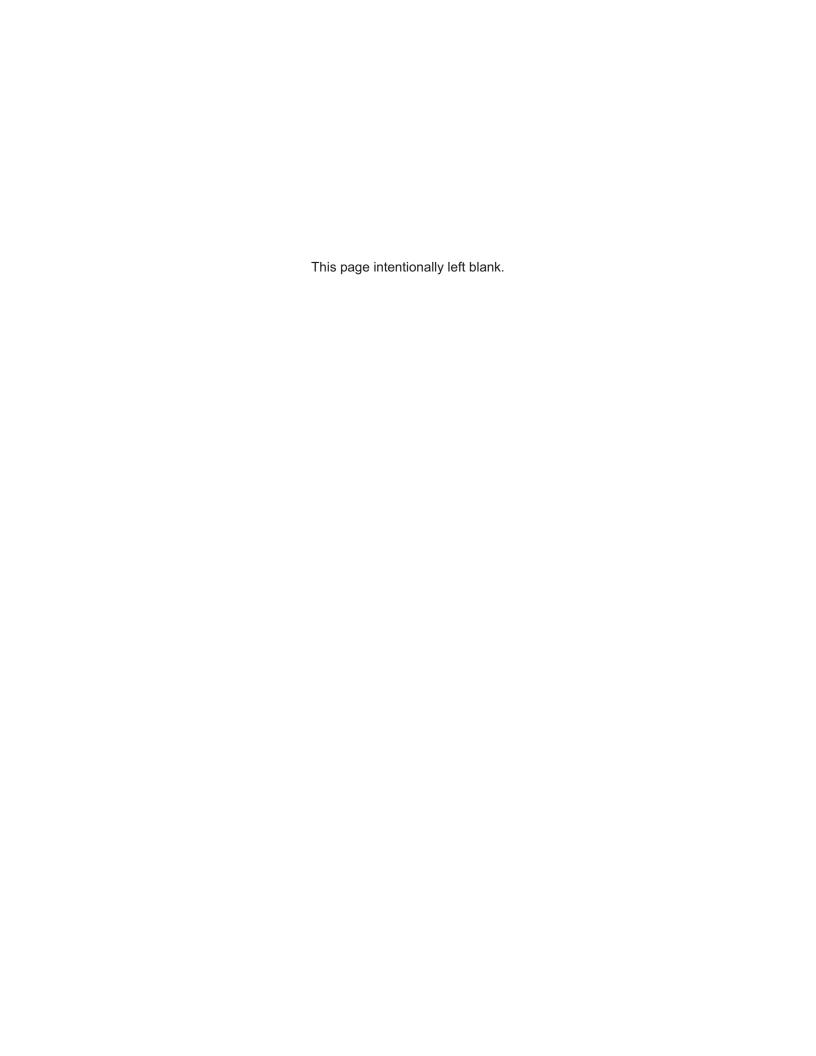
#### Appendix C DC Water Clean River Initiative

Nonmotorized Boathouse Zone Feasibility Study





#### water is life

## District of Columbia Water and Sewer Authority

George S. Hawkins, General Manager

Briefing on:

#### DC Clean Rivers Project Interface with Non-motorized Boathouse Zone Along Georgetown Waterfront

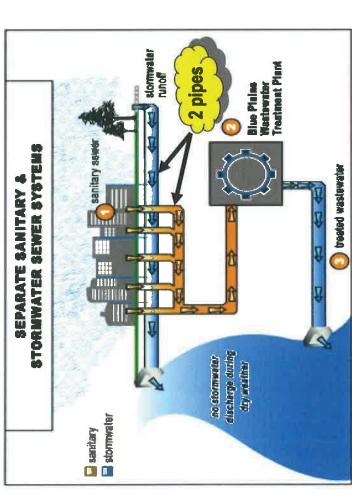
Briefing for:

National Park Service

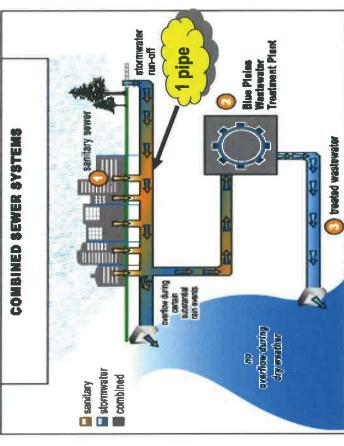


**January 26, 2012** 

# Separate and Combined Sewer Systems



100% of suburbs 67% of D.C.

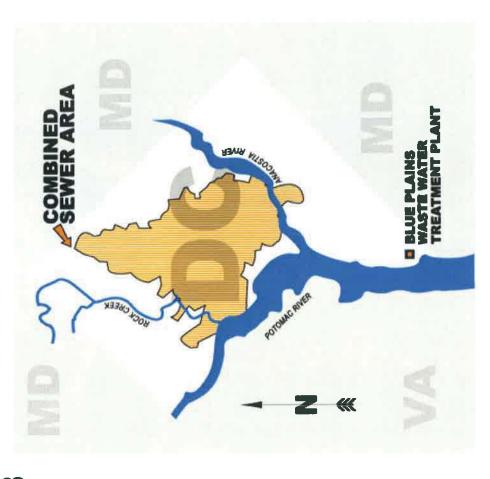


0% of suburbs 33% of D.C.

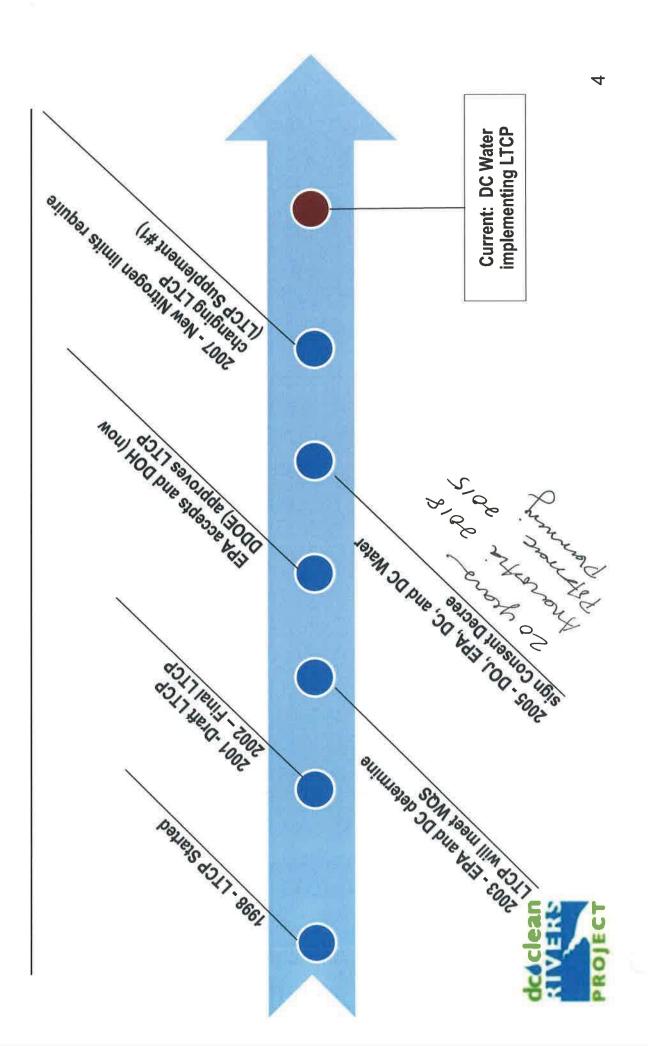


### **Combined Sewer Area**

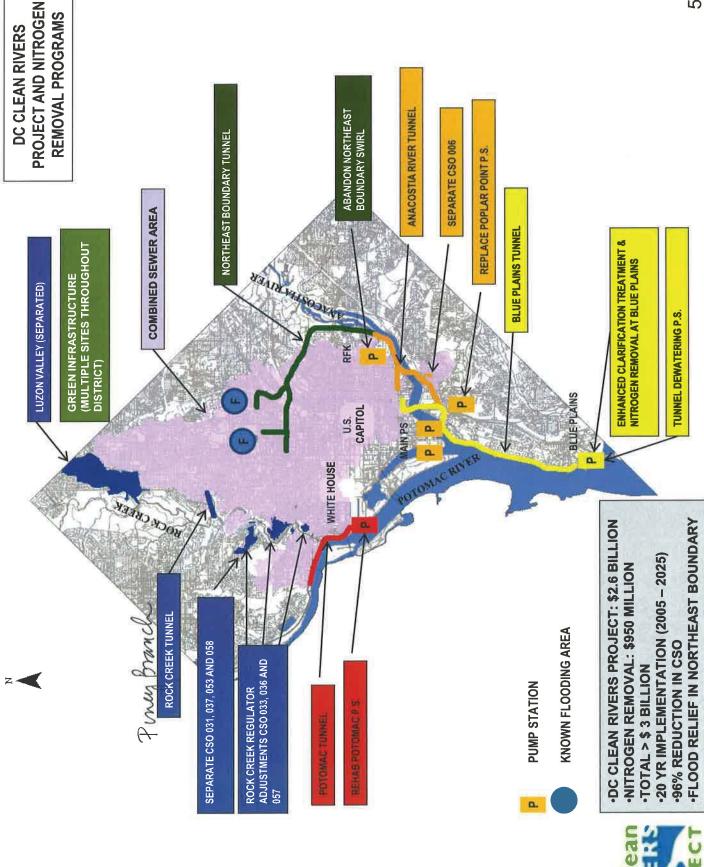
- 1/3 area is combined (12,478 acres)
- 53 CSO outfalls
- 15 to Anacostia
- 10 to Potomac
- 28 to Rock Creek
- Three receiving waters
- Anacostia River
- Potomac River
- Rock Creek







PRO



#### 9

# **Benefits of DC Clean Rivers Project**

#### 1 CSO Reduction

ltem	Anacostia River	Potomac River	Rock Creek	Total
CSO Overflow Volume (mg/avg yr)				
1996 – DC Water Formed	2,142	1,063	49	3,254
2025 - DCCR in Place	54	79	2	138
% Reduction	%86	93%	%06	%96

#### Water Quality Improvement

Bacteria levels will be lower, dissolved oxygen will be higher

#### **Trash Reduction**

Nond necessary
render waters
for he for a fre
Swimmousee

Oher purts of the
water 8hed,
much larger

Trash from CSOs will be practically eliminated



## Flooding Relief in Northeast Boundary Area

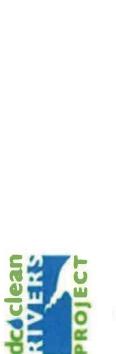
- Improves property values
- Supports economic development
- Protects private and public property
- Less impact of DDOT roads during rain events

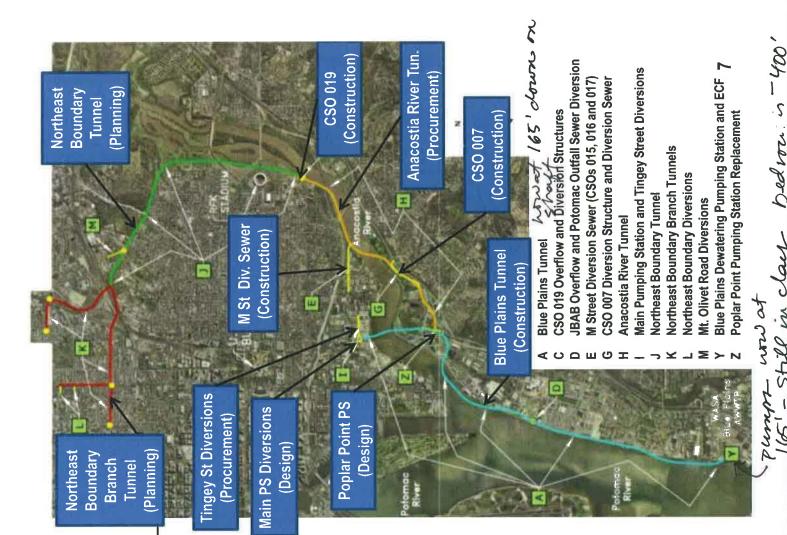
PROJECT

Less need for emergency response/rescues during rain events

#### Implementation Status Anacostia River Projects

- Construct storage/conveyance Tunnel
- 23' inside diameter
- 157 million gallons of storage
- Program on schedule, within budget
- Place facilities south of RFK stadium in operation by 2018, remainder by 2025
- Project required by Federal Consent Decree
- Stipulated penalties for failure to meet specified schedules





#### Potomac River CSO Controls Implementation Status

- 38.5% CSO reduction achieved since 1996
- 58 million Gallon Storage Tunnel
- Approx. 9,500' long 32.5' ± diameter from front from Tunnel Dewatering Pump
  - Station
- 3/23/15 per Consent Decree Facility planning to start

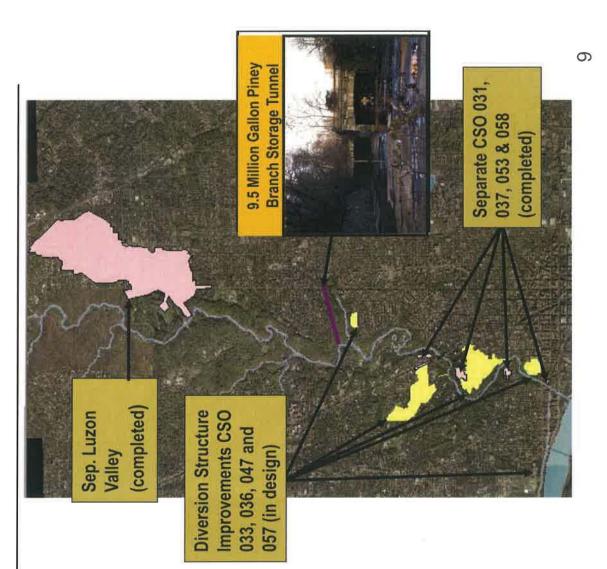




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#### Implementation Status Rock Creek CSO Controls

- 9.5 million gallon Storage Tunnel
- Approx. 3,000' long 23' ± diameter
- Gravity dewatering
- Facility Planning to start 3/23/2016





#### DC Clean Rivers Project Schedule (Showing Major Milestones Only)

	2012 2013 2014 2015 2016 2017 2018 2019 2020 2021	2014	2015	2016	2017	2018	2019	2020		2022	2023	2024	2025
<b>Consent Decree Deadlines</b>	10												
Anacostia River Tunnel	Plac	Place in Operation Facilities below RFK 3/23/18	peration Facilities below RFK 3/23/18	n Fac FK 3/	ilities 23/18	*				Place	Place in Operation all Facilities 3/23/25	ation al 3/23/25	*
Potomac Tunnel	Start Facility Plan 3/23/15	ity Plan 3/23/15	*			AW	Award Design	Design 3/23/18		Pla	Place in Operation 3/23/25	3/23/25	*
Rock Creek (Piney Branch Tunnel)	Start Facility Plan 3/23/16	ility Plan 3/23/16	91	*		4	ward	Award Design	<b>c</b> 6	Pla	Place in Operation 3/23/25	peration 3/23/25	*
aha NE Bounday	C.												

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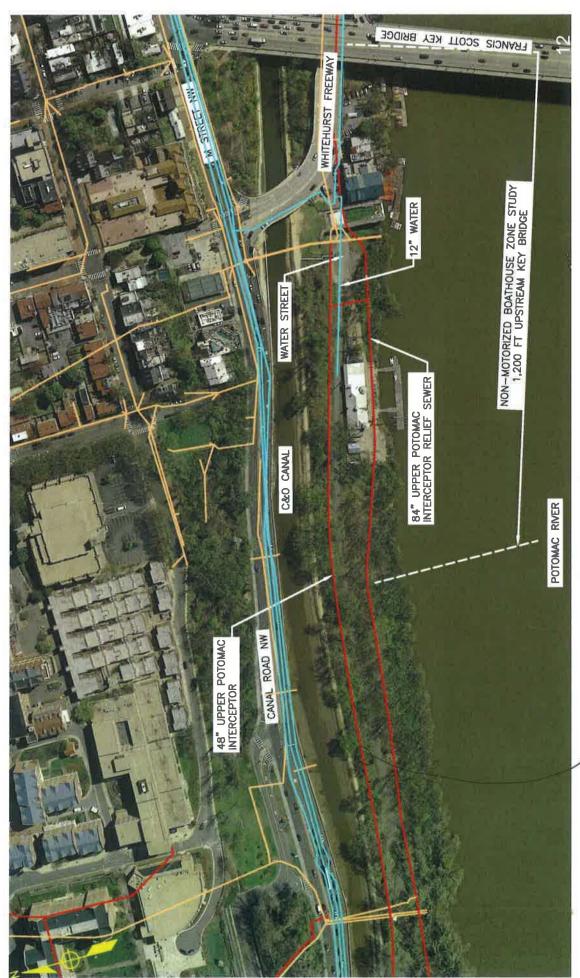


# DC Water Facilities to Consider in Boathouse Study

- Existing Sewer Lines
- 48" Upper Potomac Interceptor
- 84" Upper Potomac Interceptor Relief Sewer
- Existing CSOs 028 and 029
- **Existing Water Lines**
- Future DC Clean Rivers Project Facilities
- Facility planning for Potomac Tunnel not scheduled to start until
- Tunnel alignment is conceptual other alternatives are possible

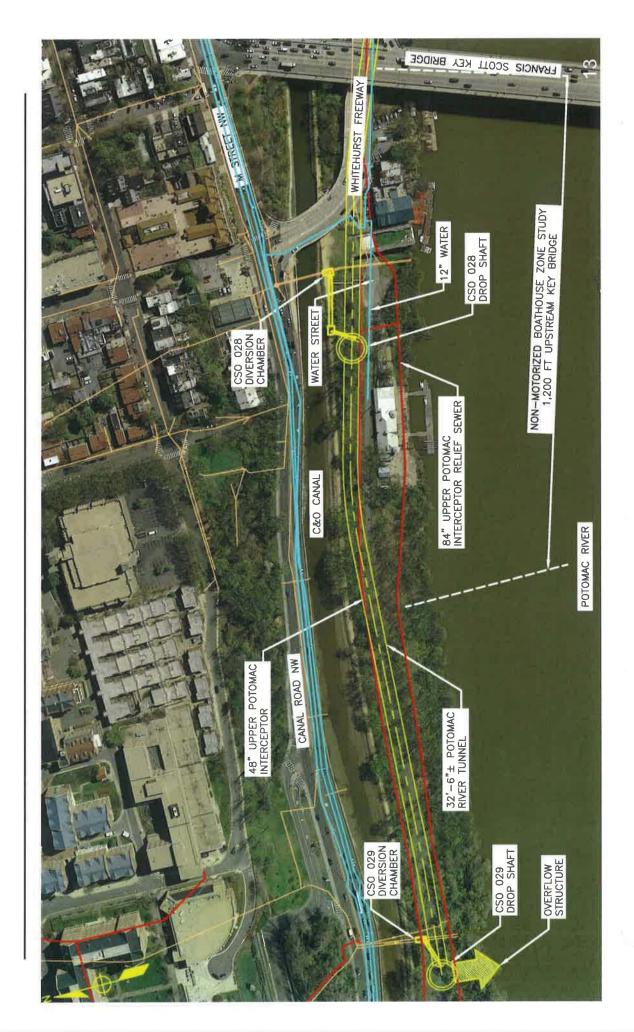


## **Existing DC Water Facilities**



" not convertly in service,

# Future DC Clean Rivers Project Facilities



#### **Next Steps**

- Schedule next coordination Meeting with NPS
- Ascertain schedule for study and major milestones

