

QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

SECOND QUARTER 2007

Prepared By:

D.C. Water and Sewer Authority
Department of Sewer Services
Sewer Pumping Division
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Washington, D.C. 20003



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

**Monthly Operations Report
For
Combined Sewer System
Month: April 2007**

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DISTRICT OF COLUMBIA
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*Monthly Operations Report for Combined Sewer System
Month: April 2007*

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1. INTRODUCTION

The District of Columbia Water and Sewer Authority (WASA or Authority) 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 Authority'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**

<i>Struct No.</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				<i>Good</i>	<i>Needs Work</i>		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/20/07	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/20/07	*			
5	Poplar Point Pumping Station	004	04/02/07	*			
6	Chicago Street and Railroad Ave, SE	005	04/09/07	*			
7	W Street and Railroad Ave, SE	005	04/09/07	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	04/09/07	*			
9	13 th Street and Ridge Place, SE	007	04/09/07	*			
11	"O" Street Pumping Station	011(a)	04/19/07	*			
12	Storm Pump Discharge at Main Pumping Station	011	04/19/07	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	04/02/07	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	04/19/07	*			
15	South Capitol and E Streets	010	04/19/07	*			
15a	Half and L Streets, SE	010	04/19/07	*			
15b	South Capitol and I Streets	010	04/23/07	*			
15c	South Capitol and I Streets	010	04/23/07	*			
16	North of Main Sewage Pumping Station	012	04/19/07	*			
17	4 th and N Streets, SE, Both Extended	013	04/10/07	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	04/24/07	*			
18	6 th and M Streets, SE	014	04/02/07	*			
19	9 th and M Streets, SE	015	04/02/07	*			
19a	9 th and M Streets, SE	015	04/02/07	*			
20	12 th and M Streets, SE	016	04/02/07	*			
20a	12 th and M Streets, SE	016	04/02/07	*			
21	14 th and M Streets, SE	017	04/10/07	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	04/10/07	*			

Struct No.	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	04/10/07	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	04/10/07	*			
22d	Kentucky Ave and Potomac Street, SE	018	04/02/07	*			
22e	14 th Street and Kentucky Ave, SE	018	04/02/07	*			
23	Independence Ave, 21 st Street, SE, Extended	019	04/09/07	*			
24a	East Capitol St, west of RFK stadium	019	04/09/07	*			
28	21 st and Constitution Ave, NW	020	04/23/07	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	04/23/07	*			
30	17 th and D Streets, NW	020	04/10/07	*			
31	15 th Street and Pennsylvania Ave, NW	020	04/10/07	*			
33	10 th and F Streets, NW	020	04/10/07	*			
34	23 rd Street, north of Constitution Ave, NW	020	04/19/07	*			
34a	23 rd Street near C Street, NW	020	04/23/07	*			
35	Northeast of Roosevelt Bridge, NW	021	04/19/07	*			
36	27 th and I Streets, NW	022	04/06/07	*			
36a	New Hampshire Ave and Eye Street, NW	022	04/06/07	*			
36b	19 th and L Streets, NW	022, 034	04/06/07	*			
36d	17 th and L Streets, NW	022, 034	04/06/07	*			
36g	18 th and M Streets, NW	022, 034	04/06/07	*			
36h	18 th and M Streets, NW	022, 034	04/06/07	*			
37	27 th and Eye Streets, NW	022	04/06/07	*			
38	29 th and K Streets, NW	024	04/04/07	*			
38a	30 th Street, south of K Street, NW	024	04/04/07	*			
39a	30 th and K Streets, NW	024	04/04/07	*			
39b	30 th and K Streets, NW	024	04/04/07	*			
41b	31 st and K Streets, NW	025	04/06/07	*			
41c	31 st and K Streets, NW	025	04/06/07	*			
42	Wisconsin Ave and K Street, NW	026	04/06/07	*			

Struct No.	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
43	Potomac and Water Streets, NW	027	04/06/07	*			
43a	Potomac and Water Streets, NW	027	04/06/07	*			
44	Water Street, west of Potomac St, NW	027	04/06/07	*			
45	36 th and M Streets, NW	028	04/06/07	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	04/02/07	*			
47	38 th Street and Reservoir Road, NW	029	04/02/07	*			
47a	37 th and T Streets, NW	029	04/02/07	*			
47b	37 th and T Streets, NW	029	04/02/07	*			
47c	38 th and W Streets, NW	029	04/02/07	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	04/03/07	*			
50	26 and M Streets, NW	032	04/03/07	*			
51	N Street Extended, west of 25 th Street, NW	033	04/17/07	*			
52	22 nd Street between M and N Streets, NW	034	04/05/07	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	04/05/07	*			
53	22 nd and M Streets, NW	022, 034	04/17/07	*			
53a	22 nd and M Streets, NW	022, 034	04/17/07	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	04/12/07	*			
53c	L and 22 nd Streets, NW	022	04/12/07	*			
54	23 rd and O Streets, NW	034	04/12/07	*			
55	22 nd Street, south of Q Street, NW	035	04/12/07	*			
55a	22 nd Street, south of Q Street, NW	035	04/12/07	*			
56	23 rd and Massachusetts Ave, NW	036	04/12/07	*			
57	23 rd Street, south of Q Street, NW	036	04/12/07	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	04/17/07	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	04/17/07	*			
60	Connecticut Ave, east of Rock Creek, NW	039	04/04/07	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	04/04/07	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	04/25/07	*			

Struct No.	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
63	Harvard Street and Rock Creek Parkway, NW	042	04/25/07	*			
64	Adams Mill Road, south of Irving Street, NW	043	04/25/07	*			
65	Kenyon Street and Adams Mill Road, NW	044	04/25/07	*			
65a	Kenyon Street and Adams Mill Road, NW	044	04/25/07	*			
66	Adams Mill Road and Lamont Street, NW	045	04/25/07	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	04/25/07	*			
68	Ingleside Terrace, Extended and Piney Branch Parkway, NW	047	04/25/07	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	04/25/07	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	04/25/07	*			
70i	5 th and Quackenbos Streets, NW	049	04/30/07	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	04/30/07	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	04/30/07	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	04/06/07	*			
73	O Street Extended and Rock Creek Parkway, NW	052	04/04/07	*			
74	Q Street, west of Rock Creek, NW	053	04/04/07	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	04/30/07	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	04/30/07	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	04/30/07	*			
78	28th Street Extended, west of Rock Creek, NW	057	04/30/07	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	04/17/07	*			
84	26 th and P Streets, NW	060	04/17/07	*			
84a	26 th and P Streets, NW	060	04/17/07	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
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	04/20/07	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	04/12/07	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	04/12/07	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	04/12/07	*		*		*		*		
009	O St. Sewage Pumping Station, SE/	04/02/07	*		*		*		*		
010	O St. Sewage Pumping Station, SE/	04/12/07	*			*			*		
011	Main Sewage Pumping Station, SE	04/12/07	*			*			*		
011(a)	Main Sewage Pumping Station, SE	04/12/07	*		*		*		*		
012	Main Sewage Pumping Station, SE	04/12/07	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	04/10/07	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	04/04/07	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	04/04/07	*			*			*		
016	12th and O Streets, SE	04/10/07	*		*		*		*		
017	M and Water Street, SE	04/10/07	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	04/10/07	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	04/09/07	*			*			*		
020	Rock Creek Parkway and Independence, NW	04/26/07	*		*		*		*		
021	Rock Creek Parkway and C St., NW	04/26/07	*			*			*		
022	Rock Creek Parkway and G St., NW	04/26/07	*		*		*		*		

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	
024	South of 30 th and K Streets, NW	04/26/07	*		*				*	*	WASA has developed a capitol project to design and construct a replacement gate for improved performance.
025	South of 31st and K Streets, NW	04/26/07	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	04/26/07	*		*		*		*		
027	33 rd and Water Sts., NW	04/26/07	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	04/26/07	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	04/26/07	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	04/03/07	*			*			*		
032	26th and M Street, NW.	04/03/07	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	04/17/07	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	04/03/07	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	04/03/07	*		*		*		*		
036	22nd Street, South of Q Street NW.	04/26/07	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	04/17/07	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	04/17/07	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	04/04/07	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	04/04/07	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	04/12/07	*		*		*		*		
042	Harvard St. and Beach Dr NW.	04/12/07	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	04/12/07	*		*		*		*		

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	
044	Kenyon Street and Beach Dr., NW.	04/12/07	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	04/12/07	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	04/25/07	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	04/25/07	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	04/25/07	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	04/25/07	*		*		*		*		
050	Rock Creek Parkway and L St., NW	04/04/07	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	04/03/07	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	04/03/07	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	04/26/07	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	04/26/07	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	04/30/07	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	04/30/07	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	04/17/07	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	04/26/07	*		*		*		*		

Notes:

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 Service</i>
Main	31	4	12	Screen #1 Screen #2 Pump #1	Aor 1-18 Apr 1-30 Apr 1-30	Reconstruction Reconstruction Reconstruction	April 19, 2007 Aug 2007 June 2007
Eastside	31	2	4	None			
Poplar Point	31	2 ¹	3	Screen #1 Pump #3	Apr 1-30 Apr 1-30	Reconstruction Replacement	Aug 2007 Aug 2007
Potomac	31	4	5	Screen #1 Pump #1	Apr 25-29 Apr 1-30	Reconstruction Replacement	April 30, 2007 Aug 2007

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	04/27/07	Group A	Add oil, grease bearings and replace packing if needed.
O St	04/27/07	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	04/27/07	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	04/27/07	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	04/27/07	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	04/27/07	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	04/27/07	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	04/27/07	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)</i>
Main	1,910	63.67	N/A	N/A	N/A
O St ¹	194.80	6.49	04/12/07	12.6	Normal
Eastside	262.10	8.74	N/A	N/A	N/A
Poplar Point	594	19.80	N/A	N/A	N/A
Potomac	4,259.90	142.00	N/A	N/A	N/A
Rock Creek	144.00	4.80	N/A	N/A	N/A
Upper Anacostia	62.64	2.09	N/A	N/A	N/A
Earle Place	0.24	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># Screens</i>	<i># Swirls</i>	<i>Screens or Swirls Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
04/26/07	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a

Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance

<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
04/26/07	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 Duration¹ (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume² (mg)</i>	<i>Approx. Screenings Volume³ # of bins (cu ft)</i>
04/04/07	1hr 15min	19.88	12.38	7.5	1.76(141)
04/12/07	6hrs	25.27	19.01	6.25	1.28(102)
04/15/07	6hrs	32.79	24.52	8.27	0.52(42)
04/15/07	9hrs	43.89	35.85	8.04	0.20(16)
04/15/07	1hr	3.26	3.26	0	0

Note

Foul Sewer meters counter malfunctioned; therefore Foul Sewer data was estimated.

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/Dechl or System Used?</i>	<i>Dosages</i>		<i>Residual Chlorine Test Results</i>		<i>Enterococcus Test Results</i>		<i>Fecal Coliform 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>	<i>Site</i>	<i>Count Per 100ml</i>
04/04/07	Yes	5	2	Mix Chamber	0.2	Mix Chamber	36,000	Mix Chamber	21,000
04/04/07	Yes	5	2	Anacostia River	0.0	Anacostia River	13,600	Anacostia River	14,500
04/12/07	Yes	5	2	Mix Chamber	0.2	Mix Chamber	29,000	Mix Chamber	51,000
04/12/07	Yes	5	2	Anacostia River	0.0	Anacostia River	35,000	Anacostia River	55,000
04/15/07	Yes	5	2	Mix Chamber	0.2	Mix Chamber	53,000	Mix Chamber	3,100
04/15/07	Yes	5	2	Anacostia River	0.2	Anacostia River	673	Anacostia River	2,800
04/15/07	Yes	5	2	Mix Chamber	0.1	Mix Chamber	3,300	Mix Chamber	250,000
04/15/07	Yes	5	2	Anacostia River	0.1	Anacostia River	4,800	Anacostia River	210

Notes:

1. Mix Chr.: Mixing Chamber
2. 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>
4/04/07	151	0.00	0.05	2.31	2.36	0.93	55.9
4/12/07	114	0.00	0.41	7.12	7.53	0.94	38.6
4/15/07	67.0	0.03	0.55	2.49	3.07	0.42	10.8

2.5 Inflatable Dams

WASA 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	04/27/07	No	N/A	N/A	N/A
14 - West	04/27/07	No	N/A	N/A	N/A
15	04/27/07	No	N/A	N/A	N/A
15A	04/27/07	No	N/A	N/A	N/A
16 - East	04/26/07	No	N/A	N/A	N/A
16 - West	04/26/07	No	N/A	N/A	N/A
24 - North	04/26/07	No	N/A	N/A	N/A
24 - Middle	04/26/07	No	N/A	N/A	N/A
24 - South	04/26/07	No	N/A	N/A	N/A
34	04/27/07	No	N/A	N/A	N/A
35	04/27/07	No	N/A	N/A	N/A
52	04/27/07	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 (hrs)</i>
14 (E & W)	None	N/A
15	04/15/07	1hr 09mins
15A	04/04/07 04/12/07 04/15/07 04/27/07	2hrs 2hrs 9mins 6hrs 22mins 59mins
16 (E & W)	04/12/07 04/15/07	4mins 6hrs 31mins
24	None	N/A
34	04/04/07	13 mins
35	None	N/A
52	None	N/A
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</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(E & W)	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

Dry weather overflows (DWOs), are summarized below:

**Table 3-1
DRY WEATHER DISCHARGES**

Location	CSO #034, north of N Street and 23 rd St., NW
Cause	2" x 4" lumber approximately 2.5 feet in length plus other construction debris partially clogged the 24 inch pipe at Structure 52a (N Street between 22 nd and 23 rd Streets., NW)
Date/Time Discovered	4/5/07 @ 2:45 p.m.
Action Taken	Removed 2" x 4" lumber and other construction debris
Date/Time Discharged Ceased	4/5/07 @ 7:30 p.m.
Estimated Volume (mg)	60,000 gallons
Did Overflow Reach Receiving water?	Yes, Rock Creek River
Action taken to prevent reoccurrence	<ol style="list-style-type: none"> 1) We notified contractors working near the area to take affirmative action to prevent debris from entering the public sewer. 2) We requested Greeley and Hansen, WASA's engineering consultant, to evaluate Structure 52a to determine if additional modifications can be made to the structure to improve its operations. 3) We re-inspected CSO 52a - 72 hours after the discharge stoppage and monitor weekly.

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	734	67	205	118	16	16	221	134
2	4,714	4,112	2,316	408	162	987	724	199	133	1186	857
3	3,555	461	-	0	0	274	32	133	33	407	65
4	2,782	1,985	159	65	0	325	182	1087	565	1412	747
5	2,167	1,035	1,035	455	75	620	405	19	50	639	455
6	1,783	1,594	1,594	885	0	1528	885	407	248	1935	1133
7	2,313	-	-	0	0	1716	0	321	0	2037	0
8	1,278	116	116	116	116	855	483	182	46	1037	529
WASA Subtotal	20,183	10,871	5,954	2,663	420	6,510	2,829	2,364	1,091	8,874	3,920
DDOT (via VMS) Subtotal				0	0			0	0	0	0
Grand Total	20,183	10,871	5,954	2,663	420			2,364	1,091	8,874	3,920
% Cleaned/Inspected to Date				45%	7%					44%	36%

4.2 BMP Demonstration Projects

WASA 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	4/3/07 and 4/26/07.	Good	Minor Maintenance	Nets emptied.	450 lbs.
Bar Rack CSO 040	4/4/07	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	4/12/07	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 September 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 WASA, 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>	20
<i>Days not Operating</i>	3
<i>Reason not Operating</i>	Strong winds and low tide.
<i># Skimmer in Fleet</i>	2 skimmers
<i># Skimmers Out of Service</i>	One
<i>Dates</i>	4/27/07 to present
<i>Reason</i>	Skimmer B-28 - replace hydraulic pump.
<i>Plan to Restore to Service</i>	As soon as possible
<i>Volume Material Collected</i>	60 ton.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

4.4 CSS Litter Control

This section describes WASA'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 Visual Wet Weather Surveys at Main & O

WASA performs visual surveys of the CSO overflows at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharged. Results are as follows:

**Table 5-1
CSO 010, 011, 011, 012 Visual Wet Weather Survey Summaries
SOLIDS AND FLOATABLES VISUAL SURVEY FORM**

CSO	Time of Observation	Date:		Observed			Quantity of			Quantity of			REMARKS/OTHER
		Y	N	L	M	H	L	M	H	L	M	H	
009													
010				NONE									
011													
011a													
012													

Note: L= Low, M= Moderate, H= High

5.2 Rain Data

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

Table 5-2 Rainfall Data (inches)

Monthly Rain Totals Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
4/1/2007	0	0	0	0
4/2/2007	0.35	0	0	0
4/3/2007	0	0	0	0.04
4/4/2007	0	0.83	0	0
4/5/2007	0.09	0	0	0
4/6/2007	0	0	0	0.13
4/7/2007	0	0.07	0	0
4/8/2007	0	0	0	0
4/9/2007	0.11	0	0	0
4/10/2007	0.13	0	0	0.01
4/11/2007	0	0.59	0	0
4/12/2007	0	0.41	0	0
4/13/2007	0.35	0	0	0
4/14/2007	0	0.43	0	0.04
4/15/2007	0	1.73	0	0
4/16/2007	0.09	0.01	0	0
4/17/2007	0	0	0	0.13
4/18/2007	0	0	0	0
4/19/2007	0	0	0	0
4/20/2007	0.11	0	0	0
4/21/2007	0.13	0	0	0.01
4/22/2007	0.35	0	0	0
4/23/2007	0	0	0	0.04
4/24/2007	0	0	0	0
4/25/2007	0.09	0	0	0
4/26/2007	0	0.83	0	0.13
4/27/2007	0	0	0	0
4/28/2007	0	0	0	0
4/29/2007	0.11	0.07	0	0
4/30/2007	0.13	0	0	0.01
TOTALS	2.04	4.97	0	0.54



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

**Monthly Operations Report
For
Combined Sewer System
Month: May 2007**

Prepared By:
D.C. 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: May 2007*

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1. INTRODUCTION

The District of Columbia Water and Sewer Authority (WASA or Authority) 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 Authority'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**

<i>Struct No.</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				<i>Good</i>	<i>Needs Work</i>		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/17/07	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/17/07	*			
5	Poplar Point Pumping Station	004	05/10/07	*			
6	Chicago Street and Railroad Ave, SE	005	05/04/07	*			
7	W Street and Railroad Ave, SE	005	05/04/07	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	05/01/07	*			
9	13 th Street and Ridge Place, SE	007	05/01/07	*			
11	"O" Street Pumping Station	011(a)	05/10/07	*			
12	Storm Pump Discharge at Main Pumping Station	011	05/10/07	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	05/01/07	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	05/10/07	*			
15	South Capitol and E Streets	010	05/10/07	*			
15a	Half and L Streets, SE	010	05/10/07	*			
15b	South Capitol and I Streets	010	05/04/07	*			
15c	South Capitol and I Streets	010	05/04/07	*			
16	North of Main Sewage Pumping Station	012	05/10/07	*			
17	4 th and N Streets, SE, Both Extended	013	05/31/07	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	05/21/07	*			
18	6 th and M Streets, SE	014	05/01/07	*			
19	9 th and M Streets, SE	015	05/01/07	*			
19a	9 th and M Streets, SE	015	05/01/07	*			
20	12 th and M Streets, SE	016	05/01/07	*			
20a	12 th and M Streets, SE	016	05/01/07	*			
21	14 th and M Streets, SE	017	05/17/07	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	05/11/07	*			

Struct No.	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	05/11/07	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	05/11/07	*			
22d	Kentucky Ave and Potomac Street, SE	018	05/08/07	*			
22e	14 th Street and Kentucky Ave, SE	018	05/08/07	*			
23	Independence Ave, 21 st Street, SE, Extended	019	05/04/07	*			
24a	East Capitol St, west of RFK stadium	019	05/21/07	*			
28	21 st and Constitution Ave, NW	020	05/15/07	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	05/15/07	*			
30	17 th and D Streets, NW	020	05/21/07	*			
31	15 th Street and Pennsylvania Ave, NW	020	05/21/07	*			
33	10 th and F Streets, NW	020	05/04/07	*			
34	23 rd Street, north of Constitution Ave, NW	020	05/10/07	*			
34a	23 rd Street near C Street, NW	020	05/15/07	*			
35	Northeast of Roosevelt Bridge, NW	021	05/15/07	*			
36	27 th and I Streets, NW	022	05/08/07	*			
36a	New Hampshire Ave and Eye Street, NW	022	05/08/07	*			
36b	19 th and L Streets, NW	022, 034	05/07/07	*			
36d	17 th and L Streets, NW	022, 034	05/07/07	*			
36g	18 th and M Streets, NW	022, 034	05/07/07	*			
36h	18 th and M Streets, NW	022, 034	05/07/07	*			
37	27 th and Eye Streets, NW	022	05/08/07	*			
38	29 th and K Streets, NW	024	05/07/07	*			
38a	30 th Street, south of K Street, NW	024	05/07/07	*			
39a	30 th and K Streets, NW	024	05/07/07	*			
39b	30 th and K Streets, NW	024	05/07/07	*			
41b	31 st and K Streets, NW	025	05/07/07	*			
41c	31 st and K Streets, NW	025	05/07/07	*			
42	Wisconsin Ave and K Street, NW	026	05/07/07	*			

Struct No.	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
43	Potomac and Water Streets, NW	027	05/07/07	*			
43a	Potomac and Water Streets, NW	027	05/07/07	*			
44	Water Street, west of Potomac St, NW	027	05/07/07	*			
45	36 th and M Streets, NW	028	05/21/07	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	05/18/07	*			
47	38 th Street and Reservoir Road, NW	029	05/18/07	*			
47a	37 th and T Streets, NW	029	05/18/07	*			
47b	37 th and T Streets, NW	029	05/18/07	*			
47c	38 th and W Streets, NW	029	05/18/07	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	05/18/07	*			
50	26 and M Streets, NW	032	05/18/07	*			
51	N Street Extended, west of 25 th Street, NW	033	05/18/07	*			
52	22 nd Street between M and N Streets, NW	034	05/15/07	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	05/15/07	*			
53	22 nd and M Streets, NW	022, 034	05/31/07	*			
53a	22 nd and M Streets, NW	022, 034	05/31/07	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	05/31/07	*			
53c	L and 22 nd Streets, NW	022	05/31/07	*			
54	23 rd and O Streets, NW	034	05/18/07	*			
55	22 nd Street, south of Q Street, NW	035	05/18/07	*			
55a	22 nd Street, south of Q Street, NW	035	05/18/07	*			
56	23 rd and Massachusetts Ave, NW	036	05/18/07	*			
57	23 rd Street, south of Q Street, NW	036	05/18/07	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	05/08/07	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	05/08/07	*			
60	Connecticut Ave, east of Rock Creek, NW	039	05/04/07	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	05/04/07	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	05/16/07	*			

Struct No.	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
63	Harvard Street and Rock Creek Parkway, NW	042	05/16/07	*			
64	Adams Mill Road, south of Irving Street, NW	043	05/16/07	*			
65	Kenyon Street and Adams Mill Road, NW	044	05/16/07	*			
65a	Kenyon Street and Adams Mill Road, NW	044	05/16/07	*			
66	Adams Mill Road and Lamont Street, NW	045	05/16/07	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	05/16/07	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	05/16/07	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	05/16/07	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	05/16/07	*			
70i	5 th and Quackenbos Streets, NW	049	05/04/07	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	05/08/07	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	05/16/07	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	05/16/07	*			
73	O Street Extended and Rock Creek Parkway, NW	052	05/16/07	*			
74	Q Street, west of Rock Creek, NW	053	05/18/07	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	05/29/07	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	05/29/07	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	05/04/07	*			
78	28th Street Extended, west of Rock Creek, NW	057	05/29/07	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	05/01/07	*			
84	26 th and P Streets, NW	060	05/16/07	*			
84a	26 th and P Streets, NW	060	05/16/07	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
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	05/17/07	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	05/03/07	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	05/03/07	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	05/03/07	*		*		*		*		
009	O St. Sewage Pumping Station, SE	05/24/07	*		*		*		*		
010	O St. Sewage Pumping Station, SE	05/24/07	*			*			*		
011	Main Sewage Pumping Station, SE	05/24/07	*			*			*		
011(a)	Main Sewage Pumping Station, SE	05/24/07	*		*		*		*		
012	Main Sewage Pumping Station, SE	05/24/07	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	05/31/07	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	05/17/07	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	05/18/07	*			*			*		
016	12th and O Streets, SE	05/18/07	*		*		*		*		
017	M and Water Street, SE	05/18/07	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	05/18/07	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	05/21/07	*			*			*		
020	Rock Creek Parkway and Independence, NW	05/24/07	*		*		*		*		
021	Rock Creek Parkway and C St., NW	05/24/07	*			*			*		
022	Rock Creek Parkway and G St., NW	05/24/07	*		*		*		*		

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	
024	South of 30 th and K Streets, NW	05/24/07	*		*				*	*	WASA has developed a capitol project to design and construct a replacement gate for improved performance.
025	South of 31st and K Streets, NW	05/24/07	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	05/24/07	*		*		*		*		
027	33 rd and Water Sts., NW	05/24/07	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	05/24/07	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	05/24/07	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	05/18/07	*			*			*		
032	26th and M Street, NW.	05/18/07	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	05/18/07	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	05/18/07	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	05/18/07	*		*		*		*		
036	22nd Street, South of Q Street NW.	05/29/07	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	05/08/07	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	05/08/07	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	05/04/07	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	05/04/07	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	05/03/07	*		*		*		*		
042	Harvard St. and Beach Dr NW.	05/03/07	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	05/03/07	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	05/03/07	*		*		*		*		

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	
045	North of Beach Dr. and Walbridge Pl, NW.	05/03/07	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	05/06/07	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	05/16/07	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	05/16/07	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	05/16/07	*		*		*		*		
050	Rock Creek Parkway and L St., NW	05/08/07	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	05/22/07	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	05/22/07	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	05/29/07	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	05/29/07	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	05/29/07	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	05/29/07	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	05/01/07	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	05/29/07	*		*		*		*		

Notes:

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 Service</i>
Main	31	4	12	Screen #2 Pump #1	May 1-31 May 1-31	Reconstruction Reconstruction	Aug 2007 June 2007
Eastside	31	2	4	None			
Poplar Point	31	2 ¹	3	Screen #1 Pump #3	May 1-31 May 1-31	Reconstruction Replacement	Aug 2007 Aug 2007
Potomac	31	4	5	Pump #1 Pump #5	May 1-31 May 1-31	Replacement Contractor is bad	Aug 2007 June 2007

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	05/30/07	Group A	Add oil, grease bearings and replace packing if needed.
O St	05/30/07	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	05/30/07	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	05/30/07	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	05/30/07	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	05/30/07	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	05/30/07	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	05/30/07	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)</i>
Main	1,575.70	50.83	N/A	N/A	N/A
O St ¹	164.90	5.32	05/12/07	12.60	Normal
Eastside	320.10	10.33	N/A	N/A	N/A
Poplar Point	579.60	18.70	N/A	N/A	N/A
Potomac	3,826.90	123.45	N/A	N/A	N/A
Rock Creek	113.20	3.65	N/A	N/A	N/A
Upper Anacostia	55.60	1.79	N/A	N/A	N/A
Earle Place	0.169	0.005	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># Screens</i>	<i># Swirls</i>	<i>Screens or Swirls Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
05/28/07	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a

Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance

<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
05/28/07	Group A	

Notes:

- 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 Duration¹ (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume² (mg)</i>	<i>Approx. Screenings Volume³ # of bins (cu ft)</i>
05/16/07	5	8.33	8.33	0	0.20(16)
05/27/07	5	5.7	3.69	2.01	0.80(64)

Note

Foul Sewer meters counter malfunctioned; therefore Foul Sewer data was estimated.

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>Enterococcus Test Results</i>		<i>Fecal Coliform 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>	<i>Site</i>	<i>Count Per 100ml</i>
05/27/07	Yes	5	2	Mix Chamber	1.0	Mix Chamber	<10	Mix Chamber	18
07/27/07	Yes	5	2	Anacostia River	0.2	Anacostia River	117	Anacostia River	<10

Notes:

1. Mix Chr.: Mixing Chamber
2. 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>
5/27/07	44.0	0.0	0.87	1.61	2.48	0.28	30.1

2.5 Inflatable Dams

WASA 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	05/29/07	No	N/A	N/A	N/A
14 - West	05/29/07	No	N/A	N/A	N/A
15	05/29/07	No	N/A	N/A	N/A
15A	05/29/07	No	N/A	N/A	N/A
16 - East	05/29/07	No	N/A	N/A	N/A
16 - West	05/29/07	No	N/A	N/A	N/A
24 - North	05/29/07	No	N/A	N/A	N/A
24 - Middle	05/29/07	No	N/A	N/A	N/A
24 - South	05/29/07	No	N/A	N/A	N/A
34	05/29/07	No	N/A	N/A	N/A
35	05/29/07	No	N/A	N/A	N/A
52	05/29/07	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 (hrs)</i>
14 (E & W)	<i>None</i>	<i>N/A</i>
15	<i>05/16/07</i>	<i>3hrs 56min</i>
15A	<i>None</i>	<i>N/A</i>
16 (E & W)	<i>None</i>	<i>N/A</i>
24	<i>None</i>	<i>N/A</i>
34	<i>None</i>	<i>N/A</i>
35	<i>None</i>	<i>N/A</i>
52	<i>None</i>	<i>N/A</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</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(E & W)	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

Dry weather overflows (DWOs), are summarized below:

**Table 3-1
DRY WEATHER DISCHARGES**

There was no record or knowledge of dry weather discharges.

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	734	113	221	134	20	20	241	154
2	4,714	4,112	2,316	520	162	1186	857	112	81	1298	938
3	3,555	461	-	0	0	407	65	281	82	688	147
4	2,782	1,985	159	159	126	1412	747	1543	872	2955	1619
5	2,167	1,035	1,035	489	92	639	455	42	34	681	489
6	1,783	1,594	1,594	1282	12	1935	1133	196	149	2131	1282
7	2,313	-	-	0	0	2037	0	203	0	2240	0
8	1,278	116	116	116	116	1037	529	240	83	1277	612
WASA Subtotal	20,183	10,871	5,954	3300	621	8,874	3,920	2,637	1,321	11,511	5,241
DDOT (via VMS) Subtotal				0	0			0	0	0	0
Grand Total	20,183	10,871	5,954	3300	621			2,637	1,321	11,511	5,241
% Cleaned/Inspected to Date				55%	10%					57%	48%

4.2 BMP Demonstration Projects

WASA 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	5/1/07 and 5/23/07.	Good	Minor Maintenance	Nets emptied.	460 lbs.
Bar Rack CSO 040	5/04/07	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	5/03/07	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 September 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 WASA, 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>	22
<i>Days not Operating</i>	2
<i>Reason not Operating</i>	Strong winds.
<i># Skimmer in Fleet</i>	2 skimmers
<i># Skimmers Out of Service</i>	One
<i>Dates</i>	4/27/07 to present.
<i>Reason</i>	Skimmer B-28 – replace/rebuild hydraulic pump.
<i>Plan to Restore to Service</i>	As soon as possible.
<i>Volume Material Collected</i>	40 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

4.4 CSS Litter Control

This section describes WASA'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 Visual Wet Weather Surveys at Main & O

WASA performs visual surveys of the CSO overflows at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharged. Results are as follows:

**Table 5-1
CSO 010, 011, 011, 012 Visual Wet Weather Survey Summaries
SOLIDS AND FLOATABLES VISUAL SURVEY FORM**

CSO	Time of Observation	Date:		Observed			Quantity of			Quantity of			REMARKS/OTHER
		Y	N	L	M	H	L	M	H	L	M	H	
009													
010				NONE									
011													
011a													
012													

Note: L= Low, M= Moderate, H= High

5.2 Rain Data

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

Table 5-2 Rainfall Data (inches)

Monthly Rain Totals					
Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS	
5/1/2007	0	0.12	0	0	0
5/2/2007	0	0.32	0	0	0
5/3/2007	0.03	0	0	0	0
5/4/2007	0.01	0	0	0	0
5/5/2007	0	0	0.01	0.01	0
5/6/2007	0	0	0	0	0
5/7/2007	0	0	0	0	0
5/8/2007	0	0	0	0	0
5/9/2007	0	0	0	0	0
5/10/2007	0.01	0	0	0	0
5/11/2007	0.01	0	0	0	0
5/12/2007	0	0.12	0	0	0
5/13/2007	0	0.32	0	0	0
5/14/2007	0.03	0	0	0	0
5/15/2007	0.01	0	0	0	0
5/16/2007	0	0	0.01	0.01	0
5/17/2007	0	0	0	0	0
5/18/2007	0	0	0	0	0
5/19/2007	0	0	0	0	0
5/20/2007	0	0	0	0	0
5/21/2007	0.01	0	0	0	0
5/22/2007	0.01	0	0	0	0
5/23/2007	0.03	0	0	0	0
5/24/2007	0.01	0	0	0	0
5/25/2007	0	0	0	0	0
5/26/2007	0	0	0	0	0
5/27/2007	0	0	0.27	0.47	0
5/28/2007	0	0	0	0	0
5/29/2007	0	0	0	0	0
5/30/2007	0.01	0	0	0	0
5/31/2007	0.01	0	0.04	0	0
TOTALS	0.18	0.88	0.33	0.49	



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

**Monthly Operations Report
For
Combined Sewer System
Month: June, 2007**

Prepared By:
D.C. 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: April 2007*

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1. INTRODUCTION

The District of Columbia Water and Sewer Authority (WASA or Authority) 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 Authority'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**

<i>Struct No.</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		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	06/06/07	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	06/06/07	*			
5	Poplar Point Pumping Station	004	06/12/07	*			
6	Chicago Street and Railroad Ave, SE	005	06/06/07	*			
7	W Street and Railroad Ave, SE	005	06/06/07	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	06/06/07	*			
9	13 th Street and Ridge Place, SE	007	06/04/07	*			
11	"O" Street Pumping Station	011(a)	06/12/07	*			
12	Storm Pump Discharge at Main Pumping Station	011	06/12/07	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	06/06/07	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	06/12/07	*			
15	South Capitol and E Streets	010	06/12/07	*			
15a	Half and L Streets, SE	010	06/12/07	*			
15b	South Capitol and I Streets	010	06/19/07	*			
15c	South Capitol and I Streets	010	06/19/07	*			
16	North of Main Sewage Pumping Station	012	06/12/07	*			
17	4 th and N Streets, SE, Both Extended	013	06/04/07	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	06/19/07	*			
18	6 th and M Streets, SE	014	06/07/07	*			
19	9 th and M Streets, SE	015	06/04/07	*			
19a	9 th and M Streets, SE	015	06/04/07	*			
20	12 th and M Streets, SE	016	06/04/07	*			
20a	12 th and M Streets, SE	016	06/04/07	*			
21	14 th and M Streets, SE	017	06/07/07	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	06/11/07	*			

Struct No.	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	06/11/07	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	06/11/07	*			
22d	Kentucky Ave and Potomac Street, SE	018	06/11/07	*			
22e	14 th Street and Kentucky Ave, SE	018	06/11/07	*			
23	Independence Ave, 21 st Street, SE, Extended	019	06/08/07	*			
24a	East Capitol St, west of RFK stadium	019	06/08/07	*			
28	21 st and Constitution Ave, NW	020	06/20/07	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	06/21/07	*			
30	17 th and D Streets, NW	020	06/08/07	*			
31	15 th Street and Pennsylvania Ave, NW	020	06/08/07	*			
33	10 th and F Streets, NW	020	06/08/07	*			
34	23 rd Street, north of Constitution Ave, NW	020	06/26/07	*			
34a	23 rd Street near C Street, NW	020	06/20/07	*			
35	Northeast of Roosevelt Bridge, NW	021	06/26/07	*			
36	27 th and I Streets, NW	022	06/06/07	*			
36a	New Hampshire Ave and Eye Street, NW	022	06/06/07	*			
36b	19 th and L Streets, NW	022, 034	06/04/07	*			
36d	17 th and L Streets, NW	022, 034	06/04/07	*			
36g	18 th and M Streets, NW	022, 034	06/04/07	*			
36h	18 th and M Streets, NW	022, 034	06/04/07	*			
37	27 th and Eye Streets, NW	022	06/06/07	*			
38	29 th and K Streets, NW	024	06/01/07	*			
38a	30 th Street, south of K Street, NW	024	06/01/07	*			
39a	30 th and K Streets, NW	024	06/01/07	*			
39b	30 th and K Streets, NW	024	06/01/07	*			
41b	31 st and K Streets, NW	025	06/08/07	*			
41c	31 st and K Streets, NW	025	06/08/07	*			
42	Wisconsin Ave and K Street, NW	026	06/08/07	*			

Struct No.	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
43	Potomac and Water Streets, NW	027	06/11/07	*			
43a	Potomac and Water Streets, NW	027	06/11/07	*			
44	Water Street, west of Potomac St, NW	027	06/11/07	*			
45	36 th and M Streets, NW	028	06/11/07	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	06/01/07	*			
47	38 th Street and Reservoir Road, NW	029	06/01/07	*			
47a	37 th and T Streets, NW	029	06/01/07	*			
47b	37 th and T Streets, NW	029	06/01/07	*			
47c	38 th and W Streets, NW	029	06/01/07	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	06/11/07	*			
50	26 and M Streets, NW	032	06/11/07	*			
51	N Street Extended, west of 25 th Street, NW	033	06/11/07	*			
52	22 nd Street between M and N Streets, NW	034	06/26/07	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	06/26/07	*			
53	22 nd and M Streets, NW	022, 034	06/19/07	*			
53a	22 nd and M Streets, NW	022, 034	06/19/07	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	06/19/07	*			
53c	L and 22 nd Streets, NW	022	06/19/07	*			
54	23 rd and O Streets, NW	034	06/20/07	*			
55	22 nd Street, south of Q Street, NW	035	06/20/07	*			
55a	22 nd Street, south of Q Street, NW	035	06/20/07	*			
56	23 rd and Massachusetts Ave, NW	036	06/20/07	*			
57	23 rd Street, south of Q Street, NW	036	06/20/07	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	06/07/07	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	06/07/07	*			
60	Connecticut Ave, east of Rock Creek, NW	039	06/07/07	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	06/07/07	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	06/18/07	*			

Struct No.	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
63	Harvard Street and Rock Creek Parkway, NW	042	06/18/07	*			
64	Adams Mill Road, south of Irving Street, NW	043	06/18/07	*			
65	Kenyon Street and Adams Mill Road, NW	044	06/18/07	*			
65a	Kenyon Street and Adams Mill Road, NW	044	06/18/07	*			
66	Adams Mill Road and Lamont Street, NW	045	06/18/07	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	06/18/07	*			
68	Ingleside Terrace, Extended and Piney Branch Parkway, NW	047	06/18/07	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	06/18/07	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	06/18/07	*			
70i	5 th and Quackenbos Streets, NW	049	06/19/07	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	06/15/07	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	06/20/07	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	06/20/07	*			
73	O Street Extended and Rock Creek Parkway, NW	052	06/20/07	*			
74	Q Street, west of Rock Creek, NW	053	06/20/07	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	06/22/07	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	06/22/07	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	06/01/07	*			
78	28th Street Extended, west of Rock Creek, NW	057	06/22/07	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	06/14/07	*			
84	26 th and P Streets, NW	060	06/20/07	*			
84a	26 th and P Streets, NW	060	06/20/07	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
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	06/06/07	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	06/07/07	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	06/07/07	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	06/07/07	*		*		*		*		
009	O St. Sewage Pumping Station, SE	06/06/07	*		*		*		*		
010	O St. Sewage Pumping Station, SE	06/12/07	*			*			*		
011	Main Sewage Pumping Station, SE	06/12/07	*			*			*		
011(a)	Main Sewage Pumping Station, SE	06/12/07	*		*		*		*		
012	Main Sewage Pumping Station, SE	06/12/07	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	06/04/07	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	06/19/07	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	06/19/07	*			*			*		
016	12th and O Streets, SE	06/07/07	*		*		*		*		
017	M and Water Street, SE	06/07/07	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	06/07/07	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	06/12/07	*			*			*		
020	Rock Creek Parkway and Independence, NW	06/14/07	*		*		*		*		
021	Rock Creek Parkway and C St., NW	06/14/07	*			*			*		
022	Rock Creek Parkway and G St., NW	06/14/07	*		*		*		*		

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	
024	South of 30 th and K Streets, NW	06/14/07	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
025	South of 31st and K Streets, NW	06/14/07	*		*		*	*			
026	Wisconsin Avenue and Water Street, NW	06/14/07	*		*		*	*			
027	33 rd and Water Sts., NW	06/14/07	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	06/14/07	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	06/14/07	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	06/11/07	*			*			*		
032	26th and M Street, NW.	06/11/07	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	06/11/07	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	06/20/07	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	06/20/07	*		*		*		*		
036	22nd Street, South of Q Street NW.	06/21/07	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	06/07/07	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	06/07/07	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	06/07/07	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	06/07/07	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	06/14/07	*		*		*		*		
042	Harvard St. and Beach Dr NW.	06/14/07	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	06/14/07	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	06/14/07	*		*		*		*		

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	
045	North of Beach Dr. and Walbridge Pl, NW.	06/14/07	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	06/18/07	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	06/18/07	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	06/18/07	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	06/18/07	*		*		*		*		
050	Rock Creek Parkway and L St., NW	06/15/07	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	06/07/07	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	06/07/07	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	06/21/07	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	06/22/07	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	06/22/07	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	06/22/07	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	06/14/07	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	06/21/07	*		*		*		*		

Notes:

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 Service</i>
Main	31	4	12	Screen #2	June 1-30	Reconstruction	08/31
Eastside	31	2	4	None			
Poplar Point	31	2 ¹	3	Screen #1 Pump #3	June 1-30 June 1-30	Reconstruction Replacement	08/31 08/31
Potomac	31	4	5	Pump #1	June 1-30	Replacement	08/31

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	06/27/07	Group A	Add oil, grease bearings and replace packing if needed.
O St	06/27/07	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	06/27/07	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	06/27/07	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	06/27/07	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	06/27/07	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	06/27/07	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	06/27/07	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)</i>
Main	1,566.20	52.21	N/A	N/A	N/A
O St ¹	141.80	4.73	06/03 06/10	9.70 6.7	Normal Normal
Eastside	445.80	14.86	N/A	N/A	N/A
Poplar Point	521.10	17.37	N/A	N/A	N/A
Potomac	3,684.40	122.81	N/A	N/A	N/A
Rock Creek	140.80	4.69	N/A	N/A	N/A
Upper Anacostia	70.20	2.34	N/A	N/A	N/A
Earle Place	0.14	0.001	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># Screens</i>	<i># Swirls</i>	<i>Screens or Swirls Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
06/28/07	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a

Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance

<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
06/28/07	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 Duration¹ (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume² (mg)</i>	<i>Approx. Screenings Volume³ # of bins (cu ft)</i>
06/08/07	3	3.12	3.12	0	1.50(120)
06/09/07	3	0.91	0.91	0	0.20(16)
06/12/07	6	4.23	3.00	1.23	0.60(48)
06/28/07	2	1.00	1.00	0	0.60(48)

Note

Foul Sewer meters counter malfunctioned; therefore Foul Sewer data was estimated.

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>Enterococcus Test Results</i>		<i>Fecal Coliform 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>	<i>Site</i>	<i>Count Per 100ml</i>
06/12/07	Yes	5	2	Mix Chamber	0.2	Mix Chamber	50,000	Mix Chamber	120,000
06/12/07	Yes	5	2	Anacostia River	0.0	Anacostia River	26,000	Anacostia River	60,000

Notes:

1. Mix Chr.: Mixing Chamber
2. 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>
06/12/07	153	0.03	0.75	4.91	5.69	1.32	45.9

2.5 Inflatable Dams

WASA 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	06/28/07	No	N/A	N/A	N/A
14 - West	06/28/07	No	N/A	N/A	N/A
15	06/28/07	No	N/A	N/A	N/A
15A	06/28/07	No	N/A	N/A	N/A
16 - East	06/28/07	No	N/A	N/A	N/A
16 - West	06/28/07	No	N/A	N/A	N/A
24 - North	06/28/07	No	N/A	N/A	N/A
24 - Middle	06/28/07	No	N/A	N/A	N/A
24 - South	06/28/07	No	N/A	N/A	N/A
34	06/28/07	No	N/A	N/A	N/A
35	06/28/07	No	N/A	N/A	N/A
52	06/28/07	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 (hrs)</i>
14 (E & W)	None	N/A
15	None	N/A
15A	06/03 06/08 06/12 06/13 06/28	53mins 45mins 35mins 19mins 14mins
16 (E & W)	None	N/A
24	None	N/A
34	None	N/A
35	06/03 06/08 06/09 thru 06/10	21min 49min 7hrs 10min
52	None	N/A
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</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(E & W)	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

Dry weather overflows (DWOs), are summarized below:

**Table 3-1
DRY WEATHER DISCHARGES**

There was no record or knowledge of dry weather discharges.

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	734	149	241	154	77	72	318	226
2	4,714	4,112	2,316	1012	255	1298	938	254	186	1552	1124
3	3,555	461	-	0	0	688	147	1114	448	1802	595
4	2,782	1,985	159	159	159	2955	1619	605	371	3560	1990
5	2,167	1,035	1,035	782	75	681	489	50	24	731	513
6	1,783	1,594	1,594	1295	246	2131	1282	14	14	2145	1296
7	2,313	-	-	0	0	2240	0	21	0	2261	0
8	1,278	116	116	116	116	1277	612	87	87	1364	699
WASA Subtotal	20,183	10,871	5,954	4,098	1,000	11,511	5,241	2,222	1,202	13,733	6,443
DDOT (via VMS) Subtotal				0	0			0	0	0	0
Grand Total	20,183	10,871	5,954	4,098	1,000			2,222	1,202	13,733	6,443
% Cleaned/Inspected to Date				69%	17%					68%	59%

4.2 BMP Demonstration Projects

WASA 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	6/11/07 and 6/22/07.	Good	Minor Maintenance	Nets emptied.	310 lbs.
Bar Rack CSO 040	6/07/07	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	6/14/07	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 September 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 WASA, 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>	4
<i>Reason not Operating</i>	High winds and low tides.
<i># Skimmer in Fleet</i>	2 skimmers
<i># Skimmers Out of Service</i>	One, B-28.
<i>Dates</i>	6/01/07 thru 6/07/07.
<i>Reason</i>	Skimmer B-28 to install new screens and rollers.
<i>Plan to Restore to Service</i>	Returned to service 6/08/07.
<i>Volume Material Collected</i>	30 ton.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

4.4 CSS Litter Control

This section describes WASA’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 Visual Wet Weather Surveys at Main & O

WASA performs visual surveys of the CSO overflows at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharged. Results are as follows:

**Table 5-1
CSO 010, 011, 011, 012 Visual Wet Weather Survey Summaries
SOLIDS AND FLOATABLES VISUAL SURVEY FORM**

CSO	Time of Observation	Date:		Observed			Quantity of			Quantity of			REMARKS/OTHER
		Y	N	L	M	H	L	M	H	L	M	H	
009													
010				NONE									
011													
011a													
012													

Note: L= Low, M= Moderate, H= High

5.2 Rain Data

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

Table 5-2 Rainfall Data (inches)

Monthly Rain Totals Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
6/1/2007	0	0	0	0
6/2/2007	0	0	0	0
6/3/2007	0	0	0	0
6/4/2007	0	0	0	0
6/5/2007	0.02	0	0	0
6/6/2007	0	0	0	0
6/7/2007	0	0	0	0
6/8/2007	0.26	0.12	0.12	0.12
6/9/2007	0.01	0	0	0
6/10/2007	0.14	0	0	0
6/11/2007	0	0	0	0
6/12/2007	0.3	0.16	0.18	0.12
6/13/2007	0.75	0.25	0.66	0.72
6/14/2007	0.31	0.28	0.01	0.01
6/15/2007	0	0	0	0
6/16/2007	0	0	0	0.02
6/17/2007	0.51	0	0	0
6/18/2007	2.96	0	0	0
6/19/2007	0.3	0	0	0
6/20/2007	0.63	0	0	0.08
6/21/2007	0.98	1.01	0.2	0.08
6/22/2007	0	0	0	0
6/23/2007	0	0	0	0
6/24/2007	0	0	0	0
6/25/2007	0	0	0	0
6/26/2007	0	0	0	0
6/27/2007	0	0	0	0.01
6/28/2007	0.12	0	0.04	0.25
6/29/2007	0.01	0	0	0.01
6/30/2007	0.01	0	0	0
TOTALS	7.31	1.82	1.21	1.42

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results

Period: April, May, June 2007

SCENARIO: Q2Y2007, 7-18-07

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	15	2.2	94.0	6.3	34.8	0.8
006	Good Hope Road, West of Nichols Ave.,SE	1	0.0	0.5	0.5	0.5	0.5
007	13 th Street and Ridge Place,SE	5	1.0	9.8	2.0	5.0	1.0
009	2nd Street, 300 feet North of N Place, SE	10	1.3	39.0	3.9	14.3	0.3
010	O Street SewagePumping Station, SE (pumped Overflow)	5	35.2	9.0	1.8	7.0	0.3
011	South of Main Sewage Pumping Station, SE (pumped overflow)	2	1.1	0.5	0.3	0.3	0.3
011a	South of Main SewagePumping Station, SE (gravity overflow)	0	0.0	0.0	0.0	0.0	0.0
012	North of Main SewagePumping Station, SE (Tiber Creek)	0	0.0	0.0	0.0	0.0	0.0
013	4th and N Streets, SE	15	1.6	35.3	2.4	11.3	0.3
014	6th and M Streets, SE	13	8.1	51.0	3.9	15.5	0.5
015	9th and M Streets, SE	5	0.1	7.3	1.5	4.3	0.3
016	12th and M Streets, SE	3	0.9	9.0	3.0	6.5	1.0
017	14th and M Streets, SE	7	6.1	30.5	4.4	14.0	0.3
018	Barney Circle andPennsylvania Ave, SE	21	5.5	194.5	9.3	42.0	0.5
019	Northeast Boundary - Swirl Effluent	8	119.4	43.0	5.4	18.8	0.3
019	Northeast Bound. - Swirl Bypass	2	12.4	1.5	0.8	0.8	0.8
	SUBTOTAL		194.9				
Potomac CSOs							
003	Bolling AFB	0	0.0	0.0	0.0	0.0	0.0
020	23rd Street, North ofConstitution Ave, NW (Easby Point)	4	0.0	7.0	1.8	5.3	0.3
021	Northeast ofRoosevelt Bridge, NW	5	30.3	15.5	3.1	9.3	1.0
022	27th and K Streets, NW	16	0.3	86.5	5.4	32.8	1.0
024	30th and K Streets, NW	19	1.3	164.8	8.7	40.0	0.3
025	31st & K St NW	17	0.0	46.3	2.7	10.3	0.3
026	Wisconsin Avenue andK St., NW	0	0.0	0.0	0.0	0.0	0.0
027	Water Street West ofStreet, NW	16	8.7	117.3	7.3	39.0	0.8
028	36th and M Streets, NW	11	0.6	28.8	2.6	11.5	0.3
029	Canal Road 1000 feet east of Rock Creek,NW	1	0.0	0.5	0.5	0.5	0.5
	SUBTOTAL		41.3				
Rock Creek							
031	Pennsylvania Avenue, East Rock Creek, NW	0	0.0	0.0	0.0	0.0	0.0
032	26th and M Streets, NW	0	0.0	0.0	0.0	0.0	0.0
033	N Street extendedwest of 25th Street,NW	0	0.0	0.0	0.0	0.0	0.0
034	23rd and O Streets, SW	0	0.0	0.0	0.0	0.0	0.0
035	22nd Street south of Q Street, NW	0	0.0	0.0	0.0	0.0	0.0
036	22nd Street South of Q Street, NW	5	0.0	4.0	0.8	1.0	0.5
037	Northwest of Belmontand Rock Creek and Potomac Parkway	0	0.0	0.0	0.0	0.0	0.0
038	North of Belmont Road,east of Kalorama Circle, NW	0	0.0	0.0	0.0	0.0	0.0
039	Connecticut Avenue east of Rock Creek, NW	0	0.0	0.0	0.0	0.0	0.0
040	Biltmore Street extended east of RockCreek, NW	0	0.0	0.0	0.0	0.0	0.0
041	Ontario extended and Rock Creek Parkway	0	0.0	0.0	0.0	0.0	0.0

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results

Period: April, May, June 2007

SCENARIO: Q2Y2007, 7-18-07

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	0.0	0.0	0.0	0.0	0.0
043	Adams Mill Road South of Irving Street, NW	0	0.0	0.0	0.0	0.0	0.0
044	Kenyon Street and Adams Mill Road, NW	0	0.0	0.0	0.0	0.0	0.0
045	Adams Mill Road and Lamont Street, NW	0	0.0	0.0	0.0	0.0	0.0
046	Park Road south of Piney Branch Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
047	Ingleside Terrace extended and Piney Branch Parkway	0	0.0	0.0	0.0	0.0	0.0
048	Mt. Pleasant Street extended and Piney Branch Parkway	0	0.0	0.0	0.0	0.0	0.0
049	Piney Branch and LamontStreet, NW	5	2.2	9.3	1.9	2.8	0.5
050	28th Street west of 16th Street, NW	0	0.0	0.0	0.0	0.0	0.0
051	Olive Street extended and Rock Creek Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
052	O Street extended and Rock Creek Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
053	O Street west of Rock Creek Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
054	West Side of Rock Creek300 ft. south of Mass. Ave, NW	0	0.0	0.0	0.0	0.0	0.0
056	Normanstone Drive extended west of Rock Creek, NW	0	0.0	0.0	0.0	0.0	0.0
057	28th Street extended west of Rock Creek, NW	3	0.0	2.0	0.7	1.0	0.5
058	Connecticut Avenue and Rock Creek Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
060	P St and 26 th St, NW	0	0.0	0.0	0.0	0.0	0.0
	SUBTOTAL		2.3				
	TOTAL		239				

H:\1163\NPDES\Model Predictions\[Copy of 2007 Quarter 2 Model Results.xls]Q2Y2007

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