MG /typical year			76 per typical year
	S-041	1.8 acres	2.6 MG /typical year			65 per typical year
2b	S-060					
2b	Modification to selected CSO regulators identified after finishing Front Street Pump Station				12/31/2021	6/30/2022
3	Front Street Interceptor				7/31/2022	7/31/2023
	<ul style="list-style-type: none"> • CIPP lining or segmented slip-lining • Restore structural integrity and hydraulic capacity 					





Progress Since 2013

- Daily implementation of the Nine Minimum Controls (NMC) Plan, including operations and maintenance related to combined sewer overflow (CSO) control
- \$50MM Biological Nutrient Removal (BNR) upgrade to the Advanced Wastewater Treatment Facility
- \$14.2MM Upgrade to the Front Street Pump Station rehabilitation to which increased pumping capacity by 50 percent
- Issuance and implementation of a new Individual MS4 permit
- Ongoing condition assessment of the sewer system
- Investigation and repair of hundreds of sinkholes
- Completion of nearly a dozen green stormwater infrastructure projects



A stone building with a gabled roof and a concrete walkway with railings is situated on the edge of a large body of water. The background shows a misty, forested hillside. A large blue water drop graphic is overlaid on the right side of the image, containing the text.

10-Year Capital Projects

Green Infrastructure Projects

At a glance

About 60% of Harrisburg drains into a combined sewer system, which collects stormwater and wastewater in the same pipes. The system sometimes becomes overwhelmed by the combined volume during heavy rain events. When overwhelmed, the system overflows, releasing untreated stormwater and wastewater into the Susquehanna River and Paxton Creek. CRW is implementing capital projects to manage stormwater and reduce these overflows.

Key Performance Indicators

 **100 ACRES**
Managed Run-off

Our decentralized approach enhances the economic and social health of the community by implementing projects that account for and offset acres of stormwater runoff, lessening the flow to our combined sewer pipes.

 **\$30 MILLION**
Planned Investment

INFRASTRUCTURE IMPROVEMENTS

Camp Curtin YMCA GSI & Bellevue Park Pond Retro-fit

Status: Substantial Completion  95%

Timeline: 2021-2022

Acres Managed: 21

Scope: Visible green infrastructure will be installed to manage stormwater runoff and prevent it from entering the combined sewer, reducing overflows and improving the health of local waterways while also beautifying surrounding neighborhoods.

Pennvest Pro-fi Phase 4

Status: Construction  5%

Timeline: 2022-2024

Acres Managed: 21

Scope: A combination of GSI and storm sewer upgrades will be employed to manage stormwater runoff into the combined sewer to control wet weather and reduce overflows in targeted areas where existing controls have been less effective.

Pennvest Pro-fi Phase 5

Status: Design

Timeline: 2024-2025

Acres Managed: 9

Scope: Work will continue to manage wet-weather runoff in targeted priority areas — Lower Front Street, Lower Paxton Creek and Uptown.

ADDITIONAL IMPROVEMENTS

Systemwide GSI Projects

Status: Planning

Timeline: Through 2032

Acres Managed: 50

Scope: Additional systemwide GSI projects will be planned to improve the health of local waterways, reduce combined sewer overflows, and beautify surrounding neighborhoods.



Conveyance & Collection System Projects

At a glance

CRW maintains more than 134 miles of sewer pipe, including 3,000 manholes, in the City of Harrisburg. Our AWTF also treats sewage from Steelton, Paxtang, and Penbrook boroughs, as well as Susquehanna Township, and portions of Lower Paxton and Swatara townships.

Key Performance Indicators



134 MILES
of sewer pipes.



4,000
stormdrains

SPRING CREEK PUMP STATION & INTERCEPTOR

Rehabilitation or Replacement

Status: Planning & Design

Timeline: 2023-2030

Scope: The pump station will be rehabilitated or replaced to increase its capacity to handle larger flow volumes. Enhancements also will be made to maximize flow from the station to CRW's AWTF.

PRIMARY CLARIFIER IMPROVEMENTS

Equipment Replacement & Upgrades

Status: Planning & Design

Timeline: 2023-2024

Scope: Structural rehabilitation work and equipment replacement will enhance the AWTF's primary clarifier.

NMC 6 PROJECT

Collection System Improvements

Status: Ongoing

Timeline: Through 2030

Scope: Storm inlets and catch basins will be modified and rehabilitated to improve control of solids and floatable materials in the CRW collection system.

ASSET MANAGEMENT

System Inspection & Assessment

Status: Ongoing

Timeline: 2023-2032 (Three phases)

Scope: Pipes and other infrastructure will be inspected and assessed to find deficiencies and to address growing challenges in CRW's aging system. In the system, inspections will be conducted by video, and assessment of the footage will help to identify problem areas and to prioritize improvement projects.

CONTINUED ENHANCEMENTS TO AWTF

Ongoing Improvements

Status: Ongoing

Timeline: 2022-2032

Scope: Numerous upgrades are planned to improve operations at CRW's AWTF over the next decade.

Large-scale Combined Sewer System Projects

At a glance

Harrisburg is one of nearly 800 cities across the United States with a combined sewer system, which means, stormwater and wastewater are conveyed in the same pipes. During normal conditions, the mixture is transported to CRW's Advanced Wastewater Treatment Facility (AWTF) to be treated before clean water is released into the Susquehanna River. However, during heavy rain, pipes can become too full, and the untreated mixture sometimes overflows.

Key Performance Indicators



\$200M +
Invested since 2013

Our goal is improved water quality and implementation of targeted, verified system improvements that will move us toward regulatory compliance, including during wet-weather events.

Maintenance is a key component in our effort to restore system capacity and reduce the negative impacts of unauthorized releases.

FRONT STREET INTERCEPTOR PROJECT



Cured-in-Place-Piping Rehabilitation

Status: Construction

Timeline: 2022-2023

Scope: A durable liner will be installed to restore the integrity, functionality, and hydraulic capacity of the structurally compromised concrete interceptor, extending the 111-year-old pipe's lifespan by about 50 years while also improving its flow capture; reducing combined sewer overflows.



INTERSTATE 83 EXPANSION & STORM SEWER PROJECT



Storm Sewer Diversion Phase 1

Status: Design

Timeline: 2023-2025

Scope: A 48-inch sewer pipe will be relocated and replaced as part of the Pennsylvania Department of Transportation's widening of I-83 in the Harrisburg area. Pipe will be installed during the first phase of the project.

Storm Sewer Diversion Phase 2

Status: Design

Timeline: 2031-2032

Scope: During the second phase of the project, the storm pipe diversion will be completed, in addition to the installation of surface-level detention improvements and water quality management measures.

PAXTON CREEK INTERCEPTOR



Sewer Restoration

Status: Evaluation & Design

Timeline: 2027-2030

Scope: Rehabilitation work is necessary to repair the severely compromised concrete interceptor after inspection revealed visible defects throughout the 120-year-old structure. Lining, replacement, and/or other restoration work will restore the pipe's structural integrity and functionality.

PAXTON CREEK GREENWAY COLLAB.



Greenway Project Collaboration

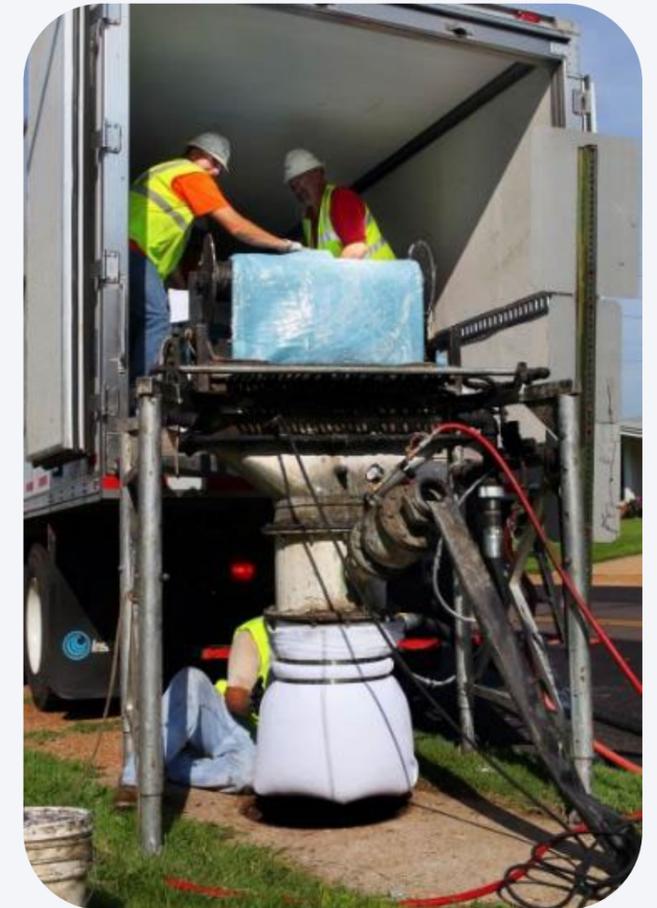
Status: Evaluation & Design

Timeline: 2027-2030

Scope: CRW is co-leading the charge to improve the Paxton Creek and surrounding greenway. By restoring the creek's ecosystem and reestablishing its natural function, various benefits will be realized – improved water quality, enhanced recreational opportunities, community connectivity and redevelopment, flood control and mitigation, and habitat restoration.

Front Street Interceptor Rehabilitation

- Repair Significant Structural Degradation
 - Exposed reinforcement and aggregate
 - Compromised structural stability
- Reestablish Hydraulic Capacity – Allow Pipe to Surge
- Reestablish Structural Integrity and System Reliability
- Cured-in-Place Pipe (CIPP) Lining
 - No-dig solution for time and cost efficiency
- Scheduled for Completion in fall 2023

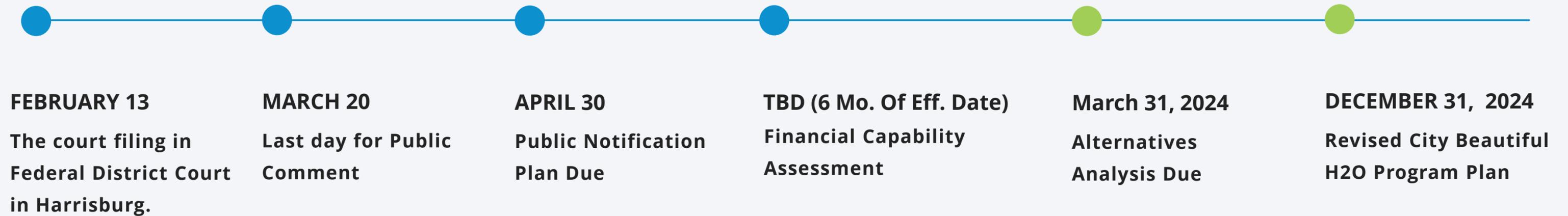


Paxton Creek Greenway Project

- Create a natural stream channel
- Provide adequate channel size and flood conveyance to reduce 100-year flood elevation
- Establish a riparian ecosystem
- Improve water quality
- Increase recreation opportunities
- Provide bicycle and pedestrian access
- Maximize economies of scale for coordination of a parallel sewer interceptor



Events Timeline



TO SUBMIT FORMAL COMMENT:

PUBLIC COMMENT PERIOD:

Members of the public have an opportunity to review and comment on the plan until March 20, 2023.

DEPARTMENT OF JUSTICE WEBSITE:

www.justice.gov/enrd/consent-decree/us-et-al-v-capital-region-water-and-city-harrisburg-pa

Comments can be submitted via:

- Email: pubcomment-ees.enrd@usdoj.gov.
- Mail: Assistant Attorney General, U.S. DOJ—ENRD, P.O. Box 7611, Washington, D.C. 20044–7611.

Comments should be addressed to the Assistant Attorney General, Environment and Natural Resources Division, and should refer to United States and Pennsylvania Department of Environmental Protection v. Capital Region Water and City of Harrisburg, D.J. Ref. No. 90 –5–1–1–10157 .

WE WANT
YOUR
FEEDBACK!



We are excited to hear from you. Please use the QR code above to take a brief survey and provide your input into CRW's City Beautiful H2O program.



SCAN HERE



A stone building with a gabled roof and a concrete walkway with railings is situated on the edge of a calm lake. The background shows misty, forested hills. A large blue water drop graphic is overlaid in the center, containing the text "Thank you!".

Thank you!