

# QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

FOURTH QUARTER, FY 2019

Prepared By:

D.C. Water and Sewer Authority  
Department of Sewer Services  
2<sup>nd</sup> & N Streets, SE  
Washington, D.C. 20003



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

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

**Month: October 2019**

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*Monthly Operations Report for Combined Sewer System*  
*Month: October 2019*

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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 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
4 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
5 <sup>1</sup>	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	10/02/19	*			
7	W Street and Railroad Ave, SE	005	10/02/19	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE (Diversion Structure)	007	10/02/19	*			
9a	13 <sup>th</sup> Street and Ridge Place, SE (Regulator Structure)	007	10/02/19	*			
9b	11 <sup>th</sup> Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	10/21/19	*			
11	"O" Street Pumping Station	011(a)	10/28/19	*			
12	Storm Pump Discharge at Main Pumping Station	011	10/10/19	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	10/28/19	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	10/15/19	*			
15	South Capitol and E Streets	010	10/15/19	*			
15a	Half and L Streets, SE	010	10/15/19	*			
15b	South Capitol and I Streets	010	10/08/19	*			
15c	South Capitol and I Streets	010	10/08/19	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
16	North of Main Sewage Pumping Station	012	10/15/19	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	10/11/19	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE (Side Overflow Weir)	013	10/28/19	*			
17b	4 <sup>th</sup> and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	10/11/19	*			
18	6 <sup>th</sup> and M Streets, SE (Diversion and Overflow Structure)	014	10/08/19	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	10/11/19	*			
19	9 <sup>th</sup> and M Streets, SE	015	10/11/19	*			
19a	9 <sup>th</sup> and M Streets, SE	015	10/11/19	*			
19b	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	10/11/19		*	Routine check at this location. The roadway cast iron plates are unstable and will be replaced with steel traffic rated plates by November 2019	
19c	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	10/11/19		*	Routine check at this location. The roadway cast iron plates are unstable and will be replaced with steel traffic rated plates by January 2020	
20	12 <sup>th</sup> and M Streets, SE	016	10/11/19	*			
20a	12 <sup>th</sup> and M Streets, SE	016	10/11/19	*			
20b	12 <sup>th</sup> and M Streets, SE (CSO-016 Diversion Chamber)	016	10/11/19	*			
21	14 <sup>th</sup> and M Streets, SE	017	10/11/19	*			
21a	14 <sup>th</sup> and M Streets, SE (CSO-017 Diversion Chamber)	017	10/11/19	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	10/28/19	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	10/28/19	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	10/28/19	*			
22d	Kentucky Ave and Potomac Street, SE	018	10/07/19	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	10/07/19	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	10/17/19	*			
24a	East Capitol St, west of RFK stadium	019	10/17/19	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	10/02/19	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	10/02/19	*			
30	17 <sup>th</sup> and D Streets, NW	020	10/02/19	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	10/02/19	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
33	10 <sup>th</sup> and F Streets, NW	020	10/02/19	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	10/17/19	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	10/02/19	*			
35	Northeast of Roosevelt Bridge, NW	021	10/17/19		*	See October CSO report, table 2-6, note 1	
35c	Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW	021	10/17/19	*			
36	27 <sup>th</sup> and I Streets, NW	022	10/02/19	*			
36a	New Hampshire Ave and Eye Street, NW	022	10/02/19	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	10/04/19	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	10/04/19	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	10/04/19	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	10/04/19	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	10/02/19	*			
38	29 <sup>th</sup> and K Streets, NW	024	10/04/19	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	10/04/19	*			
39a	30 <sup>th</sup> and K Streets, NW	024	10/04/19	*			
39b	30 <sup>th</sup> and K Streets, NW	024	10/04/19	*			
41b	31 <sup>st</sup> and K Streets, NW	025	10/04/19	*			
41c	31 <sup>st</sup> and K Streets, NW	025	10/04/19	*			
42	Wisconsin Ave and K Street, NW	026	10/04/19	*			
43	Potomac and Water Streets, NW	027	10/04/19	*			
43a	Potomac and Water Streets, NW	027	10/04/19	*			
44	Water Street, west of Potomac St, NW	027	10/04/19	*			
45	36 <sup>th</sup> and M Streets, NW	028	10/01/19	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	10/01/19	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	10/01/19	*			
47a	37 <sup>th</sup> and T Streets, NW	029	10/01/19	*			
47b	37 <sup>th</sup> and T Streets, NW	029	10/01/19	*			
47c	38 <sup>th</sup> and W Streets, NW	029	10/01/19	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	10/07/19	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	10/07/19	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	10/22/19	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	10/22/19	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	10/22/19	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	10/22/19	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	10/28/19	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	10/28/19	*			
54	23 <sup>rd</sup> and O Streets, NW	034	10/08/19	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	10/08/19	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	10/08/19	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	10/08/19	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	10/08/19	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	10/01/19	*			
60	Connecticut Ave, east of Rock Creek, NW	039	10/01/19	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	10/01/19	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	10/09/19	*			
63	Harvard Street and Rock Creek Parkway, NW	042	10/09/19	*			
64	Adams Mill Road, south of Irving Street, NW	043	10/09/19	*			
65	Kenyon Street and Adams Mill Road, NW	044	10/09/19	*			
65a	Kenyon Street and Adams Mill Road, NW	044	10/09/19	*			
66	Adams Mill Road and Lamont Street, NW	045	10/09/19	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	10/09/19	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	10/09/19	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	10/09/19	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	10/09/19	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	10/02/19	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	10/01/19	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	10/08/19	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	10/08/19	*			
73	O Street Extended and Rock Creek Parkway, NW	052	10/08/19	*			
74 <sup>l</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	10/07/19	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	10/07/19	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
77a	Normanstone Dr and Normanstone Lane, NW	056	10/07/19	*			
78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	10/08/19	*			
84a	26 <sup>th</sup> and P Streets, NW	060	10/08/19	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	10/29/19	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	10/29/19	*			
89	First and V St, NW (First St Tunnel)	019	10/29/19	*			
90	First and V St, NW (First St Tunnel)	019	10/29/19	*			
91	First and V St, NW (First St Tunnel)	019	10/29/19	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	10/21/19	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	10/21/19	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	10/11/19	*			
96	CSO 007 Shaft at 11 <sup>th</sup> St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	10/21/19	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	10/21/19	*			
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 - 012	10/28/19	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	10/15/19	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	10/15/19		*	Replacement stop log is on-going at this location. DSS is working with contractor.	
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	10/23/19	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	10/23/19	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	10/01/19	*			
104	Poplar Point PS Discharge Chamber	N/A	10/23/19	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	10/23/19	*			

Notes:

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

## 2.2 Outfalls, Tide Gates and CSO Signs

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

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**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 <sup>1</sup>	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A									
003a	Joint Base Anacostia Bolling, Macdill and Arnold Ave SW	10/23/19	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	10/17/19	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	10/17/19	*		*		*		*		
009	O St. Sewage Pumping Station, SE	10/10/19	*		*		*		*		
010	O St. Sewage Pumping Station, SE	10/10/19	*			*			*		
011	Main Sewage Pumping Station, SE	10/10/19	*			*			*		
011a	Main Sewage Pumping Station, SE	10/10/19	*		*		*		*		
012	Main Sewage Pumping Station, SE	10/10/19	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	10/10/19	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	10/10/19	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	10/10/19	*			*			*		
016	12th and O Streets, SE	10/10/19	*		*		*		*		
017	M and Water Street, SE	10/10/19	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	10/10/19	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	10/21/19	*		*		*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	10/21/19	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	10/03/19	*		*		*		*		
021	Rock Creek Parkway and C St., NW	10/03/19	*		*		*		*		
022	Rock Creek Parkway and G St., NW	10/03/19	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	10/03/19	*		*		*		*		
025	South of 31st and K Streets, NW	10/03/19	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	10/03/19	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	10/03/19	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	10/03/19	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	10/03/19	*			*			*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW	10/07/19	*			*			*		

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	
033	Across street from St. Francis Jr. High and aligned with N St., NW.	10/07/19	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	10/08/19	*			*			*		
035	P St. Bridge and Rock Creek Parkway	10/08/19	*			*			*		
036	22nd Street, South of Q Street NW.	10/17/19	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	10/01/19	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	10/01/19	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	10/01/19	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	10/03/19	*		*		*		*		
042	Harvard St. and Beach Dr NW.	10/03/19	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	10/03/19	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	10/03/19	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	10/03/19	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	10/09/19	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	10/09/19	*		*		*		*		
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	10/09/19	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	10/09/19	*		*			*	*		On 10/09/19 DSS inspectors report, far left gate the eye hole to lift the gate is loose and needs to be replaced. Contractors repaired eye hole, on a later date in October 2019.
050	Rock Creek Parkway and L St., NW	10/01/19	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	10/17/19	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	10/17/19	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	10/07/19	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	10/07/19	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	10/17/19	*		*		*		*		

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	-	-	-	-
Eastside	1	2	4	None	-	-	-	-
Poplar Point	1	2	4	None	-	-	-	-
Potomac	31	4	5	Screen #4	10/01/19 – 10/24/19	Bearing and Rake Issue, Screen Not Running	19-617966	Defective rake motor was replaced. Screen returned to service on 10/24/19.

Notes:

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

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1,2</sup></i>	<i>Work Order Number</i>	<i>Comments</i>
Main	10/16/19	Group A	19-653829	Add oil, grease bearings and replace packing if needed.
O St	10/04/19	Group A	19-680539	Add oil, grease bearings and replace packing if needed.
Eastside	10/12/19	Group A	19-668371	Add oil, grease bearings and replace packing if needed.
Poplar Point	10/26/19	Group A	19-651371	Add oil, grease bearings and replace packing if needed.
Potomac	10/24/19	Group A	19-668763	Add oil, grease bearings and replace packing if needed.
Rock Creek	10/12/19	Group A	19-680553	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	10/26/19	Group A	19-653843	Add oil, grease bearings and replace packing if needed.
Earl Place	10/26/19	Group A	19-689926	Add oil, grease bearings and replace packing if needed.
1 <sup>st</sup> Street Tunnel Dewatering	10/28/19	Group B	20-102466	

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
2. Group B consists of:
  - a. Inspect and manually run CSO Pumps
  - b. Generator:
    - i. Inspection operation and test, inspect oil level, inspect coolant level
  - c. MCC:
    - i. Test gas monitoring system
    - ii. Inspect and test level indicators
  - d. Valve Vault
    - i. Lubricate knife gate valve stem and stem nut
    - ii. Flush air and vacuum release valve

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

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Screenings Collected (tons)<sup>1</sup></i>	<i>Pumpage of CSO from First Street Tunnel back to Sewer System</i>	
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>		<i>Date</i>	<i>Volume (mg)</i>
Main <sup>1,2</sup>	1457.56	47.02	N/A	N/A	N/A
O St <sup>1,2</sup>	148.09	4.78	N/A	N/A	N/A
Eastside	130.39	4.21	N/A	N/A	N/A
Poplar Point	308.65	9.96	N/A	N/A	N/A
Potomac	4200.44	135.50	N/A	N/A	N/A
Rock Creek	151.73	4.89	N/A	N/A	N/A
Upper Anacostia	17.66	0.57	N/A	N/A	N/A
Earl Place	2.478	0.080	N/A	N/A	N/A
1 <sup>st</sup> Street Tunnel Dewatering	N/A	N/A	N/A	10/6/19	0.17
				10/21/19	0.17
				10/31/19	0.16

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.

## 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	10/15/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
14 - West	10/15/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
15	10/15/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
15A	10/15/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
16 - East	10/15/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
16 - West	10/15/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
34	10/22/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
35 <sup>1</sup>	10/22/19	<b>Yes</b>	<b>10/01/19 to 10/23/19</b>	<b>See Note 1</b>	<b>10/23/19</b>
52	10/22/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

Notes:

- Structure 35 was taken out of service on 8/23/19 due to a pending investigation regarding the venting of trapped air and dislodging of a manhole cover during a significant rain event on 8/20/19. DC Water has investigated the cause of the occurrence, including reviewing the operation of the dam, the dam set points and other factors that may have contributed to the event. Standard Operating Procedures (SOPs) were reviewed in conjunction with the programming language to ensure proper consistency with documented protocols and operating function. The operation of Structure #35 is in accordance with the SOPs, with the exception of the backup float switch and downstream level instrument. The backup float was found to only stop inflation/deflation, not provide full emergency deflation and the downstream flow instrument was not replaced/connected as anticipated after the installation of the venting structure at Structure #35. Tide gates were installed to prevent river water from entering the combined sewer, however in the event the tide gates get stuck open the downstream flow instrument and level sensor could provide direction to Structure #35 to remain inflated due to high downstream levels. These corrections are in progress of being implemented and will be completed by November 2019. As of October 23, 2019, Structure #35 was placed back in automatic operation with the corrective action in place as stated above.

**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>
14 (E & W)	10/28/19 10/31/19	0 hrs. 19 mins 1 hrs. 52 mins
15	None	N/A
15A	None	N/A
16 (E & W)	10/31/19	0 hrs. 28 mins
34	None	N/A
35	10/27/19 10/31/19	1 hr. 12 mins 0 hrs. 46 mins
52	10/31/19	0 hrs. 2 mins
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</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 was no dry weather combined sewer overflow during October 2019.

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	1449	1426	652	650	590	1094	1074	240	240	1334	1314
2	2792	2642	476	476	395	2147	2008	268	253	2415	2261
3	3687	187	0	0	0	3461	164	45	0	3506	164
4	3495	1723	0	0	0	3164	1528	5	3	3169	1531
5	4007	1769	1692	1692	1573	2777	870	916	904	3693	1774
6	3316	2666	2647	2644	1906	1030	596	1418	1412	2448	2008
7	3785	43	41	41	41	2263	45	186	2	2449	47
8	2832	212	209	208	187	2029	15	418	175	2447	190
<b>Grand Total</b>	<b>25363<sup>1</sup></b>	<b>10668<sup>1</sup></b>	<b>5717<sup>1</sup></b>	<b>5711</b>	<b>4692</b>	<b>17965</b>	<b>6300</b>	<b>3496</b>	<b>2989</b>	<b>21461</b>	<b>9289</b>
% Cleaned/Inspected to Date				<b>100%</b>	<b>82%</b>					<b>85%</b>	<b>87%</b>

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.

- Netting system at CSO 018 to Anacostia River
- 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>
Netting System CSO 018	10/4/2019	Good	None	None	None
Bar Rack CSO 040	10/01/19	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	10/03/19	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 Services. 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>	7
<i>Reason not Operating</i>	Maintenance, wind, low water levels, lightning.
<i># Skimmer in Fleet</i>	3 Skimmers
<i># Skimmers Out of Service</i>	3 Skimmers
<i>Dates</i>	B32: 10/1 - 10/31. B33: 10/7 - 10/30. B34: 10/7 - 10/9.
<i>Reason</i>	B32: #1 screen not working. B33 and B34: hydraulic oil leaks.
<i>Plan to Restore to Service</i>	B32: waiting for parts ETR unknown. B33 returned to operations on 10/30. B34 returned to operations on 10/9.
<i>Amount Material Collected</i>	10 tons this month. Calendar year to date 340 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**

Inspector: Keith Watts

Pumping Station	Inspector	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)	KW	10/26/19	X		20-44752		
Bar Racks at Main Storm Pumps (CSO 011)	KW	10/26/19	X		20-44745		

## **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
10/1/2019	0	0	0	0	0
10/2/2019	0	0	0	0	0
10/3/2019	0	0	0	0	0
10/4/2019	0	0	0	0	0
10/5/2019	0	0	0	0	0
10/6/2019	0	0	0	0	0
10/7/2019	0	0	0	0.01	0.02
10/8/2019	0	0	0	0	0
10/9/2019	0.02	0.03	0.03	0.03	0
10/10/2019	0	0	0	0	0
10/11/2019	0	0	0	0	0
10/12/2019	0	0	0	0	0
10/13/2019	0	0	0.09	0	0.12
10/14/2019	0	0	0	0	0
10/15/2019	0	0	0	0	0
10/16/2019	1.27	1.08	1.30	1.30	1.35
10/17/2019	0	0	0	0	0
10/18/2019	0	0	0	0	0
10/19/2019	0	0	0	0	0
10/20/2019	1.35	1.56	1.68	1.91	1.60
10/21/2019	0	0	0	0	0
10/22/2019	0.58	0.56	0.58	0.56	0.58
10/23/2019	0.01	0	0	0.01	0
10/24/2019	0	0	0	0	0
10/25/2019	0	0	0	0	0
10/26/2019	0	0	0	0	0
10/27/2019	0.98	1.24	1.36	1.33	1.48
10/28/2019	0	0	0	0	0
10/29/2019	0	0	0	0	0
10/30/2019	0.21	0.29	0.24	0.29	0.26
10/31/2019	1.54	1.06	1.25	1.31	1.25
TOTAL	5.96	5.82	6.53	6.75	6.66

### **5.3 Wet Weather Overflows**

Combined Sewer System Model Results are summarized below.

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results  
 Period: October, November, & December 2020  
 SCENARIO: QuarterlyReport\_2019Q4, January 8, 2020

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)
<b>Anacostia CSOs</b>								
005	Chicago St and Railroad Station SE	Modeled	0	0.00	0.00	0.00	0.00	0.00
006	Good Hope Road, West of Nichols Ave., SE	separated						
007	13 <sup>th</sup> Street and Ridge Place, SE	Metered	2	0.49	0.50	0.25	0.42	0.08
009	2nd Street, 300 feet North of N Place, SE	Metered	0	0.00	0.00	0.00	0.00	0.00
010	O Street Sewage Pumping Station, SE (pumped Overflow)	Metered	1	16.17	6.42	6.42	6.42	6.42
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 Sewage Pumping Station, SE (gravity overflow)	Metered	0	0.00	0.00	0.00	0.00	0.00
012	North of Main Sewage Pumping Station, SE (Tiber Creek)	Metered	1	0.94	0.67	0.67	0.67	0.67
013	4th and N Streets, SE	Modeled	0	0.00	0.00	0.00	0.00	0.00
014	6th and M Streets, SE	Modeled	0	0.00	0.00	0.00	0.00	0.00
015	9th and M Streets, SE	consolidated to tunnel system						
016	12th and M Streets, SE	consolidated to tunnel system						
017	14th and M Streets, SE	consolidated to tunnel system						
018	Bamey Circle and Pennsylvania Ave, SE	consolidated to tunnel system						
019	Northeast Boundary	Metered	0	0.00	0.00	0.00	0.00	0.00
019A	Northeast Boundary - Tunnel OF	Metered	0	0.00	0.00	0.00	0.00	0.00
	<b>SUBTOTAL</b>			<b>17.60</b>				
<b>Potomac CSOs</b>								
003A	JBAB Tunnel OF	Metered	0	0.00	0.00	0.00	0.00	0.00
020	23rd Street, North of Constitution Ave, NW (Easby Point)	Modeled	7	24.10	20.00	2.86	8.25	0.25
021	Northeast of Roosevelt Bridge, NW	Modeled	7	115.34	22.75	3.25	7.75	1.75
022	27th and K Streets, NW	Modeled	11	9.44	29.50	2.68	8.25	0.25
024	30th and K Streets, NW	Modeled	7	6.57	13.25	1.89	5.50	0.50
025	31st & K St NW	Modeled	3	0.10	2.25	0.75	1.25	0.25
026	Wisconsin Avenue and K St., NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West of Street, NW	Modeled	10	6.83	30.75	3.08	10.00	0.25
028	36th and M Streets, NW	Modeled	16	4.10	112.75	7.05	16.50	0.75
029	Canal Road 1000 feet east of Rock Creek, NW	Modeled	12	9.87	35.50	2.96	10.50	0.75
	<b>SUBTOTAL</b>			<b>176.35</b>				
<b>Rock Creek</b>								
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 extended west 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	7	0.370	21.50	3.07	8.00	1.25
037	Northwest of Belmont and 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	1	0.01	0.25	0.25	0.25	0.25
040	Biltmore Street extended east of Rock Creek, NW	Modeled	1	0.03	0.25	0.25	0.25	0.25
041	Ontario extended and Rock Creek Parkway	Modeled	0	0.00	0.00	0.00	0.00	0.00
042	Harvard Street and Rock Creek Parkway, NW	Modeled	1	0.09	0.25	0.25	0.25	0.25
043	Adams Mill Road South of Irving Street, NW	Modeled	1	0.46	0.50	0.50	0.50	0.50
044	Kenyon Street and Adams Mill Road, NW	Modeled	1	0.0330	0.25	0.25	0.25	0.25
045	Adams Mill Road and Lamont Street, NW	Modeled	1	0.06	0.25	0.25	0.25	0.25
046	Park Road south of Piney Branch Parkway, NW	Modeled	1	0.03	0.25	0.25	0.25	0.25
047	Ingleside Terrace extended and Piney Branch Parkway	Modeled	1	0.00	0.25	0.25	0.25	0.25
048	Mt. Pleasant Street extended and Piney Branch Parkway	Modeled	1	0.11	0.25	0.25	0.25	0.25
049	Piney Branch and Lamont Street, NW	Modeled	7	17.82	24.75	3.54	8.75	1.75
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 Creek 300 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 <sup>th</sup> St, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
	<b>SUBTOTAL</b>			<b>19.01</b>				
	<b>TOTAL</b>			<b>212.96</b>				

District of Columbia Water and Sewer Authority

**Combined Sewer System Model Results**  
**Period: October, November, & December 2020**  
**SCENARIO: QuarterlyReport\_2019Q4, January 8, 2020**

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.



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

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

**Month: November 2019**

**Prepared By:**  
District of Columbia  
Water and Sewer Authority  
Department of Sewer Services  
Washington, D.C. 20003

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

*Monthly Operations Report for Combined Sewer System*  
*Month: November 2019*

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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 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
4 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
5 <sup>1</sup>	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	11/26/19	*			
7	W Street and Railroad Ave, SE	005	11/26/19	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE (Diversion Structure)	007	11/26/19	*			
9a	13 <sup>th</sup> Street and Ridge Place, SE (Regulator Structure)	007	11/26/19	*			
9b	11 <sup>th</sup> Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	11/25/19		*	Structure is operating as normal Plates are in need of adjustments and additional bolts. Anticipated date of completion in January 2020.	
11	"O" Street Pumping Station	011(a)	11/27/19	*			
12	Storm Pump Discharge at Main Pumping Station	011	11/07/19	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	11/27/19	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	11/19/19	*			
15	South Capitol and E Streets	010	11/19/19	*			
15a	Half and L Streets, SE	010	11/19/19	*			
15b	South Capitol and I Streets	010	11/27/19	*			
15c	South Capitol and I Streets	010	11/27/19	*			
16	North of Main Sewage Pumping Station	012	11/19/19	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	11/22/19	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE (Side Overflow Weir)	013	11/22/19	*			
17b	4 <sup>th</sup> and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	11/22/19	*			
18	6 <sup>th</sup> and M Streets, SE (Diversion and Overflow Structure)	014	11/08/19	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	11/22/19	*			
19	9 <sup>th</sup> and M Streets, SE	015	11/25/19	*			
19a	9 <sup>th</sup> and M Streets, SE	015	11/25/19	*			
19b	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	11/25/19	*			Structure operating as normal. Traffic rated plates were redesigned and replaced to withstand vehicular vibration.
19c	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	11/25/19		*	Structure operating as normal. Traffic rated plates redesigned to fit securely on top of pour concrete lip. Expected replacement Jan. 2020.	
20	12 <sup>th</sup> and M Streets, SE	016	11/25/19	*			
20a	12 <sup>th</sup> and M Streets, SE	016	11/25/19	*			
20b	12 <sup>th</sup> and M Streets, SE (CSO-016 Diversion Chamber)	016	11/25/19	*			
21	14 <sup>th</sup> and M Streets, SE	017	11/25/19	*			
21a	14 <sup>th</sup> and M Streets, SE (CSO-017 Diversion Chamber)	017	11/25/19	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	11/22/19	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	11/22/19	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	11/22/19	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
22d	Kentucky Ave and Potomac Street, SE	018	11/22/19	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	11/22/19	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	11/22/19	*			
24a	East Capitol St, west of RFK stadium	019	11/22/19	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	11/06/19	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	11/06/19	*			
30	17 <sup>th</sup> and D Streets, NW	020	11/06/19	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	11/06/19	*			
33	10 <sup>th</sup> and F Streets, NW	020	11/05/19	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	11/26/19	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	11/06/19	*			
35	Northeast of Roosevelt Bridge, NW	021	11/21/19	*			
35c	Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW	021	11/21/19	*			
36	27 <sup>th</sup> and I Streets, NW	022	11/06/19	*			
36a	New Hampshire Ave and Eye Street, NW	022	11/06/19	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	11/08/19	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	11/08/19	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	11/08/19	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	11/13/19	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	11/06/19	*			
38	29 <sup>th</sup> and K Streets, NW	024	11/08/19	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	11/08/19	*			
39a	30 <sup>th</sup> and K Streets, NW	024	11/08/19	*			
39b	30 <sup>th</sup> and K Streets, NW	024	11/08/19	*			
41b	31 <sup>st</sup> and K Streets, NW	025	11/08/19	*			
41c	31 <sup>st</sup> and K Streets, NW	025	11/08/19	*			
42	Wisconsin Ave and K Street, NW	026	11/08/19	*			
43	Potomac and Water Streets, NW	027	11/08/19	*			
43a	Potomac and Water Streets, NW	027	11/08/19	*			
44	Water Street, west of Potomac St, NW	027	11/08/19	*			
45	36 <sup>th</sup> and M Streets, NW	028	11/01/19	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	11/01/19	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	11/01/19	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47a	37 <sup>th</sup> and T Streets, NW	029	11/01/19	*			
47b	37 <sup>th</sup> and T Streets, NW	029	11/01/19	*			
47c	38 <sup>th</sup> and W Streets, NW	029	11/01/19	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	11/27/19	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	11/27/19	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	11/21/19	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	11/21/19	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	11/21/19	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	11/21/19	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	11/18/19	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	11/18/19	*			
54	23 <sup>rd</sup> and O Streets, NW	034	11/12/19	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	11/12/19	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	11/12/19	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	11/12/19	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	11/12/19	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	11/20/19	*			
60	Connecticut Ave, east of Rock Creek, NW	039	11/20/19	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	11/20/19	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	11/13/19	*			
63	Harvard Street and Rock Creek Parkway, NW	042	11/13/19	*			
64	Adams Mill Road, south of Irving Street, NW	043	11/13/19	*			
65	Kenyon Street and Adams Mill Road, NW	044	11/13/19	*			
65a	Kenyon Street and Adams Mill Road, NW	044	11/13/19	*			
66	Adams Mill Road and Lamont Street, NW	045	11/13/19	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	11/13/19	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	11/13/19	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	11/13/19	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	11/13/19	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	11/18/19	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	11/14/19	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
72	Olive Street Extended and Rock Creek Pkwy, NW	051	11/12/19	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	11/12/19	*			
73	O Street Extended and Rock Creek Parkway, NW	052	11/12/19	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	11/26/19	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	11/26/19	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	11/26/19	*			
78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	11/12/19	*			
84a	26 <sup>th</sup> and P Streets, NW	060	11/12/19	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	11/14/19	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	11/14/19	*			
89	First and V St, NW (First St Tunnel)	019	11/14/19	*			
90	First and V St, NW (First St Tunnel)	019	11/14/19	*			
91	First and V St, NW (First St Tunnel)	019	11/14/19	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	11/18/19	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	11/26/19	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	11/25/19	*			
96	CSO 007 Shaft at 11 <sup>th</sup> St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	11/25/19	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	11/25/19		*	11/25/19 Routine check at this location. Heavy debris inside the line at this location, cleaning recommended. First cleaning scheduled in 12/21/19.	
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 - 012	11/27/19	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	11/19/19	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	11/19/19		*	Replacement stop log is on-going at this location. DSS is working with contractor.	

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	11/25/19	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	11/25/19	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	11/25/19	*			
104	Poplar Point PS Discharge Chamber	N/A	11/25/19	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	11/25/19	*			

Notes:

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

## 2.2 Outfalls, Tide Gates and CSO Signs

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

**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 <sup>1</sup>	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A									
003a	Joint Base Anacostia Bolling Macdill and Arnold Ave SW	11/25/19	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	11/14/19	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	11/14/19	*		*		*		*		
009	O St. Sewage Pumping Station, SE	11/07/19	*		*		*		*		
010	O St. Sewage Pumping Station, SE	11/07/19	*			*			*		
011	Main Sewage Pumping Station, SE	11/07/19	*			*			*		
011a	Main Sewage Pumping Station, SE	11/07/19	*		*		*		*		
012	Main Sewage Pumping Station, SE	11/07/19	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	11/07/19	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	11/07/19	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	11/07/19	*			*			*		
016	12th and O Streets, SE	11/27/19	*		*		*		*		
017	M and Water Street, SE	11/27/19	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	11/27/19	*		*		*		*		

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	
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	11/18/19	*		*		*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	11/18/19	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	11/08/19	*		*		*		*		
021	Rock Creek Parkway and C St., NW	11/07/19	*		*		*		*		
022	Rock Creek Parkway and G St., NW	11/07/19	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	11/07/19	*		*		*		*		
025	South of 31st and K Streets, NW	11/07/19	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	11/07/19	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	11/07/19	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	11/07/19	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	11/07/19	*			*			*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW	11/27/19	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	11/27/19	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	11/12/19	*			*			*		
035	P St. Bridge and Rock Creek Parkway	11/12/19	*			*			*		
036	22nd Street, South of Q Street NW.	11/26/19	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	11/20/19	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	11/20/19	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	11/20/19	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	11/14/19	*		*		*		*		
042	Harvard St. and Beach Dr NW.	11/14/19	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	11/14/19	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	11/14/19	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	11/14/19	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	11/13/19	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	11/13/19	*		*		*		*		
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	11/13/19	*		*		*		*		

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	
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	11/13/19	*		*		*		*		
050	Rock Creek Parkway and L St., NW	11/14/19	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	11/14/19	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	11/14/19	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	11/26/19	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	11/26/19	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	11/26/19	*		*		*		*		

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	Screen #1	11/18/19 – 11/30/19	Screen #1 is being removed and replaced with a new screen as part of a facilities upgrade CIP.	20-173320	Installation of the new screen is currently ongoing and is expected to return to service by 01/31/20.
Eastside	1	2	4	None	-	-	-	-
Poplar Point	1	2	4	None	-	-	-	-
Potomac	30	4	5	Pump #4	11/16/19 – 11/21/19	DPO personnel supported ACE contractor in program and instrumentation changes to the seal water system for Pump #4.	20-118236	Pump was returned to service on 11/21/19.

Notes:

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

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed <sup>1,2</sup></i>	<i>Work Order Number</i>	<i>Comments</i>
Main	11/14/19	Group A	20-15547	Add oil, grease bearings and replace packing if needed.
O St	11/4/19	Group A	20-55802	Add oil, grease bearings and replace packing if needed.
Eastside	11/24/19	Group A	20-41371	Add oil, grease bearings and replace packing if needed.
Poplar Point	11/24/19	Group A	20-13638	Add oil, grease bearings and replace packing if needed.
Potomac	11/21/19	Group A	20-41608	Add oil, grease bearings and replace packing if needed.
Rock Creek	11/16/19	Group A	20-42673	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	11/24/19	Group A	20-15561	Add oil, grease bearings and replace packing if needed.
Earl Place	11/16/19	Group A	20-154250	Add oil, grease bearings and replace packing if needed.
1 <sup>st</sup> Street Tunnel Dewatering	11/23/19	Group B	20-153601	

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
2. Group B consists of:
  - a. Inspect and manually run CSO Pumps
  - b. Generator:
    - i. Inspection operation and test, inspect oil level, inspect coolant level
  - c. MCC:
    - i. Test gas monitoring system
    - ii. Inspect and test level indicators
  - d. Valve Vault
    - i. Lubricate knife gate valve stem and stem nut
    - ii. Flush air and vacuum release valve

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

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Screenings Collected (tons)<sup>1</sup></i>	<i>Pumpage of CSO from First Street Tunnel back to Sewer System</i>	
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>		<i>Date</i>	<i>Volume (mg)</i>
Main <sup>1,2</sup>	1208.95	40.30	N/A	N/A	N/A
O St <sup>1,2</sup>	115.71	3.86	N/A	N/A	N/A
Eastside	100.08	3.34	N/A	N/A	N/A
Poplar Point	298.63	9.95	N/A	N/A	N/A
Potomac	4089.15	136.30	N/A	N/A	N/A
Rock Creek	229.84	7.66	N/A	N/A	N/A
Upper Anacostia	37.25	1.24	N/A	N/A	N/A
Earl Place	0.1359	0.005	N/A	N/A	N/A
1 <sup>st</sup> Street Tunnel Dewatering	N/A	N/A	N/A	11/1/19 11/15/19 11/27/19	0.48 0.14 0.12

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.

## 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	11/19/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
14 - West	11/19/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
15	11/19/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
15A	11/19/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
16 - East	11/19/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
16 - West	11/19/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
34	11/26/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
35	11/21/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
52	11/21/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

Notes:

**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>
14 (E & W)	11/1/19 11/3/19	0 hrs. 5 mins 1 hrs. 12 mins
15	None	N/A
15A	None	N/A
16 (E & W)	11/4/19	3 hrs. 48 mins
34	11/1/19 11/13/19	1 hrs. 50 mins 1 hrs. 59 mins
35	None	N/A
52	None	N/A
<b>Structures on Outfall Sewers</b>		
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</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 was no dry weather combined sewer overflow during November 2019.

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	1449	1426	652	650	641	1334	1314	56	53	1390	1367
2	2792	2642	476	476	453	2415	2261	129	107	2544	2368
3	3687	187	0	0	0	3506	164	58	0	3564	164
4	3495	1723	0	0	0	3169	1531	227	142	3396	1673
5	4007	1769	1692	1692	1665	3693	1774	231	94	3924	1868
6	3316	2666	2647	2644	2570	2448	2008	785	688	3233	2696
7	3785	43	41	41	41	2449	47	550	0	2999	47
8	2832	212	209	208	207	2447	190	194	21	2641	211
<b>Grand Total</b>	<b>25363<sup>1</sup></b>	<b>10668<sup>1</sup></b>	<b>5717<sup>1</sup></b>	<b>5711</b>	<b>5577</b>	<b>21461</b>	<b>9289</b>	<b>2230</b>	<b>1105</b>	<b>23691</b>	<b>10394</b>
% Cleaned/Inspected to Date				<b>100%</b>	<b>98%</b>					<b>93%</b>	<b>97%</b>

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.

- Netting system at CSO 018 to Anacostia River
- 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>
Netting System CSO 018	11/01/2019	Good	None	None	None
Bar Rack CSO 040	11/20/2019	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	11/14/2019	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 Services. 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, lightning.
<i># Skimmer in Fleet</i>	3 Skimmers
<i># Skimmers Out of Service</i>	2 Skimmers
<i>Dates</i>	B32: 11/1 - 11/30. B34: 11/21 - 11/30.
<i>Reason</i>	B32: #1 screen not working. B34: hydraulic oil leak.
<i>Plan to Restore to Service</i>	B32: waiting for parts ETR unknown. B34 waiting for parts. ETR December 2019.
<i>Amount Material Collected</i>	20 tons this month. Calendar year to date 360 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**

Inspector: Keith Watts

Pumping Station	Inspector	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)	KW	11/24/19	X		20-122089		
Bar Racks at Main Storm Pumps (CSO 011)	KW	11/24/19	X		20-122082		

## **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
11/1/2019	0.02	0.06	0.03	0.03	0
11/2/2019	0	0	0	0	0
11/3/2019	0	0	0	0	0
11/4/2019	0	0	0	0	0
11/5/2019	0	0	0	0	0
11/6/2019	0	0	0	0	0
11/7/2019	0.05	0.05	0.05	0.06	0.06
11/8/2019	0	0	0	0	0
11/9/2019	0	0	0	0	0
11/10/2019	0	0	0	0	0
11/11/2019	0	0	0	0	0
11/12/2019	0.06	0.06	0.07	0.07	0.07
11/13/2019	0	0	0	0	0
11/14/2019	0	0	0	0	0
11/15/2019	0	0	0	0	0
11/16/2019	0	0	0	0	0
11/17/2019	0	0	0	0	0
11/18/2019	0.27	0.29	0.25	0.29	0.29
11/19/2019	0.02	0.01	0.02	0.02	0.02
11/20/2019	0	0	0	0	0
11/21/2019	0	0	0	0	0
11/22/2019	0.11	0.08	0.17	0.10	0.22
11/23/2019	0.30	0.30	0.37	0.32	0.42
11/24/2019	0.34	0.28	0.29	0.30	0.28
11/25/2019	0	0	0	0	0
11/26/2019	0	0	0	0	0
11/27/2019	0	0	0	0	0.01
11/28/2019	0	0	0	0	0
11/29/2019	0	0	0	0	0
11/30/2019	0	0	0	0	0
TOTAL	1.17	1.13	1.25	1.19	1.37

### **5.3 Wet Weather Overflows**

Combined Sewer System Model Results are summarized below.

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results  
 Period: October, November, & December 2020  
 SCENARIO: QuarterlyReport\_2019Q4, January 8, 2020

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)
<b>Anacostia CSOs</b>								
005	Chicago St and Railroad Station SE	Modeled	0	0.00	0.00	0.00	0.00	0.00
006	Good Hope Road, West of Nichols Ave., SE	separated						
007	13 <sup>th</sup> Street and Ridge Place, SE	Metered	2	0.49	0.50	0.25	0.42	0.08
009	2nd Street, 300 feet North of N Place, SE	Metered	0	0.00	0.00	0.00	0.00	0.00
010	O Street Sewage Pumping Station, SE (pumped Overflow)	Metered	1	16.17	6.42	6.42	6.42	6.42
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 Sewage Pumping Station, SE (gravity overflow)	Metered	0	0.00	0.00	0.00	0.00	0.00
012	North of Main Sewage Pumping Station, SE (Tiber Creek)	Metered	1	0.94	0.67	0.67	0.67	0.67
013	4th and N Streets, SE	Modeled	0	0.00	0.00	0.00	0.00	0.00
014	6th and M Streets, SE	Modeled	0	0.00	0.00	0.00	0.00	0.00
015	9th and M Streets, SE	consolidated to tunnel system						
016	12th and M Streets, SE	consolidated to tunnel system						
017	14th and M Streets, SE	consolidated to tunnel system						
018	Bamey Circle and Pennsylvania Ave, SE	consolidated to tunnel system						
019	Northeast Boundary	Metered	0	0.00	0.00	0.00	0.00	0.00
019A	Northeast Boundary - Tunnel OF	Metered	0	0.00	0.00	0.00	0.00	0.00
	<b>SUBTOTAL</b>			<b>17.60</b>				
<b>Potomac CSOs</b>								
003A	JBAB Tunnel OF	Metered	0	0.00	0.00	0.00	0.00	0.00
020	23rd Street, North of Constitution Ave, NW (Easby Point)	Modeled	7	24.10	20.00	2.86	8.25	0.25
021	Northeast of Roosevelt Bridge, NW	Modeled	7	115.34	22.75	3.25	7.75	1.75
022	27th and K Streets, NW	Modeled	11	9.44	29.50	2.68	8.25	0.25
024	30th and K Streets, NW	Modeled	7	6.57	13.25	1.89	5.50	0.50
025	31st & K St NW	Modeled	3	0.10	2.25	0.75	1.25	0.25
026	Wisconsin Avenue and K St., NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West of Street, NW	Modeled	10	6.83	30.75	3.08	10.00	0.25
028	36th and M Streets, NW	Modeled	16	4.10	112.75	7.05	16.50	0.75
029	Canal Road 1000 feet east of Rock Creek, NW	Modeled	12	9.87	35.50	2.96	10.50	0.75
	<b>SUBTOTAL</b>			<b>176.35</b>				
<b>Rock Creek</b>								
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 extended west 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	7	0.370	21.50	3.07	8.00	1.25
037	Northwest of Belmont and Rock Creek and Potomac Parkway	separated						
038	North of Belmont Road, east of Kalamora Circle, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	Modeled	1	0.01	0.25	0.25	0.25	0.25
040	Biltmore Street extended east of Rock Creek, NW	Modeled	1	0.03	0.25	0.25	0.25	0.25
041	Ontario extended and Rock Creek Parkway	Modeled	0	0.00	0.00	0.00	0.00	0.00
042	Harvard Street and Rock Creek Parkway, NW	Modeled	1	0.09	0.25	0.25	0.25	0.25
043	Adams Mill Road South of Irving Street, NW	Modeled	1	0.46	0.50	0.50	0.50	0.50
044	Kenyon Street and Adams Mill Road, NW	Modeled	1	0.0330	0.25	0.25	0.25	0.25
045	Adams Mill Road and Lamont Street, NW	Modeled	1	0.06	0.25	0.25	0.25	0.25
046	Park Road south of Piney Branch Parkway, NW	Modeled	1	0.03	0.25	0.25	0.25	0.25
047	Ingleside Terrace extended and Piney Branch Parkway	Modeled	1	0.00	0.25	0.25	0.25	0.25
048	Mt. Pleasant Street extended and Piney Branch Parkway	Modeled	1	0.11	0.25	0.25	0.25	0.25
049	Piney Branch and Lamont Street, NW	Modeled	7	17.82	24.75	3.54	8.75	1.75
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 Creek 300 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 <sup>th</sup> St, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
	<b>SUBTOTAL</b>			<b>19.01</b>				
	<b>TOTAL</b>			<b>212.96</b>				

District of Columbia Water and Sewer Authority

**Combined Sewer System Model Results**  
**Period: October, November, & December 2020**  
**SCENARIO: QuarterlyReport\_2019Q4, January 8, 2020**

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)
I:\SEWER\CSO QUARTERLY REPORT\CSO 4th Quarter FY 19[Copy of Y2019Q4_Report_8Jan2020_DRAFT.XLSX]Q4Y2019								

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



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

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

**Month: December 2019**

**Prepared By:**  
District of Columbia  
Water and Sewer Authority  
Department of Sewer Services  
Washington, D.C. 20003

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

*Monthly Operations Report for Combined Sewer System*  
*Month: December 2019*

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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 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
4 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
5 <sup>1</sup>	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	12/02/19	*			
7	W Street and Railroad Ave, SE	005	12/02/19	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE (Diversion Structure)	007	12/02/19	*			
9a	13 <sup>th</sup> Street and Ridge Place, SE (Regulator Structure)	007	12/02/19	*			
9b	11 <sup>th</sup> Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	12/10/19		*	Structure is operating as normal Plates are in need of adjustments and additional bolts. Anticipated date of completion in January 2020.	
11	"O" Street Pumping Station	011(a)	12/18/19	*			
12	Storm Pump Discharge at Main Pumping Station	011	12/12/19	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	12/18/19	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	12/19/19	*			
15	South Capitol and E Streets	010	12/19/19	*			
15a	Half and L Streets, SE	010	12/19/19	*			
15b	South Capitol and I Streets	010	12/17/19	*			
15c	South Capitol and I Streets	010	12/17/19	*			
16	North of Main Sewage Pumping Station	012	12/19/19	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	12/03/19	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE (Side Overflow Weir)	013	12/10/19	*			
17b	4 <sup>th</sup> and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	12/03/19	*			
18	6 <sup>th</sup> and M Streets, SE (Diversion and Overflow Structure)	014	12/03/19	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	12/10/19	*			
19	9 <sup>th</sup> and M Streets, SE	015	12/09/19	*			
19a	9 <sup>th</sup> and M Streets, SE	015	12/09/19	*			
19b	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	12/09/19	*			
19c	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	12/09/19	*			
20	12 <sup>th</sup> and M Streets, SE	016	12/09/19	*			
20a	12 <sup>th</sup> and M Streets, SE	016	12/09/19	*			
20b	12 <sup>th</sup> and M Streets, SE (CSO-016 Diversion Chamber)	016	12/09/19	*			
21	14 <sup>th</sup> and M Streets, SE	017	12/09/19	*			
21a	14 <sup>th</sup> and M Streets, SE (CSO-017 Diversion Chamber)	017	12/09/19	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	12/16/19	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	12/16/19	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	12/16/19	*			
22d	Kentucky Ave and Potomac Street, SE	018	12/04/19	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	12/04/19	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	12/16/19	*			
24a	East Capitol St, west of RFK stadium	019	12/16/19	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	12/03/19	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	12/03/19	*			
30	17 <sup>th</sup> and D Streets, NW	020	12/06/19	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	12/06/19	*			
33	10 <sup>th</sup> and F Streets, NW	020	12/06/19	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	12/26/19	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
34a	23 <sup>rd</sup> Street near C Street, NW	020	12/03/19	*			
35	Northeast of Roosevelt Bridge, NW	021	12/26/19	*			
35c	Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW	021	12/26/19	*			
36	27 <sup>th</sup> and I Streets, NW	022	12/03/19	*			
36a	New Hampshire Ave and Eye Street, NW	022	12/03/19	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	12/03/19	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	12/03/19	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	12/03/19	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	12/03/19	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	12/03/19	*			
38	29 <sup>th</sup> and K Streets, NW	024	12/04/19	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	12/04/19	*			
39a	30 <sup>th</sup> and K Streets, NW	024	12/04/19	*			
39b	30 <sup>th</sup> and K Streets, NW	024	12/04/19	*			
41b	31 <sup>st</sup> and K Streets, NW	025	12/04/19	*			
41c	31 <sup>st</sup> and K Streets, NW	025	12/04/19	*			
42	Wisconsin Ave and K Street, NW	026	12/04/19	*			
43	Potomac and Water Streets, NW	027	12/04/19	*			
43a	Potomac and Water Streets, NW	027	12/04/19	*			
44	Water Street, west of Potomac St, NW	027	12/04/19	*			
45	36 <sup>th</sup> and M Streets, NW	028	12/02/19	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	12/02/19	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	12/02/19	*			
47a	37 <sup>th</sup> and T Streets, NW	029	12/02/19	*			
47b	37 <sup>th</sup> and T Streets, NW	029	12/02/19	*			
47c	38 <sup>th</sup> and W Streets, NW	029	12/02/19	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	12/17/19	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	12/17/19	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	12/26/19	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	12/17/19	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	12/17/19	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	12/17/19	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	12/02/19	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	12/02/19	*			
54	23 <sup>rd</sup> and O Streets, NW	034	12/09/19	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	12/09/19	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	12/09/19	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	12/09/19	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	12/09/19	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	12/06/19	*			
60	Connecticut Ave, east of Rock Creek, NW	039	12/06/19	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	12/06/19	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	12/11/19	*			
63	Harvard Street and Rock Creek Parkway, NW	042	12/11/19	*			
64	Adams Mill Road, south of Irving Street, NW	043	12/11/19	*			
65	Kenyon Street and Adams Mill Road, NW	044	12/11/19	*			
65a	Kenyon Street and Adams Mill Road, NW	044	12/11/19	*			
66	Adams Mill Road and Lamont Street, NW	045	12/11/19	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	12/11/19	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	12/11/19	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	12/11/19	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	12/11/19	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	12/02/19	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	12/06/19	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	12/09/19	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	12/09/19	*			
73	O Street Extended and Rock Creek Parkway, NW	052	12/09/19	*			
74 <sup>l</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	12/17/19	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	12/17/19	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	12/17/19	*			
78 <sup>l</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>l</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
84	26 <sup>th</sup> and P Streets, NW	060	12/09/19	*			
84a	26 <sup>th</sup> and P Streets, NW	060	12/09/19	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	12/26/19	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	12/26/19	*			
89	First and V St, NW (First St Tunnel)	019	12/26/19	*			
90	First and V St, NW (First St Tunnel)	019	12/26/19	*			
91	First and V St, NW (First St Tunnel)	019	12/26/19	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	12/18/19	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	12/10/19	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	12/09/19	*			
96	CSO 007 Shaft at 11 <sup>th</sup> St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	12/10/19	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	12/10/19		*	Routine check at this location. Cleaned on 12/21/19	
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 - 012	12/18/19	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	12/19/19	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	12/19/19		*	Replacement stop log is on-going at this location. DSS is working with contractor.	
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	12/10/19	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	12/10/19	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	12/10/19	*			
104	Poplar Point PS Discharge Chamber	N/A	12/10/19	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	12/04/19	*			

Notes:

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

## 2.2 Outfalls, Tide Gates and CSO Signs

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

**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 <sup>1</sup>	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A									
003a	Joint Base Anacostia Bolling Macdill and Arnold Ave SW	12/04/19	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	12/05/19	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	12/05/19	*		*		*		*		
009	O St. Sewage Pumping Station, SE	12/12/19	*		*		*		*		
010	O St. Sewage Pumping Station, SE	12/12/19	*			*			*		
011	Main Sewage Pumping Station, SE	12/12/19	*			*			*		
011a	Main Sewage Pumping Station, SE	12/12/19	*		*		*		*		
012	Main Sewage Pumping Station, SE	12/12/19	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	12/12/19	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	12/12/19	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	12/12/19	*			*			*		
016	12th and O Streets, SE	12/05/19	*		*		*		*		
017	M and Water Street, SE	12/05/19	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	12/05/19	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	12/18/19	*		*		*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	12/18/19	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	12/05/19	*		*		*		*		
021	Rock Creek Parkway and C St., NW	12/05/19	*		*		*		*		
022	Rock Creek Parkway and G St., NW	12/05/19	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	12/05/19	*		*		*		*		
025	South of 31st and K Streets, NW	12/05/19	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	12/05/19	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	12/05/19	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	12/05/19	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	12/05/19	*			*			*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW	12/17/19	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	12/17/19	*		*		*		*		

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	
034	Just west of St. Francis Jr. High and north of N St., NW	12/18/19	*			*			*		
035	P St. Bridge and Rock Creek Parkway	12/18/19	*			*			*		
036	22nd Street, South of Q Street NW.	12/18/19	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	12/06/19	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	12/06/19	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	12/16/19	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	12/12/19	*		*		*		*		
042	Harvard St. and Beach Dr NW.	12/12/19	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	12/12/19	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	12/12/19	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	12/12/19	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	12/11/19	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	12/11/19	*		*		*		*		
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	12/11/19	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	12/11/19	*		*		*		*		
050	Rock Creek Parkway and L St., NW	12/06/19	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	12/18/19	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	12/18/19	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	12/17/19	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	12/17/19	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	12/18/19	*		*		*		*		

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	Screen #1	12/01/19 – 12/31/19	Screen #1 was removed in November 2019 and replaced with a new screen as part of a facilities upgrade CIP.	20-173320	Installation and User Acceptance Testing of the new screen is currently ongoing and is expected to return to service by 01/31/20.
Eastside	1	2	4	None	-	-	-	-
Poplar Point	1	2	4	Pump #1	12/27/19 – 12/31/19	The discharge valve for Pump #1 was stuck in transition due to a SCADA miscommunication, which prevented Pump #1 from running.	20-185817	Anticipated 01/31/20. Awaiting repair by contractor as this is a warranty item.
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 <sup>1,2</sup></i>	<i>Work Order Number</i>	<i>Comments</i>
Main	12/16/19	Group A	20-92566	Add oil, grease bearings and replace packing if needed.
O St	12/4/19	Group A	20-119737	Add oil, grease bearings and replace packing if needed.
Eastside	12/21/19	Group A	20-103371	Add oil, grease bearings and replace packing if needed.
Poplar Point	12/8/19	Group A	20-89002	Add oil, grease bearings and replace packing if needed.
Potomac	12/23/19	Group A	20-104977	Add oil, grease bearings and replace packing if needed.
Rock Creek	12/21/19	Group A	20-106796	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	12/8/19	Group A	20-92580	Add oil, grease bearings and replace packing if needed.
Earl Place	12/8/19	Group A	20-53885	Add oil, grease bearings and replace packing if needed.
1 <sup>st</sup> Street Tunnel Dewatering	12/22/19	Group B	20-206979	

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
2. Group B consists of:
  - a. Inspect and manually run CSO Pumps
  - b. Generator:
    - i. Inspection operation and test, inspect oil level, inspect coolant level
  - c. MCC:
    - i. Test gas monitoring system
    - ii. Inspect and test level indicators
  - d. Valve Vault
    - i. Lubricate knife gate valve stem and stem nut
    - ii. Flush air and vacuum release valve

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

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Screenings Collected (tons)<sup>1</sup></i>	<i>Pumpage of CSO from First Street Tunnel back to Sewer System</i>	
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>		<i>Date</i>	<i>Volume (mg)</i>
Main <sup>1,2</sup>	1208.95	40.30	N/A	N/A	N/A
O St <sup>1,2</sup>	115.71	3.86	N/A	N/A	N/A
Eastside	100.08	3.34	N/A	N/A	N/A
Poplar Point	298.63	9.95	N/A	N/A	N/A
Potomac	4089.15	136.30	N/A	N/A	N/A
Rock Creek	229.84	7.66	N/A	N/A	N/A
Upper Anacostia	37.25	1.24	N/A	N/A	N/A
Earl Place	0.1359	0.005	N/A	N/A	N/A
1 <sup>st</sup> Street Tunnel Dewatering <sup>3</sup>	N/A	N/A	N/A	12/8/19 12/19/19 12/30/19	0.00 0.00 0.00

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. Pump data indicate activity on three occurrences in the month of December: 40 minutes on 12/8/2019, 50 minutes on 12/19/2019, and 45 minutes 12/30/2019. The flow meter for the pumping station did not record discharges and is being assessed.

## 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	12/19/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
14 - West	12/19/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
15	12/19/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
15A	12/19/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
16 - East	12/19/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
16 - West	12/19/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
34	12/26/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
35	12/26/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
52	12/26/19	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

Notes:

**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>
14 (E & W)	<i>None</i>	<i>N/A</i>
15	<i>None</i>	<i>N/A</i>
15A	<i>None</i>	<i>N/A</i>
16 (E & W)	<i>None</i>	<i>N/A</i>
34	<i>None</i>	<i>N/A</i>
35	<i>None</i>	<i>N/A</i>
52	<i>None</i>	<i>N/A</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	<b>None</b>	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	<b>None</b>	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	<b>None</b>	<b>N/A</b>
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No.1	<b>Operational</b>	<b>Open</b>
Outfall Sewer Control Gate No.2	<b>Operational</b>	This structure has been bulk headed. Overflows are no longer possible
Outfall Sewer Control Gate No.2	<b>Operational</b>	This structure has been bulk headed. Overflows are no longer possible

Notes:

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

There was no dry weather combined sewer overflow during December 2019.

#### 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	1449	1426	652	651	651	1390	1367	53	53	1443	1420
2	2792	2642	476	476	473	2544	2368	208	198	2752	2566
3	3687	187	0	0	0	3564	164	91	9	3655	182
4	3495	1723	0	0	0	3396	1673	50	21	3446	1694
5	4007	1769	1692	1692	1691	3924	1868	176	70	4100	1938
6	3316	2666	2647	2646	2643	3233	2696	224	130	3457	2826
7	3785	43	41	41	41	2999	47	809	1	3808	48
8	2832	212	209	209	209	2641	211	204	6	2845	217
<b>Grand Total</b>	<b>25363<sup>1</sup></b>	<b>10668<sup>1</sup></b>	<b>5717<sup>1</sup></b>	<b>5715</b>	<b>5708</b>	<b>23691</b>	<b>10394</b>	<b>1815</b>	<b>488</b>	<b>25506<sup>2</sup></b>	<b>10884<sup>2</sup></b>
% Cleaned/Inspected to Date				<b>100%</b>	<b>100%</b>					<b>101%</b>	<b>102%</b>

1. The number of catch basins in our service area changes with the ongoing connections and abandonments to the sewer infrastructure.
2. There are approximately 171 catch basins blocked by long-term construction projects, of these, 65 flow to the Anacostia River. There are approximately 120 catch basins obstructed by either a parked car or security restrictions instituted by Capitol Police, of these, 78 flow to the Anacostia River.

#### 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.

- Netting system at CSO 018 to Anacostia River
- 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>
Netting System CSO 018	12/05/2019	Good	None	None	None
Bar Rack CSO 040	12/16/2019	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	12/12/2019	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 Services. 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>	7
<i>Reason not Operating</i>	Maintenance, wind, low water levels, lightning.
<i># Skimmer in Fleet</i>	3 Skimmers
<i># Skimmers Out of Service</i>	2 Skimmers
<i>Dates</i>	B32: 12/1 - 12/31. B34: 12/1 - 12/5.
<i>Reason</i>	B32: #1 screen not working. B34: hydraulic oil leak.
<i>Plan to Restore to Service</i>	B32: waiting for parts ETR unknown. B34: Returned to operations on 12/6.
<i>Amount Material Collected</i>	10 tons this month. Calendar year to date 370 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**

Inspector: Keith Watts

Pumping Station	Inspector	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)	KW	12/22/19	X		20-168298		
Bar Racks at Main Storm Pumps (CSO 011)	KW	12/22/19	X		20-168291		

## **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
12/1/2019	0.37	0.41	0.44	0.38	0.50
12/2/2019	0.04	0.05	0.03	0.02	0.01
12/3/2019	0	0	0	0	0
12/4/2019	0	0	0.02	0	0.01
12/5/2019	0	0	0	0	0
12/6/2019	0	0	0	0	0
12/7/2019	0	0	0	0	0
12/8/2019	0	0	0	0	0
12/9/2019	0.57	0.61	0.74	0.61	0.75
12/10/2019	0.09	0.10	0.13	0.11	0.13
12/11/2019	0.05	0.05	0.06	0.06	0.09
12/12/2019	0	0	0	0	0
12/13/2019	0.18	0.17	0.21	0.20	0.27
12/14/2019	0.13	0.10	0.13	0.13	0.12
12/15/2019	0	0	0	0	0
12/16/2019	0.36	0.39	0.38	0.41	0.41
12/17/2019	0.10	0.08	0.11	0.09	0.13
12/18/2019	0	0	0	0	0
12/19/2019	0	0	0	0	0
12/20/2019	0	0	0	0	0
12/21/2019	0	0	0	0	0
12/22/2019	0	0	0	0	0
12/23/2019	0	0	0	0	0
12/24/2019	0	0	0	0	0
12/25/2019	0	0	0	0	0
12/26/2019	0	0	0	0	0
12/27/2019	0	0	0	0	0
12/28/2019	0	0	0	0	0
12/29/2019	0.56	0.59	0.58	0.55	0.70
12/30/2019	0.20	0.18	0.20	0.18	0.23
12/31/2019	0	0	0	0	0
TOTAL	2.65	2.73	3.03	2.74	3.35

### **5.3 Wet Weather Overflows**

Combined Sewer System Model Results are summarized below.

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results  
 Period: October, November, & December 2020  
 SCENARIO: QuarterlyReport\_2019Q4, January 8, 2020

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)
<b>Anacostia CSOs</b>								
005	Chicago St and Railroad Station SE	Modeled	0	0.00	0.00	0.00	0.00	0.00
006	Good Hope Road, West of Nichols Ave., SE	separated						
007	13 <sup>th</sup> Street and Ridge Place, SE	Metered	2	0.49	0.50	0.25	0.42	0.08
009	2nd Street, 300 feet North of N Place, SE	Metered	0	0.00	0.00	0.00	0.00	0.00
010	O Street Sewage Pumping Station, SE (pumped Overflow)	Metered	1	16.17	6.42	6.42	6.42	6.42
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 Sewage Pumping Station, SE (gravity overflow)	Metered	0	0.00	0.00	0.00	0.00	0.00
012	North of Main Sewage Pumping Station, SE (Tiber Creek)	Metered	1	0.94	0.67	0.67	0.67	0.67
013	4th and N Streets, SE	Modeled	0	0.00	0.00	0.00	0.00	0.00
014	6th and M Streets, SE	Modeled	0	0.00	0.00	0.00	0.00	0.00
015	9th and M Streets, SE	consolidated to tunnel system						
016	12th and M Streets, SE	consolidated to tunnel system						
017	14th and M Streets, SE	consolidated to tunnel system						
018	Bamey Circle and Pennsylvania Ave, SE	consolidated to tunnel system						
019	Northeast Boundary	Metered	0	0.00	0.00	0.00	0.00	0.00
019A	Northeast Boundary - Tunnel OF	Metered	0	0.00	0.00	0.00	0.00	0.00
	<b>SUBTOTAL</b>			<b>17.60</b>				
<b>Potomac CSOs</b>								
003A	JBAB Tunnel OF	Metered	0	0.00	0.00	0.00	0.00	0.00
020	23rd Street, North of Constitution Ave, NW (Easby Point)	Modeled	7	24.10	20.00	2.86	8.25	0.25
021	Northeast of Roosevelt Bridge, NW	Modeled	7	115.34	22.75	3.25	7.75	1.75
022	27th and K Streets, NW	Modeled	11	9.44	29.50	2.68	8.25	0.25
024	30th and K Streets, NW	Modeled	7	6.57	13.25	1.89	5.50	0.50
025	31st & K St NW	Modeled	3	0.10	2.25	0.75	1.25	0.25
026	Wisconsin Avenue and K St., NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West of Street, NW	Modeled	10	6.83	30.75	3.08	10.00	0.25
028	36th and M Streets, NW	Modeled	16	4.10	112.75	7.05	16.50	0.75
029	Canal Road 1000 feet east of Rock Creek, NW	Modeled	12	9.87	35.50	2.96	10.50	0.75
	<b>SUBTOTAL</b>			<b>176.35</b>				
<b>Rock Creek</b>								
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 extended west 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	7	0.370	21.50	3.07	8.00	1.25
037	Northwest of Belmont and Rock Creek and Potomac Parkway	separated						
038	North of Belmont Road, east of Kalorama Circle, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	Modeled	1	0.01	0.25	0.25	0.25	0.25
040	Biltmore Street extended east of Rock Creek, NW	Modeled	1	0.03	0.25	0.25	0.25	0.25
041	Ontario extended and Rock Creek Parkway	Modeled	0	0.00	0.00	0.00	0.00	0.00
042	Harvard Street and Rock Creek Parkway, NW	Modeled	1	0.09	0.25	0.25	0.25	0.25
043	Adams Mill Road South of Irving Street, NW	Modeled	1	0.46	0.50	0.50	0.50	0.50
044	Kenyon Street and Adams Mill Road, NW	Modeled	1	0.0330	0.25	0.25	0.25	0.25
045	Adams Mill Road and Lamont Street, NW	Modeled	1	0.06	0.25	0.25	0.25	0.25
046	Park Road south of Piney Branch Parkway, NW	Modeled	1	0.03	0.25	0.25	0.25	0.25
047	Ingleside Terrace extended and Piney Branch Parkway	Modeled	1	0.00	0.25	0.25	0.25	0.25
048	Mt. Pleasant Street extended and Piney Branch Parkway	Modeled	1	0.11	0.25	0.25	0.25	0.25
049	Piney Branch and Lamont Street, NW	Modeled	7	17.82	24.75	3.54	8.75	1.75
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 Creek 300 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 <sup>th</sup> St, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00
	<b>SUBTOTAL</b>			<b>19.01</b>				
	<b>TOTAL</b>			<b>212.96</b>				

District of Columbia Water and Sewer Authority

**Combined Sewer System Model Results**  
**Period: October, November, & December 2020**  
**SCENARIO: QuarterlyReport\_2019Q4, January 8, 2020**

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.