



water is life

District of Columbia Water and Sewer Authority
George S. Hawkins, General Manager

Briefing on:

*Washington, D.C.'s
Clean Rivers Project*

DC Water's Long Term Control Plan Update

Briefing for:

*The Wet Weather Partnership and
The National Association of Clean Water Agencies*

Presented by:

Carlton M. Ray, Project Director, Clean Rivers Project

April 15, 2011



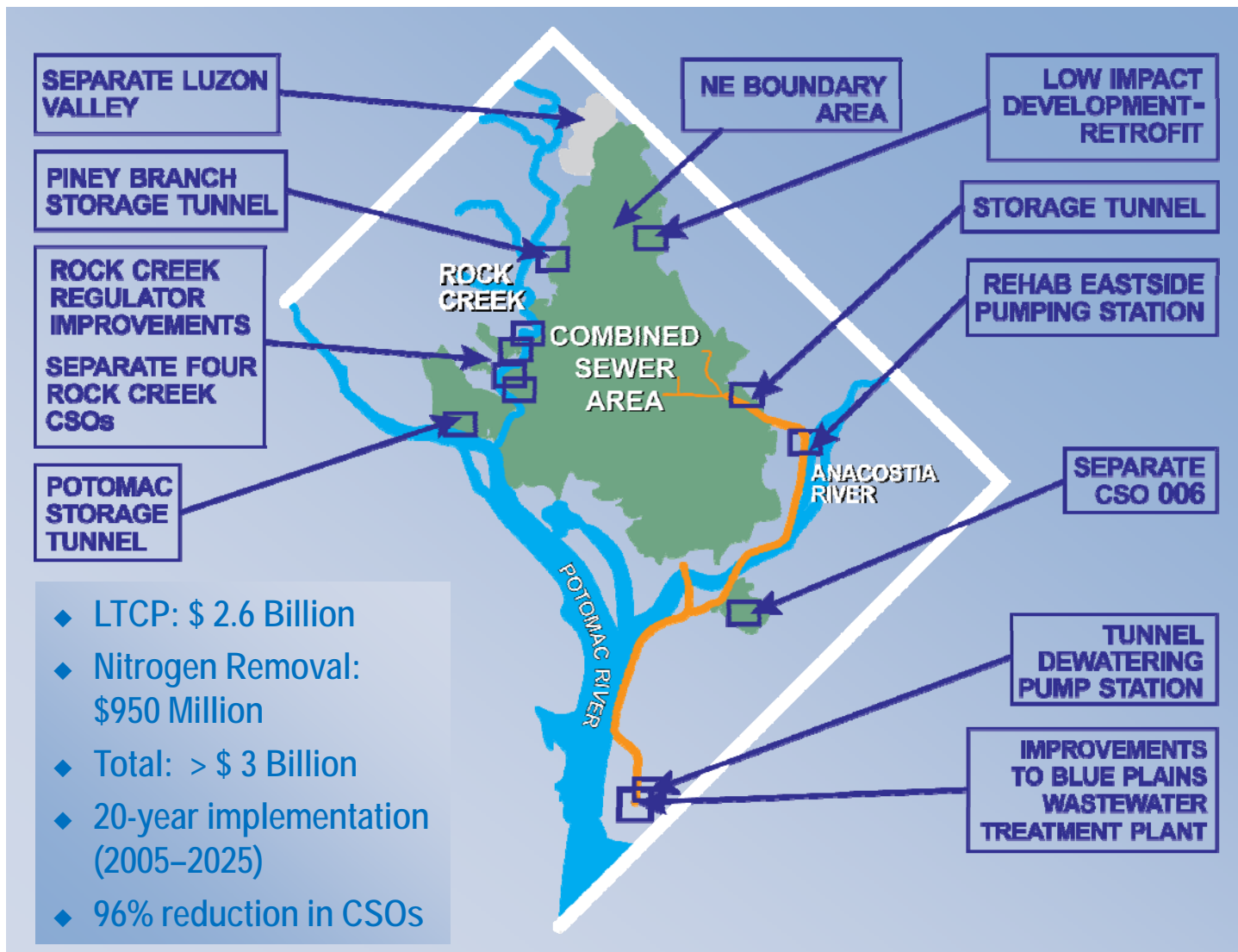
DCWATER.COM

What is DC Water?

- Independent authority formed in 1996
- Legal name District of Columbia Water and Sewer Authority (DC WASA) – recently re-branded as DC Water
- Services provided:
 - Water distribution
 - Wastewater collection and treatment
 - Storm water collection and conveyance
- Serves:
 - District
 - Parts of Maryland and Virginia



DC Clean Rivers Project



Predicted CSO Overflow Reduction Under Clean river project

Item	Anacostia River	Potomac River	Rock Creek	Total System
CSO Overflow Volume (mg/yr)				
No Phase I Controls	2,142	1,063	49	3,254
Recommended Plan	54	79	5	138
<i>% Reduction</i>	<i>98%</i>	<i>93%</i>	<i>90%</i>	<i>96%</i>
# of Overflows/Average Year				
No Phase I Controls	82	74	30	–
Recommended Plan	2	4	¼*	–

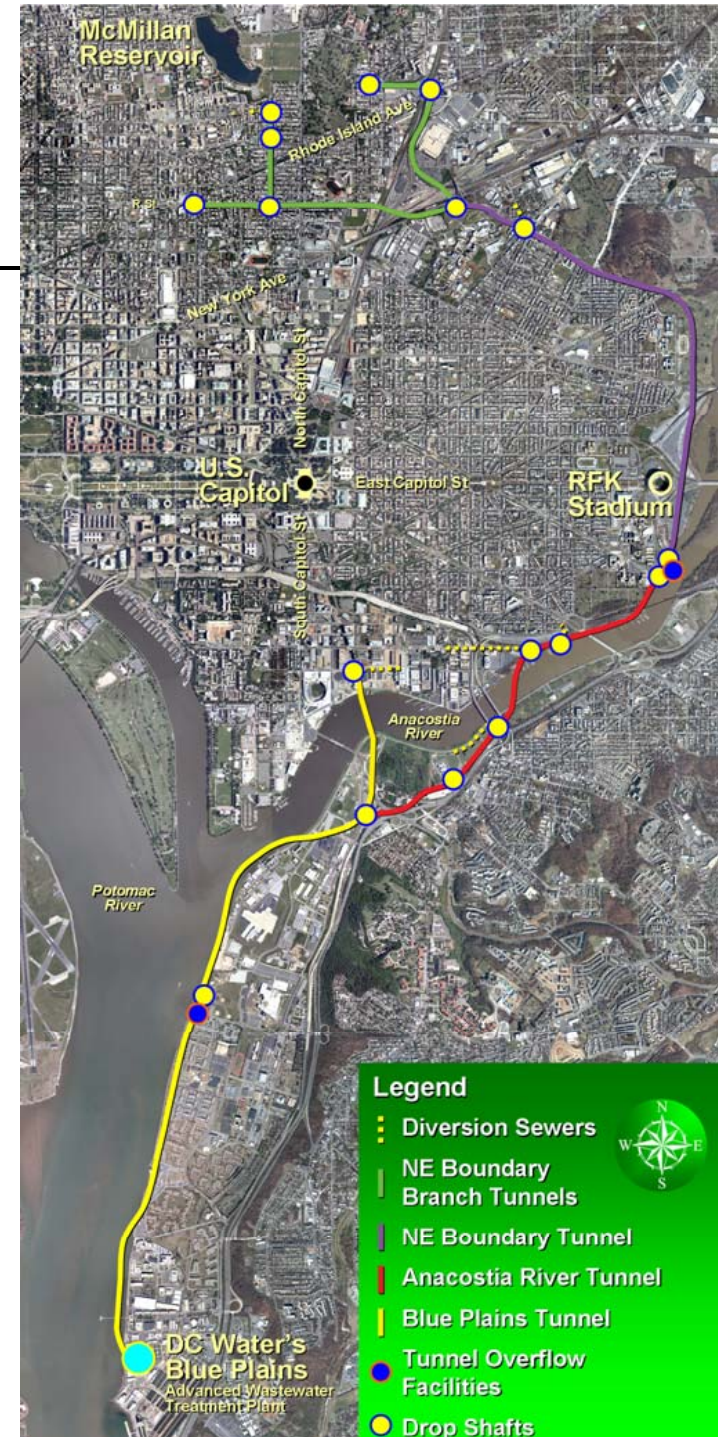


* One overflow/avg.yr at Piney Beach (Major CSO),
Four overflows/avg.yr at other small Rock Creek CSOs

Anacostia River CSO Control Project Facility Plan Update

- Award Blue Plains Tunnel (BPT) design-build contract - May 5th, 2011
- Issue RFQ Anacostia River Tunnel (ART) design-build contract - November, 2011
- NEBT
 - Investigate subsurface alignment (22 borings)
 - Finalize alignment

Public participation



Anacostia River Tunnel Procurement Key Dates and Current Status

Event	Date
Industry outreach meeting(MBE/WBE participation)	▶ August 2011
Issue RFQ	▶ November 2011
Issue RFP	▶ December 2012
Start of construction	▶ November 2013
Construction completed	▶ September 2017

Low Impact Development (LID) and CSO Control

- DC Water explored LIDs for CSO control from the beginning
- Concluded (along with EPA) that we can not meet the Federal Clean Water Act requirements for CSO control (over 90% reduction consistently) with the LIDs available at that time
- DC Water plans to explore LID for future application in CSO control (Rock Creek and Potomac LTCP projects)



Proposed Approach

Objective: Evaluate substituting the current grey infrastructure plan in the Potomac and Rock Creek watersheds with significant green infrastructure



DC Water's Vision

- Use the existing Consent Decree provision to explore potential for applying green infrastructure to Potomac and Rock Creek water sheds
- Get Stakeholders involved
- Held LID Summit (March 2011)
- Implement demonstration projects
- Prepare plan with multi-pronged approach



Theme of recently Held LID Summit (March 14th, 2011)

- Infrastructure
 - Green
 - Grey
 - Hybrid

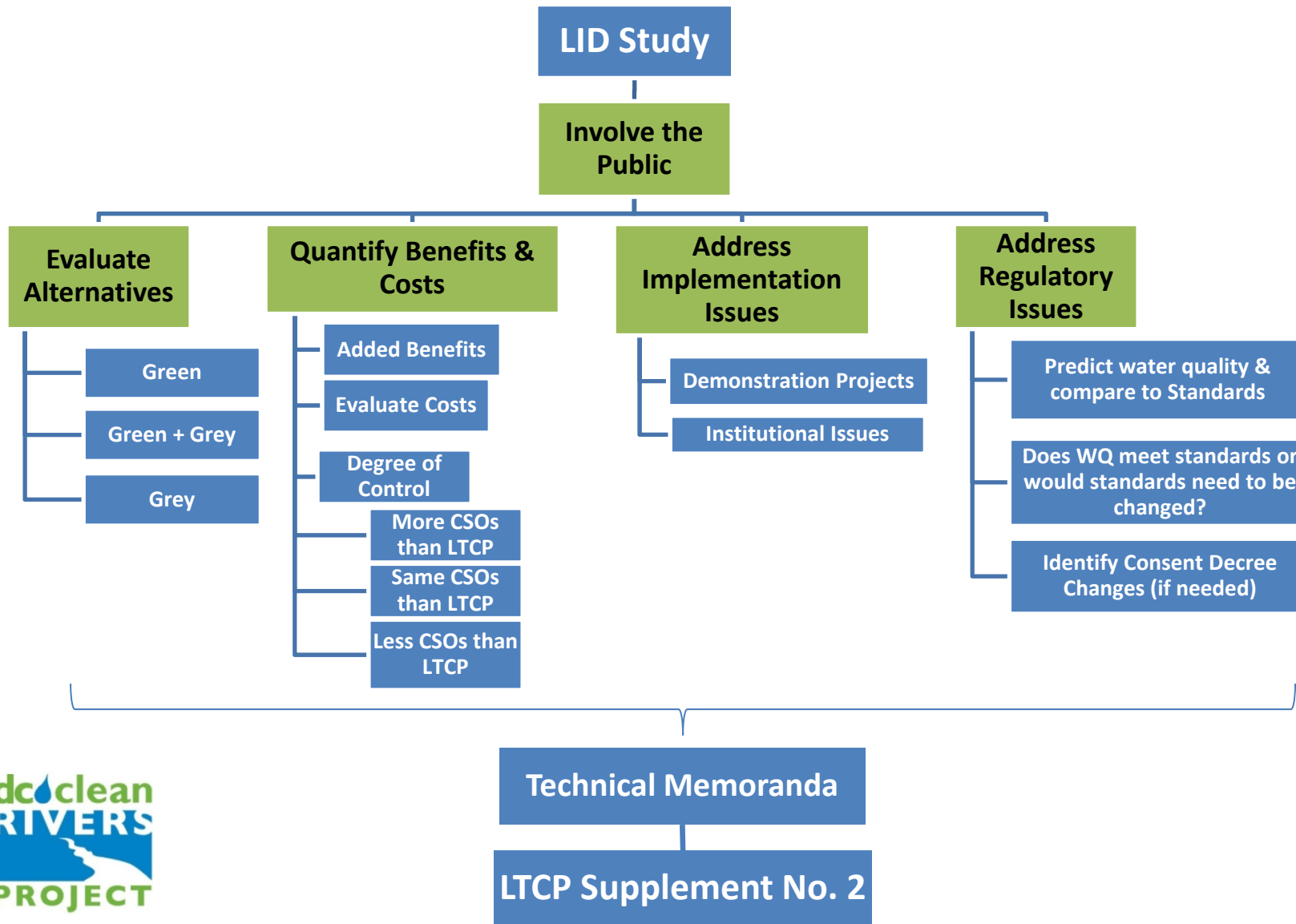
- Time is limited
 - 3 year window decide before consent decree requires implementing "Grey Infrastructure"

- Purpose: kickoff DC Water's reassessment of green infrastructure for CSO control



RiverSmart Schools

Multi-pronged Approach Approach



Thank you!

Questions & Answers