

Public Stakeholder Group Meeting #1

Thursday, May 5, 2022

Photo Credit: Mark Lewis,
Capital Improvement Project
Manager with Stormwater Utility



Agenda

- **Introductions**
- **How We Got Here**
- **What is the Final CSS Plan?**
- **The Part You Play**



Introductions

Who We Are

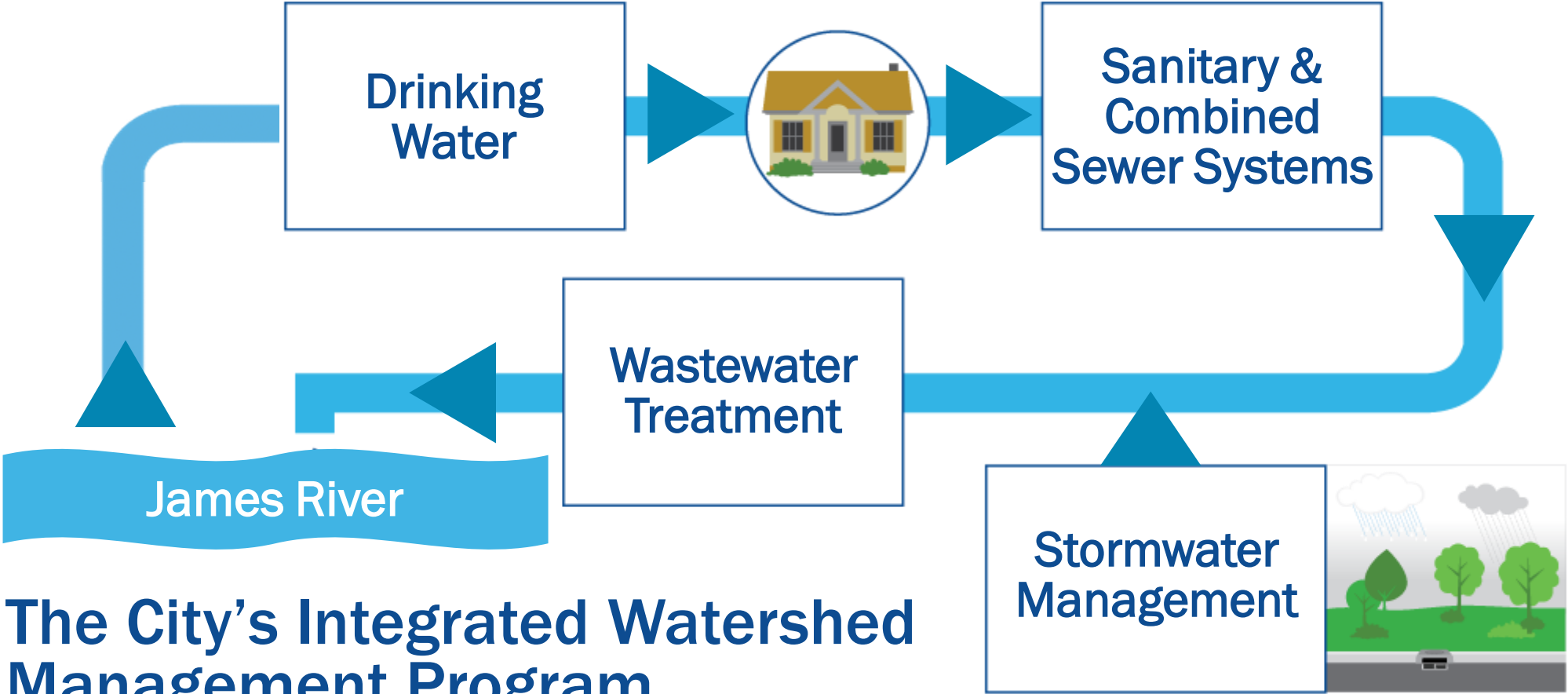
Welcome!

Member	Council District
Michael Regulinski	1
Sarah Weisiger	
Jeremy Hoffman, PhD	2
Leighton Powell	
Norman Elliott	3
Stephanie Miller	
Maria Dougherty	4
Will Chapman	
Charles Ware	5
Laney Sullivan	
Allison Davis	6
Peace Bowles	
Marie Stella	7
Steven Helm	
Amelia Lightner	8
Reverend Dana Sally-Allen	
William Nickerson	9
Linda Owen	



How We Got Here

Richmond's DPU is responsible for all aspects of water services for the City



The City's Integrated Watershed Management Program

City of Richmond at-a-glance

Environmental Justice Community

230,000 Population

23.2% Population below poverty level

36.5% Population below 200% poverty level

54% People of color

Century-Old Sewer System

114 Average age of sewer pipes (years)

950 Miles of pipes to maintain

8" to 27' Pipe diameters

25 Combined sewer outfalls remaining

140 Wastewater treatment plant capacity (MGD)

Richmond's DPU has been working for decades with partners to improve water quality in the James River

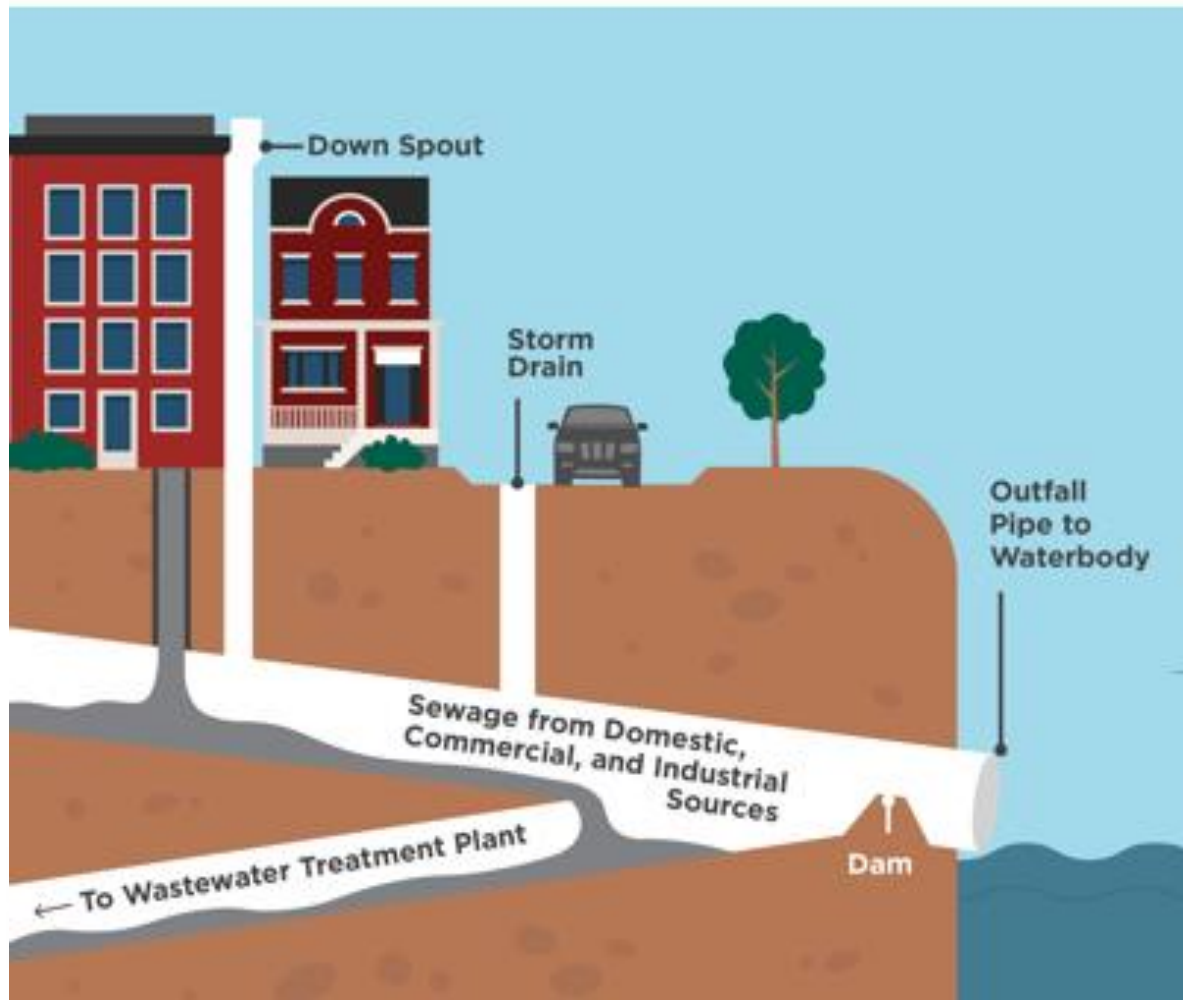


Falls of the James Scenic River
Advisory Committee



What is a Combined Sewer System (CSS)?

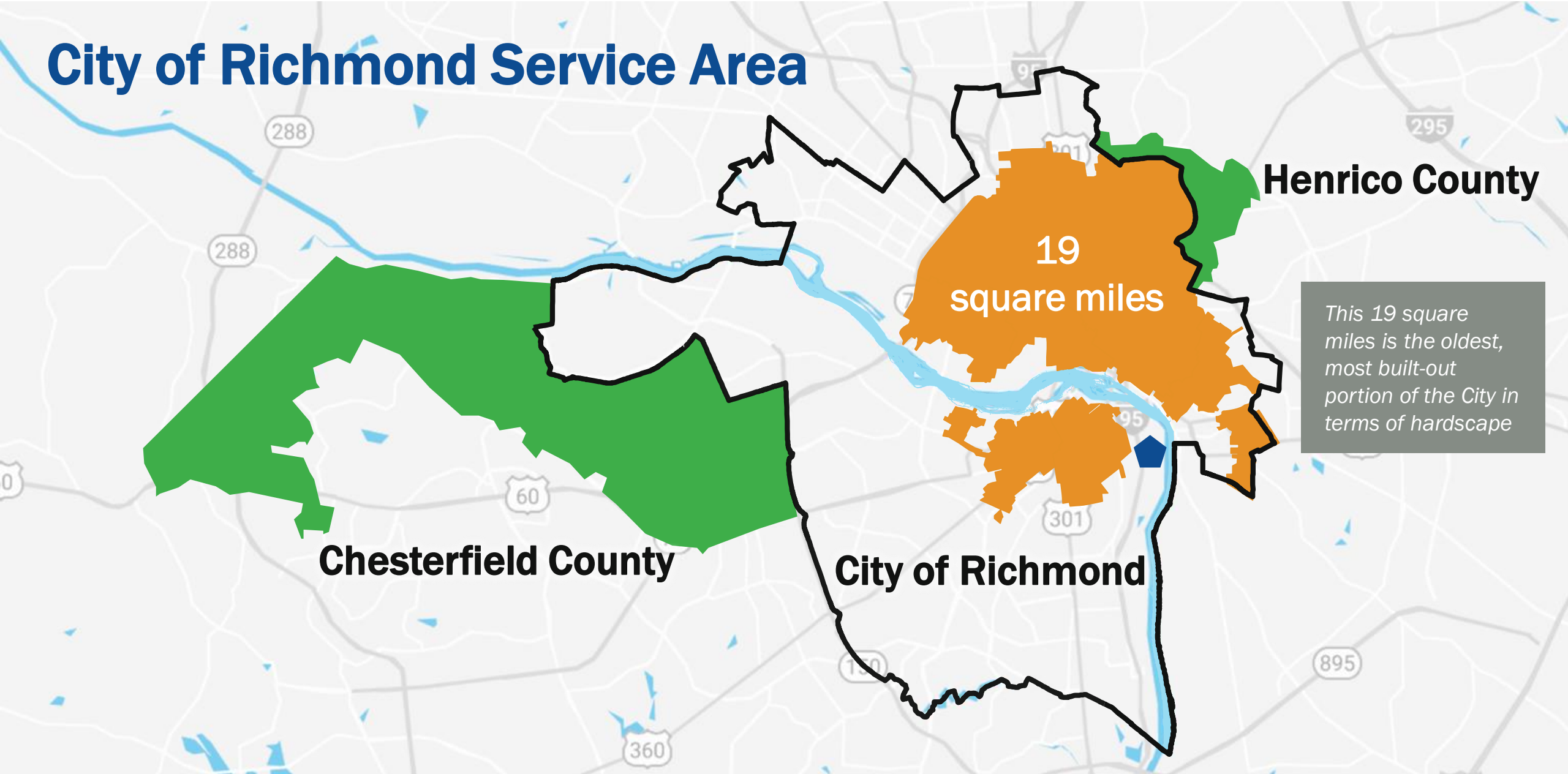
Dry Weather



Wet Weather



City of Richmond Service Area



Henrico County

Chesterfield County

City of Richmond

19
square miles

This 19 square miles is the oldest, most built-out portion of the City in terms of hardscape



**Combined Sewer System
Drainage Area**



**County Area
Serviced by City**



**Wastewater
Treatment Plant**

CSS Improvements

Phase 1 (1970 - 1988)

2 Projects

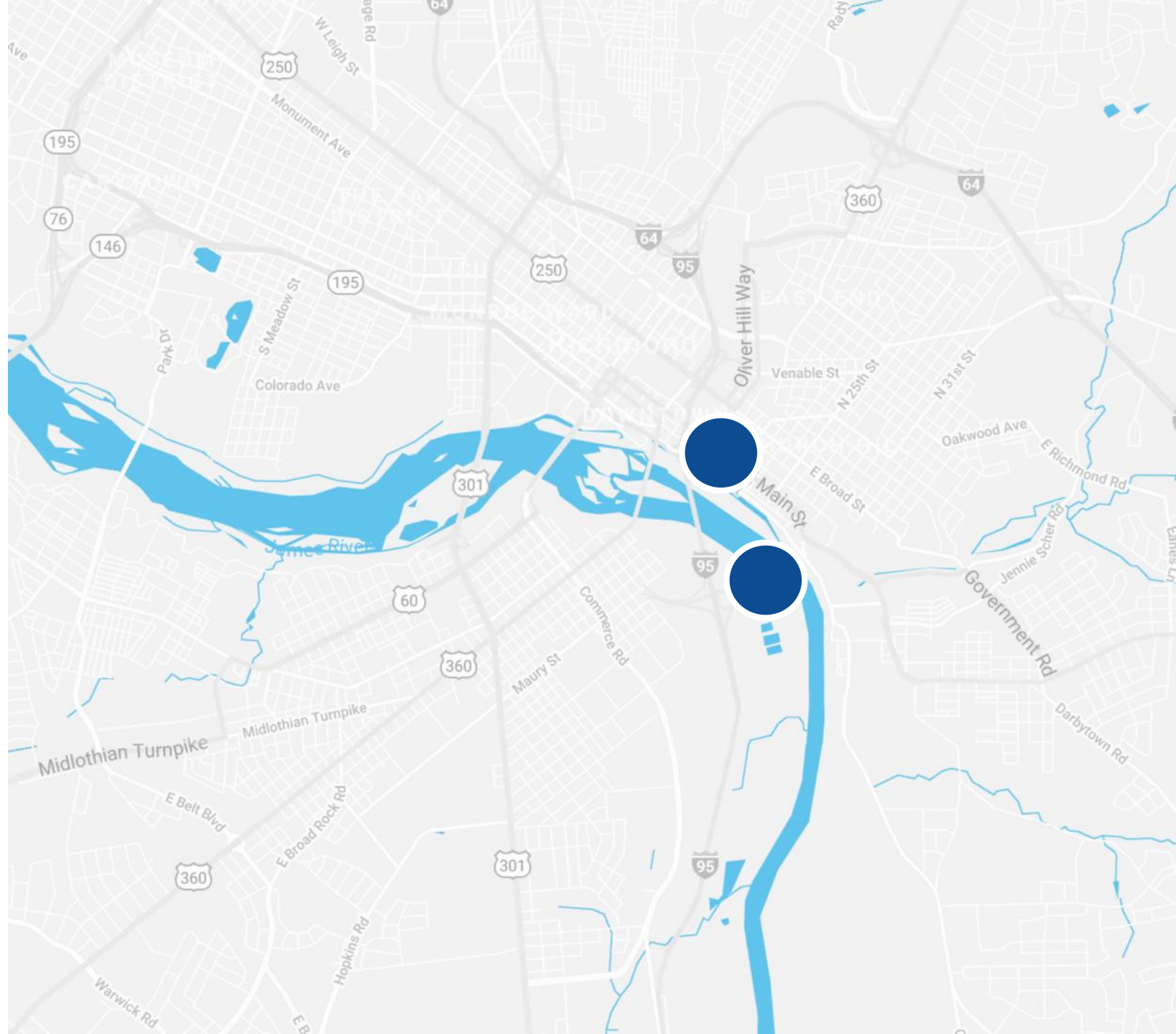
50 MG Shockoe Retention Basin
WWTP capacity expansion to 75 MGD

80% CSO Capture

Estimated annual basis

\$117M
(\$385M in 2021 dollars)

\$31M in grant funding
(\$102M in 2021 dollars)



CSS Improvements Phase 2 (1988 - 2002)

6 Projects

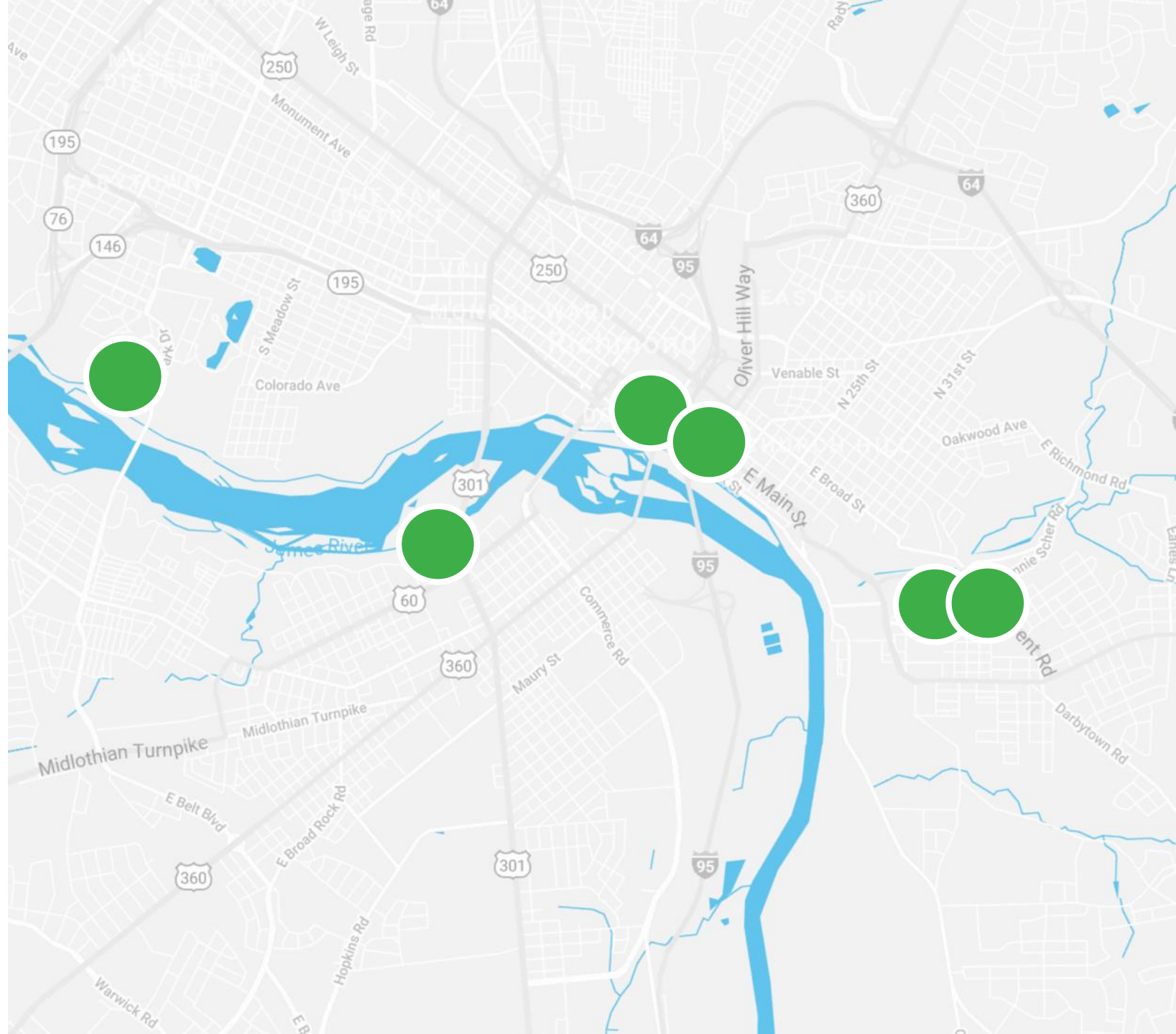
Conveyance sewers
7 MG Hampton-McCloy tunnel

85% CSO Capture

Estimated annual basis

\$127M
(\$226M in 2021 dollars)

\$29M in grant funding
(\$52M in 2021 dollars)



CSS Improvements

Phase 3 (2002 – present)

12 Projects

WWTP capacity expansion to 140 MGD during wet weather

91% CSO Capture

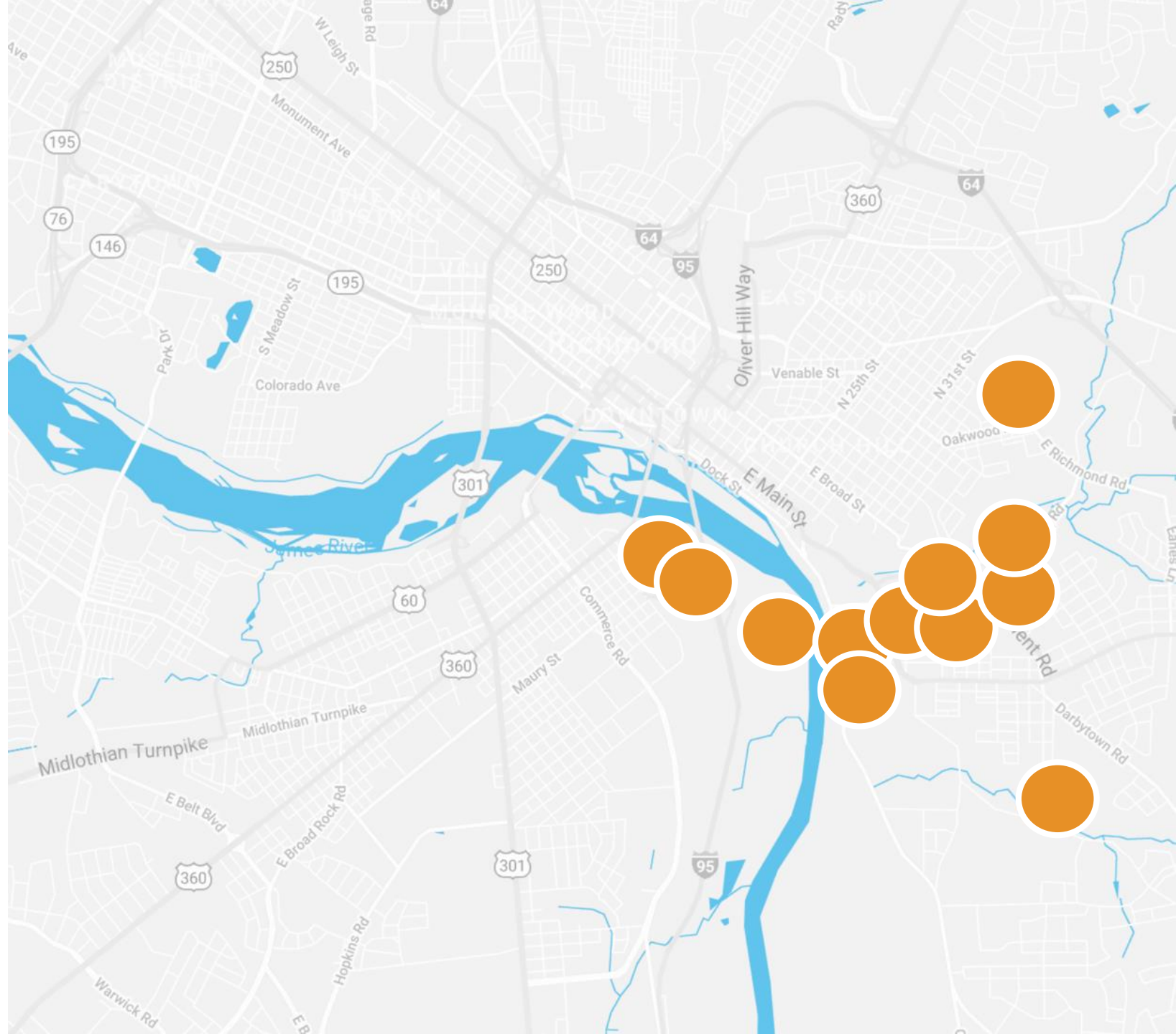
Estimated annual basis

\$68M

(\$102M in 2021 dollars)

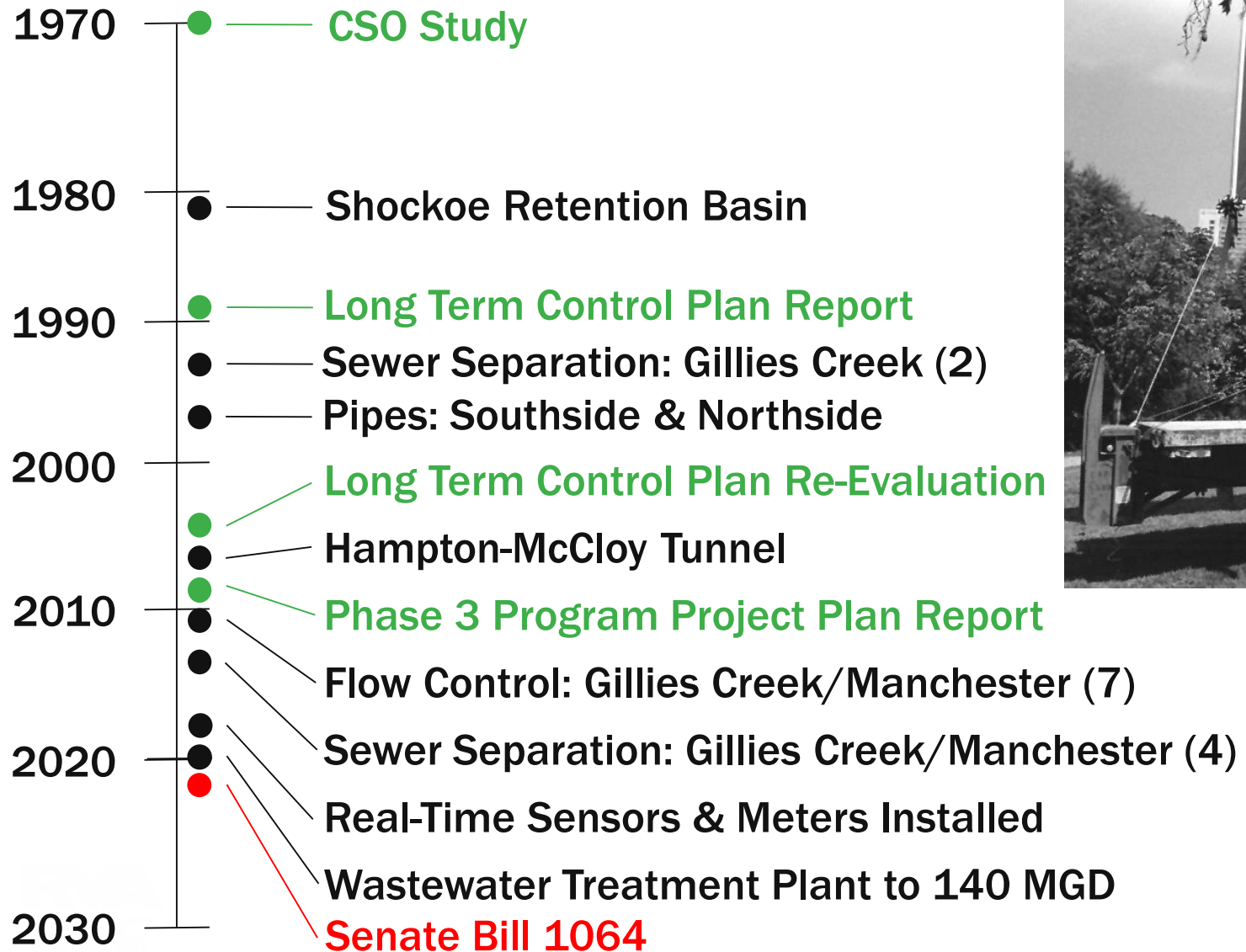
\$29M in grant funding

(\$44M in 2021 dollars)



What is the Final CSS Plan?

Regulatory Drivers

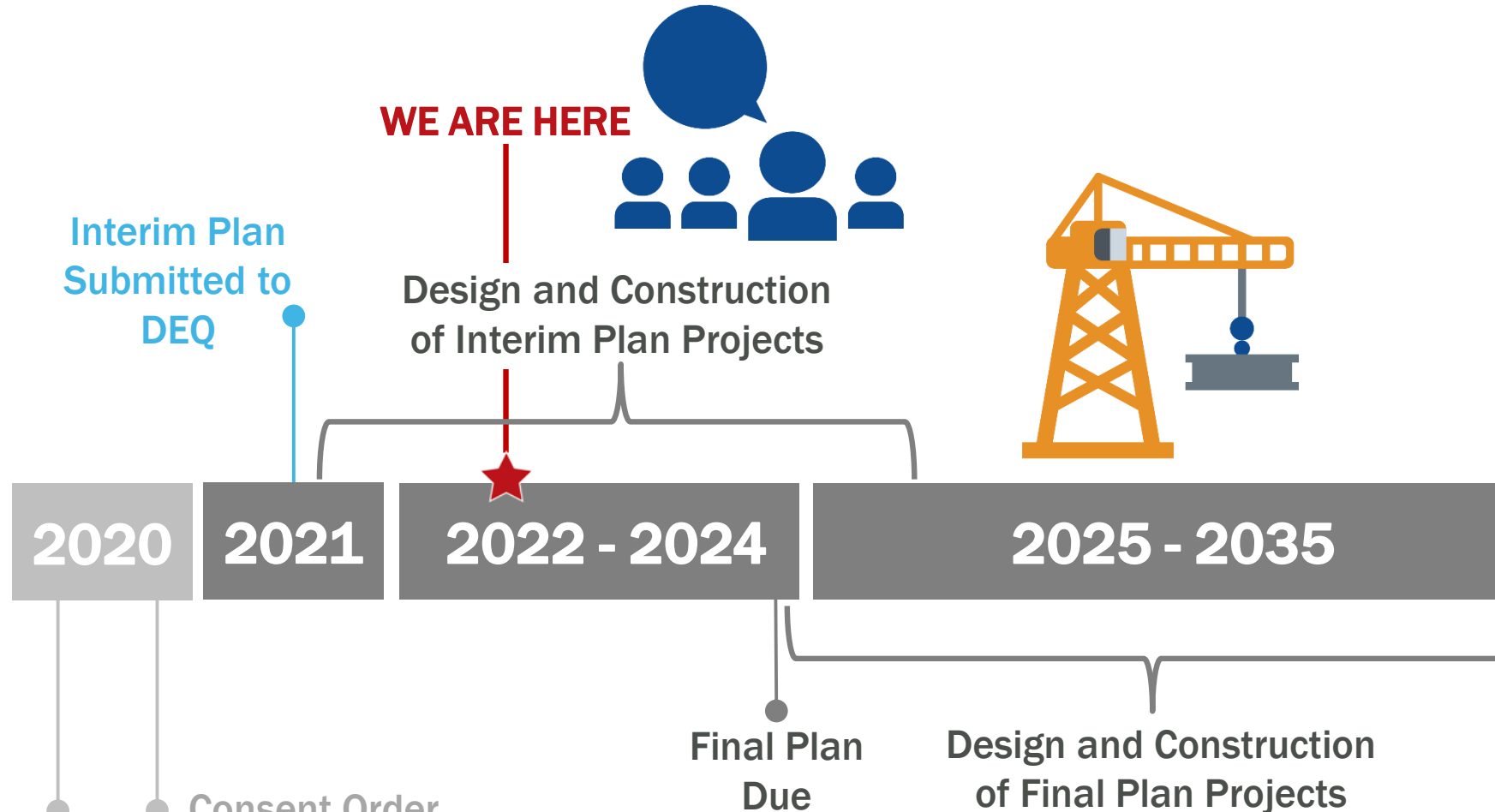


Senate Bill 1064 Requirements

The City of Richmond is required to develop Interim and Final Plans:

- Interim Plan submitted July 2021** (approved by DEQ); construction to be completed by July 1, 2027
- Final Plan due July 2024**; construction to be completed by July 1, 2035





WE ARE HERE



Design and Construction of Interim Plan Projects



Interim Plan Submitted to DEQ

2020

2021

2022 - 2024

2025 - 2035

SB1064 Passes into Law

Consent Order Amended

Final Plan Due

Design and Construction of Final Plan Projects

THE CULMINATION OF OUR WORK



Interim Plan Projects

10 Projects

Reduce overflows by maximizing and using existing capacity

Estimated 182.3 MG capture

92% CSO Capture

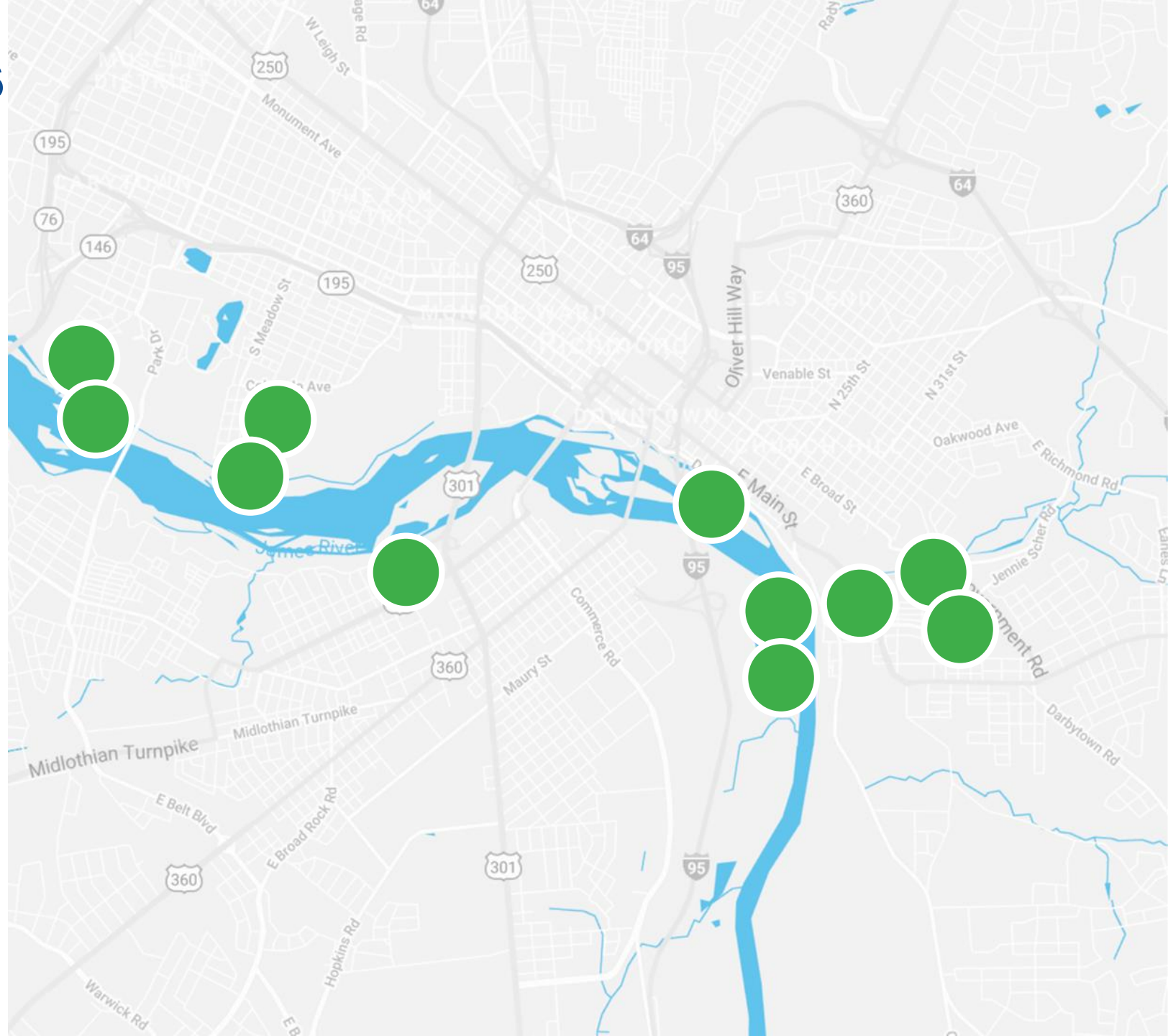
Estimated annual basis

\$33.1M

(in 2021 dollars)

July 1, 2027

Construction Deadline



The Final Plan

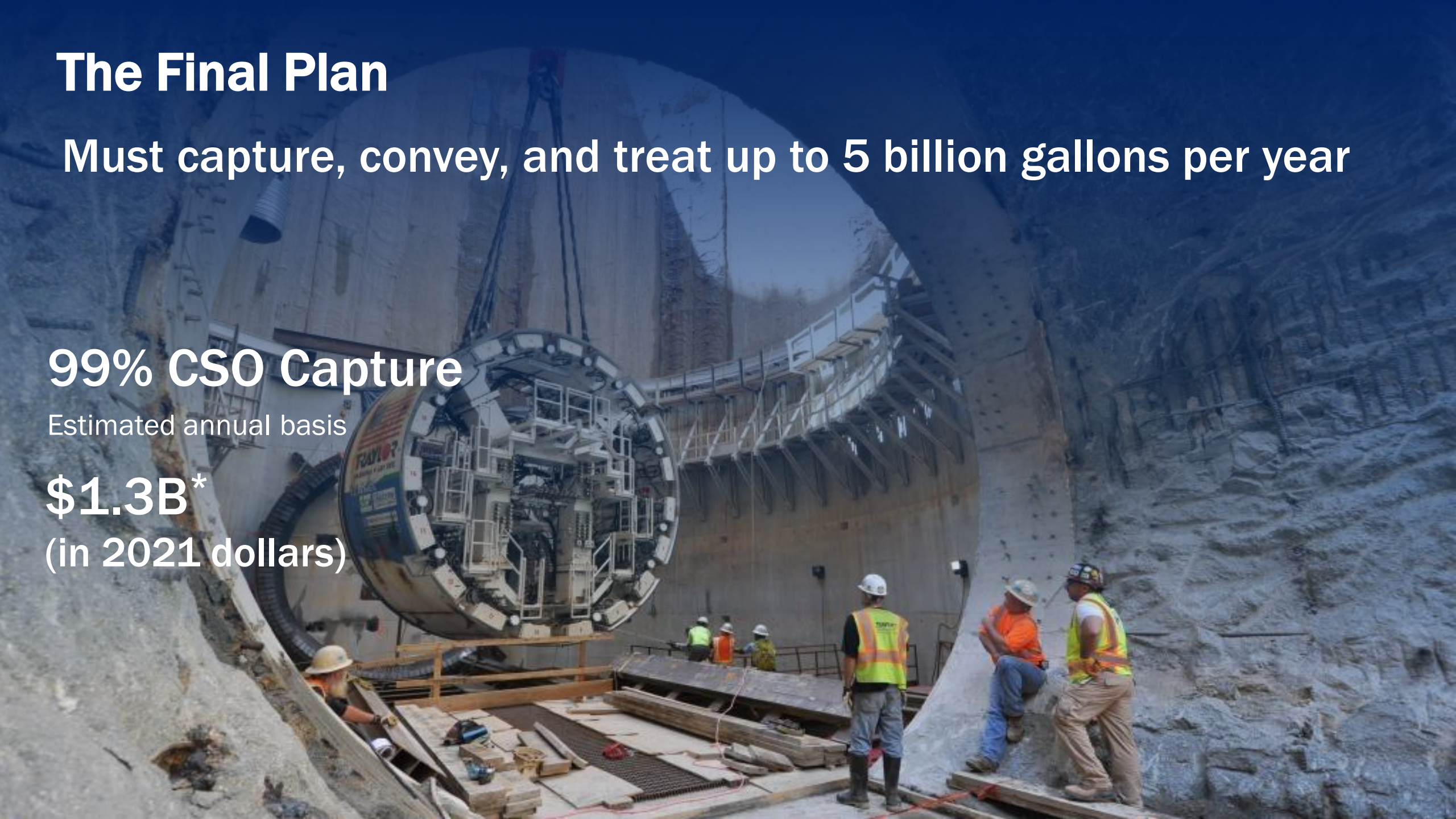
Must capture, convey, and treat up to 5 billion gallons per year

99% CSO Capture

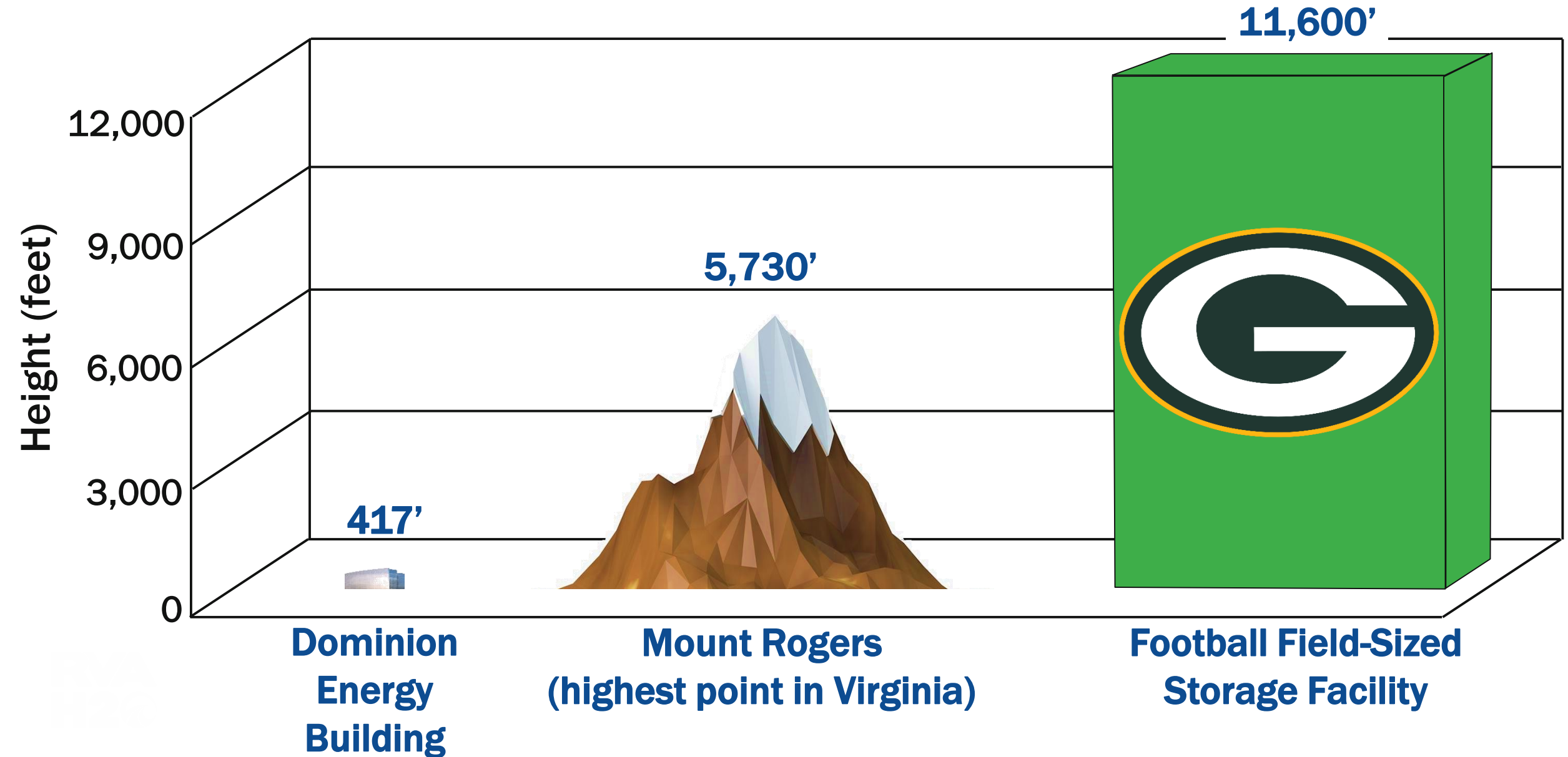
Estimated annual basis

\$1.3B*

(in 2021 dollars)

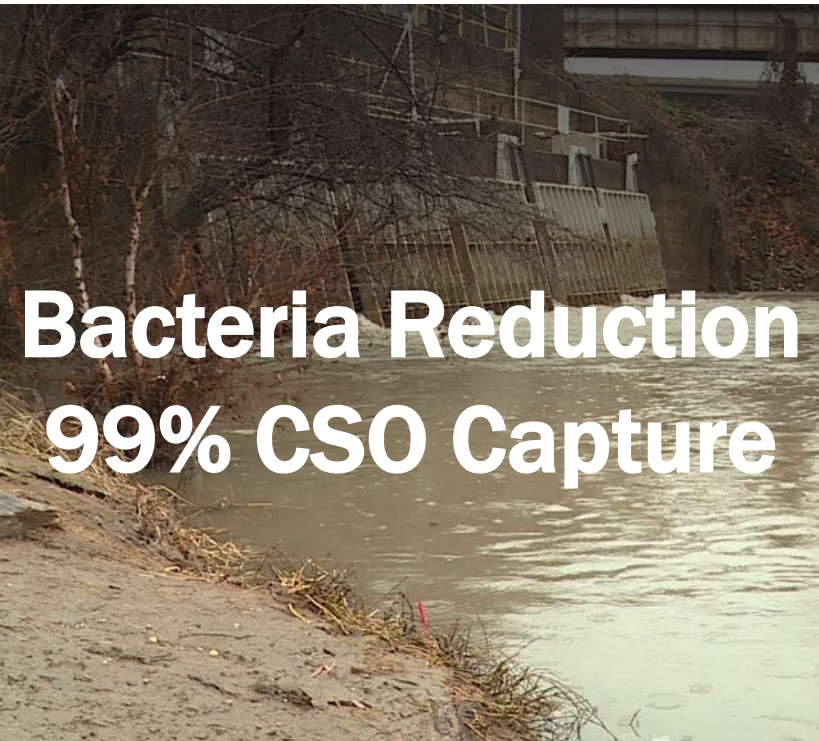


5 billion gallons = a 11,600-foot-tall football field

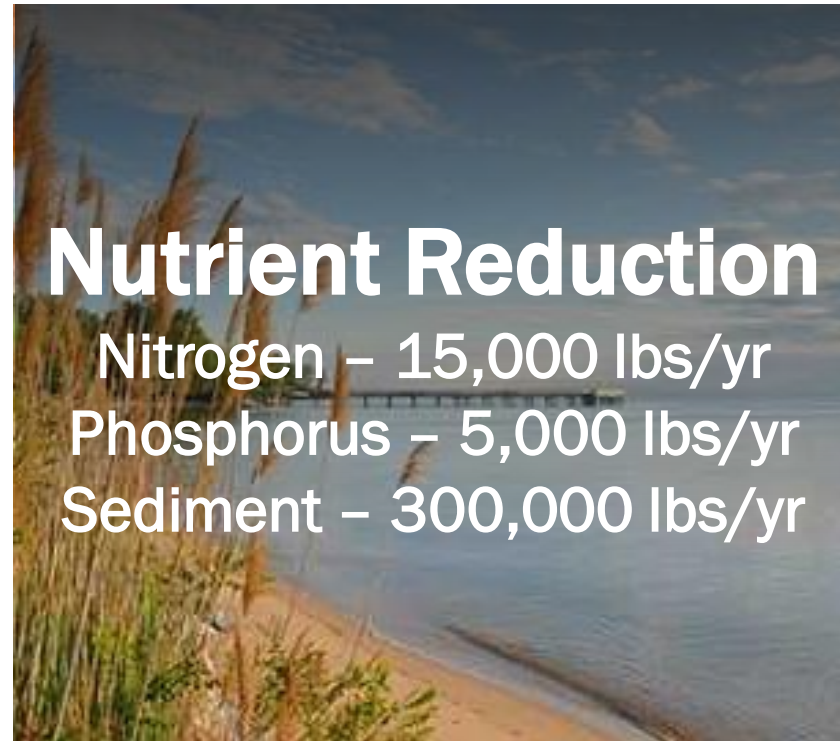


Projects offer enormous benefits to Richmond and Virginia

Recreation



Chesapeake Bay



Environment



CSS projects enhance connections to the James River

Community enhancements in previous CSS projects benefit all users of the James River

Potential improvement in Final Plan



Brown's Island and Canal Walk



James River Park System



Chapel Island Park

The Part You Play

The Part You Play

- Review and monitor the development of the Final Plan
- Share progress with your communities
- Provide input and insight



Meeting Details

Meeting Interval: Quarterly (in-person/virtual) from Spring 2022 to Summer 2024

Duration: 2 hours

Stipend: \$100/quarter



NEXT MEETING SEPTEMBER



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