

QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

FIRST QUARTER, 2013

Prepared By:

D.C. Water and Sewer Authority
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**DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY**
Serving the Public • Protecting the Environment

**Monthly Operations Report
For
Combined Sewer System
Month: January 2013**

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Monthly Operations Report for Combined Sewer System
Month: January 2013

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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 parts 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 wastewater treatment plant at Blue Plains (BPWWTP or the Blue Plains WWTP). 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 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 BPWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to CSO outfalls which discharge to receiving waters. The following table summarizes inspections of CSO regulators in the collection system.

**Table 2-1
Regulator Structures**

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	01/30/13	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	01/30/13	*			
5	Poplar Point Pumping Station	004	01/11/13	*			
6	Chicago Street and Railroad Ave, SE	005	01/07/13	*			
7	W Street and Railroad Ave, SE	005	01/07/13	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A ¹				
9	13 th Street and Ridge Place, SE	007	01/07/13	*			
11	"O" Street Pumping Station	011(a)	01/29/13	*			
12	Storm Pump Discharge at Main Pumping Station	011	01/29/13	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	01/30/13	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	01/29/13	*			
15	South Capitol and E Streets	010	01/17/13	*			
15a	Half and L Streets, SE	010	01/17/13	*			
15b	South Capitol and I Streets	010	01/02/13	*			
15c	South Capitol and I Streets	010	01/02/13	*			
16	North of Main Sewage Pumping Station	012	01/29/13	*			
17	4 th and N Streets, SE, Both Extended	013	01/03/13	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	01/03/13	*			
18	6 th and M Streets, SE	014	01/02/13	*			
19	9 th and M Streets, SE	015	01/25/13	*			
19a	9 th and M Streets, SE	015	01/25/13				Contractor at work
20	12 th and M Streets, SE	016	01/25/13	*			
20a	12 th and M Streets, SE	016	01/25/13	*			
21	14 th and M Streets, SE	017	01/25/13	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	01/22/13	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	01/22/13	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	01/22/13	*			
22d	Kentucky Ave and Potomac Street, SE	018	01/18/13	*			
22e	14 th Street and Kentucky Ave, SE	018	01/18/13	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
23	Independence Ave, 21 st Street, SE, Extended	019	01/08/13	*			
24a	East Capitol St, west of RFK stadium	019	01/08/13	*			
28	21 st and Constitution Ave, NW	020	01/08/13	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	01/08/13	*			
30	17 th and D Streets, NW	020	01/04/13	*			
31	15 th Street and Pennsylvania Ave, NW	020	01/04/13	*			
33	10 th and F Streets, NW	020	01/04/13	*			
34	23 rd Street, north of Constitution Ave, NW	020	01/31/13	*			
34a	23 rd Street near C Street, NW	020	01/04/13	*			
35	Northeast of Roosevelt Bridge, NW	021	01/04/13	*			
36	27 th and I Streets, NW	022	01/02/13	*			
36a	New Hampshire Ave and Eye Street, NW	022	01/02/13	*			
36b	19 th and L Streets, NW	022, 034	01/02/13	*			
36d	17 th and L Streets, NW	022, 034	01/02/13	*			
36g	18 th and M Streets, NW	022, 034	01/04/13	*			
36h	18 th and M Streets, NW	022, 034	01/04/13	*			
37	27 th and Eye Streets, NW	022	01/07/13	*			
38	29 th and K Streets, NW	024	01/07/13	*			
38a	30 th Street, south of K Street, NW	024	01/07/13	*			
39a	30 th and K Streets, NW	024	01/07/13	*			
39b	30 th and K Streets, NW	024	01/07/13	*			
41b	31 st and K Streets, NW	025	01/07/13	*			
41c	31 st and K Streets, NW	025	01/07/13	*			
42	Wisconsin Ave and K Street, NW	026	01/07/13	*			
43	Potomac and Water Streets, NW	027	01/07/13	*			
43a	Potomac and Water Streets, NW	027	01/07/13	*			
44	Water Street, west of Potomac St, NW	027	01/07/13	*			
45	36 th and M Streets, NW	028	01/04/13	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	01/04/13	*			
47	38 th Street and Reservoir Road, NW	029	01/04/13	*			
47a	37 th and T Streets, NW	029	01/04/13	*			
47b	37 th and T Streets, NW	029	01/04/13	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47c	38 th and W Streets, NW	029	01/04/13	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A ¹				
50	26 and M Streets, NW	032	01/08/13	*			
51	N Street Extended, west of 25 th Street, NW	033	01/08/13	*			
52	22 nd Street between M and N Streets, NW	034	01/31/13	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	01/31/13	*			
53	22 nd and M Streets, NW	022, 034	01/31/13	*			
53a	22 nd and M Streets, NW	022, 034	01/31/13	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	01/31/13	*			
53c	L and 22 nd Streets, NW	022	01/18/13	*			
54	23 rd and O Streets, NW	034	01/18/13	*			
55	22 nd Street, south of Q Street, NW	035	01/11/13	*			
55a	22 nd Street, south of Q Street, NW	035	01/11/13	*			
56	23 rd and Massachusetts Ave, NW	036	01/11/13	*			
57	23 rd Street, south of Q Street, NW	036	01/11/13	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A ¹				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	01/08/13	*			
60	Connecticut Ave, east of Rock Creek, NW	039	01/09/13	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	01/09/13	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	01/18/13	*			
63	Harvard Street and Rock Creek Parkway, NW	042	01/18/13	*			
64	Adams Mill Road, south of Irving Street, NW	043	01/18/13	*			
65	Kenyon Street and Adams Mill Road, NW	044	01/18/13	*			
65a	Kenyon Street and Adams Mill Road, NW	044	01/18/13	*			
66	Adams Mill Road and Lamont Street, NW	045	01/18/13	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	01/18/13	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	01/18/13	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	01/18/13	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	01/02/13	*			
70i	5 th and Quackenbos Streets, NW	049	01/02/13	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	01/17/13	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	01/11/13	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	01/11/13	*			
73	O Street Extended and Rock Creek Parkway, NW	052	01/17/13	*			
74	Q Street, west of Rock Creek, NW	053	N/A ¹				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	01/17/13	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	01/17/13	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	01/22/13	*			
78	28th Street Extended, west of Rock Creek, NW	057	01/17/13	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A ¹				
84	26 th and P Streets, NW	060	01/11/13	*			
84a	26 th and P Streets, NW	060	01/11/13	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

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 - Outfalls and Tide Gates

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	01/10/13	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	01/10/13	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A ¹									
007	Between 11 th St. and Anacostia Bridges, SE	01/10/13	*		*		*		*		
009	O St. Sewage Pumping Station, SE	01/08/13	*		*		*		*		
010	O St. Sewage Pumping Station, SE	01/11/13	*			*			*		
011	Main Sewage Pumping Station, SE	01/11/13	*			*			*		
011(a)	Main Sewage Pumping Station, SE	01/10/13	*		*		*		*		
012	Main Sewage Pumping Station, SE	01/10/13	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	01/03/13	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	01/03/13	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	01/03/13	*			*			*		
016	12th and O Streets, SE	01/03/13	*		*		*		*		
017	M and Water Street, SE	01/03/13	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	01/03/13	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	01/03/13	*			*			*		
020	Rock Creek Parkway and Independence, NW	01/17/13	*		*		*		*		
021	Rock Creek Parkway and C St., NW	01/22/13	*			*			*		
022	Rock Creek Parkway and G St., NW	01/22/13	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	01/17/13	*		*		*		*		
025	South of 31st and K Streets, NW	01/17/13	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	01/17/13	*		*		*		*		
027	33 rd and Water Sts., NW	01/17/13	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	01/17/13	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	01/17/13	*		*		*		*		
031	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A ¹									

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
032	26th and M Street, NW.	01/08/13	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	01/08/13	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	01/11/13	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	01/11/13	*		*		*		*		
036	22nd Street, South of Q Street NW.	01/22/13	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway ¹	N/A ¹			*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	01/08/13	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	01/09/13	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	01/09/13	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	01/03/13	*		*		*		*		
042	Harvard St. and Beach Dr NW.	01/03/13	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	01/03/13	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	01/03/13	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	01/03/13	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	01/18/13	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	01/18/13	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	01/18/13	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	01/18/13	*		*		*		*		
050	Rock Creek Parkway and L St., NW	01/17/13	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	01/18/13	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	01/18/13	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW. ¹	N/A ¹									
054	Massachusetts Ave & Rock Creek Parkway, NW.	01/17/13	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	01/17/13	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	01/17/13	*		*		*		*		
058	Connecticut Ave & Rock Creek Parkway, NW. ¹	N/A ¹									
060	North of P St. Bridge & Rock Creek Pkwy, NW	01/22/13	*		*		*		*		

Notes:

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

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

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

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service¹</i>
Main	31	4	10	#3 Sanitary Pump	January 1-31	Pump being rehabbed	February 2013
				#2 Screen	January 1-31	Screen being rehabbed	April 2013
Eastside	31	2	4	#2 Screen	January 1-31	Screen being rehabbed	May 2013
				#2 Pump	January 1-2	Pump being rehabbed	Restored January 3, 2013
Poplar Point	31	2	3	#1 Screen	January 1-31	Screen being rehabbed	June 2013
Potomac	31	4	5	#2 Sanitary Pump	January 1-31	Pump being rehabbed	March 2013
				#3 Screen	January 1-11	Screen being rehabbed	Restored January 11, 2013
				#1 Screen	January 1-23	Screen being rehabbed	Restored January 24, 2013
				#2 Screen	January 24-29	Screen being rehabbed	Restored January 30, 2013

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

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

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	1/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
O St	1/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	1/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	1/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	1/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	1/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	1/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	1/26/2013	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

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

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

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)¹</i>
Main	1,841.50	59.40	N/A	N/A	N/A
O St	137.20	4.43	1/30/2013	59.20	Normal
			1/31/2013	60.10	Normal
Eastside	267.24	8.62	N/A	N/A	N/A
Poplar Point	679.41	21.92	N/A	N/A	N/A
Potomac	3,331.00	107.45	N/A	N/A	N/A
Rock Creek	432.50	13.95	N/A	N/A	N/A
Upper Anacostia	152.08	4.91	N/A	N/A	N/A
Earle Place	0.20	0.01	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

2-4 Northeast Boundary Swirl Facility

The Northeast Boundary Swirl Facility provides screening, swirl concentration, chlorination and dechlorination of CSO overflow from CSO 019. The capacity of the facility is 400 MGD. Facility operations are summarized below:

Table 2-6
Northeast Boundary Swirl Facility – Inspections and Equipment in Service

<i>Date Inspected</i>	<i># of Screens</i>	<i># of Swirls</i>	<i>Screens or Swirls Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
1/26/2013	1, 2 & 3	1, 2 & 3	#1 Screen	January 20-31	Screen being rehabbed	May 2013

**Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance**

<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
1/25/13	Group A	

Notes:

1. Group A consists of:
 Exercise bar screens
 Exercise wash down system
 Exercise knife gates full travel both directions
 Check depth of grit in grit channel and schedule Vector truck as required
 Change chart paper on strip chart recorders at the end of each month
 Thoroughly clean each Swirl tank and channels
 Issue work order requests as required
 Drain condensation from air compress
 Check all safety equipment

**Table 2-8
Northeast Boundary Swirl Facility – Wet Weather Operations**

<i>Date</i>	<i>Approx. Storm Duration (hrs)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume (mg)</i>	<i>Approx. Screenings Volume (Cu. ft)</i>
1/15/2013	4.5	39.4	39.4	0.0	32.0
1/15/2013	2.5	5.1	5.1	0.0	24.0
1/16/2013	7.5	10.2	7.0	3.2	12.0
1/30/2013	2.75	29.1	3.7	25.4	96.0
1/31/2013	8	6.5	6.5	0.0	44.0

Chlorination/Dechlorination Systems.

The table below summarizes the information about operation of Swirl Facility chlorination and dechlorination systems during storm events. Chemical feed systems were activated during the storms in which flows were substantial enough to overflow the mix chamber weir. Included in the table are results of residual chlorine, enterococcus and fecal coliform testing for samples taken in the Swirl Facility mix chamber and at the facility effluent outfall to the Anacostia River.

Taking a grab sample and immediately testing it with a portable analyzing kit obtain test results for residual chlorine. Samples for fecal coliform and enterococcus are taken from the designated sample point, treated with sodium bisulfate to remove any residual chlorine, and conveyed to the Blue Plains Wastewater Treatment Plant Laboratory for testing.

**Table 2-9
Northeast Boundary Swirl Facility – Disinfection Performance**

<i>Date</i>	<i>Chlor/ Dechlor System Used?</i>	<i>Dosages</i>		<i>Residual Chlorine Test Results</i>		<i>E. Coli Test Results</i>	
		<i>NaOCl (mg/l)</i>	<i>NaHSO₃ (mg/l)</i>	<i>Location</i>	<i>Conc. (mg/l)</i>	<i>Site</i>	<i>Count Per 100ml</i>
1/16	Yes	5	2	Mix Chamber	0.1	Mix Chamber	580
				Anacostia River ¹	0.0	Anacostia River ¹	<10
1/30	Yes	5	2	Mix Chamber	0.2	Mix Chamber	<10
				Anacostia River ¹	0.0	Anacostia River ¹	660

Notes:

1. River: River Outfall

Table 2-10
Northeast Boundary Swirl Facility – Effluent Sampling Results

<i>Date</i>	<i>Flow Composited Sample Results</i>						
	<i>Total suspended solids (mg/L)</i>	<i>Nitrite (NO₂-N) mg/L</i>	<i>Nitrate (NO₃-N) mg/L</i>	<i>Total Kjeldahl Nitrogen (mg/L as N)</i>	<i>Total Nitrogen (mg/L)</i>	<i>Total Phosphorus (mg/L)</i>	<i>Carbonaceous Biological Oxygen Demand (mg/L)</i>
1/16/13	42.0	0.00	0.77	5.32	6.09	0.50	13.3
1/30/13	45.0	0.00	0.50	3.23	3.73	0.52	12.3

2.5 Inflatable Dams

DC WATER operates and maintains twelve inflatable dams at eight different locations. The structure number, location and number of dams per site are presented in Table 2-10. The inflatable dams consist of multi-ply elastomeric (i.e., “rubber”) fabric dams installed in major overflow conduits within the combined sewer system. The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflows occur. The effect of the installation is to retain a greater volume of combined sewage flow resulting from low to moderate intensity storms by maximizing storage within the CSS. During higher intensity storms, when the full carrying capacity of the overflow conduit is required to prevent upstream flooding, the dam is deflated automatically. Inflatable dam operations are summarized below:

**Table 2-11
Inflatable Dams – Inspections and Equipment in Service**

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
14 - East	1/20/2013	No	N/A	N/A	N/A
14 - West	1/20/2013	No	N/A	N/A	N/A
15	1/20/2013	No	N/A	N/A	N/A
15A	1/20/2013	No	N/A	N/A	N/A
16 - East	1/20/2013	No	N/A	N/A	N/A
16 - West	1/20/2013	No	N/A	N/A	N/A
24 - North	1/20/2013	No	N/A	N/A	N/A
24 - Middle	1/20/2013	No	N/A	N/A	N/A
24 - South	1/20/2013	No	N/A	N/A	N/A
34	1/20/2013	No	N/A	N/A	N/A
35	1/20/2013	No	N/A	N/A	N/A
52	1/20/2013	No	N/A	N/A	N/A

**Table 2-12
Inflatable Dams & SCADA Sites - Wet Weather Operations**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
14 (E & W)	None	N/A
15	1/15 1/16 1/30 1/31	2 mins 35mins 20 mins 2 mins
15A	1/15 1/16 1/30	3 hrs, 42 mins 3 hrs, 36 mins 10 mins
16 (E & W)	None	N/A
24	1/15 1/16 1/30 1/31	2 mins 2 mins 28 mins 21 mins
34	None	N/A
35	1/30 1/31	74 mins 10 mins
52	None	N/A
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow during January 2013.

Sanitary Sewer Overflows:

Location	Suitland Parkway near Irving Street, SE.
Cause	One of DC Water contractors inspecting storm sewer outfalls observed sanitary waste in the outfall near Harford Street and 22 nd Street, SE. A crew dispatched to investigate further found an overflowing manhole with a buildup of grease and other debris near a broken section of pipe in the 12 inch sanitary sewer.
Date/ Time Discovered	January 10, 2013 at approximately 12:15 pm.
Action Taken	The crew removed the grease and cleared the sewer.
Date/Time Discharge Ceased	January 10, 2013 at approximately 11:30 pm.
Estimated Volume	Approximately 50,000 gallons.
Did Overflow Reach Receiving water?	Yes. The Anacostia River
Action taken to prevent reoccurrence	Corinthian Contractors replaced the broken sections of pipe on the 12 inch sanitary sewer. To determine what additional steps may be needed to prevent recurrence at this location, we have requested our Department of Engineering and Technical Services – Planning Section to prioritize the inspections of sewers near this location in the overall sewer system assessment program.

SOLIDS AND FLOATABLES CONTROL

4.1 Catch Basin Cleaning

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

Table 4-1 Catch Basin Summaries

Ward	Total CBs	CBs in CSS	Inspections			Cleaning					
			CBs in Anacostia CSS	Total Anacostia CBs Inspected Once this Year	Total Anacostia CBs Inspected Twice this Year	CBs Cleaned Thru Last Month		CB's Cleaned this Month		Total CBs Cleaned This Year to Date	
						Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	38	0	2786	2495	111	82	111	82
2	4,714	4,112	2,316	28	0	6403	5395	50	50	50	50
3	3,555	461	-	0	0	5677	768	23	0	23	0
4	2,782	1,985	159	20	0	4648	3166	20	20	20	20
5	2,167	1,035	1,035	52	0	4173	2492	52	52	52	52
6	1,783	1,594	1,594	348	0	4094	3329	390	348	390	348
7	2,313	-	-	0	0	3725	0	1609	0	1609	0
8	1,278	116	116	113	0	3014	940	380	113	380	113
DC WATER Subtotal	20,183	10,871	5,954	599	0	34,520	18,585	2,635	665	2,635	665
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871									
% Cleaned/Inspected to Date				10%	0%					13%	6%

4.2 BMP Demonstration Projects

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

- Netting system at CSO 018 to Anacostia River
- Bar Rack at CSO 040 and 041 to Rock Creek

Table 4-2
BMP Demonstration Projects – Report

<i>Facility</i>	<i>Date Inspected</i>	<i>Condition</i>	<i>Work Needed</i>	<i>Work performed</i>	<i>Material Removed (CY)</i>
Netting System CSO 018	1/18/2013	Netting platform dropped under the water level in the river.	Boom and flotation replacement	Contractor onsite installing repaired platform.	None collected
Bar Rack CSO 040	1/9/2013	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	1/3/2013	Good	None	Routine Cleaning	(1)

Notes:

(1) System is designed such that captured solids and floatable are conveyed to Blue Plains for treatment.

4.3 Anacostia River Floating Debris Removal Program

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

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

<i>Program Operation</i>	5-day work week, excluding holidays, weather permitting
<i>Work Days this month:</i>	21
<i>Days not Operating</i>	11
<i>Reason not Operating</i>	High winds, low tide, and PM/repair service.
<i># Skimmer in Fleet</i>	3 skimmers
<i># Skimmers Out of Service</i>	3
<i>Dates</i>	B28: 1/1 – 1/31, B29: 1/1 – 1/31, B32: 1/10 and 1/30 - 1/31
<i>Reason</i>	B28: hydraulic leak front ram and crimped throttle cable. B29: hydraulic leak both propulsion pods. B32: STBD wing sticking and separated weld on STBD wing.
<i>Plan to Restore to Service</i>	B28: ETR Feb 2013, B29: ETR unknown. B32: ETR Feb 2013
<i>Volume Material Collected</i>	10 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

4.4 CSS Litter Control

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

Status: no activities 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: Claude Price

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	1/18	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	1/18	X			

5.2 Rain Data

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

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
1/1/2013	0	0	0	0
1/2/2013	0	0	0	0
1/3/2013	0	0	0	0
1/4/2013	0	0	0	0
1/5/2013	0	0	0	0
1/6/2013	0	0	0	0
1/7/2013	0	0	0	0
1/8/2013	0	0	0	0
1/9/2013	0	0	0	0
1/10/2013	0	0	0	0.01
1/11/2013	0.01	0.03	0.01	0
1/12/2013	0	0	0	0
1/13/2013	0	0.01	0.01	0
1/14/2013	0.08	0.1	0.08	0
1/15/2013	0.75	0.8	0.76	0.01
1/16/2013	0.28	0.3	0.27	0
1/17/2013	0.01	0.01	0.03	0
1/18/2013	0	0	0	0
1/19/2013	0	0	0	0
1/20/2013	0	0	0	0
1/21/2013	0	0	0	0
1/22/2013	0	0	0.52	0
1/23/2013	0	0	0	0
1/24/2013	0.11	0	0.01	0.71
1/25/2013	0	0	0	0.04
1/26/2013	0.01	0.01	0.01	0
1/27/2013	0	0	0	0
1/28/2013	0.17	0.14	0.12	0.16
1/29/2013	0	0	0	0
1/30/2013	0.03	0.79	0.69	0.76
1/31/2013	0.36	0.39	0.21	0.39
TOTAL	1.81	2.58	2.72	2.08



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

**Monthly Operations Report
For
Combined Sewer System
Month: February 2013**

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

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

Monthly Operations Report for Combined Sewer System
Month: February 2013

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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 parts 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 wastewater treatment plant at Blue Plains (BPWWTP or the Blue Plains WWTP). 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 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 BPWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to CSO outfalls which discharge to receiving waters. The following table summarizes inspections of CSO regulators in the collection system.

**Table 2-1
Regulator Structures**

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	02/20/13	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	02/20/13	*			
5	Poplar Point Pumping Station	004	02/11/13	*			
6	Chicago Street and Railroad Ave, SE	005	02/11/13	*			
7	W Street and Railroad Ave, SE	005	02/11/13	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A ¹				
9	13 th Street and Ridge Place, SE	007	02/11/13	*			
11	"O" Street Pumping Station	011(a)	02/28/13	*			
12	Storm Pump Discharge at Main Pumping Station	011	02/28/13	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	02/15/13	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	02/28/13	*			
15	South Capitol and E Streets	010	02/21/13	*			
15a	Half and L Streets, SE	010	02/21/13	*			
15b	South Capitol and I Streets	010	02/22/13	*			
15c	South Capitol and I Streets	010	02/22/13	*			
16	North of Main Sewage Pumping Station	012	02/28/13	*			
17	4 th and N Streets, SE, Both Extended	013	02/07/13	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	02/22/13	*			
18	6 th and M Streets, SE	014	02/05/13	*			
19	9 th and M Streets, SE	015	02/28/13	*			
19a	9 th and M Streets, SE	015	02/28/13				Contractor at work
20	12 th and M Streets, SE	016	02/14/13	*			
20a	12 th and M Streets, SE	016	02/14/13	*			
21	14 th and M Streets, SE	017	02/28/13	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	02/25/13	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	02/25/13	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	02/25/13	*			
22d	Kentucky Ave and Potomac Street, SE	018	02/25/13	*			
22e	14 th Street and Kentucky Ave, SE	018	02/25/13	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
23	Independence Ave, 21 st Street, SE, Extended	019	02/20/13	*			
24a	East Capitol St, west of RFK stadium	019	02/20/13	*			
28	21 st and Constitution Ave, NW	020	02/25/13	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	02/25/13	*			
30	17 th and D Streets, NW	020	02/15/13	*			
31	15 th Street and Pennsylvania Ave, NW	020	02/15/13	*			
33	10 th and F Streets, NW	020	02/15/13	*			
34	23 rd Street, north of Constitution Ave, NW	020	02/21/13	*			
34a	23 rd Street near C Street, NW	020	02/25/13	*			
35	Northeast of Roosevelt Bridge, NW	021	02/21/13	*			
36	27 th and I Streets, NW	022	02/05/13	*			
36a	New Hampshire Ave and Eye Street, NW	022	02/05/13	*			
36b	19 th and L Streets, NW	022, 034	02/15/13	*			
36d	17 th and L Streets, NW	022, 034	02/15/13	*			
36g	18 th and M Streets, NW	022, 034	02/15/13	*			
36h	18 th and M Streets, NW	022, 034	02/15/13	*			
37	27 th and Eye Streets, NW	022	02/05/13	*			
38	29 th and K Streets, NW	024	02/11/13	*			
38a	30 th Street, south of K Street, NW	024	02/11/13	*			
39a	30 th and K Streets, NW	024	02/11/13	*			
39b	30 th and K Streets, NW	024	02/11/13	*			
41b	31 st and K Streets, NW	025	02/11/13	*			
41c	31 st and K Streets, NW	025	02/11/13	*			
42	Wisconsin Ave and K Street, NW	026	02/22/13	*			
43	Potomac and Water Streets, NW	027	02/22/13	*			
43a	Potomac and Water Streets, NW	027	02/22/13	*			
44	Water Street, west of Potomac St, NW	027	02/22/13	*			
45	36 th and M Streets, NW	028	02/04/13	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	02/04/13	*			
47	38 th Street and Reservoir Road, NW	029	02/04/13	*			
47a	37 th and T Streets, NW	029	02/04/13	*			
47b	37 th and T Streets, NW	029	02/04/13	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47c	38 th and W Streets, NW	029	02/04/13	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A ¹				
50	26 and M Streets, NW	032	02/25/13	*			
51	N Street Extended, west of 25 th Street, NW	033	02/15/13	*			
52	22 nd Street between M and N Streets, NW	034	02/28/13	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	02/28/13	*			
53	22 nd and M Streets, NW	022, 034	02/28/13	*			
53a	22 nd and M Streets, NW	022, 034	02/28/13	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	02/25/13	*			
53c	L and 22 nd Streets, NW	022	02/25/13	*			
54	23 rd and O Streets, NW	034	02/22/13	*			
55	22 nd Street, south of Q Street, NW	035	02/22/13	*			
55a	22 nd Street, south of Q Street, NW	035	02/22/13	*			
56	23 rd and Massachusetts Ave, NW	036	02/22/13	*			
57	23 rd Street, south of Q Street, NW	036	02/22/13	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A ¹				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	02/25/13	*			
60	Connecticut Ave, east of Rock Creek, NW	039	02/12/13	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	02/12/13	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	02/20/13	*			
63	Harvard Street and Rock Creek Parkway, NW	042	02/20/13	*			
64	Adams Mill Road, south of Irving Street, NW	043	02/20/13	*			
65	Kenyon Street and Adams Mill Road, NW	044	02/20/13	*			
65a	Kenyon Street and Adams Mill Road, NW	044	02/20/13	*			
66	Adams Mill Road and Lamont Street, NW	045	02/20/13	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	02/20/13	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	02/20/13	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	02/20/13	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	02/20/13	*			
70i	5 th and Quackenbos Streets, NW	049	02/05/13	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	02/11/13	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	02/22/13	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	02/22/13	*			
73	O Street Extended and Rock Creek Parkway, NW	052	02/22/13	*			
74	Q Street, west of Rock Creek, NW	053	N/A ¹				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	02/27/13	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	02/27/13	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	02/27/13	*			
78	28th Street Extended, west of Rock Creek, NW	057	02/27/13	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A ¹				
84	26 th and P Streets, NW	060	02/22/13	*			
84a	26 th and P Streets, NW	060	02/22/13	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

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 - Outfalls and Tide Gates

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	02/20/13	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	02/21/13	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A ¹									
007	Between 11 th St. and Anacostia Bridges, SE	02/21/13	*		*		*		*		
009	O St. Sewage Pumping Station, SE	02/28/13	*		*		*		*		
010	O St. Sewage Pumping Station, SE	02/28/13	*			*			*		
011	Main Sewage Pumping Station, SE	02/28/13	*			*			*		
011(a)	Main Sewage Pumping Station, SE	02/28/13	*		*		*		*		
012	Main Sewage Pumping Station, SE	02/28/13	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	02/28/13	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	02/28/13	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	02/28/13	*			*			*		
016	12th and O Streets, SE	02/28/13	*		*		*		*		
017	M and Water Street, SE	02/28/13	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	02/28/13	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	02/28/13	*			*			*		
020	Rock Creek Parkway and Independence, NW	02/14/13	*		*		*		*		
021	Rock Creek Parkway and C St., NW	02/14/13	*			*			*		
022	Rock Creek Parkway and G St., NW	02/14/13	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	02/14/13	*		*		*		*		
025	South of 31st and K Streets, NW	02/14/13	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	02/14/13	*		*		*		*		
027	33 rd and Water Sts., NW	02/14/13	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	02/14/13	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
029	Adjacent to C&O Canal, aligned with 38 th St. NW	02/14/13	*		*		*		*		
031	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A ¹									
032	26th and M Street, NW.	02/25/13	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	02/25/13	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	02/22/13	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	02/22/13	*		*		*		*		
036	22nd Street, South of Q Street NW.	02/21/13	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway ¹	N/A ¹			*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	02/25/13	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	02/12/13	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	02/12/13	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	02/14/13	*		*		*		*		
042	Harvard St. and Beach Dr NW.	02/14/13	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	02/14/13	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	02/14/13	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	02/14/13	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	02/20/13	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	02/20/13	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	02/20/13	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	02/20/13	*		*		*		*		
050	Rock Creek Parkway and L St., NW	02/11/13	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	02/21/13	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	02/21/13	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW. ¹	N/A ¹									
054	Massachusetts Ave & Rock Creek Parkway, NW.	02/27/13	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	02/27/13	*		*		*		*		

<i>NPDES Outfall</i>	<i>Location</i>	<i>Date Inspected</i>	<i>Outfall Condition</i>		<i>Tide Gate Present?</i>		<i>Tide Gate Condition</i>		<i>CSO Sign</i>		<i>Notes, Work Needed or Performed</i>
			<i>OK</i>	<i>Needs Work</i>	<i>Yes</i>	<i>No</i>	<i>OK</i>	<i>Needs Work</i>	<i>OK</i>	<i>Needs Work</i>	
057	28th Street and Rock Creek Parkway, NW	02/27/13	*		*		*		*		
058	Connecticut Ave & Rock Creek Parkway, NW. ¹	N/A ¹									
060	North of P St. Bridge & Rock Creek Pkwy, NW	02/21/13	*		*		*		*		

Notes:

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

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

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

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service¹</i>
Main	28	4	10	#3 Sanitary Pump #2 Screen	February 1-11 February 1-28	Pump being rehabbed Screen being rehabbed	Restored February 11, 2013 April 2013
Eastside	28	2	4	#2 Screen	February 1-28	Screen being rehabbed	May 2013
Poplar Point	28	2	3	#1 Screen	February 1-28	Screen being rehabbed	June 2013
Potomac	28	4	5	#2 Sanitary Pump #1 Screen	February 1-28 February 13-28	Pump being rehabbed Screen being rehabbed	March 2013 April 2013

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

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

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	2/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
O St	2/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	2/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	2/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	2/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	2/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	2/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	2/26/2013	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

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

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

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)¹</i>
Main	1,547.80	55.28	N/A	N/A	N/A
O St	122.47	4.37	N/A	N/A	Normal
Eastside	195.06	6.97	N/A	N/A	N/A
Poplar Point	599.40	21.41	N/A	N/A	N/A
Potomac	3,330.20	118.94	N/A	N/A	N/A
Rock Creek	197.50	7.05	N/A	N/A	N/A
Upper Anacostia	161.60	5.77	N/A	N/A	N/A
Earle Place	0.14	0.00	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

2-4 Northeast Boundary Swirl Facility

The Northeast Boundary Swirl Facility provides screening, swirl concentration, chlorination and dechlorination of CSO overflow from CSO 019. The capacity of the facility is 400 MGD. Facility operations are summarized below:

**Table 2-6
Northeast Boundary Swirl Facility – Inspections and Equipment in Service**

<i>Date Inspected</i>	<i># of Screens</i>	<i># of Swirls</i>	<i>Screens or Swirls Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
2/26/2013	1, 2 & 3	1, 2 & 3	#1 Screen	February 1-28	Screen being rehabbed	May 2013

**Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance**

<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
2/25/13	Group A	

Notes:

1. Group A consists of:
 Exercise bar screens
 Exercise wash down system
 Exercise knife gates full travel both directions
 Check depth of grit in grit channel and schedule Vactor truck as required
 Change chart paper on strip chart recorders at the end of each month
 Thoroughly clean each Swirl tank and channels
 Issue work order requests as required
 Drain condensation from air compress
 Check all safety equipment

**Table 2-8
Northeast Boundary Swirl Facility – Wet Weather Operations**

<i>Date</i>	<i>Approx. Storm Duration (hrs)</i>	<i>Total Influent Volume (mg)¹</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume (mg)</i>	<i>Approx. Screenings Volume (Cu. ft)</i>
2/26/2013	1.5	2.33	2.33	0.0	40
2/27/2013	4	2.00	2.00	0.0	10

Note:

1. The influent flow meter is not reading. Flow volumes are approximated.

Chlorination/Dechlorination Systems.

The table below summarizes the information about operation of Swirl Facility chlorination and dechlorination systems during storm events. Chemical feed systems were activated during the storms in which flows were substantial enough to overflow the mix chamber weir. Included in the table are results of residual chlorine, enterococcus and fecal coliform testing for samples taken in the Swirl Facility mix chamber and at the facility effluent outfall to the Anacostia River.

Taking a grab sample and immediately testing it with a portable analyzing kit obtain test results for residual chlorine. Samples for fecal coliform and enterococcus are taken from the designated sample point, treated with sodium bisulfate to remove any residual chlorine, and conveyed to the Blue Plains Wastewater Treatment Plant Laboratory for testing.

**Table 2-9
Northeast Boundary Swirl Facility – Disinfection Performance**

<i>Date</i>	<i>Chlor/ Dechlor System Used?</i>	<i>Dosages</i>		<i>Residual Chlorine Test Results</i>		<i>E. Coli Test Results</i>	
		<i>NaOCl (mg/l)</i>	<i>NaHSO₃ (mg/l)</i>	<i>Location</i>	<i>Conc. (mg/l)</i>	<i>Site</i>	<i>Count Per 100ml</i>
N/A	Yes	5	2	Mix Chamber		Mix Chamber	
				Anacostia River ¹		Anacostia River ¹	

Notes:

1. River: River Outfall

**Table 2-10
Northeast Boundary Swirl Facility – Effluent Sampling Results**

<i>Date</i>	<i>Flow Composited Sample Results</i>						
	<i>Total suspended solids (mg/L)</i>	<i>Nitrite (NO₂-N) mg/L</i>	<i>Nitrate (NO₃-N) mg/L</i>	<i>Total Kjeldahl Nitrogen (mg/L as N)</i>	<i>Total Nitrogen (mg/L)</i>	<i>Total Phosphorus (mg/L)</i>	<i>Carbonaceous Biological Oxygen Demand (mg/L)</i>

2.5 Inflatable Dams

DC WATER operates and maintains twelve inflatable dams at eight different locations. The structure number, location and number of dams per site are presented in Table 2-10. The inflatable dams consist of multi-ply elastomeric (i.e., “rubber”) fabric dams installed in major overflow conduits within the combined sewer system. The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflows occur. The effect of the installation is to retain a greater volume of combined sewage flow resulting from low to moderate intensity storms by maximizing storage within the CSS. During higher intensity storms, when the full carrying capacity of the overflow conduit is required to prevent upstream flooding, the dam is deflated automatically. Inflatable dam operations are summarized below:

**Table 2-11
Inflatable Dams – Inspections and Equipment in Service**

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
14 - East	2/20/2013	No	N/A	N/A	N/A
14 - West	2/20/2013	No	N/A	N/A	N/A
15	2/20/2013	No	N/A	N/A	N/A
15A	2/20/2013	No	N/A	N/A	N/A
16 - East	2/20/2013	No	N/A	N/A	N/A
16 - West	2/20/2013	No	N/A	N/A	N/A
24 - North	2/20/2013	No	N/A	N/A	N/A
24 - Middle	2/20/2013	No	N/A	N/A	N/A
24 - South	2/20/2013	No	N/A	N/A	N/A
34	2/20/2013	No	N/A	N/A	N/A
35	2/20/2013	No	N/A	N/A	N/A
52	2/20/2013	No	N/A	N/A	N/A

**Table 2-12
Inflatable Dams & SCADA Sites - Wet Weather Operations**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
14 (E & W)	None	N/A
15	2/15 2/16 2/26	6 mins 21 mins 4 mins
15A	2/26 2/27	1 hr, 35 mins 2 mins
16 (E & W)	None	N/A
24	2/26	4 mins
34	None	N/A
35	2/26	1 min
52	None	N/A
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow during February 2013.

4. SOLIDS AND FLOATABLES CONTROL

4.1 Catch Basin Cleaning

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

Table 4-1 Catch Basin Summaries

Ward	Total CBs	CBs in CSS	Inspections			Cleaning					
			CBs in Anacostia CSS	Total Anacostia CBs Inspected Once this Year	Total Anacostia CBs Inspected Twice this Year	CBs Cleaned Thru Last Month		CB's Cleaned this Month		Total CBs Cleaned This Year to Date	
						Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	54	0	111	82	34	34	145	116
2	4,714	4,112	2,316	66	0	50	50	68	68	118	118
3	3,555	461	-	0	0	23	0	0	0	23	0
4	2,782	1,985	159	84	0	20	20	1454	1037	1474	1057
5	2,167	1,035	1,035	106	0	52	52	81	54	133	106
6	1,783	1,594	1,594	567	0	390	348	245	219	635	567
7	2,313	-	-	0	0	1609	0	340	0	1949	0
8	1,278	116	116	116	0	380	113	225	134	605	247
DC WATER Subtotal	20,183	10,871	5,954	993	0	2,635	665	2,447	1,546	5,082	2,211
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871									
% Cleaned/Inspected to Date				17%	0%					25%	20%

4.2 BMP Demonstration Projects

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

- Netting system at CSO 018 to Anacostia River
- Bar Rack at CSO 040 and 041 to Rock Creek

Table 4-2
BMP Demonstration Projects – Report

<i>Facility</i>	<i>Date Inspected</i>	<i>Condition</i>	<i>Work Needed</i>	<i>Work performed</i>	<i>Material Removed (CY)</i>
Netting System CSO 018	2/28/2013	Good	Change nets	Changed nets	220 pounds
Bar Rack CSO 040	2/12/2013	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	2/14/2013	Good	None	Routine Cleaning	(1)

Notes:

(1) System is designed such that captured solids and floatable are conveyed to Blue Plains for treatment.

4.3 Anacostia River Floating Debris Removal Program

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

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

<i>Program Operation</i>	5-day work week, excluding holidays, weather permitting
<i>Work Days this month:</i>	19
<i>Days not Operating</i>	9
<i>Reason not Operating</i>	High winds, low tide, and PM/repair service.
<i># Skimmer in Fleet</i>	3 skimmers
<i># Skimmers Out of Service</i>	1 skimmer
<i>Dates</i>	B28: 2/1 - 2/4, 2/6, 2/15 - 2/20, 2/26 B29: 2/1 - 2/28 B32 2/1 - 2/6
<i>Reason</i>	B28: wing and conveyor screens not working. B29: hydraulic oil leaking from both propulsion pods. B32: broken weld on wing mount.
<i>Plan to Restore to Service</i>	B28: repaired 2/27 B29: ETR unknown B32: repaired 2/7.
<i>Volume Material Collected</i>	20 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

4.4 CSS Litter Control

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

Status: no activities 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: Claude Price

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	2/26	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	2/26	X			

5.2 Rain Data

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

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
2/1/2013	0	0	0	0
2/2/2013	0	0	0	0
2/3/2013	0.01	0	0	0
2/4/2013	0	0	0	0
2/5/2013	0	0	0	0
2/6/2013	0	0	0	0
2/7/2013	0	0	0	0
2/8/2013	0.05	0.19	0.11	0.22
2/9/2013	0	0	0	0
2/10/2013	0	0	0	0
2/11/2013	0.01	0.22	0.3	0.22
2/12/2013	0	0	0	0
2/13/2013	0.01	0.23	0.18	0.25
2/14/2013	0	0.01	0	0
2/15/2013	0	0.1	0.1	0.1
2/16/2013	0.01	0.02	0.02	0.01
2/17/2013	0	0	0	0
2/18/2013	0	0	0	0
2/19/2013	0.01	0.06	0.04	0.08
2/20/2013	0	0	0	0
2/21/2013	0	0	0	0
2/22/2013	0.02	0.02	0.04	0.03
2/23/2013	0.07	0.08	0.09	0.07
2/24/2013	0	0	0	0
2/25/2013	0	0	0	0
2/26/2013	0.35	0.64	0.44	0.6
2/27/2013	0.02	0.02	0.01	0.03
2/28/2013	0.01	0.01	0	0.01
TOTAL	0.57	1.6	1.33	1.62



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

**Monthly Operations Report
For
Combined Sewer System
Month: March 2013**

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

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

Monthly Operations Report for Combined Sewer System
Month: March 2013

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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 parts 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 wastewater treatment plant at Blue Plains (BPWWTP or the Blue Plains WWTP). 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 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 BPWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to CSO outfalls which discharge to receiving waters. The following table summarizes inspections of CSO regulators in the collection system.

**Table 2-1
Regulator Structures**

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	03/29/13	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	03/29/13	*			
5	Poplar Point Pumping Station	004	03/29/13	*			
6	Chicago Street and Railroad Ave, SE	005	03/29/13	*			
7	W Street and Railroad Ave, SE	005	03/29/13	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A ¹				
9	13 th Street and Ridge Place, SE	007	03/29/13	*			
11	"O" Street Pumping Station	011(a)	03/26/13	*			
12	Storm Pump Discharge at Main Pumping Station	011	03/26/13	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	03/29/13	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	03/26/13	*			
15	South Capitol and E Streets	010	03/26/13	*			
15a	Half and L Streets, SE	010	03/26/13	*			
15b	South Capitol and I Streets	010	03/25/13	*			
15c	South Capitol and I Streets	010	03/25/13	*			
16	North of Main Sewage Pumping Station	012	03/26/13	*			
17	4 th and N Streets, SE, Both Extended	013	03/13/13	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	03/29/13	*			
18	6 th and M Streets, SE	014	03/08/13	*			
19	9 th and M Streets, SE	015	03/25/13	*			
19a	9 th and M Streets, SE	015	03/25/13				Contractor at work
20	12 th and M Streets, SE	016	03/13/13	*			
20a	12 th and M Streets, SE	016	03/13/13	*			
21	14 th and M Streets, SE	017	03/25/13	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	03/15/13	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	03/15/13	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	03/15/13	*			
22d	Kentucky Ave and Potomac Street, SE	018	03/15/13	*			
22e	14 th Street and Kentucky Ave, SE	018	03/15/13	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
23	Independence Ave, 21 st Street, SE, Extended	019	03/13/13	*			
24a	East Capitol St, west of RFK stadium	019	03/13/13	*			
28	21 st and Constitution Ave, NW	020	03/15/13	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	03/15/13	*			
30	17 th and D Streets, NW	020	03/08/13	*			
31	15 th Street and Pennsylvania Ave, NW	020	03/08/13	*			
33	10 th and F Streets, NW	020	03/08/13	*			
34	23 rd Street, north of Constitution Ave, NW	020	03/29/13	*			
34a	23 rd Street near C Street, NW	020	03/15/13	*			
35	Northeast of Roosevelt Bridge, NW	021	03/15/13	*			
36	27 th and I Streets, NW	022	03/15/13	*			
36a	New Hampshire Ave and Eye Street, NW	022	03/15/13	*			
36b	19 th and L Streets, NW	022, 034	03/05/13	*			
36d	17 th and L Streets, NW	022, 034	03/05/13	*			
36g	18 th and M Streets, NW	022, 034	03/05/13	*			
36h	18 th and M Streets, NW	022, 034	03/05/13	*			
37	27 th and Eye Streets, NW	022	03/15/13	*			
38	29 th and K Streets, NW	024	03/08/13	*			
38a	30 th Street, south of K Street, NW	024	03/08/13	*			
39a	30 th and K Streets, NW	024	03/08/13	*			
39b	30 th and K Streets, NW	024	03/08/13	*			
41b	31 st and K Streets, NW	025	03/08/13	*			
41c	31 st and K Streets, NW	025	03/08/13	*			
42	Wisconsin Ave and K Street, NW	026	03/22/13	*			
43	Potomac and Water Streets, NW	027	03/22/13	*			
43a	Potomac and Water Streets, NW	027	03/22/13	*			
44	Water Street, west of Potomac St, NW	027	03/22/13	*			
45	36 th and M Streets, NW	028	03/01/13	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	03/01/13	*			
47	38 th Street and Reservoir Road, NW	029	03/01/13	*			
47a	37 th and T Streets, NW	029	03/01/13	*			
47b	37 th and T Streets, NW	029	03/01/13	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47c	38 th and W Streets, NW	029	03/01/13	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A ¹				
50	26 and M Streets, NW	032	03/21/13	*			
51	N Street Extended, west of 25 th Street, NW	033	03/21/13	*			
52	22 nd Street between M and N Streets, NW	034	03/29/13	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	03/29/13	*			
53	22 nd and M Streets, NW	022, 034	03/13/13	*			
53a	22 nd and M Streets, NW	022, 034	03/13/13	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	03/08/13	*			
53c	L and 22 nd Streets, NW	022	03/08/13	*			
54	23 rd and O Streets, NW	034	03/19/13	*			
55	22 nd Street, south of Q Street, NW	035	03/19/13	*			
55a	22 nd Street, south of Q Street, NW	035	03/19/13	*			
56	23 rd and Massachusetts Ave, NW	036	03/19/13	*			
57	23 rd Street, south of Q Street, NW	036	03/19/13	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A ¹				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	03/15/13	*			
60	Connecticut Ave, east of Rock Creek, NW	039	03/05/13	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	03/05/13	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	03/20/13	*			
63	Harvard Street and Rock Creek Parkway, NW	042	03/20/13	*			
64	Adams Mill Road, south of Irving Street, NW	043	03/20/13	*			
65	Kenyon Street and Adams Mill Road, NW	044	03/20/13	*			
65a	Kenyon Street and Adams Mill Road, NW	044	03/20/13	*			
66	Adams Mill Road and Lamont Street, NW	045	03/20/13	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	03/20/13	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	03/20/13	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	03/20/13	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	03/20/13	*			
70i	5 th and Quackenbos Streets, NW	049	03/05/13	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	03/14/13	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	03/19/13	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	03/19/13	*			
73	O Street Extended and Rock Creek Parkway, NW	052	03/19/13	*			
74	Q Street, west of Rock Creek, NW	053	N/A ¹				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	03/29/13	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	03/29/13	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	03/29/13	*			
78	28th Street Extended, west of Rock Creek, NW	057	03/29/13	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A ¹				
84	26 th and P Streets, NW	060	03/19/13	*			
84a	26 th and P Streets, NW	060	03/19/13	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

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 - Outfalls and Tide Gates

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	03/29/13	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	03/14/13	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A ¹									
007	Between 11 th St. and Anacostia Bridges, SE	03/14/13	*		*		*		*		
009	O St. Sewage Pumping Station, SE	03/07/13	*		*		*		*		
010	O St. Sewage Pumping Station, SE	03/07/13	*			*			*		
011	Main Sewage Pumping Station, SE	03/07/13	*			*			*		
011(a)	Main Sewage Pumping Station, SE	03/07/13	*		*		*		*		
012	Main Sewage Pumping Station, SE	03/07/13	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	03/04/13	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	03/29/13	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	03/29/13	*			*			*		
016	12th and O Streets, SE	03/13/13	*		*		*		*		
017	M and Water Street, SE	03/13/13	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	03/13/13	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	03/14/13	*			*			*		
020	Rock Creek Parkway and Independence, NW	03/07/13	*		*		*		*		
021	Rock Creek Parkway and C St., NW	03/07/13	*			*			*		
022	Rock Creek Parkway and G St., NW	03/07/13	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	03/07/13	*		*		*		*		
025	South of 31st and K Streets, NW	03/07/13	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	03/07/13	*		*		*		*		
027	33 rd and Water Sts., NW	03/07/13	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	03/07/13	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
029	Adjacent to C&O Canal, aligned with 38 th St. NW	03/07/13	*		*		*		*		
031	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A ¹									
032	26th and M Street, NW.	03/21/13	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	03/21/13	*		*			*	*		
034	Just west of St. Francis Jr. High and north of N St., NW	03/19/13	*		*			*	*		
035	P St. Bridge and Rock Creek Parkway	03/19/13	*		*			*	*		
036	22nd Street, South of Q Street NW.	03/14/13	*		*			*	*		
037	Waterside Dr. and Rock Creek Parkway ¹	N/A ¹			*			*			
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	03/15/13	*		*			*	*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	03/05/13	*		*			*	*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	03/05/13	*		*			*	*		
041	Beach Dr. and Ontario Pl., NW	03/14/13	*		*			*	*		
042	Harvard St. and Beach Dr NW.	03/14/13	*		*			*	*		
043	Upstream of Harvard St. and Beach Dr NW.	03/14/13	*		*			*	*		
044	Kenyon Street and Beach Dr., NW.	03/14/13	*		*			*	*		
045	North of Beach Dr. and Walbridge Pl, NW.	03/14/13	*		*			*	*		
046	Piney Branch Parkway and Park Road, NW.	03/14/13	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	03/20/13	*		*			*	*		
048	South of Piney Branch Parkway and 17 th St.	03/20/13	*		*			*	*		
049	North of Piney Branch Parkway and 17 th St.	03/20/13	*		*			*	*		
050	Rock Creek Parkway and L St., NW	03/19/13	*		*			*	*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	03/19/13	*		*			*	*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	03/29/13	*		*			*	*		
053	Q St. Bridge and Rock Creek Parkway, NW. ¹	N/A ¹									
054	Massachusetts Ave & Rock Creek Parkway, NW.	03/29/13	*		*			*	*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	03/29/13	*		*			*	*		

<i>NPDES Outfall</i>	<i>Location</i>	<i>Date Inspected</i>	<i>Outfall Condition</i>		<i>Tide Gate Present?</i>		<i>Tide Gate Condition</i>		<i>CSO Sign</i>		<i>Notes, Work Needed or Performed</i>
			<i>OK</i>	<i>Needs Work</i>	<i>Yes</i>	<i>No</i>	<i>OK</i>	<i>Needs Work</i>	<i>OK</i>	<i>Needs Work</i>	
057	28th Street and Rock Creek Parkway, NW	03/29/13	*		*		*		*		
058	Connecticut Ave & Rock Creek Parkway, NW. ¹	N/A ¹									
060	North of P St. Bridge & Rock Creek Pkwy, NW	03/29/13	*		*		*		*		

Notes:

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

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

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

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service¹</i>
Main	31	4	10	#2 Screen	March 1-31	Screen being rehabbed	April 2013
Eastside	31	2	4	#2 Screen	March 1-31	Screen being rehabbed	May 2013
Poplar Point	31	2	3	#1 Screen	March 1-31	Screen being rehabbed	June 2013
Potomac	31	4	5	#2 Sanitary Pump #1 Screen	March 1-29 March 1-31	Pump being rehabbed Screen being rehabbed	Restored March 30, 2013 April 2013

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

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

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	3/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
O St	3/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	3/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	3/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	3/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	3/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	3/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	3/26/2013	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

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 Vector truck as required

Check all safety equipment

Issue work order requests as required

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

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)¹</i>
Main	1,800.20	58.07	N/A	N/A	N/A
O St	150.55	4.86	N/A	N/A	Normal
Eastside	242.00	7.81	N/A	N/A	N/A
Poplar Point	664.29	21.43	N/A	N/A	N/A
Potomac	3,847.50	124.11	N/A	N/A	N/A
Rock Creek	165.00	5.32	N/A	N/A	N/A
Upper Anacostia	198.95	6.42	N/A	N/A	N/A
Earle Place	0.15	0.00	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

2-4 Northeast Boundary Swirl Facility

The Northeast Boundary Swirl Facility provides screening, swirl concentration, chlorination and dechlorination of CSO overflow from CSO 019. The capacity of the facility is 400 MGD. Facility operations are summarized below:

Table 2-6
Northeast Boundary Swirl Facility – Inspections and Equipment in Service

<i>Date Inspected</i>	<i># of Screens</i>	<i># of Swirls</i>	<i>Screens or Swirls Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
3/26/2013	1, 2 & 3	1, 2 & 3	#1 Screen	March 1-31	Screen being rehabbed	May 2013

**Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance**

<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
3/25/13	Group A	

Notes:

1. Group A consists of:
 Exercise bar screens
 Exercise wash down system
 Exercise knife gates full travel both directions
 Check depth of grit in grit channel and schedule Vector truck as required
 Change chart paper on strip chart recorders at the end of each month
 Thoroughly clean each Swirl tank and channels
 Issue work order requests as required
 Drain condensation from air compress
 Check all safety equipment

**Table 2-8
Northeast Boundary Swirl Facility – Wet Weather Operations**

<i>Date</i>	<i>Approx. Storm Duration (hrs)</i>	<i>Total Influent Volume (mg)¹</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume (mg)¹</i>	<i>Approx. Screenings Volume (Cu. ft)</i>
3/6/2013	5	5.00	3.95	1.05	48.0
3/6/2013	8	2.35	2.35	0.0	8.0
3/12/2013	4.75	2.34	2.34	0.0	64.0

Note:

1. The influent flow meter is not reading. Flow volumes are approximated.

Chlorination/Dechlorination Systems.

The table below summarizes the information about operation of Swirl Facility chlorination and dechlorination systems during storm events. Chemical feed systems were activated during the storms in which flows were substantial enough to overflow the mix chamber weir. Included in the table are results of residual chlorine, enterococcus and fecal coliform testing for samples taken in the Swirl Facility mix chamber and at the facility effluent outfall to the Anacostia River.

Taking a grab sample and immediately testing it with a portable analyzing kit obtain test results for residual chlorine. Samples for fecal coliform and enterococcus are taken from the designated sample point, treated with sodium bisulfate to remove any residual chlorine, and conveyed to the Blue Plains Wastewater Treatment Plant Laboratory for testing.

**Table 2-9
Northeast Boundary Swirl Facility – Disinfection Performance**

<i>Date</i>	<i>Chlor/ Dechlor System Used?</i>	<i>Dosages</i>		<i>Residual Chlorine Test Results</i>		<i>E. Coli Test Results</i>	
		<i>NaOCl (mg/l)</i>	<i>NaHSO₃ (mg/l)</i>	<i>Location</i>	<i>Conc. (mg/l)</i>	<i>Site</i>	<i>Count Per 100ml</i>
3/6	Yes	5	2	Mix Chamber	0.1	Mix Chamber	1,300
				Anacostia River ¹	0.0	Anacostia River ¹	5,800

Notes:

1. River: River Outfall

Table 2-10
Northeast Boundary Swirl Facility – Effluent Sampling Results

<i>Date</i>	<i>Flow Composited Sample Results</i>						
	<i>Total suspended solids (mg/L)</i>	<i>Nitrite (NO₂-N) mg/L</i>	<i>Nitrate (NO₃-N) mg/L</i>	<i>Total Kjeldahl Nitrogen (mg/L as N)</i>	<i>Total Nitrogen (mg/L)</i>	<i>Total Phosphorus (mg/L)</i>	<i>Carbonaceous Biological Oxygen Demand (mg/L)</i>
3/6/13	68.0	0.00	0.61	6.06	6.67	0.98	35.2

2.5 Inflatable Dams

DC WATER operates and maintains twelve inflatable dams at eight different locations. The structure number, location and number of dams per site are presented in Table 2-10. The inflatable dams consist of multi-ply elastomeric (i.e., “rubber”) fabric dams installed in major overflow conduits within the combined sewer system. The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflows occur. The effect of the installation is to retain a greater volume of combined sewage flow resulting from low to moderate intensity storms by maximizing storage within the CSS. During higher intensity storms, when the full carrying capacity of the overflow conduit is required to prevent upstream flooding, the dam is deflated automatically. Inflatable dam operations are summarized below:

**Table 2-11
Inflatable Dams – Inspections and Equipment in Service**

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
14 - East	3/20/2013	No	N/A	N/A	N/A
14 - West	3/20/2013	No	N/A	N/A	N/A
15	3/20/2013	No	N/A	N/A	N/A
15A	3/20/2013	No	N/A	N/A	N/A
16 - East	3/20/2013	Yes	3/25	Power Loss	Restored on 3/25
16 - West	3/20/2013	Yes	3/25	Power Loss	Restored on 3/25
24 - North	3/20/2013	No	N/A	N/A	N/A
24 - Middle	3/20/2013	No	N/A	N/A	N/A
24 - South	3/20/2013	No	N/A	N/A	N/A
34	3/20/2013	No	N/A	N/A	N/A
35	3/20/2013	No	N/A	N/A	N/A
52	3/20/2013	No	N/A	N/A	N/A

**Table 2-12
Inflatable Dams & SCADA Sites - Wet Weather Operations**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
14 (E & W)	None	N/A
15	3/6 3/12	3 mins 21 mins
15A	3/6 3/12	5 hrs, 29 mins 3 hrs, 36 mins
16 (E & W)	3/12 3/25	2 mins, 6 hrs, 33 mins
24	3/12	11 mins
34	None	N/A
35	3/12	15 mins
52	None	N/A
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow during March 2013.

Sanitary Sewer Overflows:

Location	1400 35 th Street, SE
Cause	A DC Water foreman investigating a sewer odor complaint from the resident at 3601 Texas Ave, SE discovered a leaking sanitary manhole in a wooded section of Fort Davis Park adjacent to 1400 35 th St., SE. The waste seeped through the base of the manhole that had been exposed by stream erosion.
Date/ Time Discovered	March 13, 2013 at approximately 3:50 pm.
Action Taken	The crew applied quick setting concrete to stop the leak and seal the manhole.
Date/Time Discharge Ceased	March 14, 2013 at approximately 11:30 am.
Estimated Volume	Approximately 1,000 gallons.
Did Overflow Reach Receiving water?	Yes. Pope Branch a tributary The Anacostia River
Action taken to prevent reoccurrence	DC Water will secure the appropriate permits and have our contractor rehabilitate the manhole and protect the bank of the stream from further erosion

Location	1400 35 th Street, SE
Cause	A DC Water Crew was attempting to repair the base of a sanitary manhole in a wooded area of Fort Davis Park adjacent to 1400 35 th St., SE. The instability of the streams bank, caused by weather erosion, led the manhole stack to collapse spilling sanitary waste into Pope Branch.
Date/ Time Discovered	March 14, 2013 at approximately 3:30 pm.
Action Taken	DC Water contractor Corinthian Construction cleared the debris and installed temporary piping through the crumbled manhole to effectively stop all flow from the sanitary sewer.
Date/Time Discharge Ceased	March 14, 2013 at approximately 8:00 pm
Estimated Volume	Approximately 12,000 gallons.
Did Overflow Reach Receiving water?	Yes. Pope Branch a tributary The Anacostia River
Action taken to prevent reoccurrence	DC Water contractor Corinthian Construction will replace all defective pipes and will rebuild the manhole in accordance with DC Water standards and specifications. Further, we will place rip-rap along the banks of the stream to protect it from further erosion.

4. SOLIDS AND FLOATABLES CONTROL

4.1 Catch Basin Cleaning

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

Table 4-1 Catch Basin Summaries

Ward	Total CBs	CBs in CSS	Inspections			Cleaning					
			CBs in Anacostia CSS	Total Anacostia CBs Inspected Once this Year	Total Anacostia CBs Inspected Twice this Year	CBs Cleaned Thru Last Month		CB's Cleaned this Month		Total CBs Cleaned This Year to Date	
						Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	74	0	145	116	44	44	189	160
2	4,714	4,112	2,316	103	0	118	118	66	65	184	183
3	3,555	461	-	0	0	23	0	1088	115	1111	115
4	2,782	1,985	159	144	0	1474	1057	1673	747	3147	1804
5	2,167	1,035	1,035	110	0	133	106	4	4	137	110
6	1,783	1,594	1,594	596	0	635	567	29	29	664	596
7	2,313	-	-	0	0	1949	0	108	0	2057	0
8	1,278	116	116	116	0	605	247	78	26	683	273
DC WATER Subtotal	20,183	10,871	5,954	1,143	0	5,082	2,211	3,090	1,030	8,172	3,241
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871									
% Cleaned/Inspected to Date				19%	0%					40%	30%

4.2 BMP Demonstration Projects

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

- Netting system at CSO 018 to Anacostia River
- Bar Rack at CSO 040 and 041 to Rock Creek

Table 4-2
BMP Demonstration Projects – Report

<i>Facility</i>	<i>Date Inspected</i>	<i>Condition</i>	<i>Work Needed</i>	<i>Work performed</i>	<i>Material Removed (CY)</i>
Netting System CSO 018	3/29/2013	Good	Change nets	Changed nets	150 pounds
Bar Rack CSO 040	3/5/2013	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	3/14/2013	Good	None	Routine Cleaning	(1)

Notes:

(1) System is designed such that captured solids and floatable are conveyed to Blue Plains for treatment.

4.3 Anacostia River Floating Debris Removal Program

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

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

<i>Program Operation</i>	5-day work week, excluding holidays, weather permitting
<i>Work Days this month:</i>	21
<i>Days not Operating</i>	14
<i>Reason not Operating</i>	High winds, low tide, and PM/repair service.
<i># Skimmer in Fleet</i>	3 skimmers
<i># Skimmers Out of Service</i>	1
<i>Dates</i>	B29: 3/1 - 3/31
<i>Reason</i>	B29: hydraulic oil leak in both propulsion pods.
<i>Plan to Restore to Service</i>	B29: at Gates Marina for repairs - ASAP.
<i>Volume Material Collected</i>	50 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

4.4 CSS Litter Control

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

Status: no activities 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: Claude Price

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	3/14	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	3/14	X			

5.2 Rain Data

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

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
3/1/2013	0	0	0	0
3/2/2013	0	0	0	0
3/3/2013	0	0	0	0
3/4/2013	0	0	0	0
3/5/2013	0	0	0	0
3/6/2013	0.6	1.03	1.08	0.95
3/7/2013	0	0	0	0
3/8/2013	0	0	0	0
3/9/2013	0	0	0	0
3/10/2013	0	0	0	0
3/11/2013	0	0	0	0
3/12/2013	0.72	0.71	0.6	0.64
3/13/2013	0	0	0	0
3/14/2013	0	0	0	0
3/15/2013	0	0	0	0
3/16/2013	0	0	0	0
3/17/2013	0	0	0	0
3/18/2013	0.01	0.3	0.26	0.24
3/19/2013	0.01	0	0	0.01
3/20/2013	0	0	0	0
3/21/2013	0	0	0	0
3/22/2013	0	0	0	0
3/23/2013	0	0	0	0
3/24/2013	0	0.02	0.02	0.01
3/25/2013	0.44	0.53	0.46	0.49
3/26/2013	0	0.01	0	0
3/27/2013	0	0	0	0
3/28/2013	0	0	0	0
3/29/2013	0	0	0	0
3/30/2013	0	0	0	0
3/31/2013	0.01	0	0	0.01
TOTAL	1.79	2.6	2.42	2.35

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: January, February & March 2013

SCENARIO: Q1Y2013, April 9, 2013, REVISED APRIL 15, 2013

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
Anacostia CSOs							
005	Chicago St and Railroad Station SE	10	1.37	34.00	3.40	10.00	0.75
006	Good Hope Road, West of Nichols Ave., SE	separated					
007	13 th Street and Ridge Place, SE	2	0.31	1.50	0.75	0.75	0.75
009	2nd Street, 300 feet North of N Place, SE	3	0.44	5.50	1.83	2.75	1.25
010	O Street Sewage Pumping Station, SE (pumped Overflow)	6	14.58	3.50	0.58	1.75	0.25
011	South of Main Sewage Pumping Station, SE (pumped overflow)	0	0.00	0.00	0.00	0.00	0.00
011a	South of Main Sewage Pumping Station, SE (gravity overflow)	0	0.00	0.00	0.00	0.00	0.00
012	North of Main Sewage Pumping Station, SE (Tiber Creek)	0	0.00	0.00	0.00	0.00	0.00
013	4th and N Streets, SE	3	0.07	2.25	0.75	1.50	0.25
014	6th and M Streets, SE	4	0.61	7.00	1.75	4.00	0.50
015	9th and M Streets, SE	3	0.08	2.50	0.83	1.25	0.25
016	12th and M Streets, SE	1	0.26	1.25	1.25	1.25	1.25
017	14th and M Streets, SE	8	2.39	21.50	2.69	6.25	0.25
018	Barney Circle and Pennsylvania Ave, SE	3	0.74	4.50	1.50	2.25	0.50
019	Northeast Boundary - Swirl Effluent	6	50.55	42.00	7.00	14.75	1.50
019	Northeast Bound. - Swirl Bypass	1	0.37	0.25	0.25	0.25	0.25
	SUBTOTAL		71.77				
Potomac CSOs							
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
020	23rd Street, North of Constitution Ave, NW (Easby Point)	2	0.11	2.00	1.00	1.50	0.50
021	Northeast of Roosevelt Bridge, NW	4	15.84	7.00	1.75	4.00	0.75
022	27th and K Streets, NW	4	0.21	8.50	2.13	4.75	0.50
024	30th and K Streets, NW	3	0.60	5.25	1.75	2.50	0.50
025	31st & K St NW	2	0.02	0.75	0.38	0.50	0.25
026	Wisconsin Avenue and K St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West of Street, NW	10	3.67	41.75	4.18	12.50	0.75
028	36th and M Streets, NW	6	0.48	10.75	1.79	4.00	0.50
029	Canal Road 1000 feet east of Rock Creek, NW	2	0.14	0.75	0.38	0.50	0.25
	SUBTOTAL		21.06				
Rock Creek							
031	Pennsylvania Avenue, East Rock Creek, NW	separated					
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
033	N Street extended west of 25th Street, NW	0	0.00	0.00	0.00	0.00	0.00
034	23rd and O Streets, SW	0	0.00	0.00	0.00	0.00	0.00
035	22nd Street south of Q Street, NW	0	0.00	0.00	0.00	0.00	0.00
036	22nd Street South of Q Street, NW	3	0.019	2.25	0.75	1.25	0.25
037	Northwest of Belmont and Rock Creek and Potomac Parkway	separated					
038	North of Belmont Road, east of Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
040	Biltmore Street extended east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
041	Ontario extended and Rock Creek Parkway	0	0.00	0.00	0.00	0.00	0.00

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
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SCENARIO: Q1Y2013, April 9, 2013, REVISED APRIL 15, 2013

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
042	Harvard Street and RockCreek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
043	Adams Mill Road South of Irving Street, NW	0	0.00	0.00	0.00	0.00	0.00
044	Kenyon Street and Adams Mill Road, NW	0	0.00	0.00	0.00	0.00	0.00
045	Adams Mill Road and Lamont Street, NW	0	0.00	0.00	0.00	0.00	0.00
046	Park Road south of Piney Branch Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
047	Ingleside Terrace extended and Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
048	Mt. Pleasant Street extended and Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
049	Piney Branch and LamontStreet, NW	3	1.090	5.50	1.83	3.25	0.50
050	28th Street west of 16th Street, NW	0	0.00	0.00	0.00	0.00	0.00
051	Olive Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
052	O Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
053	O Street west of Rock Creek Parkway, NW	separated					
054	West Side of Rock Creek300 ft. south of Mass. Ave, NW	0	0.00	0.00	0.00	0.00	0.00
056	Normanstone Drive extended west of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
057	28th Street extended west of Rock Creek, NW	2	0.06	1.25	0.63	1.00	0.25
058	Connecticut Avenue and Rock Creek Parkway, NW	separated					
060	P St and 26 th St, NW	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		1.17				
	TOTAL		94.00				

[https://pco.dccrp.com/sites/10/Docs/05/0501 - Consent Decrees/130 DSS/Quarterly Reports/2013/Q1/\[Q1Y2013_Report_revised15April2013.xls](https://pco.dccrp.com/sites/10/Docs/05/0501 - Consent Decrees/130 DSS/Quarterly Reports/2013/Q1/[Q1Y2013_Report_revised15April2013.xls)

Corrected CSO data for Rock Creek and Potomac from last 5 quarters due to an error in the CSO predictions model.

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