

Briefing on:

DC CLEAN RIVERS PROJECT

Anacostia Partnership Steering Committee

October 23, 2019

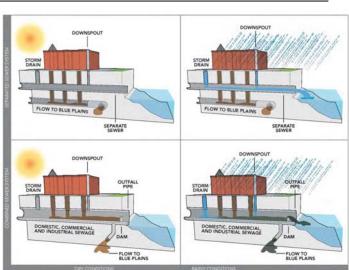
Carlton Ray Director, DC Clean Rivers Project, DC Water





Separate and Combined Sewer Systems





- 1/3 of area within District is served by combined sewers
- 48 active Combined Sewer Overflow (CSO) outfalls
 - 15 to Anacostia River
 - 10 to Potomac River
 - 23 to Rock Creek



Magnitude of the Challenge: CSOs and Surface Flooding

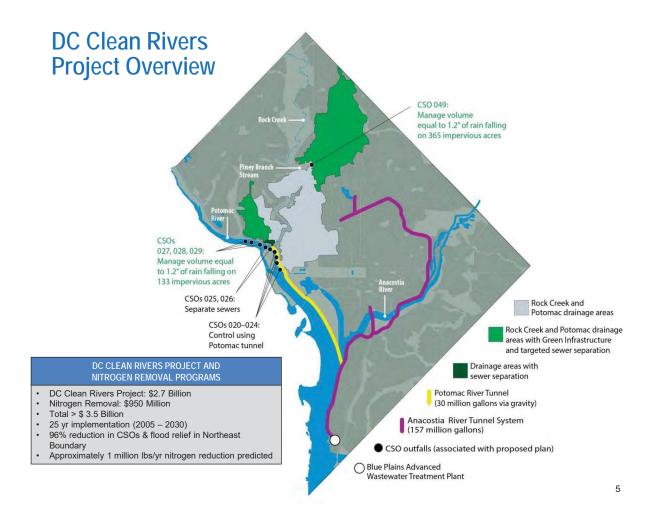


What is the Purpose of the DC Clean Rivers Project?

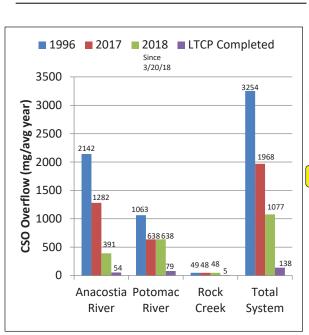
- Control combined sewer overflows to the:
 - Potomac River
 - Anacostia River
 - Rock Creek
- Relieve flooding in the Northeast Boundary Area
- Implemented under a Federal Consent Decree among:
 - US Environmental Protection Agency (US EPA)
 - US Department of Justice (US DOJ)
 - District of Columbia and
 - DC Water
- Significant stipulated penalties for missing schedule deadlines
- Fully operational in 2030

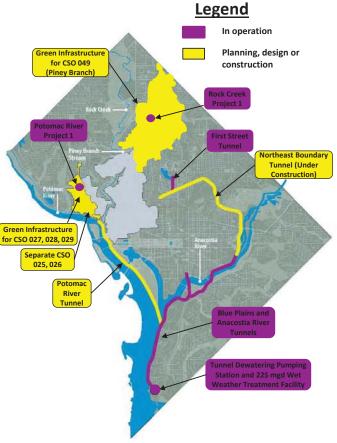






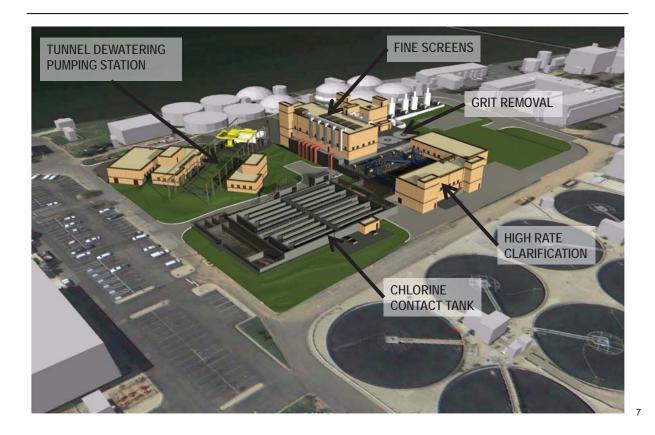








Enhanced Clarification Facility



Anacostia River Tunnel System Performance to Date

Month	Rainfall (in)	Volume Captured by Tunnel (MG)	Measured Overflow (MG)	Total (captured + OF)	% captured
March 20 -31, 2018	1.48	20	0	20	100%
April 2018	3.59	249	10	259	96.0%
May 2018	8.73	860	13	873	98.5%
June 2018	5.21	265	47	311	85.0%
July 2018	9.73	679	260	939	72.3%
August 2018	5.19	334	14	349	95.9%
September 2018	9.73	784	116	900	87.1%
October 2018	3.06	164	0	164	100%
November 2018	7.57	777	5	782	99.3%
December 2018	5.82	468	100	568	82.3%
January 2019	3.30	259	0	259	100%
February 2019	3.52	74	0	74	100%
March 2019	4.00	337	46	384	87.9%
April 2019	2.24	77	0.1	77	99.9%
May 2019	5.36	311	1	312	99.7%
June 2019	4.27	134	0.1	134	100%
July 2019	6.49	339	77	416	81.4%
August 2019	1.99	186	22	208	89.3%
September 2019	0.25	18	0	18	100%
October 2019 (thru 10/18)	1.24	84	0	84	100%
Total	92.77	6418	714	7131	90%

- Over **6.4 billion gallons** captured to date
- Over **2,700 tons** of trash, debris, and other solids captured
- Exceeding predicted capture rate (90%>80%)
- First year in operation was the wettest year on record for the District of Columbia







Trash and debris removed from CSO captured by tunnel at ECF Fine Screens

Northeast Boundary Tunnel Project

- 7 shafts
- **♦** Construction value: \$580M

Schedule				
NTP	September 15, 2017			
Construction Start	March 2018			
Place in Operation	2023			





Northeast Boundary Tunnel Tour





Questions and Answers













CARLTON RAY email: carlton.ray@DCWATER.COM phone: 202-787-4469