QUARTERLY OPERATIONS REPORT

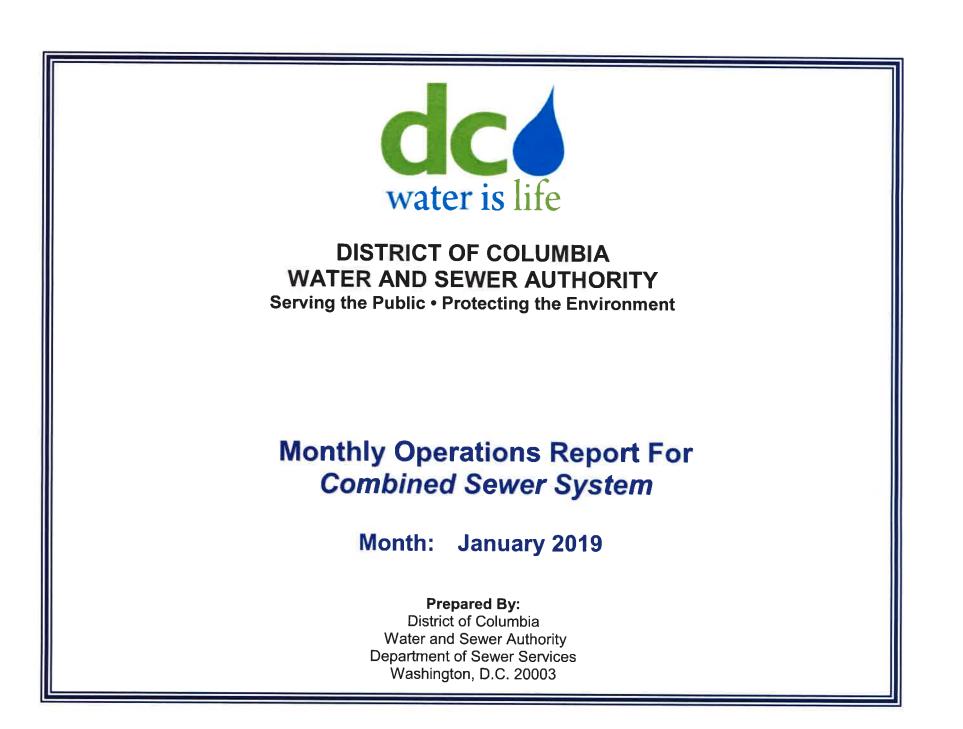
### DISTRICT OF COLUMBIA

### COMBINED SEWER OVERFLOW FACILITIES

### FIRST QUARTER, 2019

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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 Washington, D.C.

#### Monthly Operations Report for Combined Sewer System Month: January 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.

_				Co	ndition		
Structure Number	Logation	Associated NPDES			Needs		
	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
2 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
41	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
5 <sup>1</sup>	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	01/02/19	*			
7	W Street and Railroad Ave, SE	005	01/02/19	*			
81	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13th Street and Ridge Place, SE (Diversion Structure)	007	01/02/19	*			
9a	13 <sup>th</sup> Street and Ridge Place, SE (Regulator Structure)	007	01/02/19	*			
9b	11th Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	01/16/19	*			
11	"O" Street Pumping Station	011(a)	01/28/19	*			
12	Storm Pump Discharge at Main Pumping Station	011	01/17/19	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	01/23/19	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	01/30/19	*			
15	South Capitol and E Streets	010	01/30/19	*			
15a	Half and L Streets, SE	010	01/30/19	*			
15b	South Capitol and I Streets	010	01/18/19	*			
15c	South Capitol and I Streets	010	01/18/19	*			

Table 2-1 Regulator Structures

				Co	ndition		
Structure		Associated NPDES			Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
16	North of Main Sewage Pumping Station	012	01/30/19	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	01/23/19	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE (Side Overflow Weir)	013	01/16/19	*			
17b	4 <sup>th</sup> and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	01/23/19	*			
18	6 <sup>th</sup> and M Streets, SE (Diversion and Overflow Structure)	014	01/23/19	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	01/23/19	*			
19	9 <sup>th</sup> and M Streets, SE	015	01/15/19	*			
19a	9 <sup>th</sup> and M Streets, SE	015	01/15/19	*			
19b	9th and M Streets, SE (Diversion Chamber)	015	01/15/19	*			
19c	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	01/15/19	*			
20	12 <sup>th</sup> and M Streets, SE	016	01/09/19	*			
20a	12 <sup>th</sup> and M Streets, SE	016	01/09/19	*			
20b	12th and M Streets, SE (CSO-016 Diversion Chamber)	016	01/09/19	*			
21	14 <sup>th</sup> and M Streets, SE	017	01/09/19	*			
21a	14th and M Streets, SE (CSO-017 Diversion Chamber)	017	01/09/19	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	01/09/19	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	01/09/19	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	01/09/19	*			
22d	Kentucky Ave and Potomac Street, SE	018	01/04/19	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	01/04/19	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	01/07/19	*			
24a	East Capitol St, west of RFK stadium	019	01/29/19	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	01/07/19	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	01/07/19	*			
30	17 <sup>th</sup> and D Streets, NW	020	01/07/19	*			
31	15th Street and Pennsylvania Ave, NW	020	01/07/19	*			
33	10 <sup>th</sup> and F Streets, NW	020	01/07/19	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	01/31/19	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	01/07/19	*			
35	Northeast of Roosevelt Bridge, NW	021	01/31/19	*			
36	27 <sup>th</sup> and I Streets, NW	022	01/07/19	*			
36a	New Hampshire Ave and Eye Street, NW	022	01/07/19	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	01/04/19	*			

				Co	ndition		
Structure		Associated NPDES	Date		Needs	1	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
36d	17 <sup>th</sup> and L Streets, NW	022, 034	01/04/19	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	01/04/19	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	01/04/19	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	01/07/19	*			
38	29 <sup>th</sup> and K Streets, NW	024	01/04/19	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	01/04/19	*			
39a	30 <sup>th</sup> and K Streets, NW	024	01/04/19	*			
39b	30 <sup>th</sup> and K Streets, NW	024	01/04/19	*			
41b	31 <sup>st</sup> and K Streets, NW	025	01/04/19	*			
41c	31 <sup>st</sup> and K Streets, NW	025	01/04/19	*			
42	Wisconsin Ave and K Street, NW	026	01/04/19	*			
43	Potomac and Water Streets, NW	027	01/04/19	*			
43a	Potomac and Water Streets, NW	027	01/04/19	ж			
44	Water Street, west of Potomac St, NW	027	01/04/19	*			
45	36 <sup>th</sup> and M Streets, NW	028	01/02/19	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	01/02/19	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	01/02/19	*			
47a	37 <sup>th</sup> and T Streets, NW	029	01/02/19	*			
47b	37 <sup>th</sup> and T Streets, NW	029	01/02/19	*	_		
47c	38 <sup>th</sup> and W Streets, NW	029	01/02/19	*			
49 <sup>1</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	01/23/19	*		· · · · · · · · · · · · · · · · · · ·	
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	01/23/19	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	01/23/19	*		·	
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	01/23/19	*			
53	22 <sup>nd</sup> and M Streets, NW	022,034	01/15/19	*			
53a	22 <sup>nd</sup> and M Streets, NW	022,034	01/15/19	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022,034	01/15/19	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	01/15/19	*			
54	23 <sup>rd</sup> and O Streets, NW	034	01/11/19	*			
55	22 <sup>nd</sup> Street, south of O Street, NW	035	01/11/19	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	01/11/19	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	01/11/19	*			

				Co	ndition		
Structure		Associated NPDES	Date		Needs	1	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	01/11/19	*			
581	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	01/24/19	*			
60	Connecticut Ave, east of Rock Creek, NW	039	01/24/19	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	01/24/19	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	01/08/19	*			
63	Harvard Street and Rock Creek Parkway, NW	042	01/08/19	*			
64	Adams Mill Road, south of Irving Street, NW	043	01/08/19	*			
65	Kenyon Street and Adams Mill Road, NW	044	01/08/19	*			
65a	Kenyon Street and Adams Mill Road, NW	044	01/08/19	*			
66	Adams Mill Road and Lamont Street, NW	045	01/08/19	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	01/08/19	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	01/08/19	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	01/08/19	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	01/08/19	*		·	
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	01/02/19	*			
71	28th Street, west of Rock Creek Parkway, NW	050	01/02/19	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	01/11/19	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	01/11/19	*	_		
73	O Street Extended and Rock Creek Parkway, NW	052	01/11/19	*			
<b>74</b> <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	01/25/19	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	01/25/19	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	01/25/19	*			
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	01/11/19	*			
84a	26 <sup>th</sup> and P Streets, NW	060	01/11/19	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	01/29/19	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	01/29/19	*			
89	First and V St, NW (First St Tunnel)	019	01/29/19	*			
90	First and V St, NW (First St Tunnel)	019	01/29/19	*			

<b>G</b>				Co	ndition		
Structure		Associated NPDES	Date		Needs	1	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
91	First and V St, NW (First St Tunnel)	019	01/29/19	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	01/16/19	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	01/16/19	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	01/09/19	*			
96	CSO 007 Shaft at 11 <sup>th</sup> St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	01/16/19	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	01/16/19	*			
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 - 012	01/23/19	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	01/23/19	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	01/30/19	*			
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	01/18/19	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	01/18/19	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	01/18/19	*			
104	Poplar Point PS Discharge Chamber	N/A	01/18/19	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	01/18/19	*			

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 2-2Outfalls and Tide Gates

				outfall ndition	Tia Ga Prese	ite		le Gate ndition	CS	O Sign	
NPDES		Date		Needs				Needs		Needs	
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Notes, Work Needed or Performed
0031	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A									
003a	Joint Base Anacostia Bolling, Macdill and Arnold Ave SW	01/18/19	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	01/28/19	*		*		*		*		
0061	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11th St. and Anacostia Bridges, SE	01/28/19	*		*		*		*		
009	O St. Sewage Pumping Station, SE	01/17/19	*		*		*		*		
010	O St. Sewage Pumping Station, SE	01/17/19	*			*			*		
011	Main Sewage Pumping Station, SE	01/17/19	*			*			*		
011(a)	Main Sewage Pumping Station, SE	01/17/19	*		*		*		*		
012	Main Sewage Pumping Station, SE	01/17/19	*		*		*		*		
013	Southeast Federal Center, aligned with 4th St.	01/17/19	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	01/17/19	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	01/17/19	*			*			*		
016	12th and O Streets, SE	01/17/19	*		*		*		*		
017	M and Water Street, SE	01/17/19	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	01/07/19	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	01/16/19	*		*		*		*		
	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	01/16/19	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	01/03/19	*		*		*		*		
021	Rock Creek Parkway and C St., NW	01/03/19	*		*		*		*		
022	Rock Creek Parkway and G St., NW	01/03/19	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	01/03/19	*		*		*		*		
025	South of 31st and K Streets, NW	01/03/19	*		*		*		*		
	Wisconsin Avenue and Water Street, NW	01/03/19	*		*		*		*		
	33 <sup>rd</sup> and Water Sts., NW	01/03/19	*			*			*		
	Key Bridge and Whitehurst Freeway, NW	01/03/19	*			*			*		
-	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	01/03/19	*			*			*		
1	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
	26th and M Street, NW.	01/23/19	*			*			*		
1	Across street from St. Francis Jr. High and aligned with N St., NW.	_01/23/19	*		*		*		*		

				Dutfall Indition	Tia Ga Pres	ite		le Gate ndition	CS	0 Sign	
NPDES		Date		Needs				Needs		Needs	
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Notes, Work Needed or Performed
034	Just west of St. Francis Jr. High and north of N St., NW	01/11/19	*			*			*		
035	P St. Bridge and Rock Creek Parkway	01/11/19	*			*			*		
036	22nd Street, South of Q Street NW.	01/28/19	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	01/24/19	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	01/24/19	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	01/24/19	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	01/25/19	*		*		*		*		
042	Harvard St. and Beach Dr NW.	01/25/19	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	01/25/19	*		*		*		*		
044	Kenyon Street and Beach Dr., NW,	01/25/19	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	01/25/19	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	01/08/19	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	01/08/19	*		*		*		*		
	South of Piney Branch Parkway and 17 <sup>th</sup> St.	01/08/19	*		*		*		*		
	North of Piney Branch Parkway and 17 <sup>th</sup> St.	01/08/19	*		*		*		*		
050	Rock Creek Parkway and L St., NW	01/02/19	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	01/28/19	*		*		*		*		
	Between P & Penna. Ave Bridges, aligned with O Street, NW.	01/28/19	*		*		*		*		
	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
	Massachusetts Ave & Rock Creek Parkway, NW.	01/25/19	*		*		*		*		
	Normanstone Dr. and Rock Creek Parkway, NW.	01/25/19	*		*		*		*		
	28th Street and Rock Creek Parkway, NW	N/A									
	Connecticut Ave & Rock Creek Parkway, NW.	N/A							_		
060	North of P St. Bridge & Rock Creek Pkwy, NW	01/28/19	*		*		*		*		

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

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

			Pumping Sta	tions – Inspections	and Equipment in Servic	e	
No. of	No.	No.	Screens or Pumps			Work Order	
Inspections	Screens	Pumps	Out of Service	Dates	Reason	Number	Schedule to Restore to Service
31	3	4	Screen #1	1/17/19 1/31/19	Bearing and Rake Issue, Screen Not Running	19-199297	Anticipated 02/04/19. Bearing and Rake are being repaired.
			Screen #2	1/01/19 - 1/09/19	Broken Rake, Screen Not Running	19-150358	Returned to service on 1/09/19.
1	2	4	None				
				65	-	17 s.	•
1	2	4	None				
				2 <b>.</b>		-	-
31	4	5	Screen #3	1/02/19 - 1/08/19	Rake and Chain Separation	19-181561	Returned to service on 1/08/19.
	Inspections 31 1	Inspections Screens 31 3 1 2 1 2	InspectionsScreensPumps3134124124	No. of InspectionsNo. ScreensNo. PumpsScreens or Pumps Out of Service3134Screen #1124None124None	No. of InspectionsNo. ScreensNo. PumpsScreens or Pumps Out of ServiceDates3134Screen #1 $1/17/19 - 1/31/19$ 124None-124None-	No. of InspectionsNo. ScreensScreens or Pumps Out of ServiceDatesReason3134Screen #11/17/19 – 1/31/19Bearing and Rake Issue, Screen Not Running124None-124None-124None-	InspectionsScreensPumpsOut of ServiceDatesReasonNumber3134Screen #1 $1/17/19 - 1/31/19$ Bearing and Rake Issue, Screen Not Running19-199297124None124None124None

Table 2-3 Pumping Stations - Inspections and Equipment in Se .

Notes:

	rumping Stations – Preventive Maintenance								
	Date Type of Preven		Work Order						
Pumping Station	Performed	Performed'	Number	Comments					
Main	1/07/19	Group A	19-109838	Add oil, grease bearings and replace packing if needed.					
O St	1/28/19	Group A	19-195307	Add oil, grease bearings and replace packing if needed.					
Eastside	1/14/19	Group A	19-127997	Add oil, grease bearings and replace packing if needed.					
Poplar Point <sup>3</sup>	1/20/19	Group A	19-106665	Add oil, grease bearings and replace packing if needed.					
Potomac	1/14/19	Group A	19-128291	Add oil, grease bearings and replace packing if needed.					
Rock Creek	1/20/19	Group A	19-151287	Add oil, grease bearings and replace packing if needed.					
Upper Anacostia	1/05/19	Group A	19-109852	Add oil, grease bearings and replace packing if needed.					
Earl Place	1/20/19	Group A	19-150492	Add oil, grease bearings and replace packing if needed.					
1 <sup>st</sup> Street Tunnel Dewatering	1/20/19	Group B	19-256526						

 Table 2-4

 Pumping Stations -- Preventive Maintenance

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

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
- 3. The operation of the new Poplar Point Pumping Station was turned over from the contractor and accepted by DC Water Department of Pumping Operations on 1/9/19.

		i un	ping Stations – Pumpage		
	Sanit Pump	age	Screenings Collected (tons) <sup>1</sup>	First Sti	of CSO from reet Tunnel ewer System
Pumping Station	Total Wastewater (mg)	Daily Average Wastewater (mg)		Date	Volume (mg)
Main <sup>1,2</sup>	1646.89	53.13	N/A	N/A	N/A
O St <sup>1,2</sup>	150.17	4.84	N/A	N/A	N/A
Eastside	146.74	4.73	N/A	N/A	N/A
Poplar Point	409.71	13.22	N/A	N/A	N/A
Potomac	6108.32	197.04	N/A	N/A	N/A
Rock Creek	142.78	4.61	N/A	N/A	N/A
Upper Anacostia	54.09	1.74	N/A	N/A	N/A
Earl Place	0.452	0.015	N/A	N/A	N/A
1 <sup>st</sup> Street Tunnel	N/A	N/A	N/A	1/06/19	0.16
Dewatering				1/22/19	0.16

Table 2-5 Pumping Stations – Pumpage

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

 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:

Inflatahle Dam		Was Dam Out of Service			
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Schedule to Restore to Service
14 - East	1/30/19	No	N/A	N/A	N/A
14 - West	1/30/19	No	N/A	N/A	N/A
15	1/30/19	No	N/A	N/A	N/A
15A	1/30/19	No	N/A	N/A	N/A
16 - East	1/30/19	No	N/A	N/A	N/A
16 - West	1/30/19	No	N/A	N/A	N/A
34	1/31/19	No	N/A	N/A	N/A
35	1/31/19	No	N/A	N/A	N/A
52	1/31/19	No	N/A	N/A	N/A

 Table 2-6

 Inflatable Dams – Inspections and Equipment in Service

Notes:

#### Table 2-7

Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow
14 (E & W)	None	N/A
15	None	N/A
15A	None	N/A
16 (E & W)	None	N/A
34	None	N/A
35	1/05/19	11 hrs. 18 mins
52	1/05/19	0 hrs. 4 mins
	1/06/19	0 hrs. 3 mins
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	N/A
Outfall Sewer Control Gates	<b>Operational Status</b>	Position
Outfall Sewer Control Gate No.1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible

### Inflatable Dams & SCADA Sites - Wet Weather Operations

Notes:

#### 3. DRY WEATHER OVERFLOWS

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

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#### 4. SOLIDS AND FLOATABLES CONTROL

#### 4.1 Catch Basin Cleaning

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

				Inspections				Clea	ning		
				Total	Total					i	
				Anacostia	Anacostia	CBs Clea	ned Thru	CB's C	leaned	Total CB	s Cleaned
			<b>GD</b> 1	CBs	CBs	Last Month			Month		r to Date
			CBs in	Inspected	Inspected						
Ward	Tetal CD-	CBs in	Anacostia	Once this	Twice this	TD ( 1	L COG	<b>—</b>			
wara	Total CBs	CSS	CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS
11	1449	1426	652	290	3	1535	1508	24	24	24	24
2	2782	2632	476	13	0	2889	2736	20	20	20	20
3	3669	186	0	0	0	3726	185	18	0	18	0
4	3491	1722	0	0	0	3495	1752	6	2	6	2
5	3996	1761	1701	8	1	4050	1910	29	14	29	14
6	3309	2663	2655	64	0	3489	2876	67	67	67	67
7	3741	44	42	1	0	4129	42	1210	2	1210	2
8	2829	209	209	1	0	2818	222	35	1	35	1
Grand Total	25266 <sup>1</sup>	10643 <sup>1</sup>	5735 <sup>1</sup>	377	4	26131 11231		1409	130	1409	130
% Cleaned/Inspected to Date				7%	0%					6%	1%

### Table 4-1Catch Basin Cleaning

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 4-2BMP Demonstration Projects – Report

Facility Netting System CSO 018	Date Inspected 1/2/2019	Condition Good	Work Needed None	Work performed Routine cleaning	Material Removed (LB) None
Bar Rack CSO 040	1/24/2019	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	1/25/2019	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:

Program Operation	5-day work week, excluding holidays, weather permitting		
Work Days this month:	20		
Days not Operating	12		
Reason not Operating	Maintenance, wind, low water levels, freezing temperatures.		
# Skimmer in Fleet	4 Skimmers		
# Skimmers Out of Service	2 Skimmers (on the last day of the month).		
Dates	B33: 1/1- 1/31. B34: 1/17 - 1/31.		
Reason	B33: metal fatigue fractures. B34: wing screen off track.		
Plan to Restore to Service	B33 and B34: waiting for fleet to schedule repairs. ETR unknown.		
Amount Material Collected	30 tons this month. Calendar year to date 30 tons.		
Nature of Material Bottles, cans, natural debris and plastics.			

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

#### 4.4 CSS Litter Control

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

No Activity this month.

#### 5. MONITORING

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

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

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

Inspector: Keith Watts

		Date	Cond	lition	West-Oad		Work Performed or
Pumping Station	Inspector	Inspected	Good	Needs Work	Work Order Number	Work Needed	Schedule for Completion
Bar Racks at O							
Street Storm	KW	1/23/19	Х		19-196583		
Pumps (CSO 010)							
Bar Racks at Main							
Storm Pumps (CSO 011)	KW	1/23/19	Х		19-196576		

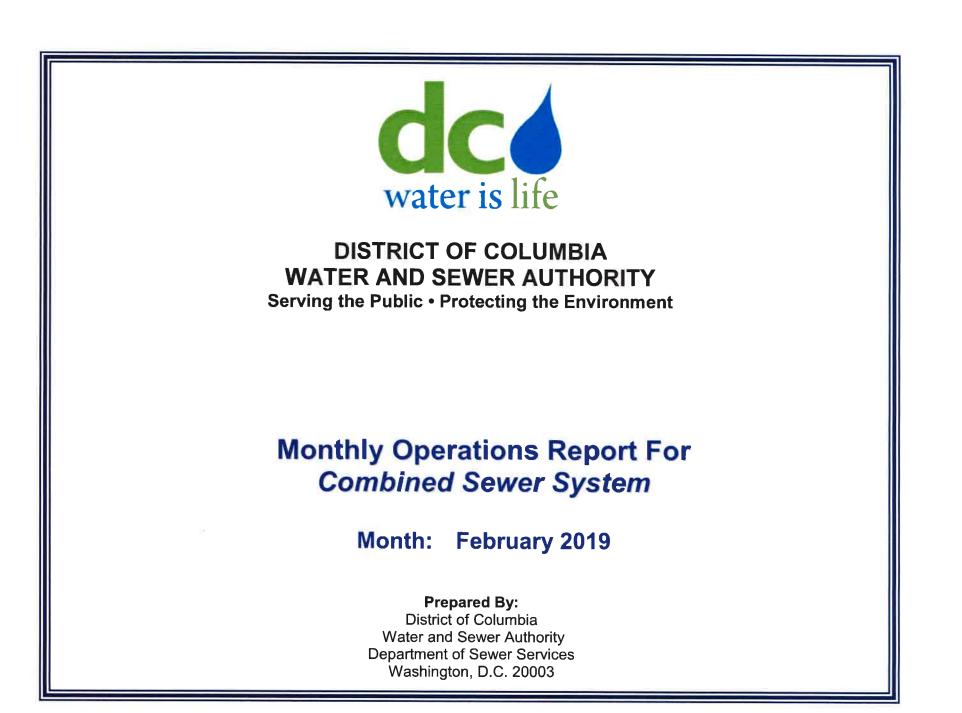
#### 5.2 Rain Data

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

#### 5.3 Wet Weather Overflows

Combined Sewer System Model Results are summarized below.

Date	Brentwood Pumping Station	Bryant Street Pumping Station	Main Pumping Station	Rock Creek Pumping Station	National Airport
1/1/2019	0.01	0.01	0	0	0
1/2/2019	0	0	0	0	0
1/3/2019	0	0	0	0	0
1/4/2019	0.01	0.01	0.02	0.01	0.04
1/5/2019	0.02	0.02	0.02	0.08	0.04
1/6/2019	0	0	0	0	0
1/7/2019	0	0	0	0	0
1/8/2019	0.16	0.18	0.26	0.22	0.24
1/9/2019	0.01	0	0	0	0
1/10/2019	0	0	0	0	0
1/11/2019	0	0	0	0	0
1/12/2019	0.04	0.09	0.09	0.02	0.13
1/13/2019	0.34	0.58	0.62	0.46	0.71
1/14/2019	0.02	0.02	0.01	0.06	0
1/15/2019	0	0	0	0	0
1/16/2019	0	0	0	0	0
1/17/2019	0.02	0.04	0.02	0.01	0.09
1/18/2019	0.01	0.02	0.01	0.01	0.02
1/19/2019	0.54	0.56	0.58	0.64	0.61
1/20/2019	0.18	0.19	0.20	0.17	0.19
1/21/2019	0	0	0	0	0
1/22/2019	0	0	0	0	0
1/23/2019	0	0	0	0	0
1/24/2019	0.76	0.86	1.02	1.02	1.03
1/25/2019	0	0	0	0	0
1/26/2019	0	0	0	0	0
1/27/2019	0	0	0	0	0
1/28/2019	0	0	0	0	0
1/29/2019	0.14	0.13	0.18	0.14	0.20
1/30/2019	0	0	0	0	0
1/31/2019	0	0	0	0	0
TOTAL	2.26	2.71	3.03	2.84	3.30



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

#### Monthly Operations Report for Combined Sewer System Month: February 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.

				Co	ndition		
Structure		Associated NPDES			Needs	]	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
2'	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
41	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
51	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	02/15/19	*			
7	W Street and Railroad Ave, SE	005	02/15/19	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13th Street and Ridge Place, SE (Diversion Structure)	007	02/15/19	*			
9a	13th Street and Ridge Place, SE (Regulator Structure)	007	02/15/19	*			
9b	11th Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	02/15/19	*			
11	"O" Street Pumping Station	011(a)	02/25/19	*			
12	Storm Pump Discharge at Main Pumping Station	011	02/21/19	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	02/14/19	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	02/01/19	*			
15	South Capitol and E Streets	010	02/14/19	*			
15a	Half and L Streets, SE	010	02/14/19	*			
15b	South Capitol and I Streets	010	02/25/19	*			
15c	South Capitol and I Streets	010	02/25/19	*			

Table 2-1Regulator Structures

~				Co	ndition		
Structure		Associated NPDES	Date		Needs	1	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
16	North of Main Sewage Pumping Station	012	02/14/19	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	02/08/19	*			
17a	K Street between 6th Street and 7th Street, SE (Side Overflow Weir)	013	02/27/19	*			
17b	4 <sup>th</sup> and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	02/08/19	*			
18	6 <sup>th</sup> and M Streets, SE (Diversion and Overflow Structure)	014	02/15/19	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	02/08/19	*			
19	9 <sup>th</sup> and M Streets, SE	015	02/08/19	*			
19a	9 <sup>th</sup> and M Streets, SE	015	02/08/19	*			
19b	9th and M Streets, SE (Diversion Chamber)	015	02/08/19	*			
19c	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	02/08/19	*			
20	12 <sup>th</sup> and M Streets, SE	016	02/18/19	*		1	
20a	12 <sup>th</sup> and M Streets, SE	016	02/15/19	*			
20b	12th and M Streets, SE (CSO-016 Diversion Chamber)	016	02/15/19	*			
21	14 <sup>th</sup> and M Streets, SE	017	02/08/19	*			
21a	14th and M Streets, SE (CSO-017 Diversion Chamber)	017	02/08/19	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	02/04/19	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	02/04/19	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	02/04/19	*			
22d	Kentucky Ave and Potomac Street, SE	018	02/04/19	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	02/04/19	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	02/08/19	*			
24a	East Capitol St, west of RFK stadium	019	02/25/19	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	02/05/19	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	02/05/19	*			
30	17 <sup>th</sup> and D Streets, NW	020	02/05/19	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	02/05/19	*			
33	10 <sup>th</sup> and F Streets, NW	020	02/05/19	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	02/14/19	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	02/05/19	*			
35	Northeast of Roosevelt Bridge, NW	021	02/14/19	*			
36	27 <sup>th</sup> and I Streets, NW	022	02/05/19	*			
36a	New Hampshire Ave and Eye Street, NW	022	02/05/19	*			
36b	19 <sup>th</sup> and L Streets, NW	022,034	02/22/19	*			

				Co	ndition		
Structure		Associated NPDES	Date		Needs	1	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
36d	17 <sup>th</sup> and L Streets, NW	022, 034	02/22/19	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	02/22/19	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	02/22/19	*			
37	27 <sup>th</sup> and Eye Streets, NW	022					
38	29 <sup>th</sup> and K Streets, NW	024	02/06/19 *				
38a	30 <sup>th</sup> Street, south of K Street, NW	024	02/06/19				
39a	30 <sup>th</sup> and K Streets, NW	024	02/06/19	/06/19 *			
39b	30 <sup>th</sup> and K Streets, NW	024	02/06/19	*			
41b	31 <sup>st</sup> and K Streets, NW	025	02/06/19	*			
41c	31 <sup>st</sup> and K Streets, NW	025	02/06/19	*			
42	Wisconsin Ave and K Street, NW	026	02/06/19	*			
43	Potomac and Water Streets, NW	027	02/06/19	*			
43a	Potomac and Water Streets, NW	027	02/06/19	*			
44	Water Street, west of Potomac St, NW	027	02/06/19	*			
45	36 <sup>th</sup> and M Streets, NW	028	02/04/19	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	02/04/19	*			
47	38th Street and Reservoir Road, NW	029	02/04/19	*			
47a	37 <sup>th</sup> and T Streets, NW	029	02/04/19	*			
47b	37 <sup>th</sup> and T Streets, NW	029	02/04/19	*			
47c	38 <sup>th</sup> and W Streets, NW	029	02/04/19	*			
49 <sup>1</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	02/22/19	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	02/22/19	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	02/19/19	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	02/19/19	*			
53	22 <sup>nd</sup> and M Streets, NW	022,034	02/19/19	*			
53a	22 <sup>nd</sup> and M Streets, NW	022,034	02/19/19	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022,034	02/19/19	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	02/19/19	*		1	
54	23 <sup>rd</sup> and O Streets, NW	034	02/11/19	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	02/11/19	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	02/11/19	*			
56	23rd and Massachusetts Ave, NW	036	02/11/19	*			

				Co	ndition		
Structure		Associated NPDES			Needs	1	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	02/11/19	*			
58 <sup>1</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	02/04/19	*			
60	Connecticut Ave, east of Rock Creek, NW	039	02/04/19	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	02/04/19	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	02/13/19	*			
63	Harvard Street and Rock Creek Parkway, NW	042	02/13/19	*			
64	Adams Mill Road, south of Irving Street, NW	043	02/13/19	*			
65	Kenyon Street and Adams Mill Road, NW	044	02/13/19	*			
65a	Kenyon Street and Adams Mill Road, NW	044	02/13/19	*			
66	Adams Mill Road and Lamont Street, NW	045	02/13/19	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	02/13/19	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	02/13/19	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	02/13/19	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	02/13/19	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	02/22/19	*			
71	28th Street, west of Rock Creek Parkway, NW	050	02/21/19	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	02/11/19	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	02/11/19	*			
73	O Street Extended and Rock Creek Parkway, NW	052	02/11/19	*			
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	02/19/19	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	02/19/19	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	02/19/19	*		-	
<b>78</b> <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	02/11/19	*			
84a	26 <sup>th</sup> and P Streets, NW	060	02/11/19	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	02/14/19	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	02/14/19	*			
89	First and V St, NW (First St Tunnel)	019	02/14/19	*			
90	First and V St, NW (First St Tunnel)	019	02/14/19	*			

-				Co	ndition		
Structure		Associated NPDES	Date		Needs	1	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
91	First and V St, NW (First St Tunnel)	019	02/26/19	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	02/25/19	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	02/25/19	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	02/08/19	*			
96	CSO 007 Shaft at 11 <sup>th</sup> St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	02/25/19	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	02/25/19	*			
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 - 012	02/15/19	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	02/14/19	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	02/14/19	*			
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	02/26/19	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	02/26/19	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	02/26/19	*			
104	Poplar Point PS Discharge Chamber	N/A	02/26/19	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	02/26/19	*			

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 2-2Outfalls and Tide Gates

				Dutfall ndition	Tia Ga Pres	ite		le Gate ndition	CS	0 Sign	
NPDES		Date		Needs				Needs		Needs	
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Notes, Work Needed or Performed
	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A			_	_					
003a	Joint Base Anacostia Bolling, Macdill and Arnold Ave SW	02/26/19	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	02/26/19	*		*		*		*		
0061	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	02/26/19	*		*		*		*		
009	O St. Sewage Pumping Station, SE	02/21/19	*		*		*		*		
010	O St. Sewage Pumping Station, SE	02/21/19	*			*			*		
011	Main Sewage Pumping Station, SE	02/21/19	*			*			*		
011(a)	Main Sewage Pumping Station, SE	02/21/19	*		*		*		*		
012	Main Sewage Pumping Station, SE	02/21/19	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	02/21/19	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	02/21/19	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	02/21/19	*			*			*		
016	12th and O Streets, SE	02/26/19	*		*		*		*		
017	M and Water Street, SE	02/26/19	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	02/26/19	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	02/25/19	*		*		*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	02/25/19	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	02/07/19	*		*		*		*		
021	Rock Creek Parkway and C St., NW	02/07/19	*		*		*		*		
022	Rock Creek Parkway and G St., NW	02/07/19	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	02/07/19	*		*		*		*		
025	South of 31st and K Streets, NW	02/07/19	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	02/07/09	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	02/07/19	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	02/07/19	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	02/07/19	*			*			*		
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW	02/22/19	*			×			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	02/22/19	*		*		*		*		

				Dutfall Indition	Tia Ga Pres	ite		le Gate ndition	CS	O Sign	
NPDES		Date		Needs				Needs		Needs	
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Notes, Work Needed or Performed
034	Just west of St. Francis Jr. High and north of N St., NW	02/11/19	*			*			*		
	P St. Bridge and Rock Creek Parkway	02/11/19	*			*			*		
036	22nd Street, South of Q Street NW.	02/21/19	*		*		*		*		
0371	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	02/04/19	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	02/04/19	*		*	I	*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	02/04/19	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	02/21/19	*		*		*		*		
042	Harvard St. and Beach Dr NW.	02/21/19	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	02/21/19	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	02/21/19	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	02/21/19	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	02/13/19	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	02/13/19	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	02/13/19	*		*		*		ж		
	North of Piney Branch Parkway and 17 <sup>th</sup> St.	02/13/19	*		*	-	*		*		
050	Rock Creek Parkway and L St., NW	02/21/19	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	02/21/19	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	02/21/19	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	02/19/19	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	02/19/19	*		*		*		*		
0571	28th Street and Rock Creek Parkway, NW	N/A									
0581	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	02/21/19	*		*		*		*		

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

#### 2.3.1 Pumping Stations

Pumping station operations are summarized in the table below.

n===	Pumping Stations – Inspections and Equipment in Service							
Pumping	No. of	No.	No.	Screens or Pumps			Work Order	
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Number	Schedule to Restore to Service
Main <sup>1</sup>	28	3	4	Screen #1	2/01/19 - 2/01/19	Bearing and Rake Issue, Screen Not Running	19-199297	Returned to service on 2/01/19.
Eastside	1	2	4	None	-		-	-
Poplar Point	1	2	4	None			-	-
Potomac	28	4	5	None	а.	ъ.	-	ž

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

Notes:

Screen #1 at Main Pump Station was out of service from 1/17/19 to 1/31/19, with an anticipated return to service date of 2/04/19. However, the screen was returned to service on 2/01/19.

Fumping Stations – Freventive Maintenance					
	Date	Type of Preventive Maintenance	Work Order		
Pumping Station	Performed	Performed <sup>1</sup>	Number	Comments	
Main	2/07/19	Group A	19-173791	Add oil, grease bearings and replace packing if needed.	
O St	2/28/19	Group A	19-260999	Add oil, grease bearings and replace packing if needed.	
Eastside	2/14/19	Group A	19-185072	Add oil, grease bearings and replace packing if needed.	
Poplar Point	2/02/19	Group A	19-171691	Add oil, grease bearings and replace packing if needed.	
Potomac	2/14/19	Group A	19-185137	Add oil, grease bearings and replace packing if needed.	
Rock Creek	2/16/19	Group A	19-213714	Add oil, grease bearings and replace packing if needed.	
Upper Anacostia	2/16/19	Group A	19-173805	Add oil, grease bearings and replace packing if needed.	
Earl Place	2/16/19	Group A	19-194083	Add oil, grease bearings and replace packing if needed.	
1st Street Tunnel Dewatering	2/26/19	Group B	19-314380		

 Table 2-4

 Pumping Stations – Preventive Maintenance

 Group A consists of: Exercise bar screens Exercise all sump pumps Drain condensation from air compressor storage tank Check depth of screening in the screen room and schedule Vactor truck as required Check all safety equipment 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

		r un	iping Stations - Pumpage			
	Sanit Pump	· /	Screenings Collected (tons) <sup>1</sup>	Pumpage of CSO from First Street Tunnel back to Sewer System		
Pumping Station	Total Wastewater (mg)	Daily Average Wastewater (mg)		Date	Volume (mg)	
Main <sup>1,2</sup>	1517.83	54.21	N/A	N/A	N/A	
O St <sup>1,2</sup>	132.08	4.72	N/A	N/A	N/A	
Eastside	129.28	4.62	N/A	N/A	N/A	
Poplar Point	365.71	13.06	N/A	N/A	N/A	
Potomac	4498.88	160.67	N/A	N/A	N/A	
Rock Creek	131.21	4.69	N/A	N/A	N/A	
Upper Anacostia	46.50	1.66	N/A	N/A	N/A	
Earl Place	0.321	0.011	N/A	N/A	N/A	
1 <sup>st</sup> Street Tunnel Dewatering	N/A	N/A	N/A	2/06/19	0.16	

Table 2-5 Pumping Stations – Pumpage

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

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

#### 2.4 Inflatable Dams and SCADA System

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

Inflatable Dam		Was Dam Out of Service			
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Schedule to Restore to Service
14 - East	2/14/19	No	N/A	N/A	N/A
14 - West	2/14/19	No	N/A	N/A	N/A
15	2/14/19	No	N/A	N/A	N/A
15A	2/14/19	No	N/A	N/A	N/A
16 - East	2/14/19	No	N/A	N/A	N/A
16 - West	2/14/19	No	N/A	N/A	N/A
34	2/14/19	No	N/A	N/A	N/A
35	2/14/19	No	N/A	N/A	N/A
52	2/19/19	No	N/A	N/A	N/A

 Table 2-6

 Inflatable Dams – Inspections and Equipment in Service

Notes:

#### Table 2-7

		ribit Stees weet weather operations			
Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow			
14 (E & W)	2/14/19	0 hrs. 16 mins			
	2/19/19	0 hrs. 45 mins			
15	None	N/A			
15A	None	N/A			
16 (E & W)	2/18/19	0 hrs. 28 mins			
	2/20/19	1 hr. 22 mins			
34	2/1/19	0 hrs. 46 mins			
35	None	N/A			
52	None	N/A			
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow			
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.			
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.			
Outfall Structure 2	None	N/A			
Outfall Sewer Control Gates	<b>Operational Status</b>	Position			
Outfall Sewer Control Gate No.1	Operational	Open			
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible			
Outfall Sewer Control Gate No.2 Operational This structure has been bulk headed. Overflows are no longer possible					

### Inflatable Dams & SCADA Sites - Wet Weather Operations

Notes:

#### 3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow during February 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:

				Inspections				Clea	ning		
				Total	Total						
				Anacostia CBs	Anacostia CBs	CBs Clea Last N			leaned Month	Total CBs This Year	
		CDa in	CBs in	Inspected	Inspected						
Ward	Total CBs	CBs in CSS	Anacostia CSS	Once this Year	Twice this Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1449	1426	652	590	16	24	24	4	4	28	28
2	2782	2632	476	13	0	20	20	44	12	64	32
3	3669	186	0	0	0	18	0	13	0	31	0
4	3491	1722	0	0	0	6	2	0	0	6	2
5	3996	1761	1701	41	1	29	14	41	34	70	48
6	3309	2663	2655	500	8	67	67	447	33	514	100
7	3741	44	42	2	0	1210	2	731	2	1941	4
8	2829	209	209	2	0	35	1	649	1	684	2
Grand Total	25266 <sup>1</sup>	10643 <sup>1</sup>	5735 <sup>1</sup>	1148	25	1409 130		1929	86	3338	216
% Cleaned/Inspected to Date				20%	0%					13%	2%

Table 4-1 Catch Basin Cleaning

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 4-2BMP Demonstration Projects – Report

Facility Netting System CSO 018	Date Inspected 2/7/2019	Condition Good	Work Needed None	Work performed Routine cleaning	Material Removed (LB) None
Bar Rack CSO 040	02/04/2019	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	02/21/2019	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:

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	19
Days not Operating	8
Reason not Operating	Maintenance, wind, low water levels, freezing temperatures.
# Skimmer in Fleet	4 Skimmers
# Skimmers Out of Service	1 Skimmer (on the last day of the month).
Dates	B32: 2/11 - 2/15. B33: 2/1 - 2/28. B34 2/1 - 2/6 & 2/11 - 2/15.
Reason	B32: no start. B33: metal fatigue fractures. B34: wing screen off track & no start.
Plan to Restore to Service	B32: returned to operations on 2/19. B33: contract welder to repair metal fatigue fractures, ETR unknown. B34: returned to operations on 2/7 and 2/19.
Amount Material Collected	30 tons this month. Calendar year to date 60 tons.
Nature of Material	Bottles, cans, natural debris and plastics.

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

#### 4.4 CSS Litter Control

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

No Activity this month.

### 5. MONITORING

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

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

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

Inspector: Keith Watts

Pumping Station		Date	Cond	lition	Wards Ondan		Work Performed or
	Inspector	Inspected	Good	Needs Work	Work Order Number	Work Needed	Schedule for Completion
Bar Racks at O							
Street Storm	KW	2/28/19	Х		19-281447		
Pumps (CSO 010)							
Bar Racks at Main							
Storm Pumps (CSO 011)	KW	2/28/19	Х		19-281440		

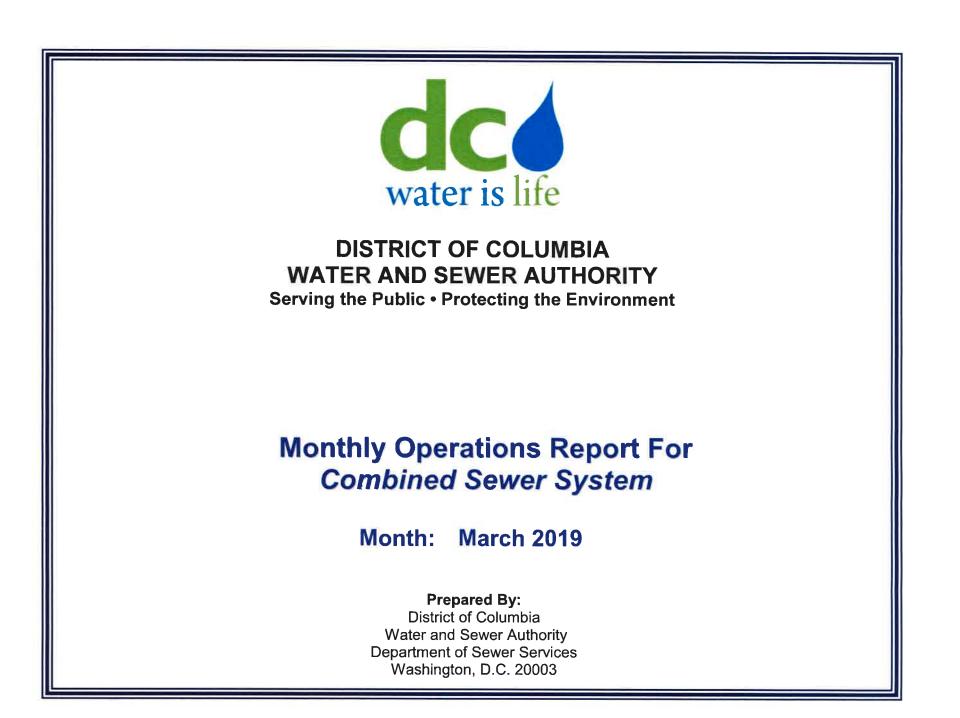
#### 5.2 Rain Data

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

### 5.3 Wet Weather Overflows

Combined Sewer System Model Results are summarized below,

Date	Brentwood Pumping Station	Bryant Street Pumping Station	Main Pumping Station	Rock Creek Pumping Station	National Airport
2/1/2019	0	0.01	0.01	0	0.05
2/2/2019	0	0	0	0	0
2/3/2019	0	0	0	0	0
2/4/2019	0	0	0	0	0
2/5/2019	0	0	0	0	0
2/6/2019	0.01	0.01	0.01	0.01	0.03
2/7/2019	0	0	0	0	0
2/8/2019	0.01	0.01	0.01	0.01	0
2/9/2019	0	0	0	0	0
2/10/2019	0.06	0.08	0.08	0.08	0.11
2/11/2019	0.22	0.30	0.33	0.30	0.35
2/12/2019	0.44	0.50	0.60	0.50	0.68
2/13/2019	0	0	0	0	0
2/14/2019	0	0	0	0	0
2/15/2019	0	0	0	0	0
2/16/2019	0	0	0	0	0
2/17/2019	0.14	0.20	0.20	0.18	0.21
2/18/2019	0.18	0.21	0.25	0.24	0.25
2/19/2019	0	0	0	0	0
2/20/2019	0.38	0.58	0.62	0.48	0.73
2/21/2019	0	0	0	0	0
2/22/2019	0	0	0.01	0	0.02
2/23/2019	0.06	0.06	0.11	0.08	0.15
2/24/2019	0.50	0.46	0.72	0.50	0,94
2/25/2019	0	0	0	0	0
2/26/2019	0	0	0	0	0
2/27/2019	0	0	0	0	0
2/28/2019	0	0	0	0	0
TOTAL	2.00	2.42	2.95	2.38	3.52



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

#### Monthly Operations Report for Combined Sewer System Month: March 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.

				Co	ndition		
Structure		Associated NPDES	Date		Needs	1	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
21	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
<b>4</b> <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
51	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	03/05/19	*			
7	W Street and Railroad Ave, SE	005	03/05/19	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13th Street and Ridge Place, SE (Diversion Structure)	007	03/05/19	*			
9a	13th Street and Ridge Place, SE (Regulator Structure)	007	03/05/19	*			
9b	11 <sup>th</sup> Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	03/27/19	*			
11	"O" Street Pumping Station	011(a)	03/25/19	*			
12	Storm Pump Discharge at Main Pumping Station	011	03/29/19	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	03/19/19	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	03/19/19	*			
15	South Capitol and E Streets	010	03/19/19	*			
15a	Half and L Streets, SE	010	03/19/19	*			
15b	South Capitol and I Streets	010	03/20/19	*			
15c	South Capitol and I Streets	010	03/20/19	*			

Table 2-1 Regulator Structures

I: SEWER\CSO QUARTERLY REPORT\CSO 1st Quarter Report 2019\CSO Monthly Report March 2019 doc

-				Co	ndition		
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
16	North of Main Sewage Pumping Station	012	03/19/19	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	03/08/19	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE (Side Overflow Weir)	013	03/27/19	*			
17b	4 <sup>th</sup> and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	03/08/19	*			
18	6 <sup>th</sup> and M Streets, SE (Diversion and Overflow Structure)	014	03/20/19	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	03/08/19	*			
19	9 <sup>th</sup> and M Streets, SE	015	03/08/19	*			
19a	9 <sup>th</sup> and M Streets, SE	015	03/08/19	*			
19b	9th and M Streets, SE (Diversion Chamber)	015	03/08/19	*			
19c	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	03/08/19	*			
20	12 <sup>th</sup> and M Streets, SE	016	03/05/19	*			
20a	12 <sup>th</sup> and M Streets, SE	016	03/05/19	*			
20b	12th and M Streets, SE (CSO-016 Diversion Chamber)	016	03/05/19	*			
21	14 <sup>th</sup> and M Streets, SE	017	03/05/19	*			
21a	14th and M Streets, SE (CSO-017 Diversion Chamber)	017	03/05/19	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	03/05/19	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	03/05/19	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	03/05/19	*			
22d	Kentucky Ave and Potomac Street, SE	018	03/21/19	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	03/21/19	*			
23	Independence Ave, 21st Street, SE, Extended	019	03/27/19	*			
24a	East Capitol St, west of RFK stadium	019	03/27/19	*			
28	21st and Constitution Ave, NW	020	03/01/19	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	03/01/19	*			
30	17 <sup>th</sup> and D Streets, NW	020	03/01/19	*			
31	15th Street and Pennsylvania Ave, NW	020	03/01/19	*			
33	10 <sup>th</sup> and F Streets, NW	020	03/01/19	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	03/26/19	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	03/01/19	*			
35	Northeast of Roosevelt Bridge, NW	021	03/26/19	*			
36	27 <sup>th</sup> and I Streets, NW	022	03/01/19	*			
36a	New Hampshire Ave and Eye Street, NW	022	03/01/19	*			
36b	19 <sup>th</sup> and L Streets, NW	022,034	03/08/19	*			

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				Co	ndition		
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
36d	17 <sup>th</sup> and L Streets, NW	022, 034	03/08/19	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	03/08/19	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	03/08/19	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	03/01/19	*			
38	29 <sup>th</sup> and K Streets, NW	024	03/18/19	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	03/18/19	*			
39a	30 <sup>th</sup> and K Streets, NW	024	03/18/19	*			
39b	30 <sup>th</sup> and K Streets, NW	024	03/18/19	*			
41b	31 <sup>st</sup> and K Streets, NW	025	03/18/19	*			
41c	31 <sup>st</sup> and K Streets, NW	025	03/18/19	*			
42	Wisconsin Ave and K Street, NW	026	03/08/19	*			
43	Potomac and Water Streets, NW	027	03/08/19	*			
43a	Potomac and Water Streets, NW	027	03/08/19	*			
44	Water Street, west of Potomac St, NW	027	03/08/19	*			
45	36 <sup>th</sup> and M Streets, NW	028	03/18/19	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	03/18/19	*			
47	38th Street and Reservoir Road, NW	029	03/18/19	*			
47a	37 <sup>th</sup> and T Streets, NW	029	03/18/19	*			
47b	37 <sup>th</sup> and T Streets, NW	029	03/18/19	*			
47c	38 <sup>th</sup> and W Streets, NW	029	03/18/19	*			
49 <sup>1</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	03/29/19	*			
51	N Street Extended, west of 25th Street, NW	033	03/29/19	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	03/26/19	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	03/26/19	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	03/26/19	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	03/26/19	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	03/21/19	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	03/21/19	*			
54	23 <sup>rd</sup> and O Streets, NW	034	03/20/19	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	03/20/19	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	03/20/19	*			
56	23rd and Massachusetts Ave, NW	036	03/20/19	*			

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				Co	ndition		
Structure		Associated NPDES	Date		Needs		
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	03/20/19	*			
58 <sup>1</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	03/22/19	*			
60	Connecticut Ave, east of Rock Creek, NW	039	03/22/19	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	03/22/19	03/22/19 *			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	03/13/19	*			
63	Harvard Street and Rock Creek Parkway, NW	042	03/13/19	*			
64	Adams Mill Road, south of Irving Street, NW	043	03/13/19	*			
65	Kenyon Street and Adams Mill Road, NW	044	03/13/19	*			
65a	Kenyon Street and Adams Mill Road, NW	044	03/13/19	*			
66	Adams Mill Road and Lamont Street, NW	045	03/13/19	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	03/13/19	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	03/13/19	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	03/13/19	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	03/13/19	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	03/21/19	*			
71	28th Street, west of Rock Creek Parkway, NW	050	03/21/19	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	03/20/19	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	03/20/19	*			
73	O Street Extended and Rock Creek Parkway, NW	052	03/20/19	*			
<b>74</b> <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	03/22/19	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	03/22/19	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	03/22/19	*			
78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
<b>79</b> <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	03/20/19	*			
84a	26 <sup>th</sup> and P Streets, NW	060	03/20/19	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	03/22/19	46			
88	Flagler and Adams St. NW (First St Tunnel)	019	03/22/19	*			
89	First and V St, NW (First St Tunnel)	019	03/22/19	*			
90	First and V St, NW (First St Tunnel)	019	03/22/19	*			

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				Co	ndition		
Structure		Associated NPDES	Date		Needs	1	
Number	Location	Outfall	Inspected	Good	Work	Work Needed	Work performed
91	First and V St, NW (First St Tunnel)	019	03/22/19	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	03/25/19	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	03/25/19	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	03/05/19	*			
96	CSO 007 Shaft at 11 <sup>th</sup> St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	03/25/19	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	03/25/19	*			
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 - 012	03/28/19	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	03/19/19	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	03/19/19	*			
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	03/25/19	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	03/25/19	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	03/25/19	*			
104	Poplar Point PS Discharge Chamber	N/A	03/25/19	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	03/25/19	*			

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 2-2Outfalls and Tide Gates

				Dutfall ndition	Tic Ga Pres	te		le Gate ndition	CS	0 Sign	
NPDES Outfall		Date		Needs				Needs		Needs	
	<i>Location</i> Bolling Air Force Base, at Giavanolli and Chanute, SW	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Notes, Work Needed or Performed
003 <sup>a</sup>	Joint Base Anacostia Bolling, Macdill and Arnold Ave SW	N/A	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	03/25/19	*		*		*		*		
005	Good Hope Road and Welsh Memorial Bridge	03/12/19	Ŧ		Ť		Ť		*		
008	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	N/A	*		*		*				
		03/12/19	*		*		*		*		
<u> </u>	O St. Sewage Pumping Station, SE	03/28/19	*		*		*		*		
	O St. Sewage Pumping Station, SE Main Sewage Pumping Station, SE	03/28/19	*			*			*		
	Main Sewage Pumping Station, SE Main Sewage Pumping Station, SE	03/28/19	*		*	<b>^</b>	*		*		
	Main Sewage Pumping Station, SE Main Sewage Pumping Station, SE	03/28/19	*		*		*		*	_	
·	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	03/28/19	*		*		*	h	*		
-	Navy Yard, aligned with 6 <sup>th</sup> St., SE		*		*		*		*		
	Navy Yard, aligned with 9th Street, SE	03/28/19	*			*	T		*		
	12th and O Streets, SE		*		*	-1-	*	·	*		
	M and Water Street, SE	03/12/19	*		*		*		*		
	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	03/12/19	*		*		*		*	_	
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	03/25/19	*		*	[4 <u></u>	*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	03/25/19	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	03/14/19	*		*		*		*		
021	Rock Creek Parkway and C St., NW	03/14/19	*		*		*		*		
022	Rock Creek Parkway and G St., NW	03/14/19	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	03/14/19	*		*		*		*		
025	South of 31st and K Streets, NW	03/14/19	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	03/14/19	*		*		*		*		
	33 <sup>rd</sup> and Water Sts., NW	03/14/19	*			*			*		
	Key Bridge and Whitehurst Freeway, NW	03/14/19	*			*	-		*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	03/14/19	*			*			*		
	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
	26th and M Street, NW.	03/29/19	*			*			*		
	Across street from St. Francis Jr. High and aligned with N St., NW.	03/29/19	*		*		*		*		

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				outfall ndition	Tio Ga Pres	te		le Gate ndition	CS	0 Sign	
NPDES		Date		Needs				Needs		Needs	
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Notes, Work Needed or Performed
034	Just west of St. Francis Jr. High and north of N St., NW	03/20/19	*			*			*		
	P St. Bridge and Rock Creek Parkway	03/20/19	*			*			*		
036	22nd Street, South of Q Street NW.	03/28/19	*		*		*		*		
0371	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	03/22/19	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	03/22/19	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	03/22/19	*		*		*		*		
041	Beach Dr. and Ontario PL, NW	03/28/19	*		*		*		*		
042	Harvard St. and Beach Dr NW.	03/28/19	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	03/28/19	*		*		*		*		
044	Kenyon Street and Beach Dr., NW,	03/28/19	*		*		*		*		
045	North of Beach Dr. and Walbridge PI, NW.	03/28/19	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	03/13/19	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	03/13/19	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	03/13/19	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	03/13/19	*		*		*		*		
050	Rock Creek Parkway and L St., NW	03/21/19	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	03/27/19	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	03/27/19	*		ık.		*		*		
0531	Q St. Bridge and Rock Creek Parkway, NW	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	03/22/19	*		*		*		ĸ		
056	Normanstone Dr. and Rock Creek Parkway, NW.	03/22/19	*		*		*		*		
0571	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	03/28/19	*		*		*		*		

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.

			r umping Sta	tions - inspection	s and Equipment in Servic	e	
No. of	No.	No.	Screens or Pumps			Work Order	
Inspections	Screens	Pumps	Out of Service	Dates	Reason	Number	Schedule to Restore to Service
31	3	4	None				
				-	*	-	2
1	2	4	None				
				-		÷:	-
1	2	4	None			·	
				~~	50 C	27	
31	4	5	Pump #3	3/13/19 - 3/20/19	Rotating Assembly Leaking Grease	19-323686	Returned to service on 3/20/19.
	Inspections 31 1	InspectionsScreens3131212	InspectionsScreensPumps3134124124124	No. of InspectionsNo. ScreensNo. PumpsScreens or Pumps Out of Service3134None124None124None	No. of InspectionsNo. ScreensNo. PumpsScreens or Pumps Out of ServiceDates3134None124None124None124None	No. of InspectionsNo. ScreensNo. PumpsScreens or Pumps Out of ServiceDatesReason3134None124None124None3134Some3145Pump #33/13/19 - 3/20/19Rotating Assembly Leaking	Inspections         Screens         Pumps         Out of Service         Dates         Reason         Number           31         3         4         None         -

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

Notes:

Fumping Stations – Freventive Maintenance										
	Date	Type of Preventive Maintenance	Work Order							
Pumping Station Performed		Performed <sup>1</sup>	Number	Comments						
Main	3/07/19	Group A	19-236122	Add oil, grease bearings and replace packing if needed.						
O St	3/28/19	Group A	19-319941	Add oil, grease bearings and replace packing if needed.						
Eastside	3/16/19	Group A	19-248840	Add oil, grease bearings and replace packing if needed.						
Poplar Point	3/02/19	Group A	19-233762	Add oil, grease bearings and replace packing if needed.						
Potomac	3/14/19	Group A	19-248893	Add oil, grease bearings and replace packing if needed.						
Rock Creek	3/28/19	Group A	19-278228	Add oil, grease bearings and replace packing if needed.						
Upper Anacostia	3/07/19	Group A	19-236136	Add oil, grease bearings and replace packing if needed.						
Earl Place	3/25/19	Group A	19-259372	Add oil, grease bearings and replace packing if needed.						
1 <sup>st</sup> Street Tunnel Dewatering	3/31/19	Group B	19-359156							

 Table 2-4

 Pumping Stations – Preventive Maintenance

Notes:

 Group A consists of: Exercise bar screens Exercise all sump pumps Drain condensation from air compressor storage tank Check depth of screening in the screen room and schedule Vactor truck as required Check all safety equipment 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

		Pumpin	ig Stations – Pumpage				
		nitary npage	Screenings Collected (tons) <sup>1</sup>	Pumpage of CSO from First Street Tunnel back to Sewer System			
Pumping Station	Total Wastewater (mg)	Daily Average Wastewater (mg)		Date	Volume (mg)		
Main <sup>1,2</sup>	1697.74	54.77	N/A	N/A	N/A		
O St <sup>1,2</sup>	150.05	4.84	N/A	N/A	N/A		
Eastside	143.45	4.63	N/A	N/A	N/A		
Poplar Point	422.78	13.64	N/A	N/A	N/A		
Potomac	5163.77	166.57	N/A	N/A	N/A		
Rock Creek	151.41	4.88	N/A	N/A	N/A		
Upper Anacostia	52.60	1.70	N/A	N/A	N/A		
Earl Place	0.378	0.012	N/A	N/A	N/A		
1 <sup>st</sup> Street Tunnel Dewatering	N/A	N/A	N/A	3/11/19	0.12		

Table 2-5 Pumping Stations – Pumpage

#### 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.

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

#### 2.4 Inflatable Dams and SCADA System

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

Inflatable Dam		Was Dam Out of Service			
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Schedule to Restore to Service
14 - East	3/19/19	No	N/A	N/A	N/A
14 - West	3/19/19	No	N/A	N/A	N/A
15	3/19/19	No	N/A	N/A	N/A
15A	3/19/19	No	N/A	N/A	N/A
16 - East	3/19/19	No	N/A	N/A	N/A
16 - West	3/19/19	No	N/A	N/A	N/A
34	3/19/19	No	N/A	N/A	N/A
35	3/26/19	No	N/A	N/A	N/A
52	3/26/19	No	N/A	N/A	N/A

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

Notes:

Ta	ble	2-7

And the state of t									
Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow							
14 (E & W)	3/22/19	3 hrs. 10 mins							
15	None	N/A							
15A	None	N/A							
16 (E & W)	3/21/19	0 hrs. 21 mins							
34	None	N/A							
35	3/21/19	0 hrs. 5 mins							
52	None	N/A							
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow							
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.							
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.							
Outfall Structure 2	None	N/A							
Outfall Sewer Control Gates	Operational Status	Position							
Outfall Sewer Control Gate No.1	Operational	Ореп							
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							

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Inflatable Dams & SCADA Sit	es - Wet Weather Operations
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Notes:

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

There was no dry weather combined sewer overflow during March 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:

				Inspections				Clea	ning		
				Total Anacostia CBs	Total Anacostia CBs	CBs Clea Last N		CB's C This I	leaned Month	Total CBs This Year	
Ward	Total CBs	CBs in CSS	CBs in Anacostia CSS	Inspected Once this Year	Inspected Twice this Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1449	1426	652	590	19	28	28	14	14	42	42
2	2782	2632	476	130	1	64	32	36	15	100	47
3	3669	186	0	0	0	31	0	27	1	58	1
4	3491	1722	0	0	0	6	2	270	7	276	9
5	3996	1761	1701	47	2	70	48	7	6	77	54
6	3309	2663	2655	979	36	514	100	52	51	566	151
7	3741	44	42	22	2	1941	4	33	2	1974	6
8	2829	209	209	6	0	684	2	1011	7	1695	9
Grand Total	25266 <sup>1</sup>	10643 <sup>1</sup>	5735 <sup>1</sup>	1774	60	3338	216	1450	103	4788	319
% Cleaned/Inspected to Date				31%	1%					19%	3%

Table 4-1Catch Basin Cleaning

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

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 4-2BMP Demonstration Projects – Report

Facility Netting System CSO 018	Date Inspected 3/12/2019	<i>Condition</i> Good	Work Needed None	Work performed Routine cleaning	Material Removed (LB) None
Bar Rack CSO 040	03/22/2019	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	03/28/2019	Good	None	Routine Cleaning	(1)

Notes:

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

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#### 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:

F					
Program Operation	5-day work week, excluding holidays, weather permitting				
Work Days this month:	21				
Days not Operating	7				
Reason not Operating	Maintenance, wind, low water levels, freezing temperatures.				
# Skimmer in Fleet	4 Skimmers				
# Skimmers Out of Service	1 Skimmer (on the last day of the month).				
Dates	B32: 3/19. B33: 3/1 - 3/31.				
Reason	B32: no start. B33: metal fatigue fractures.				
Plan to Restore to Service	B32: returned to operations on 3/20. B33: PO approved for				
	welding. Waiting for welder to schedule.				
Amount Material Collected	30 tons this month. Calendar year to date 90 tons.				
Nature of Material	Bottles, cans, natural debris and plastics.				

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

#### 4.4 CSS Litter Control

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

No Activity this month.

#### 5. MONITORING

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

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

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

Inspector: Keith Watts

		Date	Condition		Work Order		Work Performed or
Pumping Station	Inspector	Inspected	Good	Needs Work	Number	Work Needed	Schedule for Completion
Bar Racks at O							•
Street Storm	KW	3/28/19	Х		19-327967		
Pumps (CSO 010)							
Bar Racks at Main							
Storm Pumps (CSO 011)	KW	3/28/19	Х		19-327960		

### 5.2 Rain Data

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

### 5.3 Wet Weather Overflows

Combined Sewer System Model Results are summarized below.

Date	Brentwood Pumping Station	Bryant Street Pumping Station	Main Pumping Station	Rock Creek Pumping Station	National Airpor
3/1/2019	0.50	0.58	0.64	0.64	0.64
3/2/2019	0.02	0.03	0.05	0.03	0.05
3/3/2019	0.42	0.44	0.52	0.48	0.52
3/4/2019	0.02	0.02	0.02	0.01	0.01
3/5/2019	0	0	0	0	0
3/6/2019	0	0	0	0	0
3/7/2019	0	0	0	0	0
3/8/2019	0.14	0.14	0.18	0.14	0.21
3/9/2019	0.04	0.06	0.04	0.04	0.07
3/10/2019	0.30	0.38	0.38	0.34	0.41
3/11/2019	0	0	0	0	0
3/12/2019	0	0	0	0	0
3/13/2019	0	0	0	0	0
3/14/2019	0	0	0	0	0
3/15/2019	0	0	0	0	0
3/16/2019	0	0	0	0	0
3/17/2019	0	0	0	0	0
3/18/2019	0	0	0	0	0
3/19/2019	0	0	0	0	0
3/20/2019	0	0	0	0	0
3/21/2019	2.06	1.74	1.98	2,00	1.96
3/22/2019	0.18	0.13	0.16	0.24	0.09
3/23/2019	0	0	0	0	0
3/24/2019	0	0	0	0	0
3/25/2019	0	0	0	0	0
3/26/2019	0	0	0	0	0
3/27/2019	0	0	0	0	0
3/28/2019	0	0	0	0	0
3/29/2019	0	0	0	0	0
3/30/2019	0	0	0	0	0
3/31/2019	0.02	0.02	0.02	0.02	0.04
TOTAL	3.70	3.54	3.99	3.94	4.00

#### District of Columbia Water and Sewer Authority

#### Combined Sewer System Model Results Period: January, February, March 2019 SCENARIO: QuerterlyReport\_2019Q1, created April 8, 2019

			Number of	CSO Overflow	Total Duration of	Avg Duration	Maximum Duration of	
NEEGON	D 14		Overflows	Volume	Overflow	of Overflow	Overflow	
NPDES No.	Description	Data Source	(Occurrences)	(mg)	(hrs)	(hrs)	(hrs)	
Anacostia CS	0s							
005	Chicago St and Railroad Station SE	Modeled	0	0.00	0.00	0.00	0.00	
E 7.7.	Good Hope Road, West of Nichols					0.00	0.00	
006	006 Ave.,SE		separated					
007	13th Street and Ridge Place,SE	Metered	1	0.41	1.42	1,42	1.42	
	2nd Street, 300 feet North of N Place,							
009	SE	Metered	0	0.00	0.00	0.00	0.00	
	O Street SewagePumping Station, SE							
010	(pumped Overflow)	Metered	1	6.34	1.67	1,67	1.67	
044	South of Main Sewage Pumping							
011	Station, SE (pumped overflow)	Metered	0	0.00	0.00	0.00	0.00	
011a	South of Main SewagePumping Station, SE (gravity overflow)	Metered	1	0.02	0.47	0.47	0.47	
UTTa	North of Main SewagePumping	Metered		0.03	0.17	0.17	0.17	
012	Station, SE (Tiber Creek)	Metered	0	0.00	0.00	0.00	0.00	
013	4th and N Streets, SE	Modeled	0	0.00	0.00	0.00	0.00	
014	6th and M Streets, SE	Modeled	0	0.00	0.00	0.00	0.00	
015	9th and M Streets, SE	modeled			ed to tunnel st		0.00	
016	12th and M Streets, SE				ed to tunnel st			
017	14th and M Streets, SE				ed to tunnel st			
	Barney Circle andPennsylvania Ave,							
018	SE			consolidat	ed to tunnel sy	ystem		
019	Northeast Boundary	Metered	1	17.64	2.33	2.33	2.33	
019A	Northeast Boundary - Tunnel OF	Metered	(1)	13.05	2:50	2.50	2.50	
	SUBTOTAL			37.47				
_								
Potomac CSO								
.003A	JBAB Tunnel OF	Metered	1	9.02	2.33	2.33	2.33	
000	23rd Street, North of Constitution Ave, NW (Easby Point)	Modeled	4		0.50			
020	Northeast ofRoosevelt Bridge, NW	Modeled	5	8 22 54 90	9.50 16.50	2.38	5.25	
022	27th and K Streets, NW	Modeled	9	0.61	19.50	3.30	7.75	
024	30th and K Streets, NW	Modeled	5	5.37	12.00	2.40	7.50	
025	31st & K St NW	Modeled	O	0.00	0.00	0.00	0.00	
026	Wisconsin Avenue andK St., NW	Modeled	0	0.00	0.00	0.00	0.00	
027	Water Street West of Street, NW	Modeled	9	2.71	26.00	2.89	9.00	
028	36th and M Streets, NW	Modeled	17	3.65	137.00	8.06	26.75	
	Canal Road 1000 feet east of Rock			· · · · · · · · · · · · · · · · · · ·				
029	Creek,NW	Modeled	12	3.66	31.75	2.65	8.75	
	SUBTOTAL			88.13				
Rock Creek	Respectivenia August Fast D							
031	Pennsylvania Avenue, East Rock Creek, NW				separated			
031	26th and M Streets, NW	Modeled	0	0.00	0.00	0.00	0.00	
032	N Street extendedwest of 25th	MODEIED	-0	.0.00	0.00	0.00	0.00	
033	Street NW	Modeled		D 00	0.00	0.00	0.00	
034	23rd and O Streets, SW	Modeled	0	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	
036	22nd Street South of Q Street, NW	Modeled	6	0.139	16.25	2.71	7.00	
	Northwest of Belmontand Rock Creek		-				1100	
037	and Potomac Parkway			:	separated			
	North of Belmont Road,east of							
038	Kalorama Circle, NW	Modeled	0	0.00	0.00	0,00	0.00	
	Connecticut Avenue east of Rock							
039	Creek, NW	Modeled	0	0.00	0.00	0.00	0.00	
	Biltmore Street extended east of							
040	RockCreek, NW	Modeled	0	0.00	0.00	0.00	0.00	
	Ontano extended and Rock Creek							
041	Parkway	Modeled	0	0.00	0.00	0.00	0.00	
	Harvard Street and RockCreek							
042	Parkway, NW	Modeled	0	0.00	0.00	0.00	0.00	

#### District of Columbia Water and Sewer Authority

#### Combined Sewer System Model Results Period: January, February, March 2019

	terrear action fr tearment fr the errear as to	
and the second second	SCENARIO: QuarterlyReport_2019Q1, created April 8, 2019	

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)	
	Adams Mill Road South of Irving							
043	Street, NW	Modeled	0	0.00	0.00	0.00	0.00	
044	Kenyon Street and Adams Mill Road, NW	Modelad	0	0.000	0.00	0.00	0.00	
045	Adams Mill Road and Lamont Street, NW	Modeled	0	0.00	0.00	0.00	0.00	
046	Park Road south of Piney Branch Parkway, NW	Modeled	0	0.00	0.00	0.00	0.00	
047	Ingleside Terrace extended and Piney Branch Parkway	Modeled	0	0.000	0.00	0.00	0.00	
048	Mt. Pleasant Street extended and Plney Branch Parkway	Modeled	D	0.00	0_00	0.00	0.00	
049	Piney Branch and LamontStreet, NW	Modeled	6	5.51	16.75	2.79	7.00	
050	28th Street west of 16th Street, NW	Modeled	0	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	
052	O Street extended and Rock Creek Parkway, NW	Modeled	0	0.00	0.00	0.00	0.00	
053	O Street west of Rock Creek Parkway, 053 NW		separated					
054	West Side of Rock Creek300 ft. south of Mass. Ave. NW	Modeled	D	0.00	0.00	0.00	0.00	
056	Normanstone Drive extended west of Rock Creek, NW	Modeled	D	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	
	SUBTOTAL			5.65				
	TOTAL			131.25		-	_	

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

NPDES No.	Description	Minimun Duration Overflov (hrs)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Anacostia CS		
005	Chicago St and Railroad Station SE	0.00
	Good Hope Road, West of Nichols	
006	Ave.,SE	
007	13 <sup>th</sup> Street and Ridge Place.SE	1.42
	2nd Street, 300 feet North of N Place,	
009	SE	0.00
	O Street SewagePumping Station, SE	
010	(pumped Overflow)	1.67
	South of Main Sewage Pumping	
011	Station, SE (pumped overflow)	0.00
	South of Main SewagePumping	
011a	Station, SE (gravity overflow)	0.17
	North of Main SewagePumping	
012	Station, SE (Tiber Creek)	0.00
013	4th and N Streets, SE	0.00
014	6th and M Streets, SE	0.00
015	9th and M Streets, SE	
016	12th and M Streets, SE	
017	14th and M Streets, SE	
	Barney Circle and Pennsylvania Ave,	
018	SE	
019	Northeast Boundary	2.33
019A	Northeast Boundary - Tunnel OF	2.50
	SUBTOTAL	_
Potomac CSC 003A	JBAB Tunnel OF	0.00
003A		2.33
	23rd Street, North of Constitution Ave,	
020	NW (Easby Point)	0.25
021	Northeast ofRoosevelt Bridge, NW	1.25
022	27th and K Streets, NW	0.25
024	30th and K Streets, NW	0 25
	31st & K St NW Wisconsin Avenue andK St., NW	0.00
	IVVISCONSIN AVENUE AND ST. NVV I	0,00
026		
026 027	Water Street West of Street, NW	1.00
026	Water Street West of Street, NW 36th and M Streets, NW	
025 027 028	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock	1.00 1.50
026	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek,NW	1.00
025 027 028	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock	1.00
026 027 028 029	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek,NW	1.00
026 027 028 029	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek,NW SUBTOTAL	1.00
026 027 028 029 Rock Creek	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek,NW SUBTOTAL Pennsylvania Avenue, East Rock	1.00
026 027 028 029 Rock Creek 031	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek,NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW	1.00 1.50 0.25
026 027 028 029 Rock Creek	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek,NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 26th and M Streets, NW	1.00
026 027 028 029 Rock Creek 031 032	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek,NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th	1.00 1.50 0.25
026 027 028 029 Rock Creek 031 032 033	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th Street, NW	1.00 1.50 0.25 0.00
026 027 028 029 Rock Creek 031 032 033 034	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th Street,NW 23rd and O Streets, SW	1.00 1.50 0.25 0.00 0.00
026 027 028 029 Rock Creek 031 032 033 034 035	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th Street,NW 23rd and O Streets, SW 22nd Street south of Q Street, NW	1.00 1.50 0.25 0.00 0.00 0.00 0.00 0.00
026 027 028 029 Rock Creek 031 032 033 034	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th Street, NW 23rd and O Streets, SW 22nd Street south of Q Street, NW 22nd Street South of Q Street, NW	1.00 1.50 0.25 0.00 0.00 0.00
026 027 028 029 Rock Creek 031 032 033 034 035 036	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th Street, NW 23rd and O Streets, SW 22nd Street south of Q Street, NW 22nd Street south of Q Street, NW Northwest of Belmonland Rock Creek	1.00 1.50 0.25 0.00 0.00 0.00 0.00 0.00
026 027 028 029 Rock Creek 031 032 033 034 035	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th Street,NW 23rd and O Streets, SW 22nd Street south of Q Street, NW Northwest of Belmontand Rock Creek and Potomac Parkway	1.00 1.50 0.25 0.00 0.00 0.00 0.00 0.00
026 027 028 029 029 Rock Creek 031 032 033 034 035 036 037	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th Street, NW 23rd and O Streets, SW 22nd Street south of Q Street, NW 22nd Street South of Q Street, NW North of Belmont Rock Creek and Potomac Parkway North of Belmont Road,east of	1.00 1.50 0.25 0.00 0.00 0.00 0.00 0.25
026 027 028 029 Rock Creek 031 032 033 034 035 036	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 28th and M Streets, NW N Street extendedwest of 25th Street, NW 23rd and O Streets, SW 22nd Street south of Q Street, NW 22nd Street south of Q Street, NW Northwest of Belmontand Rock Creek and Potomac Parkway North of Belmont Road,east of Kalorama Circle, NW	1.00 1.50 0.25 0.00 0.00 0.00 0.00 0.00
026 027 028 029 Rock Creek 031 032 033 034 035 036 037 038	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th Street, NW 23rd and O Streets, SW 22rd Street south of Q Street, NW Northwest of Belmontand Rock Creek and Potomac Parkway North of Belmont Road, east of Kalorama Circle, NW Connecticut Avenue east of Rock	1.00 1.50 0.25 0.00 0.00 0.00 0.00 0.25
026 027 028 029 029 Rock Creek 031 032 033 034 035 036 037	Water Street West of Street, NW 36th and M Streets, NW Canai Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th Street, NW 23rd and O Streets, SW 22nd Street South of Q Street, NW North of Belmont Road, east of Kalorama Circle, NW Connecticut Avenue east of Rock Creek, NW	1.00 1.50 0.25 0.00 0.00 0.00 0.00 0.25
026 027 028 029 Rock Creek 031 032 033 034 035 036 037 038 039	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 28th and M Streets, NW N Street extendedwest of 25th Street, NW 23rd and O Streets, SW 22nd Street south of Q Street, NW Northwest of Belmontand Rock Creek and Potomac Parkway North of Belmont Road,east of Kalorama Circle, NW Connecticut Avenue east of Rock Creek, NW	1.00 1.50 0.25 0.00 0.00 0.00 0.25 0.00 0.25
026 027 028 029 Rock Creek 031 032 033 034 035 036 037 038	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th Street, NW 23rd and O Streets, SW 22rd Street south of Q Street, NW 22rd Street south of Q Street, NW 22rd Street south of Q Street, NW 22rd Street south of Q Street, NW Northwest of Belmontand Rock Creek and Potomac Parkway North of Belmont Road,east of Kalorama Circle, NW Biltmore Street extended east of RockCreek, NW	1.00 1.50 0.25 0.00 0.00 0.00 0.00 0.25
026 027 028 029 Rock Creek 031 032 033 034 035 036 035 036 037 038 039 040	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, Easl Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th Street, NW 23rd and O Streets, SW 22nd Street south of Q Street, NW 22nd Street South of Q Street, NW North of Belmont Road, east of Kalorama Circle, NW Connecticut Avenue east of Rock Creek, NW Biltmore Street extended east of RockCreek, NW	1.00 1.50 0.25 0.00 0.00 0.00 0.25 0.00 0.25
026 027 028 029 Rock Creek 031 032 033 034 035 036 037 038 039	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, East Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th Street, NW 23rd and O Streets, SW 22nd Street South of Q Street, NW Northwest of Belmontand Rock Creek and Potomac Parkway North of Belmont Road, east of Kalorama Circle, NW Connecticut Avenue aest of Rock Creek, NW Biltmore Street extended east of RockCreek, NW Ontario extended and Rock Creek Parkway	1.00 1.50 0.25 0.00 0.00 0.00 0.25 0.00 0.25
026 027 028 029 Rock Creek 031 032 033 034 034 035 036 037 038 039 040	Water Street West of Street, NW 36th and M Streets, NW Canal Road 1000 feet east of Rock Creek, NW SUBTOTAL Pennsylvania Avenue, Easl Rock Creek, NW 26th and M Streets, NW N Street extendedwest of 25th Street, NW 23rd and O Streets, SW 22nd Street south of Q Street, NW 22nd Street South of Q Street, NW North of Belmont Road, east of Kalorama Circle, NW Connecticut Avenue east of Rock Creek, NW Biltmore Street extended east of RockCreek, NW	1.00 1.50 0.25 0.00 0.00 0.00 0.00 0.25 0.00 0.00

SCENA

		Minimum Duration of Overflow
NPDES No.	Description	(hrs)
043	Adams Mill Road South of Irving Street, NW	0.00
044	Kenyon Street and Adams Mill Road, NW	0.00
045	Adams Mill Road and Lamont Street, NW	0.00
046	Park Road south of Piney Branch Parkway, NW	0.00
047	Ingleside Terrace extended and Piney Branch Parkway	0.00
048	Mt. Pleasant Street extended and Piney Branch Parkway	0.00
049	Piney Branch and LamontStreet, NW	0.25
050	28th Street west of 16th Street, NW	0.00
051	Olive Street extended and Rock Creek Parkway, NW	0.00
052	O Street extended and Rock Creek Parkway, NW	0.00
053	O Street west of Rock Creek Parkway, NW	
054	West Side of Rock Creek300 ft. south of Mass. Ave, NW	0.00
056	Normanstone Drive extended west of Rock Creek, NW	0.00
057	28th Street extended west of Rock Creek, NW	
058	Connecticut Avenue and Rock Creek Parkway, NW	
060	P St and 26 <sup>th</sup> St, NW SUBTOTAL	0.00
	TOTAL	

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Prepared by: Greeley and Hansen LLC and Limno-Tech