### QUARTERLY OPERATIONS REPORT

## DISTRICT OF COLUMBIA

### COMBINED SEWER OVERFLOW FACILITIES

### THIRD QUARTER, 2022

Prepared By:

D.C. Water and Sewer Authority Department of Sewer Operations 3101 Ames Place, NE Washington, D.C. 20032



# DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY Serving the Public • Protecting the Environment

# Monthly Operations Report For Combined Sewer System

# Month: July 2022

#### Prepared By:

District of Columbia Water and Sewer Authority Department of Pumping and Sewer Operations Washington, D.C. 20003

#### DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY Washington, D.C.

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#### 1. INTRODUCTION

The District of Columbia Water and Sewer Authority (DC Water) operates a wastewater collection system comprised of separate and combined sewers. Separate storm and sanitary sewers serve two-thirds of the District. In the combined sewer system (CSS), there is a single sewer to convey storm water and sanitary wastes. The area served by combined sewers comprises about one-third of the District.

During dry weather, sanitary wastes collected in the CSS are conveyed to the DC Water's advanced wastewater treatment plant at Blue Plains (BPAWWTP or the Blue Plains AWWTP). During periods of rainfall, the capacity of a combined sewer may be exceeded and the excess flow, which is a mixture of storm water and sanitary wastes, is discharged directly to the Anacostia River, Rock Creek or the Potomac River or their tributary waters. This report summarizes the operations of the combined sewer system for the month indicated.

#### 2. OPERATION AND MAINTENANCE

#### 2.1 Regulators

Regulators divert combined sewage to interceptors, which convey flow to BPAWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to the tunnel system for temporary storage, and CSO outfalls which discharge to receiving waters. The following table summarizes inspections of CSO regulators in the collection system.

				Со	ndition		
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
2 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
41	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
51	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	07/11/22	*			
7	W Street and Railroad Ave, SE	005	07/11/22	*			
81	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13th Street and Ridge Place, SE (Diversion Structure)	007	07/11/22	*			
9a	13 <sup>th</sup> Street and Ridge Place, SE (Regulator Structure)	007	07/11/22	*			
9b	11th Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	07/19/22	*			
11	"O" Street Pumping Station	011(a)	07/25/22	*			
12	Storm Pump Discharge at Main Pumping Station	011	07/07/22	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	07/27/22	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	07/27/22	*			
15	South Capitol and E Streets	010	07/21/22	*			
15a	Half and L Streets, SE	010	07/21/22	*			
15b	South Capitol and I Streets	010	07/06/22	*			
15c	South Capitol and I Streets	010	07/06/22	*			

# Table 2-1Regulator Structures

				Co	ndition		
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
16	North of Main Sewage Pumping Station	012	07/25/22	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	07/08/22	*			
17a	K Street between 6th Street and 7th Street, SE (Side Overflow Weir)	013	07/27/22	*			
17b	4 <sup>th</sup> and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	07/11/22	*			
18	6 <sup>th</sup> and M Streets, SE (Diversion and Overflow Structure)	014	07/08/22	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	07/08/22	*			
19	9 <sup>th</sup> and M Streets, SE	015	07/18/22	*			
19a	9 <sup>th</sup> and M Streets, SE	015	07/18/22	*			
19b	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	07/18/22	*			
19c	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	07/18/22	*			
20	12 <sup>th</sup> and M Streets, SE	016	07/18/22	*			
20a	12 <sup>th</sup> and M Streets, SE	016	07/18/22	*			
20b	12 <sup>th</sup> and M Streets, SE (CSO-016 Diversion Chamber)	016	07/18/22	*			
21	14 <sup>th</sup> and M Streets, SE	017	07/18/22	*			
21a	14 <sup>th</sup> and M Streets, SE (CSO-017 Diversion Chamber)	017	07/18/22	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	07/11/22	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	07/11/22	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	07/11/22	*			
22d	Kentucky Ave and Potomac Street, SE	018	07/11/22	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	07/11/22	*			
23	Independence Ave, 21st Street, SE, Extended	019	07/11/22	*			
24a	East Capitol St, west of RFK stadium	019	07/11/22	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	07/08/22	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	07/08/22	*			
30	17 <sup>th</sup> and D Streets, NW	020	07/08/22	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	07/08/22	*			
33	10 <sup>th</sup> and F Streets, NW	020	07/08/22	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	07/21/22	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	07/08/22	*			
35	Northeast of Roosevelt Bridge, NW	021	07/21/22	*			
35c	Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW	021	07/13/22	*			
36	27 <sup>th</sup> and I Streets, NW	022	07/08/22	*			
36a	New Hampshire Ave and Eye Street, NW	022	07/08/22	*			

				Co	ndition		
Structure		Associated NPDES	Date		Needs	-	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
36b	19th and L Streets, NW	022, 034	07/05/22	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	07/05/22	*			
36g	18th and M Streets, NW	022, 034	07/05/22	*			
36h	18th and M Streets, NW	022, 034	07/05/22	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	07/08/22	*			
38	29 <sup>th</sup> and K Streets, NW	024	07/05/22	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	07/05/22	*			
39a	30 <sup>th</sup> and K Streets, NW	024	07/05/22	*			
39b	30 <sup>th</sup> and K Streets, NW	024	07/05/22	*			
41b	31 <sup>st</sup> and K Streets, NW	025	07/05/22	*			
41c	31 <sup>st</sup> and K Streets, NW	025	07/05/22	*			
42	Wisconsin Ave and K Street, NW	026	07/05/22	*			
43	Potomac and Water Streets, NW	027	07/05/22	*			
43a	Potomac and Water Streets, NW	027	07/05/22	*			
44	Water Street, west of Potomac St, NW	027	07/05/22	*			
45	36 <sup>th</sup> and M Streets, NW	028	07/06/22	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	07/06/22	*			
47	38th Street and Reservoir Road, NW	029	07/06/22	*			
47a	37 <sup>th</sup> and T Streets, NW	029	07/06/22	*			
47b	37 <sup>th</sup> and T Streets, NW	029	07/06/22	*			
47c	38 <sup>th</sup> and W Streets, NW	029	07/06/22	*			
49 <sup>1</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	07/18/22	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	07/18/22	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	07/21/22	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	07/18/22	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	07/18/22	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	07/18/22	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	07/05/22	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	07/05/22	*			
54	23 <sup>rd</sup> and O Streets, NW	034	07/15/22	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	07/15/22	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	07/15/22	*			

				Со	ndition		
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	07/15/22	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	07/15/22	*			
58 <sup>1</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	07/06/22	*			
60	Connecticut Ave, east of Rock Creek, NW	039	07/06/22	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	07/06/22	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	07/13/22	*			
63	Harvard Street and Rock Creek Parkway, NW	042	07/13/22	*			
64	Adams Mill Road, south of Irving Street, NW	043	07/13/22	*			
65	Kenyon Street and Adams Mill Road, NW	044	07/13/22	*			
65a	Kenyon Street and Adams Mill Road, NW	044	07/13/22	*			
66	Adams Mill Road and Lamont Street, NW	045	07/13/22	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	07/13/22	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	07/13/22	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	07/13/22	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	07/13/22	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	07/06/22	*			
71	28th Street, west of Rock Creek Parkway, NW	050	07/06/22	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	07/15/22	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	07/15/22	*			
73	O Street Extended and Rock Creek Parkway, NW	052	07/15/22	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	07/08/22	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	07/08/22	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	07/08/22	*			
781	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	07/15/22	*			
84a	26 <sup>th</sup> and P Streets, NW	060	07/15/22	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	07/27/22	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	07/27/22	*			
89	First and V St, NW (First St Tunnel)	019	07/27/22	*			

				Co	ndition		
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
90	First and V St, NW (First St Tunnel)	019	07/27/22	*			
91	First and V St, NW (First St Tunnel)	019	07/27/22	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	07/19/22	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	07/19/22	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	07/18/22	*			
96	CSO 007 Shaft at 11 <sup>th</sup> St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	07/19/22	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	07/19/22	*			
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 - 012	07/25/22	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	07/27/22	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	07/25/22	*			
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	07/08/22	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	07/08/22	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	07/08/22	*			
104	Poplar Point PS Discharge Chamber	N/A	07/08/22	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	07/08/22	*			

1. Noted structures no longer function as a combined sewer overflow regulator structure.

### 2.2 Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

	0	utfalls and	Tide	Gates							
				11	Tic		<i>T</i> : 1				
				Nutfall ndition	Ga Pres			e Gate ndition	CC	O Sign	
NPDES				Needs	rres		0	Needs	CS	Needs	
Outfall	Location	Date Inspected	OK	Work	Yes	No	ОК	Work	OK		Notes, Work Needed or Performed
U	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A	011	WOIR	105	110	011	work	011	WOIR	
003a	Joint Base Anacostia Bolling Macdill and Arnold Ave SW	07/08/22	*		*		*	-	*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	07/19/22	*		*		*		*		
0061	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	07/19/22	*		*		*		*		
009	O St. Sewage Pumping Station, SE	07/07/22	*		*		*		*		
010	O St. Sewage Pumping Station, SE	07/07/22	*			*			*		
011	Main Sewage Pumping Station, SE	07/07/22	*			*			*		
011a	Main Sewage Pumping Station, SE	07/07/22	*		*		*		*		
012	Main Sewage Pumping Station, SE	07/07/22	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	07/07/22	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	07/07/22	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	07/07/22	*			*			*		
016	12th and O Streets, SE	07/07/22	*		*		*		*		
017	M and Water Street, SE	07/07/22	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	07/07/22	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	07/19/22	*		*		*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	07/19/22	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	07/14/22	*		*		*		*		
021	Rock Creek Parkway and C St., NW	07/14/22	*		*		*		*		
022	Rock Creek Parkway and G St., NW	07/14/22	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	07/14/22	*		*		*		*		
025	South of 31st and K Streets, NW	07/14/22	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	07/14/22	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	07/14/22	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	07/14/22	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	07/14/22	*			*			*		

Table 2-2Outfalls and Tide Gates

				utfall ndition	Tic Ga Pres	ite		le Gate ndition	CS	O Sign	
NPDES		Date		Needs				Needs		Needs	
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Notes, Work Needed or Performed
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW	07/18/22	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	07/18/22	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	07/15/22	*			*			*		
035	P St. Bridge and Rock Creek Parkway	07/15/22	*			*			*		
036	22nd Street, South of Q Street NW.	07/07/22	*		*		*		*		
0371	Waterside Dr. and Rock Creek Parkway	N/A									
	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	07/06/22	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	07/06/22	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	07/06/22	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	07/07/22	*		*		*		*		
042	Harvard St. and Beach Dr NW.	07/07/22	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	07/07/22	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	07/07/22	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	07/07/22	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	07/13/22	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	07/13/22	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	07/13/22	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	07/13/22	*		*		*		*		
050	Rock Creek Parkway and L St., NW	07/06/22	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	07/19/22	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	07/19/22	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	07/08/22	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	07/08/22	*		*		*		*		
	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	07/07/22	*		*		*		*		

1. Outfall no longer functions as a combined sewer outfall.

**2.3.1 Pumping Stations** Pumping station operations are summarized in the table below.

	Table 2-3	
<b>Pumping Stations – Ins</b>	pections and Equi	ipment in Service

Pumping	No. of	No.	No.	Screens or Pumps			Work Order	
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Number	Schedule to Restore to Service
Main	31	3	4	None	_	_	-	-
Eastside	1	2	4	None	_	_	_	-
Poplar Point	1	2	4	None	_	_	-	-
Potomac	31	4	5	Screen #2	07/31/22-07/31/22	Screen lost a pin which caused the rake to become detached and damaged. Potential cause of lost pin was debris entering pump station.	22-504885	08/02/2022

		Tumping Stations – Treventive		
	Date		Work Order	
Pumping Station	Performed	<i>Type of Preventive Maintenance Performed</i> <sup>1,2</sup>	Number	Comments
Main	7/28/22	Group A	22-467043	Add oil, grease bearings and replace packing if needed.
O St	7/12/22	Group A	22-482054	Add oil, grease bearings and replace packing if needed.
Eastside	7/20/22	Group A	22-431108	Add oil, grease bearings and replace packing if needed.
Poplar Point	7/28/22	Group A	22-469911	Add oil, grease bearings and replace packing if needed.
Potomac	7/19/22	Group A	22-434313	Add oil, grease bearings and replace packing if needed.
Rock Creek	7/19/22	Group A	22-419463	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	7/19/22	Group A	22-470302	Add oil, grease bearings and replace packing if needed.
Earl Place	7/12/22	Group A	22-446234	Add oil, grease bearings and replace packing if needed.
1 <sup>st</sup> Street Tunnel Dewatering	7/09/22	Group B	22-479881	

 Table 2-4

 Pumping Stations – Preventive Maintenance

1. Group A consists of:

a. Exercise bar screens

b. Exercise all sump pumps

c. Drain condensation from air compressor storage tank

d. Check depth of screening in the screen room and schedule Vactor truck as required

e. Check all safety equipment

f. Issue work order requests as required

#### 2. Group B consists of:

a. Inspect and manually run CSO Pumps

- b. Generator:
  - i. Inspection operation and test, inspect oil level, inspect coolant level
- c. MCC:
  - i. Test gas monitoring system
  - ii. Inspect and test level indicators
- d. Valve Vault
  - i. Lubricate knife gate valve stem and stem nut
  - ii. Flush air and vacuum release valve

		<u> </u>	ng Stations – Pumpage			
	Sanitary Pumpage		Screenings Collected (tons) <sup>1</sup>	Pumpage of CSO from First Street Tunnel back to Sewer System		
Pumping Station	Total Wastewater (mg)	Daily Average Wastewater (mg)		Date	Volume (mg)	
Main <sup>1,2</sup>	1636.79	52.79	N/A	N/A	N/A	
O St <sup>1,2</sup>	156.14	5.037	N/A	N/A	N/A	
Eastside	179.07	5.776	N/A	N/A	N/A	
Poplar Point	274.21	8.845	N/A	N/A	N/A	
Potomac	3937.24	127.01	N/A	N/A	N/A	
Rock Creek	161.23	5.201	N/A	N/A	N/A	
Upper Anacostia	38.81	1.252	N/A	N/A	N/A	
Earl Place	2.666	0.0860	N/A	N/A	N/A	
1 <sup>st</sup> Street Tunnel Dewatering	N/A	N/A	N/A	07/02/22 07/03/22 07/05/22 07/07/22 07/10/22 07/20/22 07/22/22	0.2131 0.838 0.0502 0.0477 0.0659 0.0502 0.0502	

Table 2-5 Pumping Stations – Pumpage

1. Screenings collected from the Main and O Street Pumping Stations are combined from the sanitary flow and combined sewer overflows, due to the design of the screening system that consists of vertical trash racks, with no mechanical cleaning. Therefore, quantification of captured screening materials, specifically from combined sewer overflows, is not feasible.

2. Flow meters have been installed in accordance with NPDES Permit No. DC002199 to record CSO discharges from Main and O Street Pumping Stations. This data is reported via Discharge Monitoring Reports submitted to the EPA on a monthly basis. A summary of metered and modeled CSO discharges is included in Section 5.

#### 2.4 Inflatable Dams and SCADA System

DC Water operates and maintains nine inflatable dams at seven different locations. Table 2-6 summarizes the date(s) the inflatable dams were inspected, and their operational status and condition. The inflatable dams consist of multi-ply elastomeric (i.e., "rubber") fabric dams installed in major overflow conduits within the combined sewer system. The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflows occur. The effect of the installation is to retain a greater volume of combined sewage flow resulting from low to moderate intensity storms by maximizing storage within the CSS. During higher intensity storms, when the full carrying capacity of the overflow conduit is required to prevent upstream flooding, the dam is deflated automatically. Inflatable dam operations are summarized below:

Inflatable Dam		Was Dam Out of Service			
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Schedule to Restore to Service
14 - East	7/21/22	No	N/A	N/A	N/A
14 - West	7/21/22	No	N/A	N/A	N/A
15	7/21/22	No	N/A	N/A	N/A
15A	7/21/22	No	N/A	N/A	N/A
16 – East	7/21/22	No	N/A	N/A	N/A
16 - West	7/21/22	No	N/A	N/A	N/A
34	7/11/22	Yes	7/10/22	Note 1	7/11/22
	7/21/22	No	NA	NA	NA
35	7/21/22	No	N/A	N/A	N/A
52	7/21/22	No	N/A	N/A	N/A

 Table 2-6

 Inflatable Dams – Inspections and Equipment in Service

 On 07/10/22, Structure 34 was deflated due to a power outage in the area causing a loss in communication and blower failure at the structure. Maintenance, Electrical, and Instrumentation was notified, and a work order has been created. The structure was returned to service in less than 24 hours. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.

Inflatable Dams & SCADA Sites - wet weather Operations									
Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow	Inflatable Dam Operational Status						
14 (E & W)	7/25/22	Ohr, 15mins	Deflated						
15	7/9/22	Ohr, 5mins	Deflated						
	7/16/22	Ohr, 4mins	Deflated						
15A	None	N/A	Inflated						
16 (E & W)	7/9/22	1hr, 36mins	Deflated						
	7/16/22	Ohr, 1min	Deflated						
34	7/9/22	Ohr, 2mins	Deflated						
	7/11/22	1hr, 2mins	Deflated						
	7/16/22	Ohr, 6mins	Deflated						
35	7/2/22	Ohr, 57mins	Deflated						
	7/3/22	1hr, 8mins	Deflated						
	7/9/22	2hrs, 16mins	Deflated						
	7/16/22	Ohrs, 42mins	Deflated						
	7/25/2022	Ohrs, 29mins	Deflated						
52	7/2/22	Ohrs, 3mins	Deflated						
	7/9/22	Ohrs, 3mins	Deflated						
	7/11/22	Ohrs, 2mins	Deflated						
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow							
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.							
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.	27/4						
Outfall Structure 2	None	N/A	N/A						
Outfall Sewer Control Gates	<b>Operational Status</b>	Position							
Outfall Sewer Control Gate No.1	Operational	Open							
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible	]						
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible							

 Table 2-7

 Inflatable Dams & SCADA Sites - Wet Weather Operations

### 3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow reported during July 2022.

#### 4. SOLIDS AND FLOATABLES CONTROL

#### 4.1 Catch Basin Cleaning

The following tables summarize catch basin cleaning in the Anacostia CSO area and in the entire sewer system:

1	Table	4-1
Catch	Basin	Cleaning

		Inspections			Cleaning						
				Total	Total						
				Anacostia CBs	Anacostia CBs	CBs Clear		CB's C		Total CBs	
			CBs in	Inspected	Inspected	Last N	Ionth	This N	Aonth	This Year to Date	
		CBs in	Anacostia	Once this	Twice this						
Ward	Total CBs	CSS	CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1449	1426	652	640	42	133	119	245	242	378	361
2	2792	2642	476	476	61	513	376	1051	1044	1564	1420
3	3687	187	0	0	0	3449	132	100	28	3549	160
4	3495	1723	0	0	0	1950	382	573	544	2523	926
5	4007	1769	1692	1631	76	1942	86	60	22	2002	108
6	3316	2666	2647	2584	115	799	190	29	28	828	218
7	3785	43	41	41	0	1385	0	72	0	1457	0
8	2832	212	209	198	10	1452	8	17	2	1469	10
Grand Total	25363 <sup>1</sup>	10668 <sup>1</sup>	5717 <sup>1</sup>	5570	304	11623	1293	2147	1910	13770	3203
% Cleaned/Inspected to Date				97%	4%					54%	30%

#### Notes:

1. The number of catch basins in our service area changes with the ongoing connections and abandonments to the sewer infrastructure.

#### 4.2 BMP Demonstration for Solid and Floatable Control

DC WATER operates the following demonstration projects designed to remove solids and floatables from CSO prior to discharge.

• Bar Rack at CSO 040 and 041 to Rock Creek

# Table 4-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (LB)
Bar Rack CSO 040	07/06/22	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	07/07/22	Good	None	Routine Cleaning	(1)

Notes:

 $\overline{(1)}$  System was designed so that captured solids and floatables are conveyed to Blue Plains for treatment.

#### 4.3 Anacostia River Floating Debris Removal Program

This program was initiated in October 1992 to remove floating debris from Anacostia and Potomac Rivers on a routine basis. The program has continued from that time and is now under the auspices of DC WATER, Department of Sewer Operations. The floating debris removal program utilizes a skimmer boat and support boats to remove floatable debris from the Rivers as well as trash, which accumulates on the riverbanks and in the mud flats at low tides. Work for the most part is directed toward the Anacostia River. The boats pick up debris five days a week. Operations are summarized as follows:

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	20
Days not Operating	4
Reason not Operating	Maintenance, wind, low water levels.
# Skimmer in Fleet	3 Skimmers
# Skimmers Out of Service	2 Skimmers
Dates	B32: 7/11 - 7/20 and 7/27 - 7/31. B34: 7/6 - 7/31.
Reason	B32: horn failure and hydraulic leak from under operating cabin.
	B34: number one screen failure.
Plan to Restore to Service	B32: troubleshooting hydraulic leak, ETR unknown.
	B34: parts arrived, ETR August 2022.
Amount Material Collected	40 tons this month. Calendar year to date 100 tons.
Nature of Material	Bottles, cans, natural debris and plastics.

# Table 4-3 Anacostia River Floating Debris Removal Program – Summary

#### 4.4 CSS Litter Control

This section describes DC WATER's efforts to coordinate litter control efforts with the National Park Service and D.C. Department of Public Works to maximize litter control efforts in the combined sewer system.

No Activity this month.

#### 5. MONITORING

#### 5.1 Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Table 5-1
Bar Racks at Main & O Street Pumping Stations

	Date	Cond	lition	Work Order		Work Performed or
Pumping Station	Inspected	Good	Needs Work	Number	Work Needed	Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	7/9/22	Х		22-487346		
Bar Racks at Main Storm Pumps (CSO 011)	7/12/22	Х		22-487339		

#### 5.2 Rain Data

Rain data from National Airport and from the rain gauges installed in the CSS are summarized below.

Date	Brentwood Pumping Station	Bryant Street Pumping Station	Main Pumping Station	Rock Creek Pumping Station	National Airport
7/1/2022	0	0	0	0	0
7/2/2022	1.21	1.36	0.03	0.96	0
7/3/2022	0.59	0.50	0.56	0.41	0.53
7/4/2022	0	0	0	0	0
7/5/2022	0.10	0.12	0.09	0.14	0.09
7/6/2022	0.13	0.14	0	0	0
7/7/2022	0.09	0.11	0	0.15	0.03
7/8/2022	0	0	0	0	0.04
7/9/2022	1.69	1.86	2.79	3.15	4.05
7/10/2022	0	0	0	0	0
7/11/2022	0	0	0	0	0
7/12/2022	0.21	0.15	0.29	0	0.44
7/13/2022	0	0	0	0	0
7/14/2022	0	0	0	0.90	0
7/15/2022	0	0	0	0	0
7/16/2022	0.85	0	1.05	0.99	1.38
7/17/2022	0	0	0.03	0.01	0.01
7/18/2022	0.02	0.03	0	0.02	0
7/19/2022	0	0	0	0	0
7/20/2022	0	0	0	0	0
7/21/2022	0.32	0	0.10	0.27	0.08
7/22/2022	0	0	0	0	0
7/23/2022	0	0	0	0	0
7/24/2022	0	0	0	0	0
7/25/2022	0.57	0.57	0.28	0.50	0.26
7/26/2022	0	0	0	0	0
7/27/2022	0	0	0	0	0
7/28/2022	0.12	0.16	0.19	0.16	0.20
7/29/2022	0.05	0.06	0.02	0.16	0.02
7/30/2022	0	0	0	0	0
7/31/2022	0.28	0.20	0.41	0.21	0.48
TOTAL	6.23	5.26	5.84	8.03	7.61

#### 5.3 Wet Weather Overflows

The wet weather overflow data for this quarter is reported below in the Combined Sewer System Modeled and Metered Quarterly Results table located in Section 5.3 of the September 2022 Report.



# DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY Serving the Public • Protecting the Environment

# Monthly Operations Report For Combined Sewer System

# Month: August 2022

#### **Prepared By:**

District of Columbia Water and Sewer Authority Department of Pumping and Sewer Operations Washington, D.C. 20003

#### DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY Washington, D.C.

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#### 1. INTRODUCTION

The District of Columbia Water and Sewer Authority (DC Water) operates a wastewater collection system comprised of separate and combined sewers. Separate storm and sanitary sewers serve two-thirds of the District. In the combined sewer system (CSS), there is a single sewer to convey storm water and sanitary wastes. The area served by combined sewers comprises about one-third of the District.

During dry weather, sanitary wastes collected in the CSS are conveyed to the DC Water's advanced wastewater treatment plant at Blue Plains (BPAWWTP or the Blue Plains AWWTP). During periods of rainfall, the capacity of a combined sewer may be exceeded and the excess flow, which is a mixture of storm water and sanitary wastes, is discharged directly to the Anacostia River, Rock Creek or the Potomac River or their tributary waters. This report summarizes the operations of the combined sewer system for the month indicated.

#### 2. OPERATION AND MAINTENANCE

#### 2.1 Regulators

Regulators divert combined sewage to interceptors, which convey flow to BPAWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to the tunnel system for temporary storage, and CSO outfalls which discharge to receiving waters. The following table summarizes inspections of CSO regulators in the collection system.

				Co	ndition		
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
2 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
41	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
5 <sup>1</sup>	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	08/12/22	*			
7	W Street and Railroad Ave, SE	005	08/12/22	*			
81	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13th Street and Ridge Place, SE (Diversion Structure)	007	08/12/22	*			
9a	13th Street and Ridge Place, SE (Regulator Structure)	007	08/12/22	*			
9b	11th Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	08/12/22	*			
11	"O" Street Pumping Station	011(a)	08/12/22	*			
12	Storm Pump Discharge at Main Pumping Station	011	08/12/22	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	08/12/22	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	08/12/22	*			
15	South Capitol and E Streets	010	08/12/22	*			
15a	Half and L Streets, SE	010	08/12/22	*			
15b	South Capitol and I Streets	010	08/12/22	*			
15c	South Capitol and I Streets	010	08/12/22	*			

Table 2-1Regulator Structures

				Co	ndition		
Structure		Associated NPDES	Date		Needs	1	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
16	North of Main Sewage Pumping Station	012	08/12/22	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	08/12/22	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE (Side Overflow Weir)	013	08/12/22	*			
17b	4 <sup>th</sup> and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	08/12/22	*			
18	6 <sup>th</sup> and M Streets, SE (Diversion and Overflow Structure)	014	08/12/22	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	08/12/22	*			
19	9 <sup>th</sup> and M Streets, SE	015	08/12/22	*			
19a	9 <sup>th</sup> and M Streets, SE	015	08/12/22	*			
19b	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	08/12/22	*			
19c	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	08/12/22	*			
20	12 <sup>th</sup> and M Streets, SE	016	08/12/22	*			
20a	12 <sup>th</sup> and M Streets, SE	016	08/12/22	*			
20b	12 <sup>th</sup> and M Streets, SE (CSO-016 Diversion Chamber)	016	08/12/22	*			
21	14 <sup>th</sup> and M Streets, SE	017	08/12/22	*			
21a	14 <sup>th</sup> and M Streets, SE (CSO-017 Diversion Chamber)	017	08/12/22	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	08/12/22	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	08/12/22	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	08/12/22	*			
22d	Kentucky Ave and Potomac Street, SE	018	08/12/22	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	08/12/22	*			
23	Independence Ave, 21st Street, SE, Extended	019	08/22/22	*			
24a	East Capitol St, west of RFK stadium	019	08/22/22	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	08/04/22	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	08/04/22	*			
30	17 <sup>th</sup> and D Streets, NW	020	08/04/22	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	08/04/22	*			
33	10 <sup>th</sup> and F Streets, NW	020	08/04/22	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	08/04/22	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	08/04/22	*			
35	Northeast of Roosevelt Bridge, NW	021	08/04/22	*			
35c	Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW	021	08/04/22	*			
36	27 <sup>th</sup> and I Streets, NW	022	08/04/22	*			
36a	New Hampshire Ave and Eye Street, NW	022	08/04/22	*			

				Со	ndition		
Structure		Associated NPDES	Date		Needs	]	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
36b	19th and L Streets, NW	022, 034	08/16/22	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	08/16/22	*			
36g	18th and M Streets, NW	022, 034	08/16/22	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	08/16/22	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	08/04/22	*			
38	29 <sup>th</sup> and K Streets, NW	024	08/04/22	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	08/04/22	*			
39a	30 <sup>th</sup> and K Streets, NW	024	08/04/22	*			
39b	30 <sup>th</sup> and K Streets, NW	024	08/04/22	*			
41b	31 <sup>st</sup> and K Streets, NW	025	08/04/22	*			
41c	31 <sup>st</sup> and K Streets, NW	025	08/04/22	*			
42	Wisconsin Ave and K Street, NW	026	08/04/22	*			
43	Potomac and Water Streets, NW	027	08/04/22	*			
43a	Potomac and Water Streets, NW	027	08/04/22	*			
44	Water Street, west of Potomac St, NW	027	08/04/22	*			
45	36 <sup>th</sup> and M Streets, NW	028	08/04/22	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	08/04/22	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	08/04/22	*			
47a	37 <sup>th</sup> and T Streets, NW	029	08/04/22	*			
47b	37 <sup>th</sup> and T Streets, NW	029	08/04/22	*			
47c	38 <sup>th</sup> and W Streets, NW	029	08/04/22	*			
<b>49</b> <sup>1</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	08/22/22	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	08/22/22	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	08/16/22	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	08/16/22	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	08/16/22	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	08/16/22	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	08/16/22	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	08/04/22	*			
54	23 <sup>rd</sup> and O Streets, NW	034	08/16/22	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	08/16/22	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	08/16/22	*			

				Condition			
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	08/25/22	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	08/16/22	*			
58 <sup>1</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	08/08/22	*			
60	Connecticut Ave, east of Rock Creek, NW	039	08/08/22	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	08/08/22	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	08/11/22	*			
63	Harvard Street and Rock Creek Parkway, NW	042	08/11/22	*			
64	Adams Mill Road, south of Irving Street, NW	043	08/11/22	*			
65	Kenyon Street and Adams Mill Road, NW	044	08/11/22	*			
65a	Kenyon Street and Adams Mill Road, NW	044	08/11/22	*			
66	Adams Mill Road and Lamont Street, NW	045	08/11/22	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	08/10/22	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	08/10/22	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	08/10/22	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	08/10/22	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	08/10/22	*			
71	28th Street, west of Rock Creek Parkway, NW	050	08/19/22	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	08/25/22	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	08/25/22	*			
73	O Street Extended and Rock Creek Parkway, NW	052	08/25/22	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	08/19/22	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	08/19/22	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	08/19/22	*			
$78^{1}$	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	08/25/22	*			
84a	26 <sup>th</sup> and P Streets, NW	060	08/25/22	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	08/22/22	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	08/22/22	*			
89	First and V St, NW (First St Tunnel)	019	08/22/22	*			

				Co	ndition		
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
90	First and V St, NW (First St Tunnel)	019	08/22/22	*			
91	First and V St, NW (First St Tunnel)	019	08/22/22	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	08/22/22	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	08/12/22	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	08/12/22	*			
96	CSO 007 Shaft at 11 <sup>th</sup> St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	08/12/22	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	08/12/22	*			
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 - 012	08/12/22	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	08/12/22	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	08/12/22	*			
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	08/23/22	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	08/23/22	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	08/23/22	*			
104	Poplar Point PS Discharge Chamber	N/A	08/23/22	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	08/23/22	*			

1. Noted structures no longer function as a combined sewer overflow regulator structure.

### 2.2 Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

	0	utfalls and '	Tide	Gates							
				C 11	Tide						
				Nutfall ndition	Ga		Tide Gate Condition		CSO Sign		
NDDEC		D (	0	Needs	Pres	Present?		Needs		Needs	
NPDES Outfall	Location	Date Inspected	ок	Needs Work	Yes	No	ОК	Work	OK		Notes, Work Needed or Performed
U	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A	011		100	110	011		•••		
003a	Joint Base Anacostia Bolling Macdill and Arnold Ave SW	08/23/22	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	08/12/22	*		*		*		*		
0061	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	08/12/22	*		*		*		*		
009	O St. Sewage Pumping Station, SE	08/12/22	*		*		*		*		
010	O St. Sewage Pumping Station, SE	08/12/22	*			*			*		
011	Main Sewage Pumping Station, SE	08/12/22	*			*			*		
011a	Main Sewage Pumping Station, SE	08/12/22	*		*		*		*		
012	Main Sewage Pumping Station, SE	08/12/22	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	08/12/22	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	08/12/22	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	08/12/22	*			*			*		
016	12th and O Streets, SE	08/12/22	*		*		*		*		
017	M and Water Street, SE	08/12/22	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	08/12/22	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	08/22/22	*		*		*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	08/22/22	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	08/04/22	*		*		*		*		
021	Rock Creek Parkway and C St., NW	08/04/22	*		*		*		*		
022	Rock Creek Parkway and G St., NW	08/04/22	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	08/04/22	*		*		*		*		
025	South of 31st and K Streets, NW	08/04/22	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	08/04/22	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	08/04/22	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	08/04/22	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	08/04/22	*			*			*		

Table 2-2Outfalls and Tide Gates

				C 11	Tic			1 0			
				utfall ndition	5		Tide Gate Condition		CSO Sign		
NPDES		Date	0	Needs	Tres					Needs	
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK		Notes, Work Needed or Performed
0	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
	26th and M Street, NW	08/22/22	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	08/22/22	*		*		*		*		
	Just west of St. Francis Jr. High and north of N St., NW	08/16/22	*			*			*		
035	P St. Bridge and Rock Creek Parkway	08/16/22	*			*			*		
036	22nd Street, South of Q Street NW.	08/0822	*		*		*		*		
0371	Waterside Dr. and Rock Creek Parkway	N/A									
	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	08/08/22	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	08/08/22	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	08/08/22	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	08/11/22	*		*		*		*		
042	Harvard St. and Beach Dr NW.	08/11/22	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	08/11/22	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	08/11/22	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	08/11/22	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	08/10/22	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	08/10/22	*		*		*		*		
0.0	South of Piney Branch Parkway and 17th St.	08/10/22	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	08/10/22	*		*		*		*		
050	Rock Creek Parkway and L St., NW	08/19/22	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	08/25/22	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	08/25/22	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	08/19/22	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	08/19/22	*		*		*		*		
0571	28th Street and Rock Creek Parkway, NW	N/A									
0581	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	08/25/22	*		*		*		*		

1. Outfall no longer functions as a combined sewer outfall.

**2.3.1 Pumping Stations** Pumping station operations are summarized in the table below.

Table 2-3
Table 2-3
Dumning Stations Inspections and Equipment in Service
Pumping Stations – Inspections and Equipment in Service

Pumping	No. of	No.	No.	Screens or Pumps			Work Order	
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Number	Schedule to Restore to Service
Main	31	3	4	None	-	_	-	-
Eastside	1	2	4	None	_	_	_	-
Poplar Point	1	2	4	None	_	_	-	-
Potomac	31	4	5	Screen #2	08/01/22-8/02/22	Screen lost a pin which caused the rake to become detached and damaged. Potential cause of lost pin was debris entering pump station.	22-504885	08/02/2022

Tumping Stations Treventive Maintenance								
	Date		Work Order					
Pumping Station	Performed	<i>Type of Preventive Maintenance Performed</i> <sup>1,2</sup>	Number	Comments				
Main	8/9/22	Group A	22-507041	Add oil, grease bearings and replace packing if needed.				
O St	8/9/22	Group A	22-534822	Add oil, grease bearings and replace packing if needed.				
Eastside	8/15/22	Group A	22-480205	Add oil, grease bearings and replace packing if needed.				
Poplar Point	8/15/22	Group A	22-511797	Add oil, grease bearings and replace packing if needed.				
Potomac	8/9/22	Group A	22-483693	Add oil, grease bearings and replace packing if needed.				
Rock Creek	8/16/22	Group A	22-460788	Add oil, grease bearings and replace packing if needed.				
Upper Anacostia	8/16/22	Group A	22-512477	Add oil, grease bearings and replace packing if needed.				
Earl Place	8/18/22	Group A	22-487754	Add oil, grease bearings and replace packing if needed.				
1 <sup>st</sup> Street Tunnel Dewatering	8/25/22	Group B	22-520407					

 Table 2-4

 Pumping Stations – Preventive Maintenance

1. Group A consists of:

a. Exercise bar screens

b. Exercise all sump pumps

c. Drain condensation from air compressor storage tank

d. Check depth of screening in the screen room and schedule Vactor truck as required

e. Check all safety equipment

f. Issue work order requests as required

#### 2. Group B consists of:

a. Inspect and manually run CSO Pumps

- b. Generator:
  - i. Inspection operation and test, inspect oil level, inspect coolant level
- c. MCC:
  - i. Test gas monitoring system
  - ii. Inspect and test level indicators
- d. Valve Vault
  - i. Lubricate knife gate valve stem and stem nut
  - ii. Flush air and vacuum release valve

		i umpn	ig Stations – I unipage			
		nitary npage	Screenings Collected (tons) <sup>1</sup>	Pumpage of CSO from First Street Tunnel back to Sewer System		
Pumping Station	Total Wastewater (mg)	Daily Average Wastewater (mg)		Date	Volume (mg)	
Main <sup>1,2</sup>	1590.8	51.316	N/A	N/A	N/A	
O St <sup>1,2</sup>	155.09	5.0029	N/A	N/A	N/A	
Eastside	152.20	4.9097	N/A	N/A	N/A	
Poplar Point	154.89	4.9965	N/A	N/A	N/A	
Potomac	3610.7	116.47	N/A	N/A	N/A	
Rock Creek	146.18	4.7155	N/A	N/A	N/A	
Upper Anacostia	41.872	1.3507	N/A	N/A	N/A	
Earl Place	0.2928	0.0094452	N/A	N/A	N/A	
1 <sup>st</sup> Street Tunnel Dewatering	N/A	N/A	N/A	Note 3	Note 3	

Table 2-5 Pumping Stations – Pumpage

- 1. Screenings collected from the Main and O Street Pumping Stations are combined from the sanitary flow and combined sewer overflows, due to the design of the screening system that consists of vertical trash racks, with no mechanical cleaning. Therefore, quantification of captured screening materials, specifically from combined sewer overflows, is not feasible.
- 2. Flow meters have been installed in accordance with NPDES Permit No. DC002199 to record CSO discharges from Main and O Street Pumping Stations. This data is reported via Discharge Monitoring Reports submitted to the EPA on a monthly basis. A summary of metered and modeled CSO discharges is included in Section 5.
- 3. Pump data indicate activity on seven occurrences in the month of August: 205 minutes on 8/1/2022, 120 minutes on 8/2/2022, 89 minutes on 8/4/2022, 626 minutes on 8/5/2022, 395 minutes on 8/10/2022, 632 minutes on 8/11/2022, and 60 minutes on 8/24/20. The flow meter for the pumping station was found to be defective and did not record discharges. DC Water is in the process of replacing the defective flow meter. In the interim, the flow will be estimated based on pump run times and pump capacity. \*\*The estimated volume is 4.66 MG for the month of August 2022."

#### 2.4 Inflatable Dams and SCADA System

DC Water operates and maintains nine inflatable dams at seven different locations. Table 2-6 summarizes the date(s) the inflatable dams were inspected, and their operational status and condition. The inflatable dams consist of multi-ply elastomeric (i.e., "rubber") fabric dams installed in major overflow conduits within the combined sewer system. The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflows occur. The effect of the installation is to retain a greater volume of combined sewage flow resulting from low to moderate intensity storms by maximizing storage within the CSS. During higher intensity storms, when the full carrying capacity of the overflow conduit is required to prevent upstream flooding, the dam is deflated automatically. Inflatable dam operations are summarized below:

Inflatable Dam		Was Dam Out of Service			
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Schedule to Restore to Service
14 - East	08/24/22	No	N/A	N/A	N/A
14 - West	08/24/22	No	N/A	N/A	N/A
15	8/8/22	Yes	8/8/22	Note 1	8/8/22
15	8/18/22	No	N/A	N/A	N/A
15A	8/8/22	Yes	8/8/22	Note 1	8/8/22
	8/18/22	No	N/A	N/A	N/A
16 – East	8/11/22	Yes	8/11/22	Note 3	8/11/22
	8/24/22	No	N/A	N/A	N/A
16 – West	8/11/22	Yes	8/11/22	Note 3	8/11/22
	8/24/22	No	N/A	N/A	N/A
34	8/12/22	Yes	8/12/22	Note 4	8/12/22
	8/18/22	No	N/A	N/A	N/A
	8/23/22	Yes	8/23/22	Note 5	8/23/22
	8/30/22	Yes	8/30/22	Note 6	8/30/22
	8/31/22	Yes	8/31/22	Note 7	8/31/22
35	08/9/22	No	8/9/22	Note 2	8/9/22
	8/18/22	No	N/A	N/A	N/A
52	8/9/22	No	8/9/22	Note 2	8/9/22
	8/18/22	No	N/A	N/A	N/A

 Table 2-6

 Inflatable Dams – Inspections and Equipment in Service

1. On 08/08/2022 Structures 15 and 15A were manually deflated during routine preventative maintenance performed by Instrumentation. The structure was returned to service within 1 hour. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.

2. On 08/09/20222 Structures 35 and 52 were manually deflated during routine preventative maintenance performed by Instrumentation. The structures were returned to service within 1 hour. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.

3. On 08/11/2022 Structures 16 East and 16 West were manually deflated during routine preventative maintenance performed by Instrumentation. The structures were returned to service within 1 hour. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.

4. On 08/12/2022 Structure 34 was manually deflated during routine preventative maintenance performed by Instrumentation. The structure was returned to service within 1 hour. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.
- 5. On 08/23/2022 Structure 34 deflated due to a fault in BFV-4. Electrical was notified and the blower belt was replaced. The structure was returned to service within 1 hour. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.
- 6. On 08/30/2022 Structure 34 deflated due to over torque in BFV- 4. Electrical was notified and the structure was returned to service within 3 hours. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.
- 7. On 08/31/2022 Structure 34 was taken out of service due to corrective maintenance of the BFV-4. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold. The structure was returned to service within 1 hour.

	IIIIataD	ie Dams & SCADA Sites - wet weather Operations	
Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow	Inflatable Dam Operational Status
14 (E & W)	8/10/22	12mins 30secs	Deflated
15	8/2/22	4mins 0secs	Deflated
	8/10/22	5mins 0secs	Deflated
15A	8/10/22	25mins 12secs	Deflated
16 (E & W)	8/2/22	15mins 52secs	Deflated
	8/10/22	33mins 16secs	Deflated
34	8/2/22	2mins 15secs	Deflated
	8/4/22	7mins 6secs	Deflated
	8/10/22	23mins Osecs	Deflated
35	8/4/22	48mins 18secs	Deflated
	8/5/22	5mins 29secs	Deflated
	8/10/22	47mins 18secs	Deflated
52	8/4/22	3mins 42secs	Deflated
	8/10/22	2mins 52secs	Deflated
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow	
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.	
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.	
Outfall Structure 2	None	N/A	N/A
Outfall Sewer Control Gates	<b>Operational Status</b>	Position	]
Outfall Sewer Control Gate No.1	Operational	Open	
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible	
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible	

 Table 2-7

 Inflatable Dams & SCADA Sites - Wet Weather Operations

### **3.** DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow reported during August 2022.

# 4. SOLIDS AND FLOATABLES CONTROL

# 4.1 Catch Basin Cleaning

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The following tables summarize catch basin cleaning in the Anacostia CSO area and in the entire sewer system:

				Inspections	1	Cleaning							
			CBs in	Total Total Anacostia Anacostia CBs Cleaned Thru CBs CBs Last Month				Cleaned Month	Total CBs This Year				
		CBs in	Anacostia	Inspected Once this	Inspected Twice this								
Ward	Total CBs	CSS	CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS		
1	1449	1426	652	652	330	378	361	572	570	950	931		
2	2792	2642	476	476	77	1564	1420	215	215	1779	1635		
3	3687	187	0	0	0	3549	160	4	1	3553	161		
4	3495	1723	0	0	0	2523	926	337	334	2860	1260		
5	4007	1769	1692	1692	326	2002	108	370	317	2372	425		
6	3316	2666	2647	2635	159	828	218	67	67	895	285		
7	3785	43	41	41	0	1457	0	8	0	1465	0		
8	2832	212	209	198	10	1469	10	9	0	1478	10		
Grand Total	25363 <sup>1</sup>	<b>10668</b> <sup>1</sup>	5717 <sup>1</sup>	5694	902	13770	3203	1582	1504	15352	4707		
% Cleaned/Inspected to Date				99%	16%					61%	44%		

# Table 4-1Catch Basin Cleaning

Notes:

1. The number of catch basins in our service area changes with the ongoing connections and abandonments to the sewer infrastructure.

#### 4.2 BMP Demonstration for Solid and Floatable Control

DC WATER operates the following demonstration projects designed to remove solids and floatables from CSO prior to discharge.

## • Bar Rack at CSO 040 and 041 to Rock Creek

# Table 4-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (LB)
Bar Rack CSO 040	08/08/22	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	08/11/22	Good	None	Routine Cleaning	(1)

Notes:

 $\overline{(1)}$  System was designed so that captured solids and floatables are conveyed to Blue Plains for treatment.

#### 4.3 Anacostia River Floating Debris Removal Program

This program was initiated in October 1992 to remove floating debris from Anacostia and Potomac Rivers on a routine basis. The program has continued from that time and is now under the auspices of DC WATER, Department of Sewer Operations. The floating debris removal program utilizes a skimmer boat and support boats to remove floatable debris from the Rivers as well as trash, which accumulates on the riverbanks and in the mud flats at low tides. Work for the most part is directed toward the Anacostia River. The boats pick up debris five days a week. Operations are summarized as follows:

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	23
Days not Operating	11
Reason not Operating	Maintenance, wind, low water levels.
# Skimmer in Fleet	3 Skimmers
# Skimmers Out of Service	2 Skimmers
Dates	B32: 8/1 - 8/30, B34: 8/1 - 8/31.
Reason	B32: hydraulic oil leak from under operating cabin.
	B34: number one screen failure.
Plan to Restore to Service	B32: returned to operations on 8/31.
	B34: waiting for parts, ETR September 2022.
Amount Material Collected	25 tons this month. Calendar year to date 125 tons.
Nature of Material	Bottles, cans, natural debris and plastics.

# Table 4-3 Anacostia River Floating Debris Removal Program – Summary

#### 4.4 CSS Litter Control

This section describes DC WATER's efforts to coordinate litter control efforts with the National Park Service and D.C. Department of Public Works to maximize litter control efforts in the combined sewer system.

No Activity this month.

# 5. MONITORING

# 5.1 Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Table 5-1
Bar Racks at Main & O Street Pumping Stations

	Date	Cond	lition	Work Order		Work Performed or
Pumping Station	Inspected	Good	Needs Work	Number	Work Needed	Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	8/23/22	Х		22-532411		
Bar Racks at Main Storm Pumps (CSO 011)	8/23/22	Х		22-532404		

# 5.2 Rain Data

Rain data from National Airport and from the rain gauges installed in the CSS are summarized below.

Date	Brentwood Pumping Station	Bryant Street Pumping Station	Main Pumping Station	Rock Creek Pumping Station	National Airport
8/1/2022	0	0	0.02	0.01	0.51
8/2/2022	0.47	0.34	1.10	0.40	0
8/3/2022	0	0	0	0	0
8/4/2022	1.72	1.64	0.87	1.58	0.93
8/5/2022	0.94	0.25	0.18	0.36	0
8/6/2022	0	0	0	0	0
8/7/2022	0	0	0	0	0
8/8/2022	0	0.01	0.05	0	0
8/9/2022	0	0	0	0	0
8/10/2022	2.66	1.79	1.44	0.60	0.52
8/11/2022	0	0	0	0	0
8/12/2022	0	0	0	0	0
8/13/2022	0	0	0	0	0
8/14/2022	0.02	0.04	0.06	0.06	0.12
8/15/2022	0.05	0.04	0.05	0.05	0.01
8/16/2022	0	0	0	0	0
8/17/2022	0.73	0.06	0.01	0.01	0
8/18/2022	0	0	0	0	0
8/19/2022	0	0	0	0	0
8/20/2022	0	0	0	0	0
8/21/2022	0.68	0.15	0.29	0.15	0.16
8/22/2022	0.18	0.23	0.09	0.34	0.03
8/23/2022	0	0	0	0	0
8/24/2022	0	0	0	0	0
8/25/2022	0	0.05	0	0.01	0
8/26/2022	0	0	0	0	0
8/27/2022	0	0	0	0	0
8/28/2022	0	0	0	0	0
8/29/2022	0	0	0	0	0
8/30/2022	0.23	0.26	0.19	0.43	0.14
8/31/2022	0	0	0	0	0
TOTAL	7.68	4.86	4.35	4.00	2.42

# 5.3 Wet Weather Overflows

The wet weather overflow data for this quarter is reported below in the Combined Sewer System Modeled and Metered Quarterly Results table located in Section 5.3 of the September 2022 Report.



# DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY Serving the Public • Protecting the Environment

# Monthly Operations Report For Combined Sewer System

# Month: September 2022

#### Prepared By:

District of Columbia Water and Sewer Authority Department of Pumping and Sewer Operations Washington, D.C. 20003

### DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY Washington, D.C.

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#### **3. DRY WEATHER OVERFLOWS**

#### 4. SOLIDS AND FLOATABLES CONTROL

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- 5.3 Wet Weather Overflows

# 1. INTRODUCTION

The District of Columbia Water and Sewer Authority (DC Water) operates a wastewater collection system comprised of separate and combined sewers. Separate storm and sanitary sewers serve two-thirds of the District. In the combined sewer system (CSS), there is a single sewer to convey storm water and sanitary wastes. The area served by combined sewers comprises about one-third of the District.

During dry weather, sanitary wastes collected in the CSS are conveyed to the DC Water's advanced wastewater treatment plant at Blue Plains (BPAWWTP or the Blue Plains AWWTP). During periods of rainfall, the capacity of a combined sewer may be exceeded and the excess flow, which is a mixture of storm water and sanitary wastes, is discharged directly to the Anacostia River, Rock Creek or the Potomac River or their tributary waters. This report summarizes the operations of the combined sewer system for the month indicated.

### 2. OPERATION AND MAINTENANCE

#### 2.1 Regulators

Regulators divert combined sewage to interceptors, which convey flow to BPAWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to the tunnel system for temporary storage, and CSO outfalls which discharge to receiving waters. The following table summarizes inspections of CSO regulators in the collection system.

				Со	ndition		
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
2 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
41	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
5 <sup>1</sup>	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	09/15/22	*			
7	W Street and Railroad Ave, SE	005	09/15/22	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13th Street and Ridge Place, SE (Diversion Structure)	007	09/15/22	*			
9a	13 <sup>th</sup> Street and Ridge Place, SE (Regulator Structure)	007	09/15/22	*			
9b	11th Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	09/15/22	*			
11	"O" Street Pumping Station	011(a)	09/19/22	*			
12	Storm Pump Discharge at Main Pumping Station	011	09/01/22	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	09/14/22	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	09/14/22	*			
15	South Capitol and E Streets	010	09/14/22	*			
15a	Half and L Streets, SE	010	09/14/22	*			
15b	South Capitol and I Streets	010	09/02/22	*			
15c	South Capitol and I Streets	010	09/02/22	*			

Table 2-1Regulator Structures

				Co	ndition		
Structure		Associated NPDES	Date		Needs	1	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
16	North of Main Sewage Pumping Station	012	09/14/22	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	09/12/22	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE (Side Overflow Weir)	013	09/13/22	*			
17b	4 <sup>th</sup> and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	09/13/22	*			
18	6 <sup>th</sup> and M Streets, SE (Diversion and Overflow Structure)	014	09/16/22	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	09/12/22	*			
19	9 <sup>th</sup> and M Streets, SE	015	09/13/22	*			
19a	9 <sup>th</sup> and M Streets, SE	015	09/13/22	*			
19b	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	09/13/22	*			
19c	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	09/13/22	*			
20	12 <sup>th</sup> and M Streets, SE	016	09/13/22	*			
20a	12 <sup>th</sup> and M Streets, SE	016	09/13/22	*			
20b	12 <sup>th</sup> and M Streets, SE (CSO-016 Diversion Chamber)	016	09/13/22	*			
21	14 <sup>th</sup> and M Streets, SE	017	09/13/22	*			
21a	14 <sup>th</sup> and M Streets, SE (CSO-017 Diversion Chamber)	017	09/13/22	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	09/12/22	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	09/12/22	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	09/12/22	*			
22d	Kentucky Ave and Potomac Street, SE	018	09/12/22	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	09/12/22	*			
23	Independence Ave, 21st Street, SE, Extended	019	09/13/22	*			
24a	East Capitol St, west of RFK stadium	019	09/13/22	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	09/12/22	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	09/12/22	*			
30	17 <sup>th</sup> and D Streets, NW	020	09/12/22	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	09/12/22	*			
33	10 <sup>th</sup> and F Streets, NW	020	09/12/22	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	09/08/22	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	09/12/22	*			
35	Northeast of Roosevelt Bridge, NW	021	09/08/22	*			
35c	Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW	021	09/09/22	*			
36	27 <sup>th</sup> and I Streets, NW	022	09/12/22	*			
36a	New Hampshire Ave and Eye Street, NW	022	09/12/22	*			

				Со	ndition		
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
36b	19th and L Streets, NW	022, 034	09/02/22	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	09/02/22	*			
36g	18th and M Streets, NW	022, 034	09/02/22	*			
36h	18th and M Streets, NW	022, 034	09/02/22	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	09/12/22	*			
38	29 <sup>th</sup> and K Streets, NW	024	09/02/22	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	09/02/22	*			
39a	30 <sup>th</sup> and K Streets, NW	024	09/02/22	*			
39b	30 <sup>th</sup> and K Streets, NW	024	09/02/22	*			
41b	31 <sup>st</sup> and K Streets, NW	025	09/02/22	*			
41c	31 <sup>st</sup> and K Streets, NW	025	09/02/22	*			
42	Wisconsin Ave and K Street, NW	026	09/02/22	*			
43	Potomac and Water Streets, NW	027	09/02/22	*			
43a	Potomac and Water Streets, NW	027	09/02/22	*			
44	Water Street, west of Potomac St, NW	027	09/02/22	*			
45	36 <sup>th</sup> and M Streets, NW	028	09/09/22	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	09/09/22	*			
47	38th Street and Reservoir Road, NW	029	09/09/22	*			
47a	37 <sup>th</sup> and T Streets, NW	029	09/09/22	*			
47b	37 <sup>th</sup> and T Streets, NW	029	09/09/22	*			
47c	38 <sup>th</sup> and W Streets, NW	029	09/09/22	*			
49 <sup>1</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	09/16/22	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	09/16/22	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	09/08/22	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	09/09/22	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	09/09/22	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	09/09/22	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	09/12/22	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	09/12/22	*			
54	23 <sup>rd</sup> and O Streets, NW	034	09/06/22	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	09/06/22	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	09/06/22	*			

				Со	ondition		
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	09/06/22	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	09/06/22	*			
58 <sup>1</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	09/09/22	*			
60	Connecticut Ave, east of Rock Creek, NW	039	09/09/22	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	09/09/22	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	09/07/22	*			
63	Harvard Street and Rock Creek Parkway, NW	042	09/07/22	*			
64	Adams Mill Road, south of Irving Street, NW	043	09/07/22	*			
65	Kenyon Street and Adams Mill Road, NW	044	09/07/22	*			
65a	Kenyon Street and Adams Mill Road, NW	044	09/07/22	*			
66	Adams Mill Road and Lamont Street, NW	045	09/07/22	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	09/07/22	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	09/07/22	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	09/07/22	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	09/07/22	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	09/09/22	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	09/09/22	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	09/06/22	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	09/06/22	*			
73	O Street Extended and Rock Creek Parkway, NW	052	09/06/22	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	09/16/22	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	09/16/22	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	09/16/22	*			
781	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	09/06/22	*			
84a	26 <sup>th</sup> and P Streets, NW	060	09/06/22	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	09/09/22	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	09/09/22	*			
89	First and V St, NW (First St Tunnel)	019	09/09/22	*			

				Co	ondition		
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
90	First and V St, NW (First St Tunnel)	019	09/09/22	*			
91	First and V St, NW (First St Tunnel)	019	09/09/22	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	09/20/22	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	09/20/22	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	09/13/22	*			
96	CSO 007 Shaft at 11 <sup>th</sup> St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	09/15/22	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	09/15/22	*			
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 - 012	09/14/22	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	09/14/22	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	09/14/22	*			
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	09/15/22	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	09/15/22	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	09/15/22	*			
104	Poplar Point PS Discharge Chamber	N/A	09/15/22	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	09/16/22	*			

1. Noted structures no longer function as a combined sewer overflow regulator structure.

# 2.2 Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

	0	utfalls and '	Tide	Gates							
				11	Tide						
				Outfall Condition		Gate Present?		e Gate ndition	CS	O Sign	
NPDES		Data		Needs	rres		0	Needs	CS	Needs	
Outfall	Location	Date Inspected	OK		Yes	No	ОК	Work	ОК		Notes, Work Needed or Performed
- V	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A	011		100	1.0	011		011		
003a	Joint Base Anacostia Bolling Macdill and Arnold Ave SW	09/16/22	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	09/01/22	*		*		*		*		
0061	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	09/01/22	*		*		*		*		
	O St. Sewage Pumping Station, SE	09/01/22	*		*		*		*		
010	O St. Sewage Pumping Station, SE	09/01/22	*			*			*		
011	Main Sewage Pumping Station, SE	09/01/22	*			*			*		
011a	Main Sewage Pumping Station, SE	09/01/22	*		*		*		*		
012	Main Sewage Pumping Station, SE	09/01/22	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	09/01/22	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	09/01/22	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	09/01/22	*			*			*		
016	12th and O Streets, SE	09/01/22	*		*		*		*		
017	M and Water Street, SE	09/01/22	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	09/01/22	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	09/20/22	*		*		*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	09/20/22	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	09/22/22	*		*		*		*		
021	Rock Creek Parkway and C St., NW	09/22/22	*		*		*		*		
022	Rock Creek Parkway and G St., NW	09/22/22	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	09/22/22	*		*		*		*		
025	South of 31st and K Streets, NW	09/22/22	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	09/22/22	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	09/22/22	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	09/22/22	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	09/22/22	*			*			*		

Table 2-2Outfalls and Tide Gates

					Tic						
				Nutfall ndition	Ga Pres			le Gate ndition	CS	O Sign	
NPDES		Date	0	Needs	1705		0	Needs	CS	Needs	
Outfall	Location	Inspected	OK	Work	Yes	No	ок	Work	OK		Notes, Work Needed or Performed
0	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
	26th and M Street, NW	09/16/22	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	09/16/22	*		*		*		*		
	Just west of St. Francis Jr. High and north of N St., NW	09/06/22	*			*			*		
035	P St. Bridge and Rock Creek Parkway	09/06/22	*			*			*		
036	22nd Street, South of Q Street NW.	09/19/22	*		*		*		*		
0371	Waterside Dr. and Rock Creek Parkway	N/A									
	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	09/09/22	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	09/09/22	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	09/09/22	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	09/19/22	*		*		*		*		
042	Harvard St. and Beach Dr NW.	09/19/22	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	09/19/22	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	09/19/22	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	09/19/22	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	09/07/22	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	09/07/22	*		*		*		*		
0.0	South of Piney Branch Parkway and 17th St.	09/07/22	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	09/07/22	*		*		*		*		
050	Rock Creek Parkway and L St., NW	09/21/22	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	09/21/22	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	09/21/22	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	09/16/22	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	09/16/22	*		*		*		*		
0571	28th Street and Rock Creek Parkway, NW	N/A									
0581	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	09/19/22	*		*		*		*		

1. Outfall no longer functions as a combined sewer outfall.

# 2.3.1 Pumping Stations

Pumping station operations are summarized in the table below.

 Table 2-3

 Pumping Stations – Inspections and Equipment in Service

Pumping	No. of	No.	No.	Screens or Pumps		D	Work Order	
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Number	Schedule to Restore to Service
Main	30	3	4	None				
					-	-	-	-
Eastside	1	2	4	None				
					-	-	-	-
Poplar Point	1	2	4	None				
					-	-	-	-
Potomac	30	4	5	None				
					-	-	-	-

	Date		Work Order							
Pumping Station	Performed	<i>Type of Preventive Maintenance Performed</i> <sup>1,2</sup>	Number	Comments						
Main	09/26/22	Group A	22-565942	Add oil, grease bearings and replace packing if needed.						
O St	09/20/22	Group A	22-588374	Add oil, grease bearings and replace packing if needed.						
Eastside	09/21/22	Group A	22-520502	Add oil, grease bearings and replace packing if needed.						
Poplar Point	09/21/22	Group A	22-569806	Add oil, grease bearings and replace packing if needed.						
Potomac	09/27/22	Group A	22-526114	Add oil, grease bearings and replace packing if needed.						
Rock Creek	09/21/22	Group A	22-512390	Add oil, grease bearings and replace packing if needed.						
Upper Anacostia	09/20/22	Group A	22-569869	Add oil, grease bearings and replace packing if needed.						
Earl Place	09/22/22	Group A	22-540258	Add oil, grease bearings and replace packing if needed.						
1 <sup>st</sup> Street Tunnel Dewatering	09/22/22	Group B	22-563980							

 Table 2-4

 Pumping Stations – Preventive Maintenance

1. Group A consists of:

a. Exercise bar screens

b. Exercise all sump pumps

c. Drain condensation from air compressor storage tank

d. Check depth of screening in the screen room and schedule Vactor truck as required

e. Check all safety equipment

f. Issue work order requests as required

#### 2. Group B consists of:

a. Inspect and manually run CSO Pumps

- b. Generator:
  - i. Inspection operation and test, inspect oil level, inspect coolant level
- c. MCC:
  - i. Test gas monitoring system
  - ii. Inspect and test level indicators
- d. Valve Vault
  - i. Lubricate knife gate valve stem and stem nut
  - ii. Flush air and vacuum release valve

		i umpn	ig Stations – i unipage		
		nitary npage	Screenings Collected (tons) <sup>1</sup>	First St	of CSO from reet Tunnel ewer System
Pumping Station	Total Wastewater (mg)	Daily Average Wastewater (mg)		Date	Volume (mg)
Main <sup>1,2</sup>	1377.49	45.92	N/A	N/A	N/A
O St <sup>1,2</sup>	134.72	4.491	N/A	N/A	N/A
Eastside	220.23	7.341	N/A	N/A	N/A
Poplar Point	140.39	4.680	N/A	N/A	N/A
Potomac	3322.08	110.74	N/A	N/A	N/A
Rock Creek	141.46	4.715	N/A	N/A	N/A
Upper Anacostia	37.10	1.236	N/A	N/A	N/A
Earl Place	0.4567	0.01522	N/A	N/A	N/A
1 <sup>st</sup> Street Tunnel Dewatering	N/A	N/A	N/A	Note 3	Note 3

Table 2-5 Pumping Stations – Pumpage

- 1. Screenings collected from the Main and O Street Pumping Stations are combined from the sanitary flow and combined sewer overflows, due to the design of the screening system that consists of vertical trash racks, with no mechanical cleaning. Therefore, quantification of captured screening materials, specifically from combined sewer overflows, is not feasible.
- 2. Flow meters have been installed in accordance with NPDES Permit No. DC002199 to record CSO discharges from Main and O Street Pumping Stations. This data is reported via Discharge Monitoring Reports submitted to the EPA on a monthly basis. A summary of metered and modeled CSO discharges is included in Section 5.
- 3. Pump data indicate activity on three occurrences in the month of September: 109 minutes on 9/6/2022, 72 minutes on 9/11/2022, and 78 minutes on 9/25/2022. DC Water is in the process of replacing the defective flow meter. In the interim, the flow will be estimated based on pump run times and pump capacity. \*\*The estimated volume is 0.5698 MG for the month of September 2022."

#### 2.4 Inflatable Dams and SCADA System

DC Water operates and maintains nine inflatable dams at seven different locations. Table 2-6 summarizes the date(s) the inflatable dams were inspected, and their operational status and condition. The inflatable dams consist of multi-ply elastomeric (i.e., "rubber") fabric dams installed in major overflow conduits within the combined sewer system. The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflows occur. The effect of the installation is to retain a greater volume of combined sewage flow resulting from low to moderate intensity storms by maximizing storage within the CSS. During higher intensity storms, when the full carrying capacity of the overflow conduit is required to prevent upstream flooding, the dam is deflated automatically. Inflatable dam operations are summarized below:

Inflatable Dam		Was Dam Out of Service			
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Schedule to Restore to Service
14 - East	09/14/22	No	N/A	N/A	N/A
14 - West	09/14/22	No	N/A	N/A	N/A
15	09/14/22	No	N/A	N/A	N/A
15A	09/14/22	No	N/A	N/A	N/A
16 – East	09/06/22	Yes	9/06/22	Note 1	9/06/22
	09/14/22	No	N/A	N/A	N/A
16 - West	09/06/22	Yes	9/06/22	Note 1	9/06/22
	09/14/22	No	N/A	N/A	N/A
34	09/08/22	No	N/A	N/A	N/A
35	09/08/22	No	N/A	N/A	N/A
52	09/08/22	No	N/A	N/A	N/A

 Table 2-6

 Inflatable Dams – Inspections and Equipment in Service

1. On 09/06/2022 Structures 16 East and 16 West were deflated due to a level sensor being knocked loose. The structures were returned to service within 24 hours. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.

Innatable Danis & SCADA Sites - wet weather Operations										
Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow	Inflatable Dam Operational Status							
14 (E & W)	None	N/A	Inflated							
15	None	N/A	Inflated							
15A	None	N/A	Inflated							
16 (E & W)	None	N/A	Inflated							
34	None	N/A	Inflated							
35	09/11/22	Ohrs, 8mins	Deflated							
52	None	N/A	Inflated							
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow								
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.								
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.								
Outfall Structure 2	None	N/A	N/A							
Outfall Sewer Control Gates	<b>Operational Status</b>	Position								
Outfall Sewer Control Gate No.1	Operational	Open								
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible								
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible								

 Table 2-7

 Inflatable Dams & SCADA Sites - Wet Weather Operations

# 3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow reported during September 2022.

# 4. SOLIDS AND FLOATABLES CONTROL

# 4.1 Catch Basin Cleaning

The following tables summarize catch basin cleaning in the Anacostia CSO area and in the entire sewer system:

				Inspections				Clea	ning		
				Total	Total						
				Anacostia	Anacostia	CBs Clear	ned Thru	CB's Cleaned This Month		Total CBs Cleaned This Year to Date	
				CBs	CBs	Last N	<i>Ionth</i>				
		CD ·	CBs in	Inspected	Inspected						
Waad	Tetal CDa	CBs in	Anacostia	Once this	Twice this	T-4-1		T-4-1	L. COC	T-4-1	L. CCC
Ward	Total CBs	CSS	CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1449	1426	652	652	620	950	931	357	357	1307	1288
2	2792	2642	476	476	275	1779	1635	475	461	2254	2096
3	3687	187	0	0	0	3553	161	60	15	3613	176
4	3495	1723	0	0	0	2860	1260	111	108	2971	1368
5	4007	1769	1692	1692	704	2372	425	421	398	2793	823
6	3316	2666	2647	2647	450	895	285	440	401	1335	686
7	3785	43	41	41	1	1465	0	34	1	1499	1
8	2832	212	209	209	195	1478	10	205	195	1683	205
Grand Total	25363 <sup>1</sup>	<b>10668</b> <sup>1</sup>	5717 <sup>1</sup>	5717	2245	15352	4707	2103	1936	17455	6643
% Cleaned/Inspected to Date				100%	39%					69%	62%

# Table 4-1Catch Basin Cleaning

Notes:

1. The number of catch basins in our service area changes with the ongoing connections and abandonments to the sewer infrastructure.

# 4.2 BMP Demonstration for Solid and Floatable Control

DC WATER operates the following demonstration projects designed to remove solids and floatables from CSO prior to discharge.

• Bar Rack at CSO 040 and 041 to Rock Creek

Table 4-2	
<b>BMP Demonstration Projects – Repor</b>	t

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (LB)
Bar Rack CSO 040	09/09/22	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	09/07/22	Good	None	Routine Cleaning	(1)

Notes:

 $\overline{(1)}$  System was designed so that captured solids and floatables are conveyed to Blue Plains for treatment.

# 4.3 Anacostia River Floating Debris Removal Program

This program was initiated in October 1992 to remove floating debris from Anacostia and Potomac Rivers on a routine basis. The program has continued from that time and is now under the auspices of DC WATER, Department of Sewer Operations. The floating debris removal program utilizes a skimmer boat and support boats to remove floatable debris from the Rivers as well as trash, which accumulates on the riverbanks and in the mud flats at low tides. Work for the most part is directed toward the Anacostia River. The boats pick up debris five days a week. Operations are summarized as follows:

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	21
Days not Operating	14
Reason not Operating	Maintenance, wind, low water levels.
# Skimmer in Fleet	3 Skimmers
# Skimmers Out of Service	3 Skimmers
Dates	B32: 9/7 - 9/30. B33: 9/7 - 9/30. B34: 9/1 - 9/14 and 9/15 -
	9/30.
Reason	B32: Hydraulic cylinder failure on propulsion assembly.
	B33: Number 3 screen failure and number one ram failure.
	B34: Number 1 screen failure and engine fault.
Plan to Restore to Service	B32: Parts on hand ETR early October 2022.
	B33: Parts on hand ETR early October 2022.
	B34: Troubleshooting in progress. ETR October 2022.
Amount Material Collected	10 tons this month. Calendar year to date 135 tons.
Nature of Material	Bottles, cans, natural debris and plastics.

 Table 4-3

 Anacostia River Floating Debris Removal Program – Summary

#### 4.4 CSS Litter Control

This section describes DC WATER's efforts to coordinate litter control efforts with the National Park Service and D.C. Department of Public Works to maximize litter control efforts in the combined sewer system.

No Activity this month.

### 5. MONITORING

### 5.1 Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

	Date	Condition		Work Order		Work Performed or
Pumping Station	Inspected	Good	Needs Work	Number	Work Needed	Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	9/21/22	Х		22-585109		
Bar Racks at Main Storm Pumps (CSO 011)	9/20/22	Х		22-585102		

Table 5-1Bar Racks at Main & O Street Pumping Stations

# 5.2 Rain Data

Rain data from National Airport and from the rain gauges installed in the CSS are summarized below.

Date	Brentwood Pumping Station	Bryant Street Pumping Station	Main Pumping Station	Rock Creek Pumping Station	National Airport
9/1/2022	0	0	0	0	0
9/2/2022	0	0	0	0	0
9/3/2022	0	0	0	0	0
9/4/2022	0	0	0	0	0
9/5/2022	0	0.05	0.01	0.21	0.09
9/6/2022	0.65	0.71	0.72	0.43	0.82
9/7/2022	0.03	0.05	0.04	0.13	0.02
9/8/2022	0	0	0	0.05	0
9/9/2022	0	0	0	0.03	0
9/10/2022	0	0	0	0	0
9/11/2022	0.86	1.09	0.79	0.02	0.86
9/12/2022	0.07	0.06	0.11	0.01	0.11
9/13/2022	0	0.01	0	0.02	0
9/14/2022	0	0	0	0	0
9/15/2022	0	0	0	0	0
9/16/2022	0	0	0	0	0
9/17/2022	0	0	0	0	0
9/18/2022	0	0	0	0	0
9/19/2022	0	0	0	0	0
9/20/2022	0	0	0	0	0
9/21/2022	0	0	0	0	0
9/22/2022	0.01	0.01	0.02	0.01	0.04
9/23/2022	0	0	0	0	0
9/24/2022	0	0	0	0	0
9/25/2022	0	0	0	0.01	0.01
9/26/2022	0	0	0	0	0
9/27/2022	0	0	0	0	0
9/28/2022	0	0	0	0	0
9/29/2022	0	0	0	0	0
9/30/2022	0.14	0.18	0.22	0.20	0.32
TOTAL	1.76	2.16	1.91	1.12	2.27

# 5.3 Wet Weather Overflows

The wet weather overflow data for this quarter is reported below in the Combined Sewer System Modeled and Metered Quarterly Results table located in Section 5.3 of the September 2022 Report.

#### District of Columbia Water and Sewer Authority Combined Sewer System Modeled and Metered Quarterly Results Period: July through September 2022

SCENARIO: QuarterlyReport 2022Q3 Sep, created on 6 Oct 2022 CSO Total Maximum Minimum Ava Number of Overflow Duration of Duration of Duration of Duration of NPDES No Overflows Description Data Sourc Overflow Volume Overflow Overflow Overflow (Occurrences (ma)(hrs) (hrs) (hrs) (hrs) Anacostia CSOs Chicago St and Railroad Station SE Modeled 0 0.00 0.00 0.00 0.00 0.00 eparated 006 Good Hope Road, West of Nichols Ave Metered 007 13<sup>th</sup> Street and Ridge Place,SE 0 0.00 0.00 0.00 0.00 0.00 009 2nd Street, 300 feet North of N Place, Metered 0 0.00 0.00 0.00 0.00 0.00 O Street SewagePumping Station, SE (pumped 010 Metered 4 28.09 11.66 2.92 4.58 1.50 Overflow) South of Main Sewage Pumping Station, SE 011 Metered 0 0.00 0.00 0.00 0.00 0.00 (pumped overflow) South of Main SewagePumping Station, SE 011a Metered 3 0.30 7.34 2.45 3.17 1.67 (gravity overflow) North of Main SewagePumping Station, SE 012 5 5.63 0.60 0.08 3.00 1.50 Metered (Tiber Creek) Modeled 0.00 013 0.00 0.00 0.00 4th and N Streets, SI ſ 0.00 6th and M Streets, SE 014 Modeled 0 0.00 0.00 0.00 0.00 0.00 015 9th and M Streets, SE consolidated to tunnel system 016 12th and M Streets, SI consolidated to tunnel system 017 14th and M Streets, SE consolidated to tunnel system 018 consolidated to tunnel system Barney Circle and Pennsylvania Ave, SE 010 Metered 7 19 7 09 3.55 5.67 1.42 Northeast Boundary 019A Northeast Boundary - Tunnel OF Metered 10.03 1.58 1.58 1.58 1.58 SUBTOTAL 51.24 otomac C 003A JBAB Tunnel OF Metered 5.76 1.33 1.33 1.33 1.33 23rd Street, North of Constitution Ave, NW 020 Modeled 49.75 25.00 2.50 6.00 0.25 10 (Easby Point) 021 Northeast ofRoosevelt Bridge, NW Modeled 10 187.06 26.50 2.65 6.25 0.50 27th and K Streets, NW Modeled 17 43.59 19.92 36.75 2.16 0.25 022 6.50 024 025 30th and K Streets, NW Modeled 20 11 56.75 31.75 2.84 2.89 13.50 7.00 0.25 0.57 0.25 Modeled 31st & K St NW Wisconsin Avenue andK St., NW 0.00 0.00 026 Modeled 0 0.00 0.00 0.00 Modeled 15 14.23 0.25 027 Water Street West of Street, NW 30.25 2.02 6.25 4.28 0.25 028 36th and M Streets, NW Modeled 21 71.00 3.38 19.50 029 Canal Road 1000 feet east of Rock Creek,NW Modeled 16 10.60 35.50 2.22 6.00 0.25 335.76 SUBTOTAL Rock Creek paratec 031 Pennsylvania Avenue, East Rock Creek, NW 032 0.00 0.00 0.00 0.00 26th and M Streets, NW Modeled 0.00 0 0 0.00 N Street extendedwest of 25th Street,NW Modeled 034 23rd and O Streets, SW Modeled 0 0.00 0.00 0.00 0.00 0.00 035 22nd Street south of Q Street, NW Modeled 0 0.00 0.00 0.00 0.00 0.00 22nd Street South of Q Street, NW Modeled 10 1.02 0.75 036 5.75 Northwest of Belmontand Rock Creek and 037 separated Potomac Parkway North of Belmont Road,east of Kalorama Circle 038 Modeled 0 0.00 0.00 0.00 0.00 0.00 NW Connecticut Avenue east of Rock Creek, NW Modeled 0.00 0.00 0.00 0.00 Biltmore Street extended east of RockCreek 040 Modeled 1 0.01 0.25 0.25 0.25 0.25 NW 0.00 041 Ontario extended and Rock Creek Parkway Modeled 0 0.00 0.00 0.00 0.00 0.25 0.25 0 10 0 75 0 25 042 Harvard Street and RockCreek Parkway, NW Modeled 3 Adams Mill Road South of Irving Street, NW Modeled 3 25 0.65 1 25 0.50 043 F 1 61 0.10 0.50 044 0.25 0.25 Kenyon Street and Adams Mill Road, NW Modeled 0.25 Adams Mill Road and Lamont Street, NW 045 Modeled 5 1.00 046 Park Road south of Piney Branch Parkway, NW Modeled 5 0.10 1.50 0.30 0.50 0 25 Ingleside Terrace extended and Piney Branch 047 Modeled 3 0.07 1.00 0.33 0.50 0.25 Parkway Mt. Pleasant Street extended and Piney Branch 048 5 0.36 2.50 0.50 1.00 0.25 Modeled Parkway 049 Piney Branch and LamontStreet, NW Modeled 44.06 15.25 1.91 5.25 8 0.25 Modeled 050 28th Street west of 16th Street, NW 0 0.00 0.00 0.00 0.00 0.00 Olive Street extended and Rock Creek 051 Modeled 0 0.00 0.00 0.00 0.00 0.00 Parkway, NW O Street extended and Rock Creek Parkway, 052 Modeled 0 0.00 0.00 0.00 0.00 0.00 NW O Street west of Rock Creek Parkway, NW parated West Side of Rock Creek300 ft. south of Mass 054 Modeled 0 0.00 0.00 0.00 0.00 0.00 Ave, NW Normanstone Drive extended west of Rock 056 Modeled 0 0.00 0.00 0.00 0.00 0.00 Creek, NW 057 28th Street extended west of Rock Creek, NW separated Connecticut Avenue and Rock Creek Parkway 058 separated NW P St and 26<sup>th</sup> St, NW Modeled 0.00 0.00 0.00 060 0 0.00 0.00 47.62 SUBTOTAL 434.62 TOTAL

Prepared by: Greeley and Hansen LLC and Limno-Tech, Inc.