

QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

FOURTH QUARTER, 2023

Prepared By:

D.C. Water and Sewer Authority
Department of Pumping and 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: October 2023

Prepared By:
District of Columbia
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Washington, D.C. 20003

DISTRICT OF COLUMBIA
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Monthly Operations Report for Combined Sewer System
Month: October 2023
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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.

**Table 2-1
Regulator Structures**

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2 ¹	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
4 ¹	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
5 ¹	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	10/05/23	*			
7	W Street and Railroad Ave, SE	005	10/05/23	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE (Diversion Structure)	007	10/05/23	*			
9a	13 th Street and Ridge Place, SE (Regulator Structure)	007	10/05/23	*			
9b	11 th Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	10/05/23	*			
11	"O" Street Pumping Station	011(a)	10/23/23	*			
12	Storm Pump Discharge at Main Pumping Station	011	10/16/23	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	10/18/23	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	10/18/23	*			
15	South Capitol and E Streets	010	10/18/23	*			
15a	Half and L Streets, SE	010	10/18/23	*			
15b	South Capitol and I Streets	010	10/06/23	*			
15c	South Capitol and I Streets	010	10/06/23	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
16	North of Main Sewage Pumping Station	012	10/18/23	*			
17	4 th and N Streets, SE, Both Extended	013	10/05/23	*			
17a	K Street between 6 th Street and 7 th Street, SE (Side Overflow Weir)	013	10/05/23	*			
17b	4 th and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	10/05/23	*			
18	6 th and M Streets, SE (Diversion and Overflow Structure)	014	10/05/23	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	10/05/23	*			
19	9 th and M Streets, SE	015	10/05/23	*			
19a	9 th and M Streets, SE	015	10/05/23	*			
19b	9 th and M Streets, SE (Diversion Chamber)	015	10/05/23	*			
19c	9 th and M Streets, SE (Diversion Chamber)	015	10/05/23	*			
20	12 th and M Streets, SE	016	10/04/23	*			
20a	12 th and M Streets, SE	016	10/04/23	*			
20b	12 th and M Streets, SE (CSO-016 Diversion Chamber)	016	10/04/23	*			
21	14 th and M Streets, SE	017	10/04/23	*			
21a	14 th and M Streets, SE (CSO-017 Diversion Chamber)	017	10/04/23	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	10/04/23	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	10/04/23	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	10/04/23	*			
22d	Kentucky Ave and Potomac Street, SE	018	10/04/23	*			
22e	14 th Street and Kentucky Ave, SE	018	10/04/23	*			
23	Independence Ave, 21 st Street, SE, Extended	019	10/04/23	*			
24a	East Capitol St, west of RFK stadium	019	10/04/23	*			
28	21 st and Constitution Ave, NW	020	10/06/23	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	10/06/23	*			
30	17 th and D Streets, NW	020	10/06/23	*			
31	15 th Street and Pennsylvania Ave, NW	020	10/06/23	*			
33	10 th and F Streets, NW	020	10/06/23	*			
34	23 rd Street, north of Constitution Ave, NW	020	10/18/23	*			
34a	23 rd Street near C Street, NW	020	10/06/23	*			
35	Northeast of Roosevelt Bridge, NW	021	10/18/23	*			
35c	Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW	021	10/18/23	*			
36	27 th and I Streets, NW	022	10/23/23	*			
36a	New Hampshire Ave and Eye Street, NW	022	10/23/23	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
36b	19 th and L Streets, NW	022, 034	10/10/23	*			
36d	17 th and L Streets, NW	022, 034	10/10/23	*			
36g	18 th and M Streets, NW	022, 034	10/10/23	*			
36h	18 th and M Streets, NW	022, 034	10/10/23	*			
37	27 th and Eye Streets, NW	022	10/23/23	*			
38	29 th and K Streets, NW	024	10/10/23	*			
38a	30 th Street, south of K Street, NW	024	10/10/23	*			
39a	30 th and K Streets, NW	024	10/10/23	*			
39b	30 th and K Streets, NW	024	10/10/23	*			
41b ¹	31 st and K Streets, NW	025	N/A				
41c ¹	31 st and K Streets, NW	025	N/A				
42 ¹	Wisconsin Ave and K Street, NW	026	N/A				
43	Potomac and Water Streets, NW	027	10/10/23	*			
43a	Potomac and Water Streets, NW	027	10/10/23	*			
44	Water Street, west of Potomac St, NW	027	10/10/23	*			
45	36 th and M Streets, NW	028	10/02/23	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	10/02/23	*			
47	38 th Street and Reservoir Road, NW	029	10/02/23	*			
47a	37 th and T Streets, NW	029	10/02/23	*			
47b	37 th and T Streets, NW	029	10/02/23	*			
47c	38 th and W Streets, NW	029	10/02/23	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	10/19/23	*			
51	N Street Extended, west of 25 th Street, NW	033	10/19/23	*			
52	22 nd Street between M and N Streets, NW	034	10/18/23	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	10/19/23	*			
53	22 nd and M Streets, NW	022, 034	10/10/23	*			
53a	22 nd and M Streets, NW	022, 034	10/10/23	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	10/10/23	*			
53c	L and 22 nd Streets, NW	022	10/10/23	*			
54	23 rd and O Streets, NW	034	10/19/23	*			
55	22 nd Street, south of Q Street, NW	035	10/19/23	*			
55a	22 nd Street, south of Q Street, NW	035	10/19/23	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
56	23 rd and Massachusetts Ave, NW	036	10/19/23	*			
57	23 rd Street, south of Q Street, NW	036	10/19/23	*			
58 ^l	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	10/02/23	*			
60	Connecticut Ave, east of Rock Creek, NW	039	10/02/23	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	10/02/23	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	10/03/23	*			
63	Harvard Street and Rock Creek Parkway, NW	042	10/03/23	*			
64	Adams Mill Road, south of Irving Street, NW	043	10/03/23	*			
65	Kenyon Street and Adams Mill Road, NW	044	10/03/23	*			
65a	Kenyon Street and Adams Mill Road, NW	044	10/03/23	*			
66	Adams Mill Road and Lamont Street, NW	045	10/03/23	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	10/03/23	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	10/03/23	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	10/03/23	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	10/03/23	*			
70i	5 th and Quackenbos Streets, NW	049	10/02/23	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	10/02/23	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	10/19/23	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	10/19/23	*			
73	O Street Extended and Rock Creek Parkway, NW	052	10/19/23	*			
74 ^l	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	10/20/23	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	10/20/23	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	10/20/23	*			
78 ^l	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ^l	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	10/19/23	*			
84a	26 th and P Streets, NW	060	10/19/23	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	10/12/23	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	10/12/23	*			
89	First and V St, NW (First St Tunnel)	019	10/12/23	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
90	First and V St, NW (First St Tunnel)	019	10/12/23	*			
91	First and V St, NW (First St Tunnel)	019	10/12/23	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	10/23/23	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	10/23/23	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	10/04/23	*			
96	CSO 007 Shaft at 11 th St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	10/24/23	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	10/24/23	*			
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 – 012	10/23/23	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	10/18/23	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	10/18/23	*			
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	10/24/23	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	10/24/23	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	10/24/23	*			
104	Poplar Point PS Discharge Chamber	N/A	10/24/23	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	10/24/23	*			
106 ^{2,3}	R Street Diversion Chamber (RS-DC) and R Street Drop Shaft (RS-DS)	019	N/A				
107 ²	Florida Avenue Diversion Chamber (FLA-DC), Florida Avenue Drop Shaft (FLA-DS)	019	10/11/23	*			
108 ²	T Street Junction Chamber (TS-JC), T Street Drop Shaft (TS-DS)	019	10/11/23	*			
109 ²	4th Street NE Diversion Chamber (4S-DC), 4th Street Drop Shaft (4S-DS)	019	10/11/23	*			
110 ²	Rhode Island Avenue Diversion Chamber (RIA-DC), Rhode Island Avenue Drop Shaft (RIA-DS)	019	10/11/23	*			
111a ²	Mount Olivet Road Junction Chamber (MOR-JC)	019	10/11/23	*			
111b ²	Mount Olivet Road Diversion Chamber (MOR-DC)	019	10/11/23	*			
111c ²	Mount Olivet Road Drop Shaft (MOR-DS)	019	10/11/23	*			

Notes:

1. Noted structures no longer function as a combined sewer overflow regulator structure.
2. Newly acquired Northeast Boundary Tunnel Regulator Structures.
3. Condition assessment unable to be performed at this location as the Northeast Boundary Tunnel Contractor is actively engaged in work to restore the site. The Tunnel Contractor is responsible for inspection and maintenance while work is being performed.

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.

Table 2-2
Outfalls and Tide Gates

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003 ¹	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A									
003a	Joint Base Anacostia Bolling Macdill and Arnold Ave SW	10/24/23	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	10/16/23	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	10/16/23	*		*		*		*		
009	O St. Sewage Pumping Station, SE	10/16/23	*		*		*		*		
010	O St. Sewage Pumping Station, SE	10/16/23	*			*			*		
011	Main Sewage Pumping Station, SE	10/16/23	*			*			*		
011a	Main Sewage Pumping Station, SE	10/16/23	*		*		*		*		
012	Main Sewage Pumping Station, SE	10/16/23	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	10/16/23	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	10/16/23	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	10/16/23	*			*			*		
016	12th and O Streets, SE	10/16/23	*		*		*		*		
017	M and Water Street, SE	10/16/23	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	10/16/23	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	10/23/23	*		*		*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	10/23/23	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	10/17/23	*		*		*		*		
021	Rock Creek Parkway and C St., NW	10/17/23	*		*		*		*		
022	Rock Creek Parkway and G St., NW	10/17/23	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	10/17/23	*		*		*		*		
025 ¹	South of 31st and K Streets, NW	N/A									
026 ¹	Wisconsin Avenue and Water Street, NW	N/A									
027	33 rd and Water Sts., NW	10/17/23	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	10/17/23	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	10/17/23	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW	10/17/23	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	10/17/23	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	10/17/23	*			*			*		
035	P St. Bridge and Rock Creek Parkway	10/17/23	*			*			*		
036	22nd Street, South of Q Street NW.	10/17/23	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	10/02/23	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	10/02/23	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	10/02/23	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	10/17/23	*		*		*		*		
042	Harvard St. and Beach Dr NW.	10/17/23	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	10/17/23	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	10/17/23	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	10/17/23	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	10/03/23	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	10/03/23	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	10/03/23	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	10/03/23	*		*		*		*		
050	Rock Creek Parkway and L St., NW	10/02/23	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	10/20/23	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	10/20/23	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	10/20/23	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	10/20/23	*		*		*		*		
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	10/20/23	*		*		*		*		

Notes:

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**

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Work Order Number</i>	<i>Schedule to Restore to Service</i>
Main	31	3	4	None	-	-	-	-
O Street	31	2	4	None	-	-	-	-
Eastside	1	2	4	None	-	-	-	-
Poplar Point	1	2	4	Screen 2	10/25/2023– 10/31/2023	Screen damaged by guide rail failure.	24-60302	Anticipated return to service by 12/31/23
Potomac	31	4	5	None	-	-	-	-

Notes:

**Table 2-4
Pumping Stations – Preventive Maintenance**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed^{1,2}</i>	<i>Work Order Number</i>	<i>Comments</i>
Main	10/17/23	Group A	24-43030	Add oil, grease bearings and replace packing if needed.
O St	10/18/23	Group A	24-56809	Add oil, grease bearings and replace packing if needed.
Eastside	10/03/23	Group A	23-591213	Add oil, grease bearings and replace packing if needed.
Poplar Point	10/19/23	Group A	24-45517	Add oil, grease bearings and replace packing if needed.
Potomac	10/03/23	Group A	23-595972	Add oil, grease bearings and replace packing if needed.
Rock Creek	10/03/23	Group A	23-595986	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	10/02/23	Group A	24-45576	Add oil, grease bearings and replace packing if needed.
Earl Place	10/02/23	Group A	23-607958	Add oil, grease bearings and replace packing if needed.

Notes:

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

**Table 2-5
Pumping Stations – Pumpage**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Screenings Collected (tons)¹</i>
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	
Main ^{1,2,3}	1072.3721*	34.5926*	N/A
O St ^{1,2,4}	140.647**	4.537**	N/A
Eastside	119.8208	3.8652	N/A
Poplar Point	304.76	9.8309	N/A
Potomac	3215.0534	103.7114	N/A
Rock Creek	358.5606	11.5665	N/A
Upper Anacostia	35.9488	1.1596	N/A
Earl Place	0.1443	0.00465	N/A

Notes:

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. On October 3, 2023, the Main PS M1 flow meter sensor failed due to water damage. Parts have been ordered and are awaiting delivery. See WO# 23-605881 *Values above are estimated using volume measured from M2 flow sensor, which means it does not capture the total volume pumped from Main PS.
4. On October 1, 2023, the O Street PS flow meter vault was flooded and caused the control board to fail. Parts have been ordered and are awaiting delivery. See WO# 24-10061. ** Values above are estimated using pump speed and previous flow data.

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:

**Table 2-6
Inflatable Dams – Inspections and Equipment in Service**

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
14 - East	10/05/23	Yes	10/05/23	Note 2	10/05/23
14 - West	10/02/23	Yes	10/02/23	Note 1	10/02/23
	10/05/23	Yes	10/05/23	Note 2	10/05/23
15	10/18/23	No	N/A	N/A	N/A
	10/23/23	Yes	10/23/23	Note 3	10/23/23
15A	10/18/23	No	N/A	N/A	N/A
16 – East	10/18/23	No	N/A	N/A	N/A
16 – West	10/18/23	No	N/A	N/A	N/A
34	10/18/23	No	N/A	N/A	N/A
35	10/18/23	No	N/A	N/A	N/A
52	10/18/23	No	N/A	N/A	N/A

Notes:

1. On 10/02/23, Structure 14 West deflated around 9:15am for scheduled maintenance. The dam was reinflated and returned to service within two hours. See WO# 23-603336. There was no overflow to the river as the upstream levels were significantly lower than the low-level threshold.
2. On 10/05/23, Structure 14 East and West deflated around 3:33am due to low reported dam pressure. The Instrumentation team was notified, and the dams were reinflated and returned to service within eight hours. See WO# 24-22968. There was no overflow to the river as the upstream levels were significantly lower than the low-level threshold.
3. On 10/23/23, Structure 15 deflated around 11:32am due to a fault on BFV-3. Dams reinflated and returned to service within ten minutes. See WO# 23-600568. The Maintenance team was notified and the solenoid valve was replaced. There was no overflow to the river as the upstream levels were significantly lower than the low-level threshold.

**Table 2-7
Inflatable Dams & SCADA Sites - Wet Weather Operations**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>	<i>Inflatable Dam Operational Status</i>
14 (E & W)	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
15	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
15A	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
16 (E & W)	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
34	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
35	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
52	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>	<i>N/A</i>
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	
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>	
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	

Notes:

3. DRY WEATHER OVERFLOWS

There were no dry weather combined sewer overflows reported during October 2023.

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:

**Table 4-1
Catch Basin Cleaning**

Ward	Total CBs	CBs in CSS	Inspections			Cleaning					
			CBs in Anacostia CSS	Total Anacostia CBs Inspected Once this Year	Total Anacostia CBs Inspected Twice this Year	CBs Cleaned Thru Last Month		CB's Cleaned This Month		Total CBs Cleaned This Year to Date	
						Total	In CSS	Total	In CSS	Total	In CSS
1	1467	1442	655	631	285	732	725	112	112	844	837
2	2832	2647	486	434	186	188	78	189	189	377	267
3	3720	183	0	0	0	3378	3	1	0	3379	3
4	3521	1729	0	0	0	3366	1586	34	34	3400	1620
5	4066	1758	1693	1602	524	2270	204	383	383	2653	587
6	3333	2692	2676	2342	940	648	50	1178	1178	1826	1228
7	3879	43	43	34	7	3515	0	7	7	3522	7
8	2930	213	212	202	95	663	5	94	94	757	99
Grand Total	25748¹	10707¹	5765¹	5245	2037	14760	2651	1998	1997	16758	4648
% Cleaned/Inspected to Date				91%	35%					65%	43%

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
BMP Demonstration Projects – Report

<i>Facility</i>	<i>Date Inspected</i>	<i>Condition</i>	<i>Work Needed</i>	<i>Work performed</i>	<i>Material Removed (LB)</i>
Bar Rack CSO 040	10/02/23	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	10/17/23	Good	None	Routine Cleaning	(1)

Notes:

(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:

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

<i>Program Operation</i>	5-day work week, excluding holidays, weather permitting
<i>Work Days this month:</i>	21
<i>Days not Operating</i>	6
<i>Reason not Operating</i>	Maintenance, wind, low water levels.
<i># Skimmer in Fleet</i>	3 Skimmers
<i># Skimmers Out of Service</i>	3 Skimmers
<i>Dates</i>	B32: Oct 1 - Oct 31. B33: Oct 1 - Oct 31. B34: Oct 1 - Oct 31.
<i>Reason</i>	B32: Starboard propulsion system failure. B33: No air-conditioning. B34: Hydraulic fluid leak on STBD tilt cylinder.
<i>Plan to Restore to Service</i>	B32: Plan to remove from service due to extensive repairs required and replacement arriving in January 2024. B33: Waiting for new maintenance contractor to start in November. B34: Waiting for new maintenance contractor to start in November.
<i>Amount Material Collected</i>	9 tons this month. Calendar year to date 65 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

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**

Pumping Station	Date Inspected	Condition		Work Order Number	Work Needed	Work Performed or Schedule for Completion
		Good	Needs Work			
Bar Racks at O Street Storm Pumps (CSO 010)	10/03/23	X		24-42233		
Bar Racks at Main Storm Pumps (CSO 011)	10/17/23	X		24-42226		

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
10/1/2023	0	0	0	0	0
10/2/2023	0	0	0	0	0
10/3/2023	0	0	0	0	0
10/4/2023	0	0	0	0	0
10/5/2023	0	0	0	0	0
10/6/2023	0	0	0	0	0
10/7/2023	0.04	0.04	0.05	0.05	0.07
10/8/2023	0	0	0	0	0
10/9/2023	0	0	0	0	0
10/10/2023	0	0	0	0	0
10/11/2023	0	0	0	0	0
10/12/2023	0	0	0	0	0
10/13/2023	0	0	0	0	0
10/14/2023	0.35	0.40	0.62	0.44	0.45
10/15/2023	0.03	0.03	0.04	0.04	0.03
10/16/2023	0	0	0	0	
10/17/2023	0	0	0	0	0
10/18/2023	0	0	0	0	0
10/19/2023	0	0	0	0	0
10/20/2023	0.02	0.02	0.03	0.03	0.03
10/21/2023	0	0	0	0	0
10/22/2023	0.04	0.02	0	0.01	0
10/23/2023	0	0	0	0	0
10/24/2023	0	0	0	0	0
10/25/2023	0	0	0	0	0
10/26/2023	0	0	0	0	0
10/27/2023	0	0	0	0	0
10/28/2023	0	0	0	0	0
10/29/2023	0.03	0.03	0.04	0.01	0.04
10/30/2023	0.05	0.04	0.04	0.06	0.03
10/31/2023	0	0	0	0	0
TOTAL	0.56	0.58	0.82	0.64	0.65

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 December 2023 Report.



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

**Monthly Operations Report For
*Combined Sewer System***

Month: November 2023

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.

Monthly Operations Report for Combined Sewer System
Month: November 2023
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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.

**Table 2-1
Regulator Structures**

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2 ¹	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
4 ¹	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
5 ¹	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	11/08/23	*			
7	W Street and Railroad Ave, SE	005	11/08/23	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE (Diversion Structure)	007	11/08/23	*			
9a	13 th Street and Ridge Place, SE (Regulator Structure)	007	11/08/23	*			
9b	11 th Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	11/13/23	*			
11	"O" Street Pumping Station	011(a)	11/16/23	*			
12	Storm Pump Discharge at Main Pumping Station	011	11/08/23	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	11/16/23	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	11/16/23	*			
15	South Capitol and E Streets	010	11/16/23	*			
15a	Half and L Streets, SE	010	11/16/23	*			
15b	South Capitol and I Streets	010	11/07/23	*			
15c	South Capitol and I Streets	010	11/07/23	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
16	North of Main Sewage Pumping Station	012	11/16/23	*			
17	4 th and N Streets, SE, Both Extended	013	11/13/23	*			
17a	K Street between 6 th Street and 7 th Street, SE (Side Overflow Weir)	013	11/20/23	*			
17b	4 th and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	11/13/23	*			
18	6 th and M Streets, SE (Diversion and Overflow Structure)	014	11/20/23	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	11/13/23	*			
19	9 th and M Streets, SE	015	11/13/23	*			
19a	9 th and M Streets, SE	015	11/13/23	*			
19b	9 th and M Streets, SE (Diversion Chamber)	015	11/13/23	*			
19c	9 th and M Streets, SE (Diversion Chamber)	015	11/13/23	*			
20	12 th and M Streets, SE	016	11/13/23	*			
20a	12 th and M Streets, SE	016	11/13/23	*			
20b	12 th and M Streets, SE (CSO-016 Diversion Chamber)	016	11/13/23	*			
21	14 th and M Streets, SE	017	11/13/23	*			
21a	14 th and M Streets, SE (CSO-017 Diversion Chamber)	017	11/13/23	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	11/20/23	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	11/20/23	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	11/20/23	*			
22d	Kentucky Ave and Potomac Street, SE	018	11/20/23	*			
22e	14 th Street and Kentucky Ave, SE	018	11/20/23	*			
23	Independence Ave, 21 st Street, SE, Extended	019	11/20/23	*			
24a	East Capitol St, west of RFK stadium	019	11/20/23	*			
28	21 st and Constitution Ave, NW	020	11/02/23	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	11/02/23	*			
30	17 th and D Streets, NW	020	11/02/23	*			
31	15 th Street and Pennsylvania Ave, NW	020	11/02/23	*			
33	10 th and F Streets, NW	020	11/02/23	*			
34	23 rd Street, north of Constitution Ave, NW	020	11/16/23	*			
34a	23 rd Street near C Street, NW	020	11/02/23	*			
35	Northeast of Roosevelt Bridge, NW	021	11/16/23	*			
35c	Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW	021	11/16/23	*			
36	27 th and I Streets, NW	022	11/02/23	*			
36a	New Hampshire Ave and Eye Street, NW	022	11/02/23	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
36b	19 th and L Streets, NW	022, 034	11/03/23	*			
36d	17 th and L Streets, NW	022, 034	11/03/23	*			
36g	18 th and M Streets, NW	022, 034	11/03/23	*			
36h	18 th and M Streets, NW	022, 034	11/03/23	*			
37	27 th and Eye Streets, NW	022	11/02/23	*			
38	29 th and K Streets, NW	024	11/03/23	*			
38a	30 th Street, south of K Street, NW	024	11/03/23	*			
39a	30 th and K Streets, NW	024	11/03/23	*			
39b	30 th and K Streets, NW	024	11/03/23	*			
41b ¹	31 st and K Streets, NW	025	N/A				
41c ¹	31 st and K Streets, NW	025	N/A				
42 ¹	Wisconsin Ave and K Street, NW	026	N/A				
43	Potomac and Water Streets, NW	027	11/03/23	*			
43a	Potomac and Water Streets, NW	027	11/03/23	*			
44	Water Street, west of Potomac St, NW	027	11/03/23	*			
45	36 th and M Streets, NW	028	11/01/23	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	11/01/23	*			
47	38 th Street and Reservoir Road, NW	029	11/01/23	*			
47a	37 th and T Streets, NW	029	11/01/23	*			
47b	37 th and T Streets, NW	029	11/01/23	*			
47c	38 th and W Streets, NW	029	11/01/23	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	11/27/23	*			
51	N Street Extended, west of 25 th Street, NW	033	11/27/23	*			
52	22 nd Street between M and N Streets, NW	034	11/16/23	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	11/06/23	*			
53	22 nd and M Streets, NW	022, 034	11/06/23	*			
53a	22 nd and M Streets, NW	022, 034	11/06/23	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	11/27/23	*			
53c	L and 22 nd Streets, NW	022	11/27/23	*			
54	23 rd and O Streets, NW	034	11/06/23	*			
55	22 nd Street, south of Q Street, NW	035	11/06/23	*			
55a	22 nd Street, south of Q Street, NW	035	11/06/23	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
56	23 rd and Massachusetts Ave, NW	036	11/06/23	*			
57	23 rd Street, south of Q Street, NW	036	11/06/23	*			
58 ^l	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	11/01/23	*			
60	Connecticut Ave, east of Rock Creek, NW	039	11/01/23	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	11/01/23	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	11/21/23	*			
63	Harvard Street and Rock Creek Parkway, NW	042	11/21/23	*			
64	Adams Mill Road, south of Irving Street, NW	043	11/21/23	*			
65	Kenyon Street and Adams Mill Road, NW	044	11/21/23	*			
65a	Kenyon Street and Adams Mill Road, NW	044	11/21/23	*			
66	Adams Mill Road and Lamont Street, NW	045	11/21/23	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	11/21/23	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	11/21/23	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	11/21/23	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	11/21/23	*			
70i	5 th and Quackenbos Streets, NW	049	11/01/23	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	11/07/23	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	11/06/23	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	11/06/23	*			
73	O Street Extended and Rock Creek Parkway, NW	052	11/06/23	*			
74 ^l	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	11/07/23	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	11/07/23	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	11/07/23	*			
78 ^l	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ^l	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	11/06/23	*			
84a	26 th and P Streets, NW	060	11/06/23	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	11/14/23	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	11/14/23	*			
89	First and V St, NW (First St Tunnel)	019	11/14/23	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
90	First and V St, NW (First St Tunnel)	019	11/14/23	*			
91	First and V St, NW (First St Tunnel)	019	11/14/23	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	11/27/23	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	11/27/23	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	11/13/93	*			
96	CSO 007 Shaft at 11 th St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	11/27/23	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	11/27/23	*			
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 – 012	11/16/23	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	11/16/23	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	11/16/23	*			
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	11/20/23	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	11/20/23	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	11/20/23	*			
104	Poplar Point PS Discharge Chamber	N/A	11/20/23	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	11/20/23	*			
106 ^{2,3}	R Street Diversion Chamber (RS-DC) and R Street Drop Shaft (RS-DS)	019	N/A				
107 ²	Florida Avenue Diversion Chamber (FLA-DC), Florida Avenue Drop Shaft (FLA-DS)	019	11/14/23	*			
108 ²	T Street Junction Chamber (TS-JC), T Street Drop Shaft (TS-DS)	019	11/14/23	*			
109 ²	4th Street NE Diversion Chamber (4S-DC), 4th Street Drop Shaft (4S-DS)	019	11/14/23	*			
110 ²	Rhode Island Avenue Diversion Chamber (RIA-DC), Rhode Island Avenue Drop Shaft (RIA-DS)	019	11/14/23	*			
111a ²	Mount Olivet Road Junction Chamber (MOR-JC)	019	11/14/23	*			
111b ²	Mount Olivet Road Diversion Chamber (MOR-DC)	019	11/14/23	*			
111c ²	Mount Olivet Road Drop Shaft (MOR-DS)	019	11/14/23	*			

Notes:

1. Noted structures no longer function as a combined sewer overflow regulator structure.
2. Newly acquired Northeast Boundary Tunnel Regulator Structures.
3. Condition assessment unable to be performed at this location as the Northeast Boundary Tunnel Contractor is actively engaged in work to restore the site. The Tunnel Contractor is responsible for inspection and maintenance while work is being performed.

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.

Table 2-2
Outfalls and Tide Gates

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003 ¹	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A									
003a	Joint Base Anacostia Bolling Macdill and Arnold Ave SW	11/20/23	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	11/27/23	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	11/27/23	*		*		*		*		
009	O St. Sewage Pumping Station, SE	11/08/23	*		*		*		*		
010	O St. Sewage Pumping Station, SE	11/08/23	*			*			*		
011	Main Sewage Pumping Station, SE	11/08/23	*			*			*		
011a	Main Sewage Pumping Station, SE	11/08/23	*		*		*		*		
012	Main Sewage Pumping Station, SE	11/08/23	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	11/08/23	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	11/08/23	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	11/08/23	*			*			*		
016	12th and O Streets, SE	11/08/23	*		*		*		*		
017	M and Water Street, SE	11/08/23	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	11/06/23	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	11/27/23	*		*		*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	11/27/23	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	11/15/23	*		*		*		*		
021	Rock Creek Parkway and C St., NW	11/15/23	*		*		*		*		
022	Rock Creek Parkway and G St., NW	11/15/23	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	11/15/23	*		*		*		*		
025 ¹	South of 31st and K Streets, NW	N/A									
026 ¹	Wisconsin Avenue and Water Street, NW	N/A									
027	33 rd and Water Sts., NW	11/15/23	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	11/15/23	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	11/15/23	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW	11/27/23	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	11/27/23	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	11/06/23	*			*			*		
035	P St. Bridge and Rock Creek Parkway	11/06/23	*			*			*		
036	22nd Street, South of Q Street NW.	11/07/23	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	11/01/23	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	11/01/23	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	11/01/23	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	11/07/23	*		*		*		*		
042	Harvard St. and Beach Dr NW.	11/07/42	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	11/07/23	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	11/07/23	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	11/07/23	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	11/21/23	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	11/21/23	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	11/21/23	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	11/21/23	*		*		*		*		
050	Rock Creek Parkway and L St., NW	11/07/23	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	11/27/23	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	11/27/23	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	11/07/23	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	11/07/23	*		*		*		*		
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	11/07/23	*		*		*		*		

Notes:

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**

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Work Order Number</i>	<i>Schedule to Restore to Service</i>
Main	30	3	4	None	-	-	-	-
O Street	30	2	4	None	-	-	-	-
Eastside	1	2	4	None	-	-	-	-
Poplar Point	1	2	4	Screen 2	11/1/2023-11/30/2023	Screen damaged by guide rail failure.	24-60302	Anticipated return to service by 12/31/23
Potomac	30	4	5	None	-	-	-	-

Notes:

**Table 2-4
Pumping Stations – Preventive Maintenance**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed^{1,2}</i>	<i>Work Order Number</i>	<i>Comments</i>
Main	11/7/23	Group A	24-91114	Add oil, grease bearings and replace packing if needed.
O St	11/7/23	Group A	24-102453	Add oil, grease bearings and replace packing if needed.
Eastside	11/14/23	Group A	24-52019	Add oil, grease bearings and replace packing if needed.
Poplar Point	11/16/23	Group A	24-94553	Add oil, grease bearings and replace packing if needed.
Potomac	11/7/23	Group A	24-57991	Add oil, grease bearings and replace packing if needed.
Rock Creek	11/2/23	Group A	24-45531	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	11/3/23	Group A	24-94889	Add oil, grease bearings and replace packing if needed.
Earl Place	11/13/23	Group A	24-63034	Add oil, grease bearings and replace packing if needed.

Notes:

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

**Table 2-5
Pumping Stations – Pumpage**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Screenings Collected (tons)¹</i>
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	
Main ^{1,2,3}	895.6556*	28.8552*	N/A
O St ^{1,2,4}	118.86**	3.962**	N/A
Eastside	125.6386	4.1880	N/A
Poplar Point	299.4	9.98	N/A
Potomac	3138.185	104.6062	N/A
Rock Creek	315.1631	10.5054	N/A
Upper Anacostia	33.8777	1.1293	N/A
Earl Place	0.2597	0.0087	N/A

Notes:

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. On October 3, 2023, the Main PS M1 flow meter sensor failed due to water damage. Parts have been ordered and are awaiting delivery. See WO# 23-605881 *Values above are estimated using volume measured from M2 flow sensor, which means it does not capture the total volume pumped from Main PS.
4. On October 1, 2023, the O Street PS flow meter vault was flooded and caused the control board to fail. Parts have been ordered and are awaiting delivery. See WO# 24-10061. **Values above are estimated using pump speed and previous flow data.

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:

**Table 2-6
Inflatable Dams – Inspections and Equipment in Service**

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
14 - East	11/16/23	No	N/A	Note 1	N/A
	11/29/23	Yes	11/29/23	Note 2	11/29/23
14 - West	11/16/23	No	N/A	Note 1	N/A
	11/29/23	Yes	11/29/23	Note 2	11/29/23
15	11/16/23	No	N/A	N/A	N/A
15A	11/16/23	No	N/A	N/A	N/A
16 – East	11/16/23	No	N/A	Note 1	N/A
	11/29/23	Yes	11/29/23	Note 3	11/29/23
16 – West	11/16/23	No	N/A	Note 1	N/A
	11/29/23	Yes	11/29/23	Note 3	11/29/23
34	11/16/23	No	N/A	N/A	N/A
35	11/16/23	No	N/A	N/A	N/A
52	11/16/23	No	N/A	N/A	N/A

Notes:

1. As notified in the letter to EPA June 15, 2023 via email, inflatable dams will be renovated under our Capital Improvement Program. Structures 14 and 16 are currently under construction.
2. On 11/29/23, Structure 14 East and West deflated around 8:00am due to blower issues, as it was continuously running. The dam was reinflated and returned to service within three hours. See WO# 24-120054. There was no overflow to the river as the upstream levels were significantly lower than the low-level threshold.
3. On 11/29/23, Structure 16 East and West deflated around 6:30pm due to a BFV-4 malfunction. The instrumentation team was notified and the dams were reinflated and returned to service within six hours. See WO #24-124106. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.

1.

**Table 2-7
Inflatable Dams & SCADA Sites - Wet Weather Operations**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>	<i>Inflatable Dam Operational Status</i>
14 (E & W)	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
15	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
15A	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
16 (E & W)	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
34	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
35	<i>11/21/23</i>	<i>40minutes 7s</i>	<i>Deflated</i>
52	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>	<i>N/A</i>
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	
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>	
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	

Notes:

3. DRY WEATHER OVERFLOWS

There were no dry weather combined sewer overflows reported during November 2023.

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:

**Table 4-1
Catch Basin Cleaning**

Ward	Total CBs	CBs in CSS	Inspections			Cleaning					
			CBs in Anacostia CSS	Total Anacostia CBs Inspected Once this Year	Total Anacostia CBs Inspected Twice this Year	CBs Cleaned Thru Last Month		CB's Cleaned This Month		Total CBs Cleaned This Year to Date	
						Total	In CSS	Total	In CSS	Total	In CSS
1	1467	1442	655	635	492	844	837	233	233	1077	1070
2	2832	2647	486	464	403	377	267	1231	1230	1608	1497
3	3720	183	0	0	0	3379	3	0	0	3379	3
4	3521	1729	0	0	0	3400	1620	10	10	3410	1630
5	4066	1758	1693	1673	1180	2653	587	806	806	3459	1393
6	3333	2692	2676	2537	1891	1826	1228	993	993	2819	2221
7	3879	43	43	38	20	3522	7	16	16	3538	23
8	2930	213	212	205	183	757	99	91	91	848	190
Grand Total	25748¹	10707¹	5765¹	5552	4169	16758	4648	3380	3379	20138	8027
% Cleaned/Inspected to Date				96%	72%					78%	75%

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
BMP Demonstration Projects – Report

<i>Facility</i>	<i>Date Inspected</i>	<i>Condition</i>	<i>Work Needed</i>	<i>Work performed</i>	<i>Material Removed (LB)</i>
Bar Rack CSO 040	11/01/23	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	11/07/23	Good	None	Routine Cleaning	(1)

Notes:

(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:

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

<i>Program Operation</i>	5-day work week, excluding holidays, weather permitting
<i>Work Days this month:</i>	19
<i>Days not Operating</i>	10
<i>Reason not Operating</i>	Maintenance, wind, low water levels.
<i># Skimmer in Fleet</i>	3 Skimmers (1)
<i># Skimmers Out of Service</i>	3 Skimmers
<i>Dates</i>	B32: (1) B33: Nov 1 – Nov 6. B34: Nov 1 - Nov 30.
<i>Reason</i>	B32: Starboard propulsion system failure.(1) B33: No air-conditioning. B34: Hydraulic fluid leak on STBD tilt cylinder.
<i>Plan to Restore to Service</i>	B32: (1) B33: Temperature cooled so A/C is not required. B34: Waiting for new maintenance contractor to start in December.
<i>Amount Material Collected</i>	5 tons this month. Calendar year to date 70 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

Notes:

(1) B32 has been permanently removed from service and decommissioned. The replacement is expected to arrive in January 2024

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**

Pumping Station	Date Inspected	Condition		Work Order Number	Work Needed	Work Performed or Schedule for Completion
		Good	Needs Work			
Bar Racks at O Street Storm Pumps (CSO 010)	11/7/23	X		24-100127		
Bar Racks at Main Storm Pumps (CSO 011)	11/7/23	X		24-100120		

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
11/1/2023	0	0	0	0	0
11/2/2023	0	0	0	0	0
11/3/2023	0	0	0	0	0
11/4/2023	0	0	0	0	0
11/5/2023	0	0	0	0	0
11/6/2023	0	0	0	0	0
11/7/2023	0	0	0	0	0
11/8/2023	0	0	0	0	0
11/9/2023	0.05	0.05	0.01	0.04	0
11/10/2023	0.21	0.23	0.20	0.25	0.17
11/11/2023	0	0	0	0	0
11/12/2023	0	0	0	0	0
11/13/2023	0	0	0	0	0
11/14/2023	0	0	0	0	0
11/15/2023	0	0	0	0	0
11/16/2023	0	0	0	0	0
11/17/2023	0.01	0.01	0.01	0.02	0.01
11/18/2023	0	0	0	0.01	0.01
11/19/2023	0	0	0	0	0
11/20/2023	0	0	0	0	0
11/21/2023	1.90	2.24	2.10	2.50	2.14
11/22/2023	0.03	0.02	0.03	0.03	0.02
11/23/2023	0	0	0	0	0
11/24/2023	0	0	0	0	0
11/25/2023	0	0	0	0	0
11/26/2023	0.14	0.11	0.17	0.10	0.16
11/27/2023	0	0	0	0	0
11/28/2023	0	0	0	0	0
11/29/2023	0	0	0	0	0
11/30/2023	0	0	0	0	0
TOTAL	2.34	2.66	2.52	2.95	2.51

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 December 2023 Report.



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

**Monthly Operations Report For
*Combined Sewer System***

Month: December 2023

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.

Monthly Operations Report for Combined Sewer System
Month: December 2023
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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.

**Table 2-1
Regulator Structures**

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2 ¹	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
4 ¹	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
5 ¹	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	12/07/2023	*			
7	W Street and Railroad Ave, SE	005	12/07/2023	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE (Diversion Structure)	007	12/07/2023	*			
9a	13 th Street and Ridge Place, SE (Regulator Structure)	007	12/07/2023	*			
9b	11 th Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	12/07/2023	*			
11	"O" Street Pumping Station	011(a)	12/21/2023	*			
12	Storm Pump Discharge at Main Pumping Station	011	12/27/2023	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	12/14/2023	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	12/14/2023	*			
15	South Capitol and E Streets	010	12/14/2023	*			
15a	Half and L Streets, SE	010	12/14/2023	*			
15b	South Capitol and I Streets	010	12/04/2023	*			
15c	South Capitol and I Streets	010	12/04/2023	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
16	North of Main Sewage Pumping Station	012	12/14/2023	*			
17	4 th and N Streets, SE, Both Extended	013	12/06/2023	*			
17a	K Street between 6 th Street and 7 th Street, SE (Side Overflow Weir)	013	12/06/2023	*			
17b	4 th and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	12/14/2023	*			
18	6 th and M Streets, SE (Diversion and Overflow Structure)	014	12/06/2023	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	12/06/2023	*			
19	9 th and M Streets, SE	015	12/06/2023	*			
19a	9 th and M Streets, SE	015	12/06/2023	*			
19b	9 th and M Streets, SE (Diversion Chamber)	015	12/06/2023	*			
19c	9 th and M Streets, SE (Diversion Chamber)	015	12/06/2023	*			
20	12 th and M Streets, SE	016	12/06/2023	*			
20a	12 th and M Streets, SE	016	12/06/2023	*			
20b	12 th and M Streets, SE (CSO-016 Diversion Chamber)	016	12/06/2023	*			
21	14 th and M Streets, SE	017	12/06/2023	*			
21a	14 th and M Streets, SE (CSO-017 Diversion Chamber)	017	12/06/2023	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	12/05/2023	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	12/05/2023	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	12/05/2023	*			
22d	Kentucky Ave and Potomac Street, SE	018	12/05/2023	*			
22e	14 th Street and Kentucky Ave, SE	018	12/05/2023	*			
23	Independence Ave, 21 st Street, SE, Extended	019	12/05/2023	*			
24a	East Capitol St, west of RFK stadium	019	12/18/2023	*			
28	21 st and Constitution Ave, NW	020	12/06/2023	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	12/04/2023	*			
30	17 th and D Streets, NW	020	12/06/2023	*			
31	15 th Street and Pennsylvania Ave, NW	020	12/06/2023	*			
33	10 th and F Streets, NW	020	12/06/2023	*			
34	23 rd Street, north of Constitution Ave, NW	020	12/14/2023	*			
34a	23 rd Street near C Street, NW	020	12/06/2023	*			
35	Northeast of Roosevelt Bridge, NW	021	12/14/2023	*			
35c	Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW	021	12/14/2023	*			
36	27 th and I Streets, NW	022	12/05/2023	*			
36a	New Hampshire Ave and Eye Street, NW	022	12/05/2023	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
36b	19 th and L Streets, NW	022, 034	12/05/2023	*			
36d	17 th and L Streets, NW	022, 034	12/05/2023	*			
36g	18 th and M Streets, NW	022, 034	12/05/2023	*			
36h	18 th and M Streets, NW	022, 034	12/05/2023	*			
37	27 th and Eye Streets, NW	022	12/05/2023	*			
38	29 th and K Streets, NW	024	12/11/2023	*			
38a	30 th Street, south of K Street, NW	024	12/11/2023	*			
39a	30 th and K Streets, NW	024	12/11/2023	*			
39b	30 th and K Streets, NW	024	12/11/2023	*			
41b ¹	31 st and K Streets, NW	025	N/A				
41c ¹	31 st and K Streets, NW	025	N/A				
42 ¹	Wisconsin Ave and K Street, NW	026	N/A				
43	Potomac and Water Streets, NW	027	12/11/2023	*			
43a	Potomac and Water Streets, NW	027	12/11/2023	*			
44	Water Street, west of Potomac St, NW	027	12/11/2023	*			
45	36 th and M Streets, NW	028	12/04/2023	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	12/04/2023	*			
47	38 th Street and Reservoir Road, NW	029	12/04/2023	*			
47a	37 th and T Streets, NW	029	12/04/2023	*			
47b	37 th and T Streets, NW	029	12/04/2023	*			
47c	38 th and W Streets, NW	029	12/04/2023	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	12/18/2023	*			
51	N Street Extended, west of 25 th Street, NW	033	12/18/2023	*			
52	22 nd Street between M and N Streets, NW	034	12/14/2023	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	12/18/2023	*			
53	22 nd and M Streets, NW	022, 034	12/18/2023	*			
53a	22 nd and M Streets, NW	022, 034	12/18/2023	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	12/18/2023	*			
53c	L and 22 nd Streets, NW	022	12/18/2023	*			
54	23 rd and O Streets, NW	034	12/11/2023	*			
55	22 nd Street, south of Q Street, NW	035	12/11/2023	*			
55a	22 nd Street, south of Q Street, NW	035	12/11/2023	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
56	23 rd and Massachusetts Ave, NW	036	12/11/2023	*			
57	23 rd Street, south of Q Street, NW	036	12/11/2023	*			
58 ^l	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	12/04/2023	*			
60	Connecticut Ave, east of Rock Creek, NW	039	12/04/2023	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	12/04/2023	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	12/12/2023	*			
63	Harvard Street and Rock Creek Parkway, NW	042	12/12/2023	*			
64	Adams Mill Road, south of Irving Street, NW	043	12/12/2023	*			
65	Kenyon Street and Adams Mill Road, NW	044	12/12/2023	*			
65a	Kenyon Street and Adams Mill Road, NW	044	12/12/2023	*			
66	Adams Mill Road and Lamont Street, NW	045	12/12/2023	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	12/12/2023	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	12/12/2023	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	12/12/2023	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	12/12/2023	*			
70i	5 th and Quackenbos Streets, NW	049	12/04/2023	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	12/04/2023	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	12/11/2023	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	12/11/2023	*			
73	O Street Extended and Rock Creek Parkway, NW	052	12/11/2023	*			
74 ^l	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	12/20/2023	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	12/20/2023	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	12/20/2023	*			
78 ^l	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ^l	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	12/11/2023	*			
84a	26 th and P Streets, NW	060	12/11/2023	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	12/13/2023	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	12/13/2023	*			
89	First and V St, NW (First St Tunnel)	019	12/13/2023	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
90	First and V St, NW (First St Tunnel)	019	12/13/2023	*			
91	First and V St, NW (First St Tunnel)	019	12/13/2023	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	12/21/2023	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	12/21/2023	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	12/06/2023	*			
96	CSO 007 Shaft at 11 th St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	12/21/2023	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	12/21/2023	*			
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 – 012	12/21/2023	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	12/14/2023	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	12/14/2023	*			
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	12/21/2023	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	12/21/2023	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	12/21/2023	*			
104	Poplar Point PS Discharge Chamber	N/A	12/21/2023	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	12/21/2023	*			
106 ²	R Street Diversion Chamber (RS-DC) and R Street Drop Shaft (RS-DS)	019	12/13/2023	*			
107 ²	Florida Avenue Diversion Chamber (FLA-DC), Florida Avenue Drop Shaft (FLA-DS)	019	12/13/2023	*			
108 ²	T Street Junction Chamber (TS-JC), T Street Drop Shaft (TS-DS)	019	12/13/2023	*			
109 ²	4th Street NE Diversion Chamber (4S-DC), 4th Street Drop Shaft (4S-DS)	019	12/13/2023	*			
110 ²	Rhode Island Avenue Diversion Chamber (RIA-DC), Rhode Island Avenue Drop Shaft (RIA-DS)	019	12/13/2023	*			
111a ²	Mount Olivet Road Junction Chamber (MOR-JC)	019	12/13/2023	*			
111b ²	Mount Olivet Road Diversion Chamber (MOR-DC)	019	12/13/2023	*			
111c ²	Mount Olivet Road Drop Shaft (MOR-DS)	019	12/13/2023	*			

Notes:

1. Noted structures no longer function as a combined sewer overflow regulator structure.
2. Newly acquired Northeast Boundary Tunnel Regulator Structures.

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.

Table 2-2
Outfalls and Tide Gates

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003 ¹	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A									
003a	Joint Base Anacostia Bolling Macdill and Arnold Ave SW	12/21/2023	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	12/04/2023	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	12/04/2023	*		*		*		*		
009	O St. Sewage Pumping Station, SE	12/27/2023	*		*		*		*		
010	O St. Sewage Pumping Station, SE	12/27/2023	*			*			*		
011	Main Sewage Pumping Station, SE	12/27/2023	*			*			*		
011a	Main Sewage Pumping Station, SE	12/27/2023	*		*		*		*		
012	Main Sewage Pumping Station, SE	12/27/2023	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	12/27/2023	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	12/27/2023	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	12/27/2023	*			*			*		
016	12th and O Streets, SE	12/27/2023	*		*		*		*		
017	M and Water Street, SE	12/27/2023	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	12/27/2023	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	12/21/2023	*		*		*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	12/21/2023	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	12/18/2023	*		*		*		*		
021	Rock Creek Parkway and C St., NW	12/18/2023	*		*		*		*		
022	Rock Creek Parkway and G St., NW	12/18/2023	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	12/18/2023	*		*		*		*		
025 ¹	South of 31st and K Streets, NW	N/A									
026 ¹	Wisconsin Avenue and Water Street, NW	N/A									
027	33 rd and Water Sts., NW	12/18/2023	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	12/18/2023	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	12/18/2023	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW	12/18/2023	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	12/18/2023	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	12/11/2023	*			*			*		
035	P St. Bridge and Rock Creek Parkway	12/11/2023	*			*			*		
036	22nd Street, South of Q Street NW.	12/20/2023	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	12/04/2023	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	12/04/2023	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	12/04/2023	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	12/18/2023	*		*		*		*		
042	Harvard St. and Beach Dr NW.	12/18/2023	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	12/18/2023	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	12/18/2023	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	12/18/2023	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	12/12/2023	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	12/12/2023	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	12/12/2023	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	12/12/2023	*		*		*		*		
050	Rock Creek Parkway and L St., NW	12/04/2023	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	12/27/2023	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	12/27/2023	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	12/20/2023	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	12/20/2023	*		*		*		*		
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	12/20/2023	*		*		*		*		

Notes:

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**

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Work Order Number</i>	<i>Schedule to Restore to Service</i>
Main	30	3	4	None	-	-	-	-
O Street	30	2	4	None	-	-	-	-
Eastside	1	2	4	None	-	-	-	-
Poplar Point ¹	1	2	4	Screen #2	12/1/2023-12/13/2023	Screen damaged by guide rail failure.	24-60302	Returned to service on 12/13/23
				Screen #1	12/10/23-12/31/2023	Screen damaged by guide rail failure.	24-136991	Anticipated to return to service by 1/30/24
Potomac	30	4	5	None	-	-	-	-

Notes:

1. Poplar Point Pumping Station continued to meet firm capacity for the month of December 2023 despite screens being out concurrently between 12/10/2023 and 12/13/2023.

**Table 2-4
Pumping Stations – Preventive Maintenance**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed^{1,2}</i>	<i>Work Order Number</i>	<i>Comments</i>
Main	12/12/23	Group A	24-150790	Add oil, grease bearings and replace packing if needed.
O St	12/29/23	Group A	24-164659	Add oil, grease bearings and replace packing if needed.
Eastside	12/11/23	Group A	24-100736	Add oil, grease bearings and replace packing if needed.
Poplar Point	12/20/23	Group A	24-156012	Add oil, grease bearings and replace packing if needed.
Potomac	12/26/23	Group A	24-103594	Add oil, grease bearings and replace packing if needed.
Rock Creek	12//11/23	Group A	24-94826	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	12/11/23	Group A	24-156071	Add oil, grease bearings and replace packing if needed.
Earl Place	12/11/23	Group A	24-111155	Add oil, grease bearings and replace packing if needed.

Notes:

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 Vector truck as required
 - e. Check all safety equipment
 - f. Issue work order requests as required

**Table 2-5
Pumping Stations – Pumpage**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Screenings Collected (tons)¹</i>
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	
Main ^{1,2,3}	753.3649*	24.3021*	N/A
O St ^{1,2,4}	146.4223**	4.7233**	N/A
Eastside	166.9687	5.3861	N/A
Poplar Point	362.09	11.6803	N/A
Potomac	3802.7839	122.6704	N/A
Rock Creek	255.2087	8.2325	N/A
Upper Anacostia	40.885	1.3189	N/A
Earl Place	0.1597	0.005152	N/A

Notes:

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. On October 3, 2023, the Main PS M1 flow meter sensor failed due to water damage. Parts have been ordered and are awaiting delivery. See WO# 23-605881 *Values above are estimated using volume measured from M2 flow sensor, which means it does not capture the total volume pumped from Main PS.
4. On October 1, 2023, the O Street PS flow meter vault was flooded and caused the control board to fail. Parts have been ordered and are awaiting delivery. See WO# 24-10061. **Values above are estimated using pump speed and previous flow data.

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:

**Table 2-6
Inflatable Dams – Inspections and Equipment in Service**

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
14 - East	N/A	No	N/A	Note 1	N/A
14 - West	N/A	No	N/A	Note 1	N/A
15	12/14/23	No	N/A	N/A	N/A
15A	12/14/23	No	N/A	N/A	N/A
16 – East	12/14/23	No	N/A	Note 1	N/A
16 – West	12/14/23	No	N/A	Note 1	N/A
34	12/14/23	No	N/A	N/A	N/A
35	12/14/23	No	N/A	N/A	N/A
52	12/14/23	No	N/A	N/A	N/A

Notes:

1. As notified in the letter to EPA June 15, 2023 via email, inflatable dams will be renovated under our Capital Improvement Program. Structures 14 and 16 are currently under construction.

**Table 2-7
Inflatable Dams & SCADA Sites - Wet Weather Operations**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>	<i>Inflatable Dam Operational Status</i>
14 (E & W)	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
15	<i>12/18/23</i>	<i>4minutes 6s</i>	<i>Deflated</i>
15A	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
16 (E & W)	<i>12/18/23</i>	<i>56minutes 57s</i>	<i>Deflated</i>
34	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
35	<i>12/17/23</i>	<i>2hrs 5mins</i>	<i>Deflated</i>
	<i>12/18/23</i>	<i>51mins 3s</i>	<i>Deflated</i>
52	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>	<i>N/A</i>
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	
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>	
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	

Notes:

3. DRY WEATHER OVERFLOWS

There were no dry weather combined sewer overflows reported during December 2023.

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:

**Table 4-1
Catch Basin Cleaning**

Ward	Total CBs	CBs in CSS	Inspections			Cleaning					
			CBs in Anacostia CSS	Total Anacostia CBs Inspected Once this Year	Total Anacostia CBs Inspected Twice this Year	CBs Cleaned Thru Last Month		CB's Cleaned This Month		Total CBs Cleaned This Year to Date	
						Total	In CSS	Total	In CSS	Total	In CSS
1	1467	1442	655	646	645	1077	1070	286	286	1363	1356
2	2832	2647	486	486	486	1608	1497	235	235	1843	1732
3	3720	183	0	0	0	3379	3	0	0	3379	3
4	3521	1729	0	0	0	3410	1630	41	36	3451	1666
5	4066	1758	1693	1693	1693	3459	1393	617	607	4076	2000
6	3333	2692	2676	2676	2676	2819	2221	1148	1145	3967	3366
7	3879	43	43	43	43	3538	23	28	28	3566	51
8	2930	213	212	212	212	848	190	38	38	886	228
Grand Total	25748¹	10707¹	5765¹	5756	5755	20138	8027	2393	2375	22531	10402
% Cleaned/Inspected to Date				100%	100%					88%	97%

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
BMP Demonstration Projects – Report

<i>Facility</i>	<i>Date Inspected</i>	<i>Condition</i>	<i>Work Needed</i>	<i>Work performed</i>	<i>Material Removed (LB)</i>
Bar Rack CSO 040	12/04/2023	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	12/18/2023	Good	None	Routine Cleaning	(1)

Notes:

(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:

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

<i>Program Operation</i>	5-day work week, excluding holidays, weather permitting
<i>Work Days this month:</i>	19
<i>Days not Operating</i>	7
<i>Reason not Operating</i>	Maintenance, wind, low water levels.
<i># Skimmer in Fleet</i>	2 Skimmers
<i># Skimmers Out of Service</i>	2 Skimmers
<i>Dates</i>	B33: Dec 15 through Dec 17. B34: Dec 1 through Dec 18.
<i>Reason</i>	B33: Hydraulic fluid leak on propulsion lift cylinder. B34: Hydraulic fluid leak on propulsion tilt cylinder.
<i>Plan to Restore to Service</i>	B33 returned to service on Dec 18. B34 returned to service on Dec 19.
<i>Amount Material Collected</i>	15 tons this month. Calendar year to date 85 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

Notes:

(1) B32 has been permanently removed from service and decommissioned. The replacement is expected to arrive in January 2024

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**

Pumping Station	Date Inspected	Condition		Work Order Number	Work Needed	Work Performed or Schedule for Completion
		Good	Needs Work			
Bar Racks at O Street Storm Pumps (CSO 010)	12/12/23	X		24-150449		
Bar Racks at Main Storm Pumps (CSO 011)	12/5/23	X		24-150442		

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
12/1/2023	0.08	0.09	0.12	0.10	0.13
12/2/2023	0.03	0.01	0.02	0.02	0.03
12/3/2023	0.68	0.68	0.78	0.75	0.82
12/4/2023	0.01	0	0	0	0
12/5/2023	0	0	0	0	0
12/6/2023	0	0	0	0	0
12/7/2023	0	0	0	0	0
12/8/2023	0	0	0	0	0
12/9/2023	0	0	0	0	0
12/10/2023	1.24	1.01	1.27	1.25	1.21
12/11/2023	0.43	0.39	0.46	0.48	0.47
12/12/2023	0	0	0	0	0
12/13/2023	0	0	0	0	0
12/14/2023	0	0	0	0	0
12/15/2023	0	0	0	0	0
12/16/2023	0	0	0	0	0
12/17/2023	1.68	1.64	1.94	1.94	1.92
12/18/2023	0.46	0.43	0.50	0.50	0.49
12/19/2023	0	0	0	0	0
12/20/2023	0	0	0	0	0
12/21/2023	0	0	0	0	0
12/22/2023	0	0	0	0	0
12/23/2023	0	0	0	0	0
12/24/2023	0.02	0.02	0.01	0.01	0.01
12/25/2023	0	0	0	0	0
12/26/2023	0.08	0.10	0.10	0.11	0.11
12/27/2023	1.13	1.12	1.20	1.03	1.20
12/28/2023	0.02	0.02	0.03	0.02	0.04
12/29/2023	0	0	0	0	0
12/30/2023	0	0	0	0	0
12/31/2023	0	0	0	0	0
TOTAL	5.86	5.51	6.43	6.21	6.43

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 December 2023 Report.

District of Columbia Water and Sewer Authority
Combined Sewer System Model Results
 Period: Q4 2023 (October, November, December)

SCENARIO: QuarterlyReport_2023Q4_ALL, produced on 8 January 2024

NPDES No.	Description	Data Source	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
Anacostia CSOs								
005	Chicago St and Railroad Station SE	Modeled	1	0.01	0.50	0.50	0.50	0.50
006	Good Hope Road, West of Nichols Ave., SE	separated						
007	13 th Street and Ridge Place, SE	Metered	1	0.26	0.83	0.83	0.83	0.83
009	2nd Street, 300 feet North of N Place, SE	Metered	1	0.10	0.42	0.42	0.42	0.42
010	O Street SewagePumping Station, SE (pumped Overflow)	Metered	1	0.19	0.17	0.17	0.17	0.17
011	South of Main Sewage Pumping Station, SE (pumped overflow)	Metered	0	0.00	0.00	0.00	0.00	0.00
011a	South of Main SewagePumping Station, SE (gravity overflow)	Metered	0	0.00	0.00	0.00	0.00	0.00
012	North of Main SewagePumping Station, SE (Tiber Creek)	Metered	1	2.58	1.00	1.00	1.00	1.00
013	4th and N Streets, SE	Modeled	1	0.002	0.25	0.25	0.25	0.25
014	6th and M Streets, SE	Modeled	1	0.003	0.25	0.25	0.25	0.25
015	9th and M Streets, SE	consolidated to tunnel system						
016	12th and M Streets, SE	consolidated to tunnel system						
017	14th and M Streets, SE	consolidated to tunnel system						
018	Barney Circle and Pennsylvania Ave, SE	consolidated to tunnel system						
019	Northeast Boundary	Metered	1	20.85	17.58	17.58	17.58	17.58
019A	Northeast Boundary - Tunnel OF	Metered	1	12.75	2.33	2.33	2.33	2.33
	SUBTOTAL			36.74				
Potomac CSOs								
003A	JBAB Tunnel OF	Metered	1	12.21	2.58	2.58	2.58	2.58
020	23rd Street, North ofConstitution Ave, NW (Easby Point)	Modeled	5	28.87	23.25	4.65	9.50	1.25
021	Northeast ofRoosevelt Bridge, NW	Modeled	5	163.83	35.25	7.05	10.75	2.75
022	27th and K Streets, NW	Modeled	6	2.590	57.00	9.50	18.00	3.50
024	30th and K Streets, NW	Modeled	7	10.63	76.50	10.93	20.25	4.75
025	31st & K St NW	Modeled	5	0.0366	18.50	3.70	13.75	0.25
026	Wisconsin Avenue andK St., NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West ofStreet, NW	Modeled	6	6.59	49.75	8.29	19.00	0.75
028	36th and M Streets, NW	Modeled	8	3.35	75.75	9.47	19.75	0.25
029	Canal Road 1000 feet east of Rock Creek, NW	Modeled	6	5.56	58.50	9.75	19.00	4.75
	SUBTOTAL			233.67				
Rock Creek								
031	Pennsylvania Avenue, East Rock Creek, NW	separated						
032	26th and M Streets, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
033	N Street extendedwest of 25th Street, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
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
036	22nd Street South of Q Street, NW	Modeled	6	0.3630	33.75	5.63	10.75	0.25
037	Northwest of Belmontand Rock Creek and Potomac Parkway	separated						
038	North of Belmont Road, east of Kalamazoo Circle, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
040	Billmore Street extended east of RockCreek, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
041	Ontario extended and Rock Creek Parkway	Modeled	0	0.00	0.00	0.00	0.00	0.00
042	Harvard Street and RockCreek Parkway, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
043	Adams Mill Road South of Irving Street, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
044	Kenyon Street and Adams Mill Road, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
045	Adams Mill Road and Lamont Street, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
046	Park Road south of Piney Branch Parkway, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
047	Ingleside Terrace extended and Piney Branch Parkway	Modeled	0	0.00	0.00	0.00	0.00	0.00
048	Mt. Pleasant Street extended and Piney Branch Parkway	Modeled	0	0.00	0.00	0.00	0.00	0.00
049	Piney Branch and LamontStreet, NW	Modeled	2	2.31	3.00	1.50	2.00	1.00
050	28th Street west of 16th Street, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
051	Olive Street extended and Rock Creek Parkway, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
052	O Street extended and Rock Creek Parkway, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
053	O Street west of Rock Creek Parkway, NW	separated						
054	West Side of Rock Creek300 ft. south of Mass. Ave, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
056	Normanstone Drive extended west of Rock Creek, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
057	28th Street extended west of Rock Creek, NW	separated						
058	Connecticut Avenue and Rock Creek Parkway, NW	separated						
060	P St and 26 th St, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL			2.6752				
	TOTAL			273.09				

District of Columbia Water and Sewer Authority
Combined Sewer System Model Results
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NPDES No.	Description	Data Source	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
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Prepared by: Greeley and Hansen LLC and Limno-Tech, Inc.