QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

FOURTH QUARTER 2007

Prepared By:

D.C. Water and Sewer Authority Department of Sewer Services Sewer Pumping Division 2nd & N Streets, SE Washington, D.C. 20003



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

Monthly Operations Report For Combined Sewer System Month: October 2007

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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: October 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 MAINTENACE

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.

Tab	le 2-1
Regulator	Structures

		Associated NPDES	Date	(Condition		
Struct No.	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/30/07	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/03/07	*			
5	Poplar Point Pumping Station	004	10/31/07	*			
6	Chicago Street and Railroad Ave, SE	005	10/02/07	*			
7	W Street and Railroad Ave, SE	005	10/02/07	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	10/02/07	*			
9	13 th Street and Ridge Place, SE	007	10/02/07	*			
11	"O" Street Pumping Station	011(a)	10/31/07	*			
12	Storm Pump Discharge at Main Pumping Station	011	10/31/07	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	10/01/07	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	10/18/07	*			
15	South Capitol and E Streets	010	10/18/07	*			
15a	Half and L Streets, SE	010	10/18/07	*			
15b	South Capitol and I Streets	010	10/01/07	*			
15c	South Capitol and I Streets	010	10/0/1/07	*			
16	North of Main Sewage Pumping Station	012	10/18/07	*			
17	4 th and N Streets, SE, Both Extended	013	10/04/07	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	10/19/07	*			
18	6 th and M Streets, SE	014	10/01/07	*			
19	9 th and M Streets, SE	015	10/01/07	*			
19a	9 th and M Streets, SE	015	10/01/07	*			
20	12 th and M Streets, SE	016	10/01/07	*			
20a	12 th and M Streets, SE	016	10/01/07	*			
21	14 th and M Streets, SE	017	10/04/07	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	10/17/07	*			

		Associated NPDES	Date	(Condition		
Struct No.	Location	Associated NPDES Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
22b	Barney Circle and Pennsylvania Ave, SE	018	10/17/07	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	10/17/07	*			
22d	Kentucky Ave and Potomac Street, SE	018	10/03/07	*			
22e	14 th Street and Kentucky Ave, SE	018	10/03/07	*			
23	Independence Ave, 21 st Street, SE, Extended	019	10/29/07	*			
24a	East Capitol St, west of RFK stadium	019	10/29/07	*			
28	21 st and Constitution Ave, NW	020	10/16/07	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	10/17/07	*			
30	17 th and D Streets, NW	020	10/0307	*			
31	15 th Street and Pennsylvania Ave, NW	020	10/03/07	*			
33	10 th and F Streets, NW	020	10/03/07	*			
34	23 rd Street, north of Constitution Ave, NW	020	10/23/07	*			
34a	23 rd Street near C Street, NW	020	10/17/07	*			
35	Northeast of Roosevelt Bridge, NW	021	10/23/07	*			
36	27 th and I Streets, NW	022	1022/07	*			
36a	New Hampshire Ave and Eye Street, NW	022	10/22/07	*			
36b	19 th and L Streets, NW	022, 034	10/03/07	*			
36d	17 th and L Streets, NW	022, 034	10/03/07	*			
36g	18 th and M Streets, NW	022, 034	10/03/07	*			
36h	18 th and M Streets, NW	022, 034	10/03/07	*			
37	27 th and Eye Streets, NW	022	10/22/07	*			
38	29 th and K Streets, NW	024	10/01/07	*			
38a	30 th Street, south of K Street, NW	024	10/01/07	*			
39a	30 th and K Streets, NW	024	10/01/07	*			
39b	30 th and K Streets, NW	024	10/01/07	*			
41b	31 st and K Streets, NW	025	10/01/07	*			
41c	31 st and K Streets, NW	025	10/01/07	*			
42	Wisconsin Ave and K Street, NW	026	10/05/07	*			

		Aggeoriges d NDDES	Data	(Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
43	Potomac and Water Streets, NW	027	10/05/07	*			
43a	Potomac and Water Streets, NW	027	10/05/07	*			
44	Water Street, west of Potomac St, NW	027	10/05/07	*			
45	36 th and M Streets, NW	028	10/29/07	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	10/02/07	*			
47	38 th Street and Reservoir Road, NW	029	10/02/07	*			
47a	37 th and T Streets, NW	029	10/02/07	*			
47b	37 th and T Streets, NW	029	10/02/07	*			
47c	38 th and W Streets, NW	029	10/02/07	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	10/17/07	*			
50	26 and M Streets, NW	032	10/17/07	*			
51	N Street Extended, west of 25 th Street, NW	033	10/17/07	*			
52	22 nd Street between M and N Streets, NW	034	10/23/07	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	10/23/07	*			
53	22 nd and M Streets, NW	022, 034	10/29/07	*			
53a	22 nd and M Streets, NW	022, 034	10/29/07	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	10/29/07	*			
53c	L and 22 nd Streets, NW	022	10/29/07	*			
54	23 rd and O Streets, NW	034	10/22/07	*			
55	22 nd Street, south of Q Street, NW	035	10/22/07	*			
55a	22 nd Street, south of Q Street, NW	035	10/22/07	*			
56	23 rd and Massachusetts Ave, NW	036	10/22/07	*			
57	23 rd Street, south of Q Street, NW	036	10/22/07	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	10/03/07	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	10/03/07	*			
60	Connecticut Ave, east of Rock Creek, NW	039	10/19/07	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	10/19/07	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	10/15/07	*			

		Associated NPDES	Data	(Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
63	Harvard Street and Rock Creek Parkway, NW	042	10/15/07	*			
64	Adams Mill Road, south of Irving Street, NW	043	10/15/07	*			
65	Kenyon Street and Adams Mill Road, NW	044	10/15/07	*			
65a	Kenyon Street and Adams Mill Road, NW	044	10/15/07	*			
66	Adams Mill Road and Lamont Street, NW	045	10/15/07	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	10/15/07	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	10/15/07	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	10/15/07	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	10/15/07	*			
70i	5 th and Quackenbos Streets, NW	049	10/02/07	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	10/01/07	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	10/22/07	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	10/22/07	*			
73	O Street Extended and Rock Creek Parkway, NW	052	10/22/07	*			
74	Q Street, west of Rock Creek, NW	053	10/22/07	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	10/31/07	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	10/31/07	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	10/02/07	*			
78	28th Street Extended, west of Rock Creek, NW	057	10/31/07	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	10/19/07	*			
84	26 th and P Streets, NW	060	10//22/07	*			
84a	26 th and P Streets, NW	060	10/22/07	*			

- 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.

						~		~			
				Dutfall		Gate		Tide Gate			
NDDEC		D	Ca	ondition	Pres	sent?	Condi	Condition		CSO Sign	
NPDES	x .	Date		Needs				Needs			
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Needs Work	Notes, Work Needed or Performed
	Bolling Air Force Base, at Giavanolli and										
003	Chanute, SW	10/30/07	*		*		*		*		
	Across from Navy Yard, aligned with Parsons										
005	Ave., SE	10/11/07	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	10/11/07	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	10/11/07	*		*		*		*		
009	O St. Sewage Pumping Station, SE	10/01/07	*		*		*		*		
010	O St. Sewage Pumping Station, SE	10/31/07	*			*			*		
011	Main Sewage Pumping Station, SE	10/31/07	*			*			*		
011(a)	Main Sewage Pumping Station, SE	10/31/07	*		*		*		*		
012	Main Sewage Pumping Station, SE	10/31/07	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	10/04/07	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	10/31/07	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	10/31/07	*			*			*		
016	12th and O Streets, SE	10/31/07	*		*		*		*		
017	M and Water Street, SE	10/31/07	*		*		*		*		
	East of Barney Circle and South of										
018	Pennsylvania Avenue Bridge, SE	10/31/07	*		*		*		*		
	Adjacent to Service Drive behind swirl facility										
019	and D.C. General Hospital	10/29/07	*			*			*		
020	Rock Creek Parkway and Independence, NW	10/30/07	*		*		*		*		
021	Rock Creek Parkway and C St., NW	10/30/07	*			*			*		
022	Rock Creek Parkway and G St., NW	10/30/07	*		*		*		*		

Table 2 - Outfalls and Tide Gates

NPDES		Date		Dutfall ondition		Gate sent?	Tide C Condi	tion		CSO Sign	
Outfall	Location	Inspected	OK	Needs Work	Yes	No	ОК	Needs Work		Needs Work	Notes, Work Needed or Performed
024	South of 30 th and K Streets, NW	10/30/07	*		*		-	*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
-	South of 31st and K Streets, NW	10/30/07	*		*		*		*		performance.
025	Wisconsin Avenue and Water Street, NW		*		*		*		*		
026 027	33 rd and Water Sts., NW	10/30/07	*		*	*	*		*		
	Key Bridge and Whitehurst Freeway, NW	10/30/07	*			*			*		
028	Adjacent to C&O Canal, aligned with 38 th St.	10/30/07	*			*			*		
029	NW	10/30/07	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	10/17/07	*			*			*		
032	26th and M Street, NW.	10/17/07	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	10/17/07	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	10/22/07	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	10/22/07	*		*		*		*		
036	22nd Street, South of Q Street NW.	10/17/07	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	10/03/07	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	10/03/07	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	10/19/07	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	10/19/07	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	10/11/07	*		*		*		*		
042	Harvard St. and Beach Dr NW.	10/11/07	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	10/17/07	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	10/17/07	*		*		*		*		

				Outfall ondition	Tide Pres	Gate sent?	Tide C Condi	tion		CSO Sign	
NPDES Outfall	Location	Date Inspected	ок	Needs Work	Yes	No	OK	Needs Work		Needs Work	Notes, Work Needed or Performed
045	North of Beach Dr. and Walbridge Pl, NW.	10/17/07	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	10/15/07	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	10/15/07	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	10/15/07	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	10/15/07	*		*		*		*		
050	Rock Creek Parkway and L St., NW	10/01/07	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	10/11/07	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	10/11/07	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	10/170/7	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	10/31/07	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	10/31/07	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	10/31/07	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	10/19/07	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	10/19/07	*		*		*		*		

2.3 **Pumping Stations**

Pumping station operations are summarized in the table below.

 Table 2-3

 Pumping Stations – Inspections and Equipment in Service

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service
Main	31	4	12	Pump #2	Oct 1-31	Reconstruction	February 2008
							-
Eastside	31	2	4	None			
Poplar Point	31	2 ¹	3	Screen #1	Oct 1-31	Motor not running	March 2008
Potomac	31	4	5	Pump #1	Oct 1-31	Reconstruction	November 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.

Pumping Stations – Preventive Maintenance									
		Type of Preventive Maintenance							
Pumping Station	Date Performed	$Performed^{I}$	Comments						
Main	10/25/07	Group A	Add oil, grease bearings and replace packing if needed.						
O St	10/25/07	Group A	Add oil, grease bearings and replace packing if needed.						
Eastside	10/25/07	Group A	Add oil, grease bearings and replace packing if needed.						
Poplar Point	10/25/07	Group A	Add oil, grease bearings and replace packing if needed.						
Potomac	10/25/07	Group A	Add oil, grease bearings and replace packing if needed.						
Rock Creek	10/25/07	Group A	Add oil, grease bearings and replace packing if needed.						
Upper Anacostia	10/25/07	Group A	Add oil, grease bearings and replace packing if needed.						
Earle Place	10/25/07	Group A	Add oil, grease bearings and replace packing if needed.						

 Table 2-4

 Pumping Stations – Preventive Maintenance

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Issue work order requests as required

	Sanitary P	umpage	Storm W	Vater/CSO Pumped To	Anacostia River
	Total Wastewater	Daily Average			Screenings Collected
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	(units)
Main	1,943.70	62.70	N/A	N/A	N/A
O St ¹	106.20	3.43			
			10/19/07	11.30	Normal
			10/20/07	12.60	Normal
			10/23/07	1.70	Normal
			10/24/07	5.90	Normal
			10/25/07	30.70	Normal
			10/26/07	34.00	Normal
			10/27/07	121.00	Normal
Eastside	479.50	15.47	N/A	N/A	N/A
Poplar Point	720.00	23.23	N/A	N/A	N/A
Potomac	3,702.70	119.44	N/A	N/A	N/A
Rock Creek	132.40	4.27	N/A	N/A	N/A
Upper Anacostia	30.90	1.00	N/A	N/A	N/A
Earle Place	0.16	0.01	N/A	N/A	N/A
Notes:	J	1 I		1	1

Table 2-5Pumping Stations – Pumpage

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:

		Northeast Doundary Swirt Facinity – inspections and Equipment in Service										
Date	#		Screens or Swirls									
Inspected	Screens	# Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service						
10/26/07	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a						

 Table 2-6

 Northeast Boundary Swirl Facility – Inspections and Equipment in Service

 Table 2-7

 Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	<i>Type of Preventive Maintenance Performed¹</i>	Comments
10/26/07	Group A	

 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

	Approx. Storm				Approx. Screenings
	Duration ¹	Total Influent	Total Foul Sewer	Total Effluent	<i>Volume³</i>
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)
10/09/07	5	25.62	25.62	0	2.40(192)
10/19/07	8	4.52	4.52	0	1.80(144)
10/24/07	3	8.56	1.98	6.58	0.60(48)
10/25/07	8	33.61	3.34	30.3	0.44(35.20)
10/25/07	4	1.82	1.82	0	0.24(19.20)
10/26/07	3	10.84	1.78	9.06	0.24(19.20)
10/26/07	8	39.03	3.33	35.7	0.96(76.8)
10/27/07	8	45.00	4.30	40.744	1.28(102.4)
10/27/07	8	6.38	2.79	3.59	0.40(32)

 Table 2-8

 Northeast Boundary Swirl Facility – Wet Weather Operations

Note

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.

				ast Doundary Swift	- Distinction 1 er for h				
	Chlor/			Residual Chlorin	ne Test				
	Dechl	Do	sages	Results		Enterococcus Tes	t Results	Fecal Coliform Test Results	
	or								
	Syste						Count		Count
	m	NaOCl	NaHSO3		Conc.		Per		Per
Date	Used?	(<i>mg/l</i>)	(mg/l)	Location	(<i>mg/l</i>)	Site	100ml	Site	100ml
10/24/07	Yes	5	2	Mix Chamber	1.1	Mix Chamber	<10	Mix Chamber	<10
10/24/07	Yes	5	2	Anacostia River	0.1	Anacostia River	2,800	Anacostia River	5,360
10/25/07	Yes	5	2	Mix Chamber	1.0	Mix Chamber	<10	Mix Chamber	290
10/25/07	Yes	5	2	Anacostia River	0.0	Anacostia River	240	Anacostia River	45
10/26/07	Yes	5	2	Mix Chamber	0.3	Mix Chamber	2,300	Mix Chamber	420
10/26/07	Yes	5	2	Anacostia River	0.0	Anacostia River	50,000	Anacostia River	34,00
10/26/07	Yes	5	2	Mix Chamber	0.1	Mix Chamber	45,000	Mix Chamber	260,000
10/26/07	Yes	5	2	Anacostia River	0.1	Anacostia River	55,000	Anacostia River	400,000
10/27/07	Yes	5	2	Mix Chamber	0.2	Mix Chamber	27	Mix Chamber	189
10/27/07	Yes	5	2	Anacostia River	0.0	Anacostia River	2,100	Anacostia River	3,300
10/27/07	Yes	5	2	Mix Chamber	0.1	Mix Chamber	480,000	Mix Chamber	430,000
10/27/07	Yes	5	2	Anacostia River	0.1	Anacostia River	310,000	Anacostia River	240,000

Table 2-9 Northeast Boundary Swirl Facility – Disinfection Performance

Mix Chr.: Mixing Chamber River: River Outfall 1.

2.

 Table 2-10

 Northeast Boundary Swirl Facility – Effluent Sampling Results

		Flow Composited Sample Results												
	Nitrite Nitrate Total Kjeldahl Total													
	Total suspended	(NO2-N)	(NO3-N))	Nitrogen	Total Nitrogen	Phosphorus	Biological Oxygen							
Date	solids (mg/L)	mg/L	mg/L	(mg/L as N)	(mg/L)	(mg/L)	Demand (mg/L)							
10/25/07	52.0	0.00	0.47	0.99	1.46	0.26	24.2							
10/26/07	39.0	0.03	0.44	2.12	2.59	0.38	36.3							
10/27/07	25.0	0.00	0.90	2.40	3.30	0.58	11.2							

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:

Inflatable Dam		Was Dam Out of Service During the			Schedule to Restore to
Structure No	Date Inspected	Month?	Dates out of Service	Reason	Service
14 - East	10/18/07	No	N/A	N/A	N/A
14 - West	10/18/07	No	N/A	N/A	N/A
15	10/18/07	No	N/A	N/A	N/A
15A	10/18/07	No	N/A	N/A	N/A
16 - East	10/18/07	No	N/A	N/A	N/A
16 - West	10/18/07	No	N/A	N/A	N/A
24 - North	10/18/07	Yes	10/30/07	Blower malfunctioned	11/30/07
24 - Middle	10/18/07	Yes	10/30/07	Blower malfunctioned	11/30/07
24 - South	10/18/07	Yes	10/30/07	Blower malfunctioned	11/30/07
34	10/23/07	Yes	10/30/07	Level transducer malfunctioned	11/7/07
35	10/23/07	No	N/A	N/A	N/A
52	10/23/07	No	N/A	N/A	N/A

 Table 2-11

 Inflatable Dams – Inspections and Equipment in Service

Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	10/25	2hrs 46min
-	10/26	3hrs 25min
	10/27	2hrs 30min
15A	10/19	5min
	10/25	5hrs 39min
	10/26	7hrs 32min
	10/27	7hrs 47min
16 (E & W)	10/19	46min
	10/25	2hrs 3min
	10/27	4hrs 48min
24	10/30/07	See table Table 2-11
34	10/30/07	See table Table 2-11
35	10/19	2hrs 12min
	10/25	5hrs 40min
	10/26	8hrs 15min
	10/27	7hrs 50min
52	None	N/A
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow (hrs)
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
Outfall Sewer Control Gates	Operational Status	Position
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

 Table 2-12

 Inflatable Dams & SCADA Sites - Wet Weather Operations

3. DRY WEATHER OVERFLOWS

Dry weather overflows (DWOs), are summarized below:

Table 3-1DRY WEATHER DISCHARGES

There was one dry weather discharge in the month of October 07.

Sanitary Sewer Overflow.

Ŭ.	
	"O" Street Pumping Station – 125 "O" Street, SE at the
Location	river wall.
	Contractor accidentally drilled two 8-inch holes in the
	crown and invert of a 60 inch siphon that carries sewage
Cause	across the Anacostia River.
Date/ Time Discovered	10/22/07 at approximately 1:00 p.m.
	The flow from Main Pumping Station was stopped
	within minutes after the leak was discovered.
	The flow from O Street was stored in the sewer
	beginning about 2:00 p.m. to midnight to allow divers to
	enter the siphon and determine a plan for repair.
	The O Street Station was put back in service from
	midnight to 9:00 a.m. with a small amount of flow
	through the ruptured siphon.
	In the interim, the contractor working at the station
	removed his equipment and material from the lower wet
	well to allow storage of flow.
	On 10/23/07 at approximately 9:00 a.m., flow from O
	Street was diverted to the sanitary and storm wet wells
	to allow the contractor to install temporary patches. The
	siphon was then placed back in service at 11:50 a.m.
	Later, the flow from O Street Station was bypassed
	through Main to accommodate the permanent repair that
Action Taken	was completed on November 9, 2007 about 6:00 p.m.
Date/Time Discharge Ceased	10/23/07 at approximately 9:00 a.m.
Estimated Volume (mg)	170,000 gallons
Did Overflow Reach Receiving water?	Yes, Anacostia River.
	All sewers in the work zone were identified and staked
	out. The 8-inch punctures in the siphon were
	permanently repaired.
Action taken to prevent reoccurrence	

4. SOLIDS AND FLOATABLES CONTROL

4.1 Catch Basin Cleaning

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

				Inspections		Cleaning						
			CBs in	Total Anacostia CBs	Total Anacostia CBs	CBs Cleaned Thru Last Month		CB's Cleaned this Month		Total CBs Cleaned This Year to Date		
Ward	Total CBs	CBs in CSS	Anacostia CSS	Inspected Once this Year	Inspected Twice this Year	Total	In CSS	Total	In CSS	Total	In CSS	
1	1,591	1,568	734	734	734	1923	1790	125	123	2048	1913	
2	4,714	4,112	2,316	2316	1362	2583	1897	939	819	3522	2716	
3	3,555	461	-	0	0	3658	959	159	0	3817	959	
4	2,782	1,985	159	159	159	4246	2364	276	197	4522	2561	
5	2,167	1,035	1,035	1035	1035	1184	781	818	629	2002	1410	
6	1,783	1,594	1,594	1594	1550	2403	1494	63	56	2466	1550	
7	2,313	-	-	0	0	2582	0	101	0	2683	0	
8	1,278	116	116	116	116	1528	824	71	39	1599	863	
WASA Subtotal	20,183	10,871	5,954	5,954	4,956	20,107	10,109	2,552	1,863	22,659	11,972	
DDOT (via VMS) Subtotal				0	0			0	0	0	0	
Grand Total	20,183	10,871	5,954	5,954	4,956			2,552	1,863	22,659	11,972	
% Cleaned/Inspected to Date				100%	83%					>100%	>100%	

Table 4-1 Catch Basin Summaries

H:\1163\WASA Data\DSS Monthly Rpt\2007\CSO Monthly Report October 2007.doc

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 4-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	10/1/07 and	Good	Minor	Nets emptied.	380 lbs.
	10/22/07.		Maintenance	_	
Bar Rack CSO 040	10/19/07	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	10/11/07	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:

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	22
Days not Operating	2
Reason not Operating	Strong winds.
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One
Dates	9/26/07 to present.
Reason	Skimmer B-28 needs to replace the motor on the right propeller.
Plan to Restore to Service	As soon as possible.
Volume Material Collected	30 ton.
Nature of Material	Bottles, cans, natural debris and plastics.

 Table 4-3

 Anacostia River Floating Debris Removal Program – Summary

4.4 CSS Litter Control

This section describes 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:

Date:												li	nspector's Initials:
		Ove	rflow	0	Observed Qu				/ of	Qua	ntity c	of	
CSO	Time of Observa tion	Y	N	L	м	н	L	м	н	L	м	н	REMARKS/OTHER
009													
010				NC	DN	E		1	1	Π			
011													
011a													
012													

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

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 5-2Rainfall Data (inches)

Monthly Rain Totals

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
10/1/2007	0.25	0.00	0.00	0.00
10/2/2007	0.03	0.00	0.00	0.00
10/3/2007	0.02	0.00	0.00	0.00
10/4/2007	0.01	0.00	0.00	0.00
10/5/2007	0.01	0.00	0.00	0.00
10/6/2007	0.04	0.00	0.00	0.00
10/7/2007	0.00	0.00	0.00	0.00
10/8/2007	0.00	0.00	0.00	0.00
10/9/2007	0.00	0.25	0.00	0.03
10/10/2007	0.00	0.00	0.00	0.01
10/11/2007		0.00	0.00	0.00
10/12/2007		0.01	0.00	0.00
10/13/2007	0.00	0.00	0.00	0.00
10/14/2007	0.00	0.00	0.00	0.00
10/15/2007		0.00	0.00	0.00
10/16/2007		0.00	0.00	0.00
10/17/2007		0.00	0.00	0.00
10/18/2007		0.00	0.00	0.00
10/19/2007		0.43	0.47	0.47
10/20/2007	0.01	0.00	0.00	0.00
10/21/2007		0.00	0.00	0.00
10/22/2007		0.00	0.00	0.00
10/23/2007		0.00	0.00	0.00
10/24/2007		1.10	1.21	1.21
10/25/2007	0.00	1.18	1.05	1.05
10/26/2007	0.00	2.07	2.01	2.01
10/27/2007		1.22	1.31	1.31
10/28/2007		0.00	0.00	0.00
10/29/2007		0.00	0.00	0.00
10/30/2007		0.00	0.00	0.00
10/31/2007		0.00	0.00	0.00
TOTALS	0.65	6.26	6.31	6.09



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

Monthly Operations Report For Combined Sewer System Month: November 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: November 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 MAINTENACE

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.

Tab	le 2-1
Regulator	Structures

		Associated NPDES	Date	(Condition		
Struct No.	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/28/07	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/28/07	*			
5	Poplar Point Pumping Station	004	11/20/07	*			
6	Chicago Street and Railroad Ave, SE	005	11/01/07	*			
7	W Street and Railroad Ave, SE	005	11/01/07	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	11/01/07	*			
9	13 th Street and Ridge Place, SE	007	11/01/07	*			
11	"O" Street Pumping Station	011(a)	11/20/07	*			
12	Storm Pump Discharge at Main Pumping Station	011	11/20/07	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	11/08/07	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	11/20/07	*			
15	South Capitol and E Streets	010	11/20/07	*			
15a	Half and L Streets, SE	010	11/20/07	*			
15b	South Capitol and I Streets	010	11/16/07	*			
15c	South Capitol and I Streets	010	11/16/07	*			
16	North of Main Sewage Pumping Station	012	11/20/07	*			
17	4 th and N Streets, SE, Both Extended	013	11/07/07	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	11/16/07	*			
18	6 th and M Streets, SE	014	11/05/07	*			
19	9 th and M Streets, SE	015	11/07/07	*			
19a	9 th and M Streets, SE	015	11/07/07	*			
20	12 th and M Streets, SE	016	11/07/07	*			
20a	12 th and M Streets, SE	016	11/07/07	*			
21	14 th and M Streets, SE	017	11/08/07	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	11/05/07	*			

		Associated NPDES	Date	(Condition		
Struct No.	Location	Associated NPDES Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
22b	Barney Circle and Pennsylvania Ave, SE	018	11/05/07	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	11/05/07	*			
22d	Kentucky Ave and Potomac Street, SE	018	11/01/07	*			
22e	14 th Street and Kentucky Ave, SE	018	11/01/07	*			
23	Independence Ave, 21 st Street, SE, Extended	019	11/16/07	*			
24a	East Capitol St, west of RFK stadium	019	11/16/07	*			
28	21 st and Constitution Ave, NW	020	11/27/07	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	11/27/07	*			
30	17 th and D Streets, NW	020	11/09/07	*			
31	15 th Street and Pennsylvania Ave, NW	020	11/09/07	*			
33	10 th and F Streets, NW	020	11/09/07	*			
34	23 rd Street, north of Constitution Ave, NW	020	11/27/07	*			
34a	23 rd Street near C Street, NW	020	11/27/07	*			
35	Northeast of Roosevelt Bridge, NW	021	11/27/07	*			
36	27 th and I Streets, NW	022	11/14/07	*			
36a	New Hampshire Ave and Eye Street, NW	022	11/14/07	*			
36b	19 th and L Streets, NW	022, 034	11/19/07	*			
36d	17 th and L Streets, NW	022, 034	11/19/07	*			
36g	18 th and M Streets, NW	022, 034	11/19/07	*			
36h	18 th and M Streets, NW	022, 034	11/19/07	*			
37	27 th and Eye Streets, NW	022	11/19/07	*			
38	29 th and K Streets, NW	024	11/09/07	*			
38a	30 th Street, south of K Street, NW	024	11/09/07	*			
39a	30 th and K Streets, NW	024	11/09/07	*			
39b	30 th and K Streets, NW	024	11/09/07	*			
41b	31 st and K Streets, NW	025	11/09/07	*			
41c	31 st and K Streets, NW	025	11/09/07	*			
42	Wisconsin Ave and K Street, NW	026	11/16/07	*			

	Location	Associated NPDES	Data	(Condition	Work Needed	Work performed
Struct No.			Date Inspected	Good	Needs Work		
43	Potomac and Water Streets, NW	027	11/16/07	*			
43a	Potomac and Water Streets, NW	027	11/16/07	*			
44	Water Street, west of Potomac St, NW	027	11/16/07	*			
45	36 th and M Streets, NW	028	11/19/07	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	11/05/07	*			
47	38 th Street and Reservoir Road, NW	029	11/05/07	*			
47a	37 th and T Streets, NW	029	11/05/07	*			
47b	37 th and T Streets, NW	029	11/05/07	*			
47c	38 th and W Streets, NW	029	11/05/07	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	11/09/07	*			
50	26 and M Streets, NW	032	11/19/07	*			
51	N Street Extended, west of 25 th Street, NW	033	11/19/07	*			
52	22 nd Street between M and N Streets, NW	034	11/27/07	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	11/27/07	*			
53	22 nd and M Streets, NW	022, 034	11/27/07	*			
53a	22 nd and M Streets, NW	022, 034	11/27/07	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	11/28/07	*			
53c	L and 22 nd Streets, NW	022	11/28/07	*			
54	23 rd and O Streets, NW	034	11/21/07	*			
55	22 nd Street, south of Q Street, NW	035	11/21/07	*			
55a	22 nd Street, south of Q Street, NW	035	11/21/07	*			
56	23 rd and Massachusetts Ave, NW	036	11/21/07	*			
57	23 rd Street, south of Q Street, NW	036	11/21/07	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	11/05/07	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	11/05/07	*			
60	Connecticut Ave, east of Rock Creek, NW	039	11/07/07	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	11/07/07	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	11/14/07	*			

		Associated NDDES	Data		Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
63	Harvard Street and Rock Creek Parkway, NW		11/14/07	*			
		042					
64	Adams Mill Road, south of Irving Street, NW	043	11/14/07	*			
65	Kenyon Street and Adams Mill Road, NW	044	11/14/07	*			
65a	Kenyon Street and Adams Mill Road, NW	044	11/14/07	*			
66	Adams Mill Road and Lamont Street, NW	045	11/14/07	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	11/14/07	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	11/14/07	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	11/14/07	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	11/14/07	*			
70i	5 th and Quackenbos Streets, NW	049	11/23/07	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	11/01/07	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	11/21/07	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	11/21/07	*			
73	O Street Extended and Rock Creek Parkway, NW	052	11/21/07	*			
74	Q Street, west of Rock Creek, NW	053	11/21/07	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	11/23/07	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	11/23/07	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	11/23/07	*			
78	28th Street Extended, west of Rock Creek, NW	057	11/23/07	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	11/01/07	*			
84	26 th and P Streets, NW	060	11/21/07	*			
84a	26 th and P Streets, NW	060	11/21/07	*			

- 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.

				Dutfall		Gate		Tide Gate		G G G G	
NDDEC				ondition	Pres	ent?	Condi	1		CSO Sign	
NPDES Outfall	Location	Date Inspected		Needs				Needs			Notes, Work Needed or Performed
5		Inspected	OK	Work	Yes	No	OK	Work	OK	Needs Work	Noles, work Needed or Perjormed
	Bolling Air Force Base, at Giavanolli and										
003	Chanute, SW	11/28/07	*		*		*		*		
	Across from Navy Yard, aligned with Parsons										
	Ave., SE	11/20/07	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	11/20/07	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	11/20/07	*		*		*		*		
009	O St. Sewage Pumping Station, SE	11/08/07	*		*		*		*		
010	O St. Sewage Pumping Station, SE	11/20/07	*			*			*		
011	Main Sewage Pumping Station, SE	11/20/07	*			*			*		
011(a)	Main Sewage Pumping Station, SE	11/20/07	*		*		*		*		
	Main Sources Dumping Station SE										
012	Main Sewage Pumping Station, SE	11/20/07	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	11/07/07	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	11/23/07	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	11/23/07	*			*			*		
016	12th and O Streets, SE	11/08/07	*		*		*		*		
017	M and Water Street, SE	11/08/07	*		*		*		*		
	East of Barney Circle and South of										
018	Pennsylvania Avenue Bridge, SE	11/08/07	*		*		*		*		
	Adjacent to Service Drive behind swirl facility										
019	and D.C. General Hospital	11/27/07	*			*			*		
020	Rock Creek Parkway and Independence, NW	11/29/07	*		*		*		*		
021	Rock Creek Parkway and C St., NW	11/29/07	*			*			*		
022	Rock Creek Parkway and G St., NW	11/29/07	*		*		*		*		

Table 2 - Outfalls and Tide Gates

NPDES		Date		Outfall ondition		Gate sent?	Tide C Condi	tion	CSO Sign		
Outfall	Location	Inspected	ОК	Needs Work	Yes	No	ОК	Needs Work		Needs Work	Notes, Work Needed or Performed
024	South of 30 th and K Streets, NW	11/29/07	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
024	South of 31st and K Streets, NW	11/29/07	*		*		*		*		performance.
023	Wisconsin Avenue and Water Street, NW	11/29/07	*		*		*		*		
028	33 rd and Water Sts., NW	11/29/07	*		*	*			*		
	Key Bridge and Whitehurst Freeway, NW	11/29/07	*			*			*		
	Adjacent to C&O Canal, aligned with 38 th St. NW	11/29/07	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	11/09/07	*			*			*		
032	26th and M Street, NW.	11/19/07	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	11/19/07	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	11/21/07	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	11/21/07	*		*		*		*		
036	22nd Street, South of Q Street NW.	11/28/07	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	11/05/07	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	11/05/07	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	11/07/07	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	11/06/07	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	11/06/07	*		*		*		*		
042	Harvard St. and Beach Dr NW.	11/06/07	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	11/06/07	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	11/06/07	*		*		*		*		

				Outfall ondition		Gate sent?	Tide C Condi			CSO Sign	
NPDES Outfall	Location	Date Inspected	017	Needs	X 7	ŊŢ	OV	Needs	OV	NT 1 XX7 1	Notes, Work Needed or Performed
		-	OK	Work	Yes	No	OK	Work	OK	Needs Work	Notes, work weeded of Terjormed
045	North of Beach Dr. and Walbridge Pl, NW.	11/06/07	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	11/14/07	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	11/14/07	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	11/14/07	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	11/14/07	*		*		*		*		
050	Rock Creek Parkway and L St., NW	11/01/07	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	11/23/07	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	11/23/07	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	11/23/07	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	11/23/07	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	11/23/07	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	11/23/07	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	11/01/07	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	11/28/07	*		*		*		*		

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

 Table 2-3

 Pumping Stations – Inspections and Equipment in Service

				1 8	^		
Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service
Main	30	4	12	Pump #2	November 1-30	Reconstruction	February 2008
Eastside	30	2	4	None			
Poplar Point	30	2 1	3	Screen #1	November1-30	Motor not running	March 2008
				Pump #1	November 17-30	Bad check valve	February 2008
Potomac	30	4	5	None			

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.

	Pumping Stations – Preventive Maintenance										
		Type of Preventive Maintenance									
Pumping Station	Date Performed	Performed ¹	Comments								
Main	11/23/07	Group A	Add oil, grease bearings and replace packing if needed.								
O St	11/23/07	Group A	Add oil, grease bearings and replace packing if needed.								
Eastside	11/23/07	Group A	Add oil, grease bearings and replace packing if needed.								
Poplar Point	11/23/07	Group A	Add oil, grease bearings and replace packing if needed.								
Potomac	11/23/07	Group A	Add oil, grease bearings and replace packing if needed.								
Rock Creek	11/23/07	Group A	Add oil, grease bearings and replace packing if needed.								
Upper Anacostia	11/23/07	Group A	Add oil, grease bearings and replace packing if needed.								
Earle Place	11/23/07	Group A	Add oil, grease bearings and replace packing if needed.								

 Table 2-4

 Pumping Stations – Preventive Maintenance

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Issue work order requests as required

		I unping Dia	tions i unipu	5°	
	Sanitary P	umpage	Storm V	Vater/CSO Pumped To	Anacostia River
	Total Wastewater	Daily Average			Screenings Collected
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	(units)
Main	1,799.90	60.00	N/A	N/A	N/A
O St ¹	99.00	3.30	11/15/07	24.40	Normal
Eastside	412.20	13.74	N/A	N/A	N/A
Poplar Point	756.00	25.20	N/A	N/A	N/A
Potomac	3,379.80	112.66	N/A	N/A	N/A
Rock Creek	101.20	3.37	N/A	N/A	N/A
Upper Anacostia	29.40	0.98	N/A	N/A	N/A
Earle Place	0.13	0.004	N/A	N/A	N/A
Notes:					

Table 2-5Pumping Stations – Pumpage

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:

	Northeast Doundary Swift Facility – Inspections and Equipment in Service										
Date	#		Screens or Swirls								
Inspected	Screens	# Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service					
11/28/07	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a					

 Table 2-6

 Northeast Boundary Swirl Facility – Inspections and Equipment in Service

 Table 2-7

 Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	<i>Type of Preventive Maintenance Performed¹</i>	Comments
11/28/07	Group A	

 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

	Northeast Boundary Swirl Facility – Wet Weather Operations										
	Approx. Storm				Approx. Screenings						
	$Duration^{l}$	Total Influent	Total Foul Sewer	Total Effluent	<i>Volume</i> ³						
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)						
Dam 24 v	Dam 24 was out of service during the month of November due to blower failure.										
		See ta	able 2-11 for deta	ils							

 Table 2-8

 Northeast Boundary Swirl Facility – Wet Weather Operations

Note

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.

					ust Doullauf y D with	i i acinty					
		Chlor/			Residual Chlori	ne Test					
		Dechl	Dosages		Results		Enterococcus Test Results		Fecal Coliform Test Results		
		or									
		Syste						Count		Count	
		т	NaOCl	NaHSO3		Conc.		Per		Per	
Da	ite	Used?	(<i>mg/l</i>)	(mg/l)	Location	(<i>mg/l</i>)	Site	100ml	Site	100ml	
	Dam 24 was out of service during the month of November due to blower failure.										
					See tab	le 2-11 fo	r details				
-											

 Table 2-9

 Northeast Boundary Swirl Facility – Disinfection Performance

1. Mix Chr.: Mixing Chamber

2. River: River Outfall

 Table 2-10

 Northeast Boundary Swirl Facility – Effluent Sampling Results

			I	Flow Composited Sam	ple Results		
		Nitrite	Nitrate	Total Kjeldahl		Total	Carbonaceous
	Total suspended	(NO2-N)	(NO3-N))	Nitrogen	Total Nitrogen	Phosphorus	Biological Oxygen
Date	solids (mg/L)	mg/L	mg/L	(mg/L as N)	(mg/L)	(mg/L)	Demand (mg/L)
Dam 24 was out	of service during the	month of Nov	ember due to	blower failure.			
	-		See ta	ble 2-11 for details			

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:

Inflatable Dam		Was Dam Out of Service			Schedule to Restore to
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Service
14 - East	11/20/07	No	N/A	N/A	N/A
14 - West	11/20/07	No	N/A	N/A	N/A
15	11/20/07	No	N/A	N/A	N/A
15A	11/20/07	No	N/A	N/A	N/A
16 - East	11/20/07	No	N/A	N/A	N/A
16 - West	11/20/07	No	N/A	N/A	N/A
24 - North	11/17/07	Yes	11/01/07-11/16/07	Blower malfunctioned	11/17/07
24 - Middle	11/17/07	Yes	11/01/07-11/16/07	Blower malfunctioned	11/17/07
24 - South	11/17/07	Yes	11/01/07-11/16/07	Blower malfunctioned	11/17/07
34	11/20/07	Yes	11/01/07-11-06/07	Level transducer malfunctioned	11/7/07
35	11/20/07	No	N/A	N/A	N/A
52	11/20/07	No	N/A	N/A	N/A

 Table 2-11

 Inflatable Dams – Inspections and Equipment in Service

Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	None	N/A
15A	None	N/A
16 (E & W)	None	N/A
24	11/15/07	30 mins (estimated based on rain duration)
34	None	N/A
35	11/15/07	30 mins
52	None	N/A
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow (hrs)
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
Outfall Sewer Control Gates	Operational Status	Position
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

 Table 2-12

 Inflatable Dams & SCADA Sites - Wet Weather Operations

3. DRY WEATHER OVERFLOWS

Table 3-1DRY WEATHER DISCHARGES

There was no record or knowledge of dry weather discharges.

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4. SOLIDS AND FLOATABLES CONTROL

4.1 Catch Basin Cleaning

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

				Inspections				Clea	ining		
			CBs in	Total Anacostia CBs	Total Anacostia CBs	CBs Cleaned Thru Last Month		CB's Cle	eaned this	Total CBs Cleaned This Year to Date	
Ward	Total CBs	CBs in CSS	Anacostia CSS	Inspected Once this Year	Inspected Twice this Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	734	734	2048	1913	63	56	2111	1969
2	4,714	4,112	2,316	2316	2178	3522	2716	1321	1152	4843	3868
3	3,555	461	-	0	0	3817	959	45	8	3862	967
4	2,782	1,985	159	159	159	4522	2561	262	187	4784	2748
5	2,167	1,035	1,035	1035	1035	2002	1410	257	201	2259	1611
6	1,783	1,594	1,594	1594	1594	2466	1550	122	88	2588	1638
7	2,313	-	-	0	0	2683	0	126	0	2809	0
8	1,278	116	116	116	116	1599	863	55	16	1654	879
WASA Subtotal	20,183	10,871	5,954	5,954	5,816	22,659	11,972	2,251	1,708	24,910	13,680
DDOT (via VMS) Subtotal				0	0			0	0	0	0
Grand Total	20,183	10,871	5,954	5,954	5,816			2,251	1,708	24,910	13,680
% Cleaned/Inspected to Date				100%	98%					>100%	>100%

Table 4-1 Catch Basin Summaries

H:\1163\WASA Data\DSS Monthly Rpt\2007\CSO Monthly Report November 2007.doc

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 4-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	11/1/07 and	Good	Minor	Nets emptied.	240 lbs.
	11/21/07.		Maintenance	_	
Bar Rack CSO 040	11/06/07	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	11/06/07	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:

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	20
Days not Operating	4
Reason not Operating	Strong winds and low tide.
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One
Dates	9/26/07 to present.
Reason	Skimmer B-28 needs to replace the motor on the right propeller.
Plan to Restore to Service	As soon as possible.
Volume Material Collected	50 tons.
Nature of Material	Bottles, cans, natural debris and plastics.

 Table 4-3

 Anacostia River Floating Debris Removal Program – Summary

4.4 CSS Litter Control

This section describes 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:

	Date:											Inspector's Initials:			
		Ove	rflow	0	bserv	ed	Qu	lantity	ntity of Quantity of						
CSO	Time of Observa tion	Y	N	L	м	н	L	м	н	L	м	н	REMARKS/OTHER		
009															
010				NC	DN	E		1	1	Π					
011															
011a															
012															

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

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 5-2Rainfall Data (inches)

Monthly Rain Totals

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
11/1/2007	0.00	0.00	0.00	0.00
11/2/2007	0.08	0.00	0.00	0.00
11/3/2007	0.00	0.00	0.00	0.00
11/4/2007	0.00	0.00	0.00	0.00
11/5/2007	0.26	0.03	0.05	0.06
11/6/2007	0.22	0.07	0.08	0.06
11/7/2007	0.06	0.00	0.00	0.00
11/8/2007	0.54	0.00	0.00	0.00
11/9/2007	0.00	0.08	0.06	0.09
11/10/2007	0.02	0.00	0.00	0.00
11/11/2007	0.08	0.04	0.05	0.06
11/12/2007	0.25	0.21	0.27	0.29
11/13/2007	0.00	0.08	0.08	0.08
11/14/2007	0.00	0.00	0.00	0.00
11/15/2007	0.02	0.79	0.88	0.83
11/16/2007	0.00	0.00	0.00	0.00
11/17/2007	0.00	0.00	0.00	0.00
11/18/2007	0.00	0.00	0.00	0.00
11/19/2007	0.00	0.00	0.00	0.00
11/20/2007	0.00	0.00	0.00	0.00
11/21/2007	0.00	0.00	0.00	0.00
11/22/2007	0.00	0.00	0.00	0.00
11/23/2007	0.00	0.00	0.00	0.00
11/24/2007	0.00	0.00	0.00	0.00
11/25/2007	0.00	0.00	0.00	0.00
11/26/2007	0.00	0.06	0.09	0.06
11/27/2007	0.00	0.00	0.00	0.00
11/28/2007	0.00	0.00	0.00	0.00
11/29/2007	0.00	0.00	0.00	0.00
11/30/2007	0.00	0.00	0.00	0.00
TOTALS	1.53	1.36	1.56	1.53



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

Monthly Operations Report For Combined Sewer System Month: December 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: December 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 MAINTENACE

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.

Tab	le 2-1
Regulator	Structures

		Associated NPDES	Date	(Condition		
Struct No.	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/03/07	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/03/07	*			
5	Poplar Point Pumping Station	004	12/28/07	*			
6	Chicago Street and Railroad Ave, SE	005	12/07/07	*			
7	W Street and Railroad Ave, SE	005	12/07/07	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	12/07/07	*			
9	13 th Street and Ridge Place, SE	007	12/07/07	*			
11	"O" Street Pumping Station	011(a)	12/13/07	*			
12	Storm Pump Discharge at Main Pumping Station	011	12/13/07	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	12/03/07	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	12/13/07	*			
15	South Capitol and E Streets	010	12/13/07	*			
15a	Half and L Streets, SE	010	12/13/07	*			
15b	South Capitol and I Streets	010	12/07/07	*			
15c	South Capitol and I Streets	010	12/07/07	*			
16	North of Main Sewage Pumping Station	012	12/13/07	*			
17	4 th and N Streets, SE, Both Extended	013	12/28/07	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	12/28/07	*			
18	6 th and M Streets, SE	014	12/10/07	*			
19	9 th and M Streets, SE	015	12/10/07	*			
19a	9 th and M Streets, SE	015	12/10/07	*			
20	12 th and M Streets, SE	016	12/10/07	*			
20a	12 th and M Streets, SE	016	12/10/07	*			
21	14 th and M Streets, SE	017	12/13//07	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	12/28/07	*			

		Associated NPDES	Date	(Condition		
Struct No.	Location	Associated NPDES Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
22b	Barney Circle and Pennsylvania Ave, SE	018	12/28/07	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	12/2807	*			
22d	Kentucky Ave and Potomac Street, SE	018	12/19/07	*			
22e	14 th Street and Kentucky Ave, SE	018	12/28/07	*			
23	Independence Ave, 21 st Street, SE, Extended	019	12/28/07	*			
24a	East Capitol St, west of RFK stadium	019	12/18/07	*			
28	21 st and Constitution Ave, NW	020	12/14/07	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	12/18/07	*			
30	17 th and D Streets, NW	020	12/14/07	*			
31	15 th Street and Pennsylvania Ave, NW	020	12/14/07	*			
33	10 th and F Streets, NW	020	12/18/07	*			
34	23 rd Street, north of Constitution Ave, NW	020	12/14/07	*			
34a	23 rd Street near C Street, NW	020	12/18/07	*			
35	Northeast of Roosevelt Bridge, NW	021	12/18/07	*			
36	27 th and I Streets, NW	022	12/12/07	*			
36a	New Hampshire Ave and Eye Street, NW	022	12/12/07	*			
36b	19 th and L Streets, NW	022, 034	12/14/07	*			
36d	17 th and L Streets, NW	022, 034	12/14/07	*			
36g	18 th and M Streets, NW	022, 034	12/14/07	*			
36h	18 th and M Streets, NW	022, 034	12/14/07	*			
37	27 th and Eye Streets, NW	022	12/12/07	*			
38	29 th and K Streets, NW	024	12/10/07	*			
38a	30 th Street, south of K Street, NW	024	12/10/07	*			
39a	30 th and K Streets, NW	024	12/10/07	*			
39b	30 th and K Streets, NW	024	12/10/07	*			
41b	31 st and K Streets, NW	025	12/10/07	*			
41c	31 st and K Streets, NW	025	12/10/07	*			
42	Wisconsin Ave and K Street, NW	026	12/19/07	*			

			Data	(Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
43	Potomac and Water Streets, NW	027	12/19/07	*			
43a	Potomac and Water Streets, NW	027	12/19/07	*			
44	Water Street, west of Potomac St, NW	027	12/19/07	*			
45	36 th and M Streets, NW	028	12/03/07	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	12/03/07	*			
47	38 th Street and Reservoir Road, NW	029	12/03/07	*			
47a	37 th and T Streets, NW	029	12/03/07	*			
47b	37 th and T Streets, NW	029	12/03/07	*			
47c	38 th and W Streets, NW	029	12/03/07	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	12/26/07	*			
50	26 and M Streets, NW	032	12/26/07	*			
51	N Street Extended, west of 25 th Street, NW	033	12/26/07	*			
52	22 nd Street between M and N Streets, NW	034	12/18/07	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	12/18/07	*			
53	22 nd and M Streets, NW	022, 034	12/26/07	*			
53a	22 nd and M Streets, NW	022, 034	12/26/07	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	12/19/07	*			
53c	L and 22 nd Streets, NW	022	12/19/07	*			
54	23 rd and O Streets, NW	034	12/21/07	*			
55	22 nd Street, south of Q Street, NW	035	12/26/07	*			
55a	22 nd Street, south of Q Street, NW	035	12/26/07	*			
56	23 rd and Massachusetts Ave, NW	036	12/264/07	*			
57	23 rd Street, south of Q Street, NW	036	12/26/07	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	12/21/07	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	12/21/07	*			
60	Connecticut Ave, east of Rock Creek, NW	039	12/21/07	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	12/21/07	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	12/17/07	*			

		Associated NPDES	Date	(Condition		
Struct No.	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
63	Harvard Street and Rock Creek Parkway, NW		12/17/07	*			
		042					
64	Adams Mill Road, south of Irving Street, NW	043	12/17/07	*			
65	Kenyon Street and Adams Mill Road, NW	044	12/17/07	*			
65a	Kenyon Street and Adams Mill Road, NW	044	12/17/07	*			
66	Adams Mill Road and Lamont Street, NW	045	12/17/07	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	12/17/07	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	12/17/07	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	12/17/07	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	12/17/07	*			
70i	5 th and Quackenbos Streets, NW	049	12/10/07	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	12/21/07	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	12/26/07	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	12/26/07	*			
73	O Street Extended and Rock Creek Parkway, NW	052	12/26/07	*			
74	Q Street, west of Rock Creek, NW	053	12/26/07	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	12/28/07	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	12/28/07	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	12/0307	*			
78	28th Street Extended, west of Rock Creek, NW	057	12/28/07	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	12/21/07	*			
84	26 th and P Streets, NW	060	12/26/07	*			
84a	26 th and P Streets, NW	060	12/26/07	*			

- 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.

				2	T: 1.	Cata	T: L. C	7 - 4 -			
				Outfall ondition	Pres	Gate	Tide G Condii			CSO Sign	
NPDES		Date		Needs	1705	eni:	Conuil	Needs		CSO Sign	
Outfall	Location	Inspected	ОК	Work	Yes	No	OK	Work	OK	Needs Work	Notes, Work Needed or Performed
	Bolling Air Force Base, at Giavanolli and	1	OK	WOIK	103	140	OK	WOIK	OK	INCCUS WOIK	· · · · · · · · · · · · · · · · · · ·
003	Chanute, SW	12/03/07	*		*		*		*		
	Across from Navy Yard, aligned with Parsons										
005	Ave., SE	12/27/07	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	12/27/07	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	12/27/07	*		*		*		*		
009	O St. Sewage Pumping Station, SE	12/06/07	*		*		*		*		
010	O St. Sewage Pumping Station, SE	12/13/07	*			*			*		
011	Main Sewage Pumping Station, SE	12/13/07	*			*			*		
011(a)	Main Sewage Pumping Station, SE	12/13/07	*		*		*		*		
012	Main Sewage Pumping Station, SE	12/13/07	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	12/20/07	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	12/20/07	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	12/20/07	*			*			*		
016	12th and O Streets, SE	12/20/07	*		*		*		*		
017	M and Water Street, SE	12/20/07	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	12/20/07	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	12/13/07	*			*			*		
020	Rock Creek Parkway and Independence, NW	12/27/07	*		*		*		*		
021	Rock Creek Parkway and C St., NW	12/27/07	*			*			*		
022	Rock Creek Parkway and G St., NW	12/27/07	*		*		*		*		

Table 2 - Outfalls and Tide Gates

NPDES		Date		Dutfall ondition		Gate sent?	Tide G Condit	tion		CSO Sign	
Outfall	Location	Inspected	OK	Needs Work	Yes	No	ОК	Needs Work		Needs Work	Notes, Work Needed or Performed
024	South of 30 th and K Streets, NW	12/27/07	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
-	South of 31st and K Streets, NW	12/27/07	*		*		*	4	*		performance.
025	Wisconsin Avenue and Water Street, NW	12/27/07	*		*		*		*		
026 027	33 rd and Water Sts., NW	12/27/07	*		*	*	*		*		
027	Key Bridge and Whitehurst Freeway, NW	12/27/07	*			*			*		
028	Adjacent to C&O Canal, aligned with 38 th St. NW	12/27/07	*		*	•	*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	12/26/07	*			*			*		
032	26th and M Street, NW.	12/26/07	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	12/26/07	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	12/28/07	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	12/28/07	*		*		*		*		
036	22nd Street, South of Q Street NW.	12/27/07	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	12/21/07	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	12/21/07	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	12/21/07	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	12/21/07	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	12/06/07	*		*		*		*		
042	Harvard St. and Beach Dr NW.	12/06/07	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	12/06/07	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	12/06/07	*		*		*		*		

				Outfall ondition		Gate sent?	Tide C Condi			CSO Sign	
NPDES Outfall	Location	Date Inspected	ок	Needs Work	Yes	No	ОК	Needs	OV	Needs Work	Notes, Work Needed or Performed
045		12/06/07	0K *	WORK	res *	No	<u> </u>	WOFK	*	Needs work	Troics, Work Recacu of Ferjornica
	North of Beach Dr. and Walbridge Pl, NW.		*		4.	*	~		*		
046	Piney Branch Parkway and Park Road, NW.	12/17/07	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	12/17/07	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	12/17/07	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	12/17/07	*		*		*		*		
050	Rock Creek Parkway and L St., NW	12/21/07	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	12/27/07	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	12/27/07	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	12/27/07	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	12/28/07	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	12/28/07	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	12/28/07	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	12/21/07	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	12/27/07	*		*		*		*		

2.3 **Pumping Stations**

Pumping station operations are summarized in the table below.

 Table 2-3

 Pumping Stations – Inspections and Equipment in Service

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service
Main	30	4	12	Pump #2	December 1-30	Reconstruction	February 2008
Eastside	31	2	4	None			
Poplar Point	30	2^{1}	3	Screen #1	December 1-30	Motor not running	March 2008
ropiai romit	50	2	-			e	
				Pump #1	December 17-30	Bad check valve	February 2008
				Pump #2	December 29-31	Bad impellor	February 2008
Potomac	31	4	5	None			

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.

Pumping Stations – Preventive Maintenance										
		Type of Preventive Maintenance								
Pumping Station	Date Performed	$Performed^{l}$	Comments							
Main	12/25/07	Group A	Add oil, grease bearings and replace packing if needed.							
O St	12/25/07	Group A	Add oil, grease bearings and replace packing if needed.							
Eastside	12/25/07	Group A	Add oil, grease bearings and replace packing if needed.							
Poplar Point	12/25/07	Group A	Add oil, grease bearings and replace packing if needed.							
Potomac	12/25/07	Group A	Add oil, grease bearings and replace packing if needed.							
Rock Creek	12/25/07	Group A	Add oil, grease bearings and replace packing if needed.							
Upper Anacostia	12/25/07	Group A	Add oil, grease bearings and replace packing if needed.							
Earle Place	12/25/07	Group A	Add oil, grease bearings and replace packing if needed.							

 Table 2-4

 Pumping Stations – Preventive Maintenance

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Issue work order requests as required

	Sanitary P	umpage	Storm W	/ater/CSO Pumped To	Anacostia River
	Total Wastewater	Daily Average	_		Screenings Collected
Pumping Station	(<i>mg</i>)	Wastewater (mg)	Date	Volume (mg)	(units)
Main	1,839.70	59.35	N/A	N/A	N/A
O St ¹	102.40	3.30	12/03/07	6.30	Normal
			12/16/07	36.50	Normal
			12/28/07	1.30	Normal
			12/29/07	2.90	Normal
			12/30/07	8.80	Normal
			12/31/07	3.40	Normal
Eastside	411.70	13.28	N/A	N/A	N/A
Poplar Point	836.10	26.97	N/A	N/A	N/A
Potomac	3,787.60	122.18	N/A	N/A	N/A
Rock Creek	113.30	3.65	N/A	N/A	N/A
Upper Anacostia	31.10	1.00	N/A	N/A	N/A
Earle Place	0.14	0.004	N/A	N/A	N/A

Table 2-5Pumping Stations – Pumpage

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:

	Northeast Doundary Swirt Facility – Inspections and Equipment in Service										
Date	#		Screens or Swirls								
Inspected	Screens	# Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service					
12/27/07	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a					

 Table 2-6

 Northeast Boundary Swirl Facility – Inspections and Equipment in Service

 Table 2-7

 Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	<i>Type of Preventive Maintenance Performed¹</i>	Comments
12/27/07	Group A	

 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

	Approx. Storm	¥		*	Approx. Screenings
	Duration ¹	Total Influent	Total Foul Sewer	Total Effluent	<i>Volume³</i>
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)
12/03/2007	4	31.94	31.94	0	0.52(42)
12/16/2007	8	24.11	6.72	17.39	2.08(166)
12/29/2007	7	20.49	8.55	11.94	1.36(109)
12/31/2007	6	1.92	1.92	0	0.80(64)

 Table 2-8

 Northeast Boundary Swirl Facility – Wet Weather Operations

Note

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.

_				1101011	ast Doundary Swift		Distinction 1 ci loi n			
		Chlor/			Residual Chlorin	ne Test				
		Dechl	Dosages		Results		Enterococcus Tes	t Results	Fecal Coliform T	est Results
		or								
		Syste						Count		Count
		т	NaOCl	NaHSO ₃		Conc.		Per		Per
	Date	Used?	(<i>mg/l</i>)	(mg/l)	Location	(<i>mg/l</i>)	Site	100ml	Site	100ml
	12/16/07	Yes	5	2	Mix Chamber	0.0	Mix Chamber	23,000	Mix Chamber	54,000
	12/16/07	Yes	5	2	Anacostia River	0.0	Anacostia River	29,000	Anacostia River	150,000
Γ	12/29/07	Yes	5	2	Mix Chamber	0.1	Mix Chamber	<10	Mix Chamber	<10
	12/29/07	Yes	5	2	Anacostia River	0.0	Anacostia River	40,000	Anacostia River	58,000

Table 2-9 Northeast Boundary Swirl Facility – Disinfection Performance

<u>Notes:</u> 1. Mix Chr.: Mixing Chamber River: River Outfall

2.

 Table 2-10

 Northeast Boundary Swirl Facility – Effluent Sampling Results

Γ			Flow Composited Sample Results									
			Nitrite	Nitrate	Total Kjeldahl		Total	Carbonaceous				
		Total suspended	(NO2-N)	(NO3-N))	Nitrogen	Total Nitrogen	Phosphorus	Biological Oxygen				
	Date	solids (mg/L)	mg/L	mg/L	(mg/L as N)	(mg/L)	(mg/L)	Demand (mg/L)				
	12/16/07	84.0	0.00	0.59	3.33	3.92	0.56	4.44				
	12/29/07	96.0	0.00	0.72	2.30	3.02	0.57	15.1				

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:

Inflatable Dam		Was Dam Out of Service	2		Schedule to Restore to	
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Service	
14 - East	12/20/07	No	N/A	N/A	N/A	
14 - West	12/20/07	No	N/A	N/A	N/A	
15	12/20/07	No	N/A	N/A	N/A	
15A	12/20/07	No	N/A	N/A	N/A	
16 - East	12/20/07	No	N/A	N/A	N/A	
16 - West	12/20/07	No	N/A	N/A	N/A	
24 - North	12/20/07	No	N/A	N/A	N/A	
24 - Middle	12/20/07	No	N/A	N/A	N/A	
24 - South	12/20/07	No	N/A	N/A	N/A	
34	12/20/07	No	N/A	N/A	N/A	
35	12/20/07	No	N/A	N/A	N/A	
52	12/20/07	No	N/A	N/A	N/A	

 Table 2-11

 Inflatable Dams – Inspections and Equipment in Service

Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	12/16/07	1hr 06min
15A	12/16/07	2hrs
16 (E & W)	12/15/07	4min
	12/16/07	3min
24	None	N/A
34	None	N/A
35	None	N/A
52	None	N/A
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow (hrs)
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
Outfall Sewer Control Gates	Operational Status	Position
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

 Table 2-12

 Inflatable Dams & SCADA Sites - Wet Weather Operations

3. DRY WEATHER OVERFLOWS

Dry weather overflows (DWOs), are summarized below:

Table 3-1DRY 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:

				Inspections				Clea	ning		
			CBs in	Total Anacostia CBs Inspected	Total Anacostia CBs	CBs Clea Last N		CB's Cle	eaned this	Total CBs This Yea	
Ward	Total CBs	CBs in CSS	Anacostia CSS	Once this Year	Inspected Twice this Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	734	734	2111	1969	87	65	2198	2034
2	4,714	4,112	2,316	2,316	2,316	4843	3868	600	523	5443	4391
3	3,555	461	-	0	0	3862	967	162	0	4024	967
4	2,782	1,985	159	159	159	4784	2748	17	4	4801	2752
5	2,167	1,035	1,035	1,035	1,035	2259	1611	441	252	2700	1863
6	1,783	1,594	1,594	1,594	1,594	2588	1638	40	40	2628	1678
7	2,313	-	-	0	0	2809	0	45	0	2854	0
8	1,278	116	116	116	116	1654	879	37	15	1691	894
WASA Subtotal	20,183	10,871	5,954	5,954	5,954	24,910	13,680	1,429	899	26,339	14,579
DDOT (via VMS) Subtotal				0	0			0	0	0	0
Grand Total	20,183	10,871	5,954	5,954	5,954			1,429	899	26,339	14,579
% Cleaned/Inspected to Date				100%	100%					>100%	>100%

Table 4-1 Catch Basin Summaries

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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 4-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	12/13/07	Good	Minor	Nets emptied.	280 lbs.
	12/31/07		Maintenance	_	
Bar Rack CSO 040	12/21/07	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	12/06/07	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:

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	19
Days not Operating	9
Reason not Operating	Strong winds and low tide.
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One
Dates	9/26/07 to present.
Reason	Skimmer B-28 needs to replace the motor on the right propeller.
Plan to Restore to Service	As soon as possible.
Volume Material Collected	20 ton.
Nature of Material	Bottles, cans, natural debris and plastics.

 Table 4-3

 Anacostia River Floating Debris Removal Program – Summary

4.4 CSS Litter Control

This section describes 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:

			Date	:								li	nspector's Initials:
		Ove	rflow	Observed			Quantity of Quar			ntity c	of		
CSO	Time of Observa tion	Y	N	L	м	н	L	м	н	L	м	н	REMARKS/OTHER
009													
010				NC	NONE					Π			
011													
011a													
012													

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

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 5-2Rainfall Data (inches)

Monthly Rain Totals

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS		
12/1/2007	0.00	0.00	0.00	0.00		
12/2/2007	0.00	0.29	0.30	0.33		
12/3/2007	0.00	0.02	0.02	0.01		
12/4/2007	0.00	0.00	0.00	0.00		
12/5/2007	0.00	0.00	0.00	0.00		
12/6/2007	0.00	0.25	0.18	0.03		
12/7/2007	0.00	0.06	0.09	0.33		
12/8/2007	0.00	0.10	0.12	0.17		
12/9/2007	0.00	0.09	0.12	0.12		
12/10/2007	0.00	0.04	0.06	0.06		
12/11/2007	0.00	0.00	0.00	0.00		
12/12/2007	0.00	0.00	0.00	0.00		
12/13/2007	0.02	0.03	0.02	0.03		
12/14/2007	0.00	0.00	0.00	0.00		
12/15/2007	0.17	0.15	0.17	0.17		
12/16/2007	0.75	0.72	0.76	0.69		
12/17/2007	0.00	0.00	0.00	0.00		
12/18/2007	0.00	0.00	0.00	0.00		
12/19/2007	0.00	0.00	0.00	0.00		
12/20/2007	0.00	0.00	0.00	0.00		
12/21/2007	0.00	0.00	0.00	0.00		
12/22/2007	0.00	0.00	0.00	0.00		
12/23/2007	0.20	0.19	0.21	0.26		
12/24/2007	0.00	0.00	0.00	0.00		
12/25/2007	0.00	0.00	0.00	0.00		
12/26/2007	0.36	0.33	0.34	0.39		
12/27/2007	0.00	0.00	0.00	0.00		
12/28/2007	0.50	0.43	0.50	0.47		
12/29/2007	0.08	0.02	0.10	0.06		
12/30/2007	0.27	0.23	0.23	0.28		
12/31/2007	0.03	0.03	0.02	0.02		
TOTALS	2.38	2.98	3.22	3.42		

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				Total		Maximum	Minimum
		Number of	CSO	Duration of	Avg Duration	Duration of	Duration o
		Overflows (Occurrences)	Overflow	Overflow	of Overflow	Overflow	Overflow
NPDES No.	ES No. Description		Volume (mg)	(hrs)	(hrs)	(hrs)	(hrs)
Anacostia CS	Os						
005	Chicago St and Railroad Station SE	16	3.9	110.8	6.9	22.5	0.5
	Good Hope Road, West of Nichols						
006	Ave.,SE	1	0.0	2.0	2.0	2.0	2.0
007	13th Street and Ridge Place,SE	5	1.8	10.8	2.2	5.5	0.3
	2nd Street, 300 feet North of N Place,						
009	SE	0	0.0	0.0	0.0	0.0	0.0
	O Street SewagePumping Station, SE						
010	(pumped Overflow)	12	2.9	65.3	5.4	23.3	0.3
011	South of Main Sewage Pumping Station, SE (pumped overflow)	1	0.0	0.0	0.2	0.0	0.0
011	South of Main SewagePumping	1	0.8	0.3	0.3	0.3	0.3
011a	Station, SE (gravity overflow)	0	0.0	0.0	0.0	0.0	0.0
0118	North of Main SewagePumping	0	0.0	0.0	0.0	0.0	0.0
012	Station, SE (Tiber Creek)	2	1.4	3.0	1.5	2.3	0.8
012	4th and N Streets, SE	14	2.6	37.5	2.7	11.0	0.5
014	6th and M Streets, SE	13	14.2	62.5	4.8	19.5	0.5
015	9th and M Streets, SE	6	0.4	11.5	1.9	5.8	0.5
016	12th and M Streets, SE	4	3.0	10.8	2.7	6.5	0.3
017	14th and M Streets, SE	8	9.0	44.5	5.6	21.0	0.3
	Barney Circle and Pennsylvania Ave,						
018	SE	21	6.6	190.3	9.1	33.0	0.3
019	Northeast Boundary - Swirl Effluent	5	159.5	53.8	10.8	25.3	5.0
019	Northeast Bound Swirl Bypass	1	1.8	1.0	1.0	1.0	1.0
	SUBTOTAL		207.8				
otomac CSO	e						
003	Bolling AFB	0	0.0	0.0	0.0	0.0	0.0
000	23rd Street, North of Constitution Ave,	<u> </u>	0.0	0.0	0.0	0.0	0.0
020	NW (Easby Point)	3	4.8	11.8	3.9	7.8	0.3
021	Northeast ofRoosevelt Bridge, NW	5	69.4	18.3	3.7	9.8	0.5
022	27th and K Streets, NW	17	1.0	104.0	6.1	22.5	0.5
024	30th and K Streets, NW	21	3.5	193.8	9.2	58.3	0.3
025	31st & K St NW	16	0.1	41.5	2.6	18.8	0.3
026	Wisconsin Avenue andK St., NW	0	0.0	0.0	0.0	0.0	0.0
027	Water Street West of Street, NW	14	13.9	135.3	9.7	26.5	1.8
028	36th and M Streets, NW	11	1.2	40.5	3.7	16.0	0.5
	Canal Road 1000 feet east of Rock					4.0	
029	Creek,NW	2	0.9 94.7	6.3	3.1	4.0	2.3
	SUBTOTAL		94.7				
lock Creek							
	Pennsylvania Avenue, East Rock						
031	Creek, NW	2	0.0	3.3	1.6	2.0	1.3
032	26th and M Streets, NW	0	0.0	0.0	0.0	0.0	0.0
	N Street extendedwest of 25th						
033	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	0.1	10.3	2.1	5.8	0.3
037	Northwest of Belmontand Rock Creek	0	0.0	0.0	0.0	0.0	0.0
037	and Potomac Parkway North of Belmont Road.east of	U	0.0	0.0	0.0	0.0	0.0
038	Kalorama Circle, NW	0	0.0	0.0	0.0	0.0	0.0
030	Connecticut Avenue east of Rock	0	0.0	0.0	0.0	0.0	0.0
039	Creek, NW	0	0.0	0.0	0.0	0.0	0.0
	Biltmore Street extended east of	Ť	0.0	0.0	0.0	0.0	0.0
040	RockCreek, NW	0	0.0	0.0	0.0	0.0	0.0
	Ontario extended and Rock Creek						
041	Parkway	0	0.0	0.0	0.0	0.0	0.0

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				Total		Maximum	Minimum
		Number of	CSO	Duration of	Avg Duration	Duration of	Duration of
		Overflows	Overflow	Overflow	of Overflow	Overflow	Overflow
NPDES No.	Description	(Occurrences)	Volume (mg)	(hrs)	(hrs)	(hrs)	(hrs)
	Harvard Street and RockCreek						
042	Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
	Adams Mill Road South of Irving						
043	Street, NW	0	0.0	0.0	0.0	0.0	0.0
	Kenyon Street and Adams Mill Road,						
044	NW	0	0.0	0.0	0.0	0.0	0.0
	Adams Mill Road and Lamont Street,						
045	NW	0	0.0	0.0	0.0	0.0	0.0
	Park Road south of Piney Branch						
046	Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
	Ingleside Terrace extended and Piney						
047	Branch Parkway	0	0.0	0.0	0.0	0.0	0.0
	Mt. Pleasant Street extended and						
048	Piney Branch Parkway	0	0.0	0.0	0.0	0.0	0.0
049	Piney Branch and LamontStreet, NW	4	4.8	15.3	3.8	7.5	1.0
050	28th Street west of 16th Street, NW	0	0.0	0.0	0.0	0.0	0.0
	Olive Street extended and Rock Creek						
051	Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
	O Street extended and Rock Creek						
052	Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
	O Street west of Rock Creek Parkway,						
053	NW	0	0.0	0.0	0.0	0.0	0.0
	West Side of Rock Creek300 ft. south						
054	of Mass. Ave, NW	0	0.0	0.0	0.0	0.0	0.0
	Normanstone Drive extended west of						
056	Rock Creek, NW	0	0.0	0.0	0.0	0.0	0.0
	28th Street extended west of Rock						
057	Creek, NW	2	0.5	7.3	3.6	4.5	2.8
	Connecticut Avenue and Rock Creek						
058	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		5.3				
	TOTAL		308				

H:\1163\NPDES\Model Predictions\[Copy of 2007 Quarter 4 Model Results.xls]Q4Y2007

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