QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

THIRD QUARTER 2006

Prepared By:

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

Monthly Operations Report For *Combined Sewer System*

Month: JULY 2006

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

Monthly Operations Report for Combined Sewer System
Month: July, 2006

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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.

Table 2-1
Regulator Structures

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	07/24/06	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	07/24/06	*			
5	Poplar Point Pumping Station	004	07/17/06	*			
6	Chicago Street and Railroad Ave, SE	005	07/19/06	*			
7	W Street and Railroad Ave, SE	005	07/19/06	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	07/19/06	*			
9	13th Street and Ridge Place, SE	007	07/05/06	*			
11	"O" Street Pumping Station	011(a)	07/20/06	*			
12	Storm Pump Discharge at Main Pumping Station	011	07/20/06	*			
13	2nd Street, 300 ft. north of N Place, SE	009	07/03/06	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	07/03/06	*			
15	South Capitol and E Streets	010	07/20/06	*			
15a	Half and L Streets, SE	010	07/20/06	*			
15b	South Capitol and I Streets	010	07/18/06	*			
15c	South Capitol and I Streets	010	07/18/06	*			
16	North of Main Sewage Pumping Station	012	07/20/06	*			
17	4th and N Streets, SE, Both Extended	013	07/19/06	*			
17a	K Street between 6th Street and 7th Street, SE	013	07/19/06	*			
18	6th and M Streets, SE	014	07/17/06	*			
19	9th and M Streets, SE	015	07/11/06	*			
19a	9th and M Streets, SE	015	07/11/06	*			
20	12th and M Streets, SE	016	07/21/06	*			
20a	12th and M Streets, SE	016	07/21/06	*			
21	14th and M Streets, SE	017	07/21/06	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	07/24/06	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	07/24/06	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	07/24/06	*			
22d	Kentucky Ave and Potomac Street, SE	018	07/24/06	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
22e	14th Street and Kentucky Ave, SE	018	07/19/06	*			
23	Independence Ave, 21st Street, SE, Extended	019	07/19/06	*			
24a	East Capitol St, west of RFK stadium	019	07/21/06	*			
28	21st and Constitution Ave, NW	020	07/21/06	*			
29	22nd Street, between Constitution Ave and C St, NW	020	07/07/06	*			
30	17th and D Streets, NW	020	07/07/06	*			
31	15th Street and Pennsylvania Ave, NW	020	07/20/06	*			
33	10th and F Streets, NW	020	07/17/06	*			
34	23rd Street, north of Constitution Ave, NW	020	07/17/06	*			
34a	23rd Street near C Street, NW	020	07/20/06	*			
35	Northeast of Roosevelt Bridge, NW (1)	021	07/21/06	*			
36	27th and I Streets, NW	022	07/20/06	*			
36a	New Hampshire Ave and Eye Street, NW	022	0718/06	*			
36b	19th and L Streets, NW	022, 034	07/18/06	*			
36d	17th and L Streets, NW	022, 034	07/18/06	*			
36g	18th and M Streets, NW	022, 034	07/18/06	*			
36h	18th and M Streets, NW	022, 034	07/18/06	*			
37	27th and Eye Streets, NW	022	07/17/06	*			
38	29th and K Streets, NW	024	07/17/06	*			
38a	30th Street, south of K Street, NW	024	07/17/06	*			
39a	30th and K Streets, NW	024	07/17/06	*			
39b	30th and K Streets, NW	024	07/17/06	*			
41b	31st and K Streets, NW	025	07/17/06	*			
41c	31st and K Streets, NW	025	07/17/06	*			
42	Wisconsin Ave and K Street, NW	026	07/17/06	*			
43	Potomac and Water Streets, NW	027	07/19/06	*			
43a	Potomac and Water Streets, NW	027	07/19/06	*			
44	Water Street, west of Potomac St, NW	027	07/19/06	*			
45	36th and M Streets, NW (1)	028	07/11/06	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	07/11/06	*			
47	38th Street and Reservoir Road, NW	029	07/11/06	*			
47a	37th and T Streets, NW	029	07/11/06	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
47b	37th and T Streets, NW	029	07/11/06	*			
47c	38th and W Streets, NW	029	07/11/06	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	07/06/06	*			
50	26 and M Streets, NW	032	07/24/06	*			
51	N Street Extended, west of 25th Street, NW	033	07/24/06	*			
52	22nd Street between M and N Streets, NW	034	07/20/06	*			
52a	N Street between 22nd and 23rd Streets, NW	034	07/20/06	*			
53	22nd and M Streets, NW	022, 034	07/24/06	*			
53a	22nd and M Streets, NW	022, 034	07/24/06	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	07/24/06	*			
53c	L and 22nd Streets, NW	022	07/24/06	*			
54	23rd and O Streets, NW	034	07/21/06	*			
55	22nd Street, south of Q Street, NW	035	07/21/06	*			
55a	22nd Street, south of Q Street, NW	035	07/21/06	*			
56	23rd and Massachusetts Ave, NW	036	07/21/06	*			
57	23rd Street, south of Q Street, NW	036	07/21/06	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	07/26/06	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	07/26/06	*			
60	Connecticut Ave, east of Rock Creek, NW	039	07/06/06	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	07/06/06	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	07/07/06	*			
63	Harvard Street and Rock Creek Parkway, NW	042	07/07/06	*			
64	Adams Mill Road, south of Irving Street, NW	043	07/07/06	*			
65	Kenyon Street and Adams Mill Road, NW	044	07/07/06	*			
65a	Kenyon Street and Adams Mill Road, NW	044	07/07/06	*			
66	Adams Mill Road and Lamont Street, NW	045	07/07/06	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	07/07/06	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	07/07/06	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	07/07/06	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	07/07/06	*			
70i	5th and Quackenbos Streets, NW	049	07/11/06	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
71	28th Street, west of Rock Creek Parkway, NW	050	07/19/06	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	07/18/06	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	07/18/06	*			
73	O Street Extended and Rock Creek Parkway, NW	052	07/18/06	*			
74	Q Street, west of Rock Creek, NW	053	07/21/06	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	07/26/06	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	07/11/06	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	07/26/06	*			
78	28th Street Extended, west of Rock Creek, NW	057	07/26/06	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	07/26/06	*			
84	26th and P Streets, NW	060	07/18/06	*			
84a	26th and P Streets, NW	060	07/18/06	*			

Notes:

1. For regulators noted as "visually checked outfall", the outfall was visually observed to confirm no DWO was occurring.

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	07/24/06	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	07/26/06	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	07/26/06	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	07/26/06	*		*		*		*		
009	O St. Sewage Pumping Station, SE	07/27/06	*		*		*		*		
010	O St. Sewage Pumping Station, SE	07/27/06	*			*			*		
011	Main Sewage Pumping Station, SE	07/27/06	*			*			*		
011(a)	Main Sewage Pumping Station, SE	07/27/06	*		*		*		*		
012	Main Sewage Pumping Station, SE	07/27/06	*		*		*		*		
013	Southeast Federal Center, aligned with 4th St.	07/27/06	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	07/19/06	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	07/27/06	*			*			*		
016	12th and O Streets, SE	07/27/06	*		*		*		*		
017	M and Water Street, SE	07/31/06	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	07/19/06	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	07/31/06	*			*			*		
020	Rock Creek Parkway and Independence, NW	07/31/06	*		*		*		*		
021	Rock Creek Parkway and C St., NW	07/31/06	*			*			*		

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	
022	Rock Creek Parkway and G St., NW	07/31/06	*		*		*		*		
024	South of 30th and K Streets, NW	07/31/06	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
025	South of 31st and K Streets, NW	07/31/06	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	07/31/06	*		*		*		*		
027	33rd and Water Sts., NW	07/31/06	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	07/31/06	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	07/31/06	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	07/06/06	*			*			*		
032	26th and M Street, NW.	07/24/06	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	0724/06	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	07/21/06	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	07/05/06	*		*		*		*		
036	22nd Street, South of Q Street NW.	07/31/06	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	07/26/06	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	07/26/06	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	07/26/06	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	07/06/06	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	07/06/06	*		*		*		*		
042	Harvard St. and Beach Dr NW.	07/27/06	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	07/27/06	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	07/27/06	*		*		*		*		

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.	07/27/06	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	07/07/06	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	07/07/06	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	07/07/06	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	07/19/06	*		*		*		*		
050	Rock Creek Parkway and L St., NW	07/27/06	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	07/27/06	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	07/27/06	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	07/23/06	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	07/26/06	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	07/26/06	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	07/26/06	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	07/11/06	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	07/11/06	*		*		*		*		

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

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

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	31	4	12	Sanitary Pump #2	12/01/05	Needs packing Sleeve and Impeller	8/30/06
Eastside	31	2	4	None			
Poplar Point	31	2 [1]	3	Sanitary Pump #1 Screen #1	02/25/06 01/05/06	Seal Water line needs to be connected Screen off track	10/30/06 10/30/06
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.

Table 2-4
Pumping Stations – Preventive Maintenance

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	7/27/06	Group A	Add oil, grease bearings and replace packing if needed.
O St	7/27/06	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	7/21/06	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	7/27/06	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	7/21/06	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	7/24/06	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	7/25/06	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	7/25/06	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

	Sanitary Pumpage		*Storm Water/CSO Pumped To Anacostia River*		
Pumping Station	*Total Wastewater (mg)*	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,890.80	60.99	N/A	N/A	N/A
O St[1]	176.20	5.68	7/5/06 7/6/06	21MG 35.3MG	Normal Normal
Eastside	237.90	7.67	N/A	N/A	N/A
Poplar Point	582.30	18.78	N/A	N/A	N/A
Potomac	4,303.80	138.83	N/A	N/A	N/A
Rock Creek	136.90	4.42	N/A	N/A	N/A
Upper Anacostia	60.90	1.96	N/A	N/A	N/A
Earle Place	0.31	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

Date Inspected	*# Screens*	*# Swirls*	*Screens or Swirls Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
7/26/06	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a

Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	*Type of Preventive Maintenance Performed*[1]	*Comments*
7/26/06	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

Date	*Approx. Storm Duration[1] (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume[2] (mg)*	*Approx. Screenings Volume[3] # of bins (cu ft)*
7/05/06	6	2.92	2.92	0	0.15(12)
7/22/06	4	2.23	2.23	0	0.55(44)

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

Date	*Chlor/ Dechlor System Used?*	*Dosages*		*Residual Chlorine Test Results*		*Enterococcus Test Results*		*Fecal Coliform Test Results*	
		$NaOCl$ (mg/l)	*$NaHSO_3$ (mg/l)*	*Location*	*Conc. (mg/l)*	*Site*	*Count Per 100ml*	*Site*	*Count Per 100ml*
N/A	Yes	N/A	N/A	Mix Chamber	N/A	Mix Chamber	N/A	Mix Chamber	N/A
N/A	Yes	N/A	N/A	Anacostia River	N/A	Anacostia River	N/A	Anacostia River	N/A
N/A	Yes	N/A	N/A	Mix Chamber	N/A	Mix Chamber	N/A	Mix Chamber	N/A
N/A	Yes	N/A	N/A	Anacostia River	N/A	Anacostia River	N/A	Anacostia River	N/A

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

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

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

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

Inflatable Dam Structure No	*Date Inspected*	*Was Dam Out of Service During the Month?*	*Dates out of Service*	*Reason*	*Schedule to Restore to Service*
14 - East	7/19/06	**No**	**N/A**	**N/A**	**N/A**
14 - West	7/19/06	**No**	**N/A**	**N/A**	**N/A**
15	7/19/06	**No**	**N/A**	**N/A**	**N/A**
15A	7/19/06	**No**	**N/A**	**N/A**	**N/A**
16 - East	7/19/06	**No**	**N/A**	**N/A**	**N/A**
16 - West	7/19/06	**No**	**N/A**	**N/A**	**N/A**
24 – North	7/19/06	**No**	**N/A**	**N/A**	**N/A**
24 - Middle	7/19/06	**No**	**N/A**	**N/A**	**N/A**
24 - South	7/19/06	**No**	**N/A**	**N/A**	**N/A**
34	7/19/06	**No**	**N/A**	**N/A**	**N/A**
35	7/19/06	**No**	**N/A**	**N/A**	**N/A**
52	7/19/06	**No**	**N/A**	**N/A**	**N/A**

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

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	*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

3. DRY WEATHER OVERFLOWS

Dry weather overflows (DWOs), are summarized below:

Table 3-1
Dry Weather Overflows

Location:	
Cause	NO DRY WEATHER OVERFLOW IN JUNE.
Date/ Time Discovered	
Action Taken	
Date/Time Discharge Ceased	
Estimated Volume (mg)	
Did Overflow Reach Receiving water?	
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:

Table 4-1 Catch Basin Summaries

Ward	*Total CBs*	*CBs in CSS*	*CBs in Anacostia CSS*	*Anacostia CSS Inspections*		*Cleaning*					
				Total CBs Inspected Once this Year	*Total 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	734	2098	1836	21	21	2119	1857
2	4,714	4,112	2,316	2316	153	4818	3465	104	103	4922	3568
3	3,555	461	-	0	0	2643	610	1767	856	4410	1466
4	2,782	1,985	159	159	56	430	388	161	117	591	505
5	2,167	1,035	1,035	613	0	406	287	1	0	407	287
6	1,783	1,594	1,594	827	252	717	443	2	0	719	443
7	2,313	-	-	0	0	2060	0	54	0	2114	0
8	1,278	116	116	116	116	1671	349	8	4	1679	353
WASA Subtotal	**20,183**	**10,871**	**5,954**	**4,765**	**1,311**	**14,843**	**7,378**	**2,118**	**1,101**	**16,961**	**8,479**
DDOT (via VMS) Subtotal				**0**	**0**			**0**	**0**	**0**	**0**
Grand Total	**20,183**	**10,871**	**5,954**	**4,765**	**1,311**			**2,118**	**1,101**	**16,961**	**8,479**
% Cleaned Inspected to Date				**80%**	**22%**					**84%**	**78%**

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

Facility	*Date Inspected*	*Condition*	*Work Needed*	*Work performed*	*Material Removed (CY)*
Netting System CSO 018	7/10/06 7/24/06	Good	Minor Maintenance	Routine cleaning	L. Net – 240lbs. R. Net – 265 lbs.
Bar Rack CSO 040	7/7/06	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	7/7/06	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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	20
Days not Operating	2
Reason not Operating	Strong winds
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One
Dates	6/10/06 to 7/31/06.
Reason	Skimmer B–28 – Defective Pump – Pump Rebuilt and adjusted.
Plan to Restore to Service	Already back in service.
Volume Material Collected	80 tons.
Nature of Material	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

Date:07/06/06 **Inspector's Initials: VB**

CSO	Time of Observation	Overflo		Observed			Quantity of			Quantity of			REMARKS/OTHER
		Y	N	L	M	H	L	M	H	L	M	H	
009	8.00 am	X		X									NONE
	10.00 am	X		X									NONE
	12.00 noon												
	2.00 pm												
010	8.00 am												
	10.00 am												
	12.00 noon												
	2.00 pm												
011	8.00 am												
	10.00 am												
	12.00 noon												
	2.00 pm												
011a	8.00 am												
	10.00 am												
	12.00 noon												
	2.00 pm												
012	8.00 am												
	10.00 am												
	12.00 noon												
	2.00 pm												

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
7/1/2006	0	0	0	0
7/2/2006	0.01	0	0.24	0.11
7/3/2006	0	0	0	0
7/4/2006	0.31	0.25	0.77	0.25
7/5/2006	1.41	0.87	0.87	0.87
7/6/2006	0.18	0.57	1.08	0.57
7/7/2006	0	0	0	0
7/8/2006	0	0	0	0
7/9/2006	0	0	0	0
7/10/2006	1.8	0	0	0
7/11/2006	0.09	0	0	0
7/12/2006	0.08	0.12	0.35	0.12
7/13/2006	0	0	0.01	0.04
7/14/2006	0	0	0	0
7/15/2006	0	0	0	0
7/16/2006	0	0	0	0
7/17/2006	0	0	0	0
7/18/2006	0.03	0.08	0	0.08
7/19/2006	0	0	0	0
7/20/2006	0	0	0	0
7/21/2006	0	0	0	0
7/22/2006	0.49	0.5	0.41	0.45
7/23/2006	0.01	0	0	0
7/24/2006	0	0	0	0
7/25/2006	0	0	0	0
7/26/2006	0	0	0	0
7/27/2006	0	0	0	0
7/28/2006	0	0	0	0
7/29/2006	0	0	0.02	0
7/30/2006	0	0	0	0
7/31/2006	0	0	0	0
Total	4.41	2.39	3.75	2.49

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

Monthly Operations Report For *Combined Sewer System*

Month: AUGUST 2006

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: August, 2006

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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.

Table 2-1
Regulator Structures

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	8-7-06	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	8-7-06	*			
5	Poplar Point Pumping Station	004	8-7-06	*			
6	Chicago Street and Railroad Ave, SE	005	8-21-06	*			
7	W Street and Railroad Ave, SE	005	8-21-06	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	8-21-06	*			
9	13th Street and Ridge Place, SE	007	8-17-06	*			
11	"O" Street Pumping Station	011(a)	8-17-06	*			
12	Storm Pump Discharge at Main Pumping Station	011	8-17-06	*			
13	2nd Street, 300 ft. north of N Place, SE	009	8-2-06	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	8-29-06	*			
15	South Capitol and E Streets	010	8-17-06	*			
15a	Half and L Streets, SE	010	8-17-06	*			
15b	South Capitol and I Streets	010	8-17-06	*			
15c	South Capitol and I Streets	010	8-17-06	*			
16	North of Main Sewage Pumping Station	012	8-17-06	*			
17	4th and N Streets, SE, Both Extended	013	8-3-06	*			
17a	K Street between 6th Street and 7th Street, SE	013	8-21-06	*			
18	6th and M Streets, SE	014	8-8-06	*			
19	9th and M Streets, SE	015	8-2-06	*			
19a	9th and M Streets, SE	015	8-2-06	*			
20	12th and M Streets, SE	016	8-2-06	*			
20a	12th and M Streets, SE	016	8-2-06	*			
21	14th and M Streets, SE	017	8-8-06	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	8-9-06	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	8-9-06	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	8-9-06	*			
22d	Kentucky Ave and Potomac Street, SE	018	8-2-06	*			
22e	14th Street and Kentucky Ave, SE	018	8-2-06	*			
23	Independence Ave, 21st Street, SE, Extended	019	8-21-06	*			
24a	East Capitol St, west of RFK stadium	019	8-21-06	*			
28	21st and Constitution Ave, NW	020	8-25-06	*			
29	22nd Street, between Constitution Ave and C St, NW	020	8-25-06	*			
30	17th and D Streets, NW	020	8-2-06	*			
31	15th Street and Pennsylvania Ave, NW	020	8-2-06	*			
33	10th and F Streets, NW	020	8-18-06	*			
34	23rd Street, north of Constitution Ave, NW	020	8-22-06	*			
34a	23rd Street near C Street, NW	020	8-25-06	*			
35	Northeast of Roosevelt Bridge, NW (1)	021	8-22-06	*			
36	27th and I Streets, NW	022	8-8-06	*			
36a	New Hampshire Ave and Eye Street, NW	022	8-8-06	*			
36b	19th and L Streets, NW	022, 034	8-1-06	*			
36d	17th and L Streets, NW	022, 034	8-1-06	*			
36g	18th and M Streets, NW	022, 034	8-1-06	*			
36h	18th and M Streets, NW	022, 034	8-1-06	*			
37	27th and Eye Streets, NW	022	8-8-06	*			
38	29th and K Streets, NW	024	8-1-06	*			
38a	30th Street, south of K Street, NW	024	8-1-06	*			
39a	30th and K Streets, NW	024	8-1-06	*			
39b	30th and K Streets, NW	024	8-1-06	*			
41b	31st and K Streets, NW	025	8-1-06	*			
41c	31st and K Streets, NW	025	8-1-06	*			
42	Wisconsin Ave and K Street, NW	026	8-8-06	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
43	Potomac and Water Streets, NW	027	8-8-06	*			
43a	Potomac and Water Streets, NW	027	8-8-06	*			
44	Water Street, west of Potomac St, NW	027	8-8-06	*			
45	36th and M Streets, NW (1)	028	8-8-06	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	8-7-06	*			
47	38th Street and Reservoir Road, NW	029	8-7-06	*			
47a	37th and T Streets, NW	029	8-7-06	*			
47b	37th and T Streets, NW	029	8-7-06	*			
47c	38th and W Streets, NW	029	8-7-06	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	8-2-06	*			
50	26 and M Streets, NW	032	8-2-06	*			
51	N Street Extended, west of 25th Street, NW	033	8-28-06	*			
52	22nd Street between M and N Streets, NW	034	8-22-06	*			
52a	N Street between 22nd and 23rd Streets, NW	034	8-22-06	*			
53	22nd and M Streets, NW	022, 034	8-25-06	*			
53a	22nd and M Streets, NW	022, 034	8-25-06	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	8-22-06	*			
53c	L and 22nd Streets, NW	022	8-22-06	*			
54	23rd and O Streets, NW	034	8-21-06	*			
55	22nd Street, south of Q Street, NW	035	8-25-06	*			
55a	22nd Street, south of Q Street, NW	035	8-25-06	*			
56	23rd and Massachusetts Ave, NW	036	8-25-06	*			
57	23rd Street, south of Q Street, NW	036	8-25-06	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	8-25-06	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	8-25-06	*			
60	Connecticut Ave, east of Rock Creek, NW	039	8-3-06	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	8-3-06	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	8-14-06	*			
63	Harvard Street and Rock Creek Parkway, NW	042	8-14-06	*			
64	Adams Mill Road, south of Irving Street, NW	043	8-25-06	*			
65	Kenyon Street and Adams Mill Road, NW	044	8-14-06	*			
65a	Kenyon Street and Adams Mill Road, NW	044	8-14-06	*			
66	Adams Mill Road and Lamont Street, NW	045	8-14-06	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	8-14-06	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	8-14-06	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	8-14-06	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	8-14-06	*			
70i	5th and Quackenbos Streets, NW	049	8-2-06	*			
71	28th Street, west of Rock Creek Parkway, NW	050	8-28-06	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	8-21-06	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	8-21-06	*			
73	O Street Extended and Rock Creek Parkway, NW	052	8-21-06	*			
74	Q Street, west of Rock Creek, NW	053	8-25-06	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	8-18-06	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	8-18-06	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	8-25-06	*			
78	28th Street Extended, west of Rock Creek, NW	057	8-18-06	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	8-3-06	*			
84	26th and P Streets, NW	060	8-21-06	*			
84a	26th and P Streets, NW	060	8-21-06	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.

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	8-7-06	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	8-22-06	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	8-22-06	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	8-22-06	*		*		*		*		
009	O St. Sewage Pumping Station, SE	8-17-06	*		*		*		*		
010	O St. Sewage Pumping Station, SE	8-17-06	*			*			*		
011	Main Sewage Pumping Station, SE	8-17-06	*			*			*		
011(a)	Main Sewage Pumping Station, SE	8-17-06	*		*		*		*		
012	Main Sewage Pumping Station, SE	8-17-06	*		*		*		*		
013	Southeast Federal Center, aligned with 4th St.	8-3-06	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	8-3-06	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	8-3-06	*			*			*		
016	12th and O Streets, SE	8-3-06	*		*		*		*		
017	M and Water Street, SE	8-3-06	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	8-3-06	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	8-17-06	*			*			*		

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	
020	Rock Creek Parkway and Independence, NW	8-24-06	*		*		*		*		
021	Rock Creek Parkway and C St., NW	8-24-06	*			*			*		
022	Rock Creek Parkway and G St., NW	8-24-06	*		*		*		*		
024	South of 30th and K Streets, NW	8-24-06	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
025	South of 31st and K Streets, NW	8-24-06	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	8-24-06	*		*		*		*		
027	33rd and Water Sts., NW	8-24-06	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	8-24-06	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	8-24-06	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	8-2-06	*			*			*		
032	26th and M Street, NW.	8-2-06	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	8-28-06	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	8-25-06	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	8-25-06	*		*		*		*		
036	22nd Street, South of Q Street NW.	8-24-06	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	8-25-06	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	8-25-06	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	8-3-06	*		*		*		*		

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	
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	8-3-06	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	8-3-06	*		*		*		*		
042	Harvard St. and Beach Dr NW.	8-3-06	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	8-3-06	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	8-3-06	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	8-3-06	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	8-14-06	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	8-14-06	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	8-14-06	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	8-14-06	*		*		*		*		
050	Rock Creek Parkway and L St., NW	8-28-06	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	8-24-06	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	8-24-06	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	8-24-06	*		*		*		*		

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	
054	Massachusetts Avenue and Rock Creek Parkway, NW.	8-18-06	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	8-18-06	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	8-18-06	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	8-3-06	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	8-24-06	*		*		*		*		

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

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

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	30	4	12	Sanitary Pump #2	12/01/05	Needs packing Sleeve and Impeller	8/30/06
Eastside	30	2	4	None			
Poplar Point	30	2 [1]	3	Sanitary Pump #1 Screen #1	02/25/06 01/05/06	Seal Water line needs to be connected Screen off track	10/30/06 10/30/06
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.

Table 2-4
Pumping Stations – Preventive Maintenance

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	8/17/06	Group A	Add oil, grease bearings and replace packing if needed.
O St	8/17/06	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	8/18/06	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	8/18/06	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	8/18/06	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	8/17/06	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	8/17/06	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	8/17/06	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

	Sanitary Pumpage		*Storm Water/CSO Pumped To Anacostia River*		
Pumping Station	*Total Wastewater (mg)*	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,766.20	56.97	N/A	N/A	N/A
O St[1]	176.60	5.70			Normal
Eastside	33.13	5.55	N/A	N/A	N/A
Poplar Point	547.20	17.65	N/A	N/A	N/A
Potomac	4,259.60	137.41	N/A	N/A	N/A
Rock Creek	19.17	3.46	N/A	N/A	N/A
Upper Anacostia	6.46	1.71	N/A	N/A	N/A
Earle Place	0.03	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

Date Inspected	*# Screens*	*# Swirls*	*Screens or Swirls Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
8/23/06	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a

Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	*Type of Preventive Maintenance Performed*[1]	*Comments*
8/23/06	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

Date	*Approx. Storm Duration[1] (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume[2] (mg)*	*Approx. Screenings Volume[3] # of bins (cu ft)*
8/7/06	2.5	13	1.07	11.93	0.45(36)

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

Date	*Chlor/ Dechlor System Used?*	*Dosages*		*Residual Chlorine Test Results*		*Enterococcus Test Results*		*Fecal Coliform Test Results*	
		NaOCl (mg/l)	*$NaHSO_3$ (mg/l)*	*Location*	*Conc. (mg/l)*	*Site*	*Count Per 100ml*	*Site*	*Count Per 100ml*
8/7/06	Yes	5	2	Mix Chamber	0.0	Mix Chamber	56,000	Mix Chamber	410,000
8/7/06	Yes	5	2	Anacostia River	0.0	Anacostia River	22,700	Anacostia River	48,000

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

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

	Flow Composited Sample Results						
Date	*Total suspended solids (mg/L)*	*Nitrite (NO2-N) mg/L*	*Nitrate (NO3-N)) mg/L*	*Total Kjeldahl Nitrogen (mg/L as N)*	*Total Nitrogen (mg/L)*	*Total Phosphorus (mg/L)*	*Carbonaceous Biological Oxygen Demand (mg/L)*
8/07/06	35.0	0.10	0.36	1.16	1.62	0.23	< 6.0

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

Inflatable Dam Structure No	*Date Inspected*	*Was Dam Out of Service During the Month?*	*Dates out of Service*	*Reason*	*Schedule to Restore to Service*
14 - East	8/17/06	**No**	**N/A**	**N/A**	**N/A**
14 - West	8/17/06	**No**	**N/A**	**N/A**	**N/A**
15	8/17/06	**No**	**N/A**	**N/A**	**N/A**
15A	8/17/06	**No**	**N/A**	**N/A**	**N/A**
16 - East	8/17/06	**No**	**N/A**	**N/A**	**N/A**
16 - West	8/17/06	**No**	**N/A**	**N/A**	**N/A**
24 – North	8/18/06	**No**	**N/A**	**N/A**	**N/A**
24 - Middle	8/18/06	**No**	**N/A**	**N/A**	**N/A**
24 - South	8/18/06	**No**	**N/A**	**N/A**	**N/A**
34	8/17/06	**No**	**N/A**	**N/A**	**N/A**
35	8/17/06	**No**	**N/A**	**N/A**	**N/A**
52	8/17/06	**No**	**N/A**	**N/A**	**N/A**

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

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	*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

3. DRY WEATHER OVERFLOWS

Dry weather overflows (DWOs), are summarized below:

Table 3-1
Dry Weather Overflows

Location:	
Cause	NO DRY WEATHER OVERFLOW IN AUGUST.
Date/ Time Discovered	
Action Taken	
Date/Time Discharge Ceased	
Estimated Volume (mg)	
Did Overflow Reach Receiving water?	
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:

Table 4-1 Catch Basin Summaries

Ward	*Total CBs*	*CBs in CSS*	*CBs in Anacostia CSS*	*Anacostia CSS Inspections*		*Cleaning*					
				Total CBs Inspected Once this Year	*Total 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	734	2119	1857	136	136	2255	1993
2	4,714	4,112	2,316	2316	437	4922	3568	141	120	5063	3688
3	3,555	461	-	0	0	4410	1466	450	202	4860	1668
4	2,782	1,985	159	159	159	591	505	1675	714	2266	1219
5	2,167	1,035	1,035	779	0	407	287	142	142	549	287
6	1,783	1,594	1,594	954	252	719	443	0	0	719	443
7	2,313	-	-	0	0	2114	0	0	0	2114	0
8	1,278	116	116	116	116	1679	353	0	0	1679	353
WASA Subtotal	**20,183**	**10,871**	**5,954**	**5,058**	**1,698**	**16,961**	**8,479**	**2,544**	**1,314**	**19,505**	**9,651**
DDOT (via VMS) Subtotal				**0**	**0**			**0**	**0**		**0**
Grand Total	**20,183**	**10,871**	**5,954**	**5,058**	**1,698**			**2,544**	**1,314**	**19,505**	**9,651**
% Cleaned/Inspected to Date				**85%**	**29%**					**97%**	**89%**

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

Facility	*Date Inspected*	*Condition*	*Work Needed*	*Work performed*	*Material Removed (CY)*
Netting System CSO 018	8/7/06 and 8/24/06	Good	Adjust Ramp	Net changed	L. Net – 310 lbs. R. Net – 290 lbs.
Bar Rack CSO 040	8/3/06	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	8/03/06	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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	23
Days not Operating	3
Reason not Operating	Strong winds
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One
Dates	8/25/06 to 8/31/06.
Reason	Skimmer B–28 Rebuilt Pump stopped working – reevaluate pump.
Plan to Restore to Service	As soon as possible.
Volume Material Collected	30 tons.
Nature of Material	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

Date: **Inspector's Initials:**

CSO	Time of Observation	Overflo		Observed			Quantity of			Quantity of			REMARKS/OTHER
		Y	N	L	M	H	L	M	H	L	M	H	
009	8.00 am												
	10.00 am												
	12.00 noon												
	2.00 pm												
010	8.00 am												
	10.00 am												
	12.00 noon												
	2.00 pm												
011	8.00 am												
	10.00 am												
	12.00 noon												
	2.00 pm												
011a	8.00 am												
	10.00 am												
	12.00 noon												
	2.00 pm												
012	8.00 am												
	10.00 am												
	12.00 noon												
	2.00 pm												

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
8/1/2006	0	0.03	0	0
8/2/2006	0	0	0	0
8/3/2006	0.02	0.16	0	0.02
8/4/2006	0	0	0	0
8/5/2006	0	0	0	0
8/6/2006	0	0	0	0
8/7/2006	0.39	0.35	0.49	0.47
8/8/2006	0	0	0	0
8/9/2006	0	0	0	0
8/10/2006	0.04	0.05	0.11	0.1
8/11/2006	0	0	0	0
8/12/2006	0	0	0	0
8/13/2006	0	0	0	0
8/14/2006	0	0	0	0
8/15/2006	0	0	0	0
8/16/2006	0	0	0	0
8/17/2006	0	0	0	0
8/18/2006	0	0	0	0
8/19/2006	0	0	0	0
8/20/2006	0	0	0	0
8/21/2006	0	0	0	0
8/22/2006	0	0	0	0
8/23/2006	0	0	0.07	0
8/24/2006	0	0	0	0
8/25/2006	0	0	0	0
8/26/2006	0	0	0	0
8/27/2006	0	0	0	0
8/28/2006	0	0	0	0
8/29/2006	0	0	0	0
8/30/2006	0.03	0.02	0	0.03
8/31/2006	0	0	0	0
Total	0.48	0.61	0.67	0.62

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

Monthly Operations Report For *Combined Sewer System*

Month: SEPTEMBER 2006

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: September, 2006

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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.

Table 2-1
Regulator Structures

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	09/14/06	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	09/14/06	*			
5	Poplar Point Pumping Station	004	09/21/06	*			
6	Chicago Street and Railroad Ave, SE	005	09/22/06	*			
7	W Street and Railroad Ave, SE	005	09/22/06	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	09/13/06	*			
9	13th Street and Ridge Place, SE	007	09/13/06	*			
11	"O" Street Pumping Station	011(a)	09/21/06	*			
12	Storm Pump Discharge at Main Pumping Station	011	09/21/06	*			
13	2nd Street, 300 ft. north of N Place, SE	009	09/01/06	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	09/21/06	*			
15	South Capitol and E Streets	010	09/21/06	*			
15a	Half and L Streets, SE	010	09/21/06	*			
15b	South Capitol and I Streets	010	09/18/06	*			
15c	South Capitol and I Streets	010	09/18/06	*			
16	North of Main Sewage Pumping Station	012	09/22/06	*			
17	4th and N Streets, SE, Both Extended	013	09/01/06	*			
17a	K Street between 6th Street and 7th Street, SE	013	09/21/06	*			
18	6th and M Streets, SE	014	09/11/06	*			
19	9th and M Streets, SE	015	09/27/06	*			
19a	9th and M Streets, SE	015	09/27/06	*			
20	12th and M Streets, SE	016	09/27/06	*			
20a	12th and M Streets, SE	016	09/27/06	*			
21	14th and M Streets, SE	017	09/11/06	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	09/11/06	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	09/11/06	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	09/11/06	*			
22d	Kentucky Ave and Potomac Street, SE	018	09/11/06	*			
22e	14th Street and Kentucky Ave, SE	018	09/11/06	*			
23	Independence Ave, 21st Street, SE, Extended	019	09/11/06	*			
24a	East Capitol St, west of RFK stadium	019	09/21/06	*			
28	21st and Constitution Ave, NW	020	09/18/06	*			
29	22nd Street, between Constitution Ave and C St, NW	020	09/18/06	*			
30	17th and D Streets, NW	020	09/15/06	*			
31	15th Street and Pennsylvania Ave, NW	020	09/15/06	*			
33	10th and F Streets, NW	020	09/13/06	*			
34	23rd Street, north of Constitution Ave, NW	020	09/24/06	*			
34a	23rd Street near C Street, NW	020	09/18/06	*			
35	Northeast of Roosevelt Bridge, NW (1)	021	09/26/06	*			
36	27th and I Streets, NW	022	09/18/06	*			
36a	New Hampshire Ave and Eye Street, NW	022	09/18/06	*			
36b	19th and L Streets, NW	022, 034	09/13/06	*			
36d	17th and L Streets, NW	022, 034	09/13/06	*			
36g	18th and M Streets, NW	022, 034	09/13/06	*			
36h	18th and M Streets, NW	022, 034	09/13/06	*			
37	27th and Eye Streets, NW	022	09/18/06	*			
38	29th and K Streets, NW	024	09/06/06	*			
38a	30th Street, south of K Street, NW	024	09/06/06	*			
39a	30th and K Streets, NW	024	09/06/06	*			
39b	30th and K Streets, NW	024	09/06/06	*			
41b	31st and K Streets, NW	025	09/13/06	*			
41c	31st and K Streets, NW	025	09/13/06	*			
42	Wisconsin Ave and K Street, NW	026	09/13/06	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
43	Potomac and Water Streets, NW	027	09/13/06	*			
43a	Potomac and Water Streets, NW	027	09/13/06	*			
44	Water Street, west of Potomac St, NW	027	09/13/06	*			
45	36th and M Streets, NW (1)	028	09/15/06	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	09/06/06	*			
47	38th Street and Reservoir Road, NW	029	09/06/06	*			
47a	37th and T Streets, NW	029	09/06/06	*			
47b	37th and T Streets, NW	029	09/06/06	*			
47c	38th and W Streets, NW	029	09/06/06	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	09/22/06	*			
50	26 and M Streets, NW	032	09/22/06	*			
51	N Street Extended, west of 25th Street, NW	033	09/22/06	*			
52	22nd Street between M and N Streets, NW	034	09/28/06	*			
52a	N Street between 22nd and 23rd Streets, NW	034	09/28/06	*			
53	22nd and M Streets, NW	022, 034	09/22/06	*			
53a	22nd and M Streets, NW	022, 034	09/20/06	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	09/20/06	*			
53c	L and 22nd Streets, NW	022	09/20/06	*			
54	23rd and O Streets, NW	034	09/20/06	*			
55	22nd Street, south of Q Street, NW	035	09/20/06	*			
55a	22nd Street, south of Q Street, NW	035	09/19/06	*			
56	23rd and Massachusetts Ave, NW	036	09/19/06	*			
57	23rd Street, south of Q Street, NW	036	09/19/06	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	09/11/06	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	09/11/06	*			
60	Connecticut Ave, east of Rock Creek, NW	039	09/11/06	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	09/11/06	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	09/15/06	*			
63	Harvard Street and Rock Creek Parkway, NW	042	09/15/06	*			
64	Adams Mill Road, south of Irving Street, NW	043	09/15/06	*			
65	Kenyon Street and Adams Mill Road, NW	044	09/15/06	*			
65a	Kenyon Street and Adams Mill Road, NW	044	09/15/06	*			
66	Adams Mill Road and Lamont Street, NW	045	09/15/06	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	09/15/06	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	09/15/06	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	09/15/06	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	09/15/06	*			
70i	5th and Quackenbos Streets, NW	049	09/29/06	*			
71	28th Street, west of Rock Creek Parkway, NW	050	09/06/06	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	09/18/06	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	09/18/06	*			
73	O Street Extended and Rock Creek Parkway, NW	052	09/18/06	*			
74	Q Street, west of Rock Creek, NW	053	09/18/06	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	09/28/06	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	0928/06	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	09/06/06	*			
78	28th Street Extended, west of Rock Creek, NW	057	09/28/06	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	09.19.06	*			
84	26th and P Streets, NW	060	09/18/06	*			
84a	26th and P Streets, NW	060	09/18/06	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.

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	09/14/06	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	09/28/06	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	09/28/06	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	09/28/06	*		*		*		*		
009	O St. Sewage Pumping Station, SE	09/28/06	*		*		*		*		
010	O St. Sewage Pumping Station, SE	09/28/06	*			*			*		
011	Main Sewage Pumping Station, SE	09/28/06	*			*			*		
011(a)	Main Sewage Pumping Station, SE	09/28/06	*		*		*		*		
012	Main Sewage Pumping Station, SE	09/28/06	*		*		*		*		
013	Southeast Federal Center, aligned with 4th St.	09/28/06	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	09/28/06	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	09/28/06	*			*			*		
016	12th and O Streets, SE	09/28/06	*		*		*		*		
017	M and Water Street, SE	09/28/06	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	09/28/06	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	09/28/06	*			*			*		

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	
020	Rock Creek Parkway and Independence, NW	09/22/06	*		*		*		*		
021	Rock Creek Parkway and C St., NW	09/22/06	*			*			*		
022	Rock Creek Parkway and G St., NW	09/22/06	*		*		*		*		
024	South of 30th and K Streets, NW	09/22/06	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
025	South of 31st and K Streets, NW	09/22/06	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	09/22/06	*		*		*		*		
027	33rd and Water Sts., NW	09/22/06	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	09;/22/06	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	09/22/06	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	09/22/06	*			*			*		
032	26th and M Street, NW.	09/22/06	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	09/22/06	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	09/22/06	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway		*		*		*		*		
036	22nd Street, South of Q Street NW.	09/19/06	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	09/11/06	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	09/11/06	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	09/11/06	*		*		*		*		

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	
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	09/11/06	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	09/11/06	*		*		*		*		
042	Harvard St. and Beach Dr NW.	09/14/06	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	09/14/06	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	09/14/06	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	09/14/06	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	09/15/06	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	09/15/06	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	09/15/06	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	09/15/06	*		*		*		*		
050	Rock Creek Parkway and L St., NW	09/15/06	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	09/14/06	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	09/14/06	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	09/19/06	*		*		*		*		

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	
054	Massachusetts Avenue and Rock Creek Parkway, NW.	09/29/06	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	09/29/06	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	09/29/06	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	09/19/06	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	09/19/06	*		*		*		*		

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

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

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	30	4	12	None			
Eastside	30	2	4	None			
Poplar Point	30	2 [1]	3	Sanitary Pump #1 Screen #1	02/25/06 01/05/06	Seal Water line needs to be connected Screen off track	10/30/06 10/30/06
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.

Table 2-4
Pumping Stations – Preventive Maintenance

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	09/22/06	Group A	Add oil, grease bearings and replace packing if needed.
O St	09/22/06	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	09/21/06	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	09/21/06	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	09/21/06	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	09/21/06	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	09/21/06	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	09/21/06	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

Pumping Station	*Sanitary Pumpage*		*Storm Water/CSO Pumped To Anacostia River*		
	Total Wastewater (mg)	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	2,051.20	68.37	N/A	N/A	N/A
O St[1]	169.20	5.64	9/1/06 9/2/06 9/5/06 9/29/06	93.70 46.60 56.70 11.30	Normal
Eastside	305.60	10.19	N/A	N/A	N/A
Poplar Point	696.60	23.22	N/A	N/A	N/A
Potomac	4,405.90	146.86	N/A	N/A	N/A
Rock Creek	149.10	4.97	N/A	N/A	N/A
Upper Anacostia	56.60	1.89	N/A	N/A	N/A
Earle Place	0.30	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

Date Inspected	*# Screens*	*# Swirls*	*Screens or Swirls Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
09/28/06	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a

Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	*Type of Preventive Maintenance Performed*[1]	*Comments*
09/28/06	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

Date	*Approx. Storm Duration[1] (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume[2] (mg)*	*Approx. Screenings Volume[3] # of bins (cu ft)*
9/1/06	5	4.35	4.35	0	0.15(12)
9/1/06	12	45.77	1.89	43.88	0.55(44)
9/2/06	12	16.0	16.0	0	0.5(40)
9/5/06	9	36.88	1.01	35.87	1.45(116)
9/14/06	2	8.77	0.69	8.08	0.3(24)
9/28/06	10	15.45	0.792	14.65	1.4(112)
9/29/06	3	1.13	1.13	0	0.15(12)

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

Date	*Chlor/ Dechlor System Used?*	*Dosages*		*Residual Chlorine Test Results*		*Enterococcus Test Results*		*Fecal Coliform Test Results*	
		NaOCl (mg/l)	*$NaHSO_3$ (mg/l)*	*Location*	*Conc. (mg/l)*	*Site*	*Count Per 100ml*	*Site*	*Count Per 100ml*
9/01/06	Yes	5	2	Mix Chamber	0.3	Mix Chamber	300,000	Mix Chamber	260,000
9/01/06	Yes	5	2	Anacostia River	0.0	Anacostia River	2,300	Anacostia River	1,700
9/01/06	Yes	5	2	Mix Chamber	0.2	Mix Chamber	54,000	Mix Chamber	57,000
9/01/06	Yes	5	2	Anacostia River	0.0	Anacostia River	57,000	Anacostia River	190,000
9/01/06	Yes	5	2	Mix Chamber	0.2	Mix Chamber	52,000	Mix Chamber	42,000
9/01/06	Yes	5	2	Anacostia River	0.0	Anacostia River	41,000	Anacostia River	49,000
9/01/06	Yes	5	2	Mix Chamber	0.2	Mix Chamber	48,000	Mix Chamber	51,000
9/01/06	Yes	5	2	Anacostia River	0.0	Anacostia River	56,000	Anacostia River	57,000
9/01/06	Yes	5	2	Mix Chamber	0.3	Mix Chamber	35,000	Mix Chamber	45,000
9/01/06	Yes	5	2	Anacostia River	0.0	Anacostia River	25,000	Anacostia River	44,000
9/05/06	Yes	5	2	Mix Chamber	0.2	Mix Chamber	59,000	Mix Chamber	57,000
9/05/06	Yes	5	2	Anacostia River	0.0	Anacostia River	32,000	Anacostia River	43,000
9/14/06	Yes	5	2	Mix Chamber	0.2	Mix Chamber	46,000	Mix Chamber	290,000
9/14/06	Yes	5	2	Anacostia River	0.0	Anacostia River	41,000	Anacostia River	70,900
9/28/06	Yes	5	2	Mix Chamber	0.2	Mix Chamber	56,000	Mix Chamber	49,000
9/28/06	Yes	5	2	Anacostia River	0.0	Anacostia River	42,000	Anacostia River	55,000

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

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

	Flow Composited Sample Results						
Date	*Total suspended solids (mg/L)*	*Nitrite (NO2-N) mg/L*	*Nitrate (NO3-N)) mg/L*	*Total Kjeldahl Nitrogen (mg/L as N)*	*Total Nitrogen (mg/L)*	*Total Phosphorus (mg/L)*	*Carbonaceous Biological Oxygen Demand (mg/L)*
9/01/06	29.0	< 0.05	0.43	1.95	2.38	0.28	15.1
9/05/06	163	< 0.05	0.34	1.68	2.02	0.30	10.1
9/28/06	70.0	< 0.05	0.93	4.27	5.20	0.68	12.5

NOTE:
On September 14, 2006 the storm duration was less than 2 hours. The grab samples for the chlorine residual test were made, however, the storm past before a composite grab was obtained.

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

Inflatable Dam Structure No	*Date Inspected*	*Was Dam Out of Service During the Month?*	*Dates out of Service*	*Reason*	*Schedule to Restore to Service*
14 - East	9/30/06	**No**	**N/A**	**N/A**	**N/A**
14 - West	9/30/06	**No**	**N/A**	**N/A**	**N/A**
15	9/30/06	**No**	**N/A**	**N/A**	**N/A**
15A	9/30/06	**No**	**N/A**	**N/A**	**N/A**
16 - East	9/30/06	**No**	**N/A**	**N/A**	**N/A**
16 - West	9/30/06	**No**	**N/A**	**N/A**	**N/A**
24 – North	9/30/06	**No**	**N/A**	**N/A**	**N/A**
24 - Middle	9/30/06	**No**	**N/A**	**N/A**	**N/A**
24 - South	9/30/06	**No**	**N/A**	**N/A**	**N/A**
34	9/30/06	**No**	**N/A**	**N/A**	**N/A**
35	9/30/06	**No**	**N/A**	**N/A**	**N/A**
52	9/30/06	**No**	**N/A**	**N/A**	**N/A**

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

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	*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

3. DRY WEATHER OVERFLOWS

Dry weather overflows (DWOs), are summarized below:

Table 3-1
Dry Weather Overflows

Location:	
Cause	NO DRY WEATHER OVERFLOW IN SEPTEMBER.
Date/ Time Discovered	
Action Taken	
Date/Time Discharge Ceased	
Estimated Volume (mg)	
Did Overflow Reach Receiving water?	
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:

Table 4-1 Catch Basin Summaries

Ward	*Total CBs*	*CBs in CSS*	*CBs in Anacostia CSS*	*Anacostia CSS Inspections*		*Cleaning*					
				Total CBs Inspected Once this Year	*Total 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	734	2255	1993	73	67	2328	2060
2	4,714	4,112	2,316	2316	1452	5063	3688	178	120	5241	3808
3	3,555	461	-	0	0	4860	1668	20	3	4880	1671
4	2,782	1,985	159	159	159	2266	1219	1464	980	3730	2199
5	2,167	1,035	1,035	1035	597	549	287	657	310	1206	597
6	1,783	1,594	1,594	1594	447	719	443	16	4	735	447
7	2,313	-	-	0	0	2114	0	11	0	2125	0
8	1,278	116	116	116	116	1679	353	21	2	1700	355
WASA Subtotal	**20,183**	**10,871**	**5,954**	**5,954**	**3,505**	**19,505**	**9,651**	**2,440**	**1,486**	**21,945**	**11,137**
DDOT (via VMS) Subtotal				**0**	**0**						**0**
Grand Total	**20,183**	**10,871**	**5,954**	**5,954**	**3,505**			**2,440**	**1,486**	**21,945**	**11,137**
% Cleaned/Inspected to Date				**100%**	**59%**					**>100%**	**>100%**

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

Facility	*Date Inspected*	*Condition*	*Work Needed*	*Work performed*	*Material Removed (CY)*
Netting System CSO 018	9/11/06 9/18/06	Good	Cleared weeds	Net adjusted	L. Net – 40 lbs. R. Net – 40 lbs.
Bar Rack CSO 040	9/11/06	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	6/11/06	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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	20
Days not Operating	5
Reason not Operating	Strong winds and maintenance on boats.
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	None
Dates	N/A
Reason	
Plan to Restore to Service	
Volume Material Collected	20 tons.
Nature of Material	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

Date:09/05/06 **Inspector's Initials: VB**

CSO	Time of Observation	Overflo Y	Overflo N	Observed L	Observed M	Observed H	Quantity of L	Quantity of M	Quantity of H	Quantity of L	Quantity of M	Quantity of H	REMARKS/OTHER
009	8.00 am	X		x									
	10.00 am												
	12.00 noon												
	2.00 pm												
010	8.00 am	X		x									
	10.00 am												
	12.00 noon												
	2.00 pm												
011	8.00 am	x		x									
	10.00 am												
	12.00 noon												
	2.00 pm												
011a	8.00 am												
	10.00 am												
	12.00 noon												
	2.00 pm												
012	8.00 am												
	10.00 am												
	12.00 noon												
	2.00 pm												

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
9/1/2005	1.86	1.97	1.54	1.68
9/2/2005	0.55	0.52	0.6	0.36
9/3/2005	0	0	0	0
9/4/2005	0.01	0.01	0.01	0.01
9/5/2005	1.68	1.64	1.57	1.62
9/6/2005	0	0	0	0
9/7/2005	0	0	0	0
9/8/2005	0	0	0	0
9/9/2005	0		0	0
9/10/2005	0		0	0
9/11/2005	0		0	0.07
9/12/2005	0		0	0
9/13/2005	0		0	0
9/14/2005	0.68		0.25	0.56
9/15/2005	0.01		0.04	0.01
9/16/2005	0.01		0.01	0.01
9/17/2005	0	0	0	0
9/18/2005	0.01	0	0	0
9/19/2005	0	0	0	0
9/20/2005	0	0	0	0
9/21/2005	0	0	0	0
9/22/2005	0	0	0	0
9/23/2005	0	0	0	0
9/24/2005	0	0	0	0
9/25/2005	0	0	0	0
9/26/2005	0	0	0	0
9/27/2005	0	0	0	0
9/28/2005	1.03	0.73	0.32	0.71
9/29/2005	0	0	0	0
9/30/2005	0	0	0	0
Total	5.84	4.87	4.34	5.03

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: July, August, September 2006
SCENARIO: Q3_Y2006, 10-23-06

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	11	4.7	46.3	4.2	9.8	1.0
006	Good Hope Road, West of Nichols Ave.,SE	1	0.0	0.3	0.3	0.3	0.3
007	13th Street and Ridge Place,SE	11	10.2	33.3	3.0	7.5	0.3
009	2nd Street, 300 feet North of N Place, SE	9	4.7	28.8	3.2	7.8	0.3
010	O Street SewagePumping Station, SE (pumped Overflow)	5	243.7	26.5	5.3	17.3	0.8
011	South of Main Sewage Pumping Station, SE (pumped overflow)	0	0.0	0.0	0.0	0.0	0.0
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)	2	9.3	2.8	1.4	2.0	0.8
013	4th and N Streets, SE	7	1.6	13.8	2.0	4.0	0.5
014	6th and M Streets, SE	9	11.6	33.0	3.7	8.5	0.8
015	9th and M Streets, SE	4	0.2	5.0	1.3	2.0	0.8
016	12th and M Streets, SE	6	4.6	12.8	2.1	4.0	0.5
017	14th and M Streets, SE	7	5.5	13.3	1.9	4.0	0.8
018	Barney Circle andPennsylvania Ave, SE	7	1.2	12.5	1.8	4.0	0.5
019	Northeast Boundary - Swirl Effluent	7	213.9	39.0	5.6	19.3	1.3
019	Northeast Bound. - Swirl Bypass	3	36.4	4.8	1.6	2.8	0.3
	SUBTOTAL		**548**				
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)	7	22.2	10.0	1.4	3.5	0.5
021	Northeast ofRoosevelt Bridge, NW	7	159.4	30.8	4.4	17.3	0.8
022	27th and K Streets, NW	7	15.4	16.3	2.3	4.5	0.8
024	30th and K Streets, NW	6	15.2	16.5	2.8	5.0	0.8
025	31st & K St NW	3	0.0	3.3	1.1	1.8	0.5
026	Wisconsin Avenue andK St., NW	0	0.0	0.0	0.0	0.0	0.0
027	Water Street West ofStreet, NW	11	12.8	64.3	5.8	28.0	0.3
028	36th and M Streets, NW	3	0.2	3.3	1.1	2.0	0.3
029	Canal Road 1000 feet east of Rock Creek,NW	8	7.4	34.8	4.3	10.3	1.3
	SUBTOTAL		**232**				
Rock Creek							
031	Pennsylvania Avenue, East Rock Creek, NW	2	0.1	4.8	2.4	3.0	1.8
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	2	2.3	2.8	1.4	1.8	1.0
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	7	0.7	11.3	1.6	4.3	0.5
037	Northwest of Belmontand Rock Creek and Potomac Parkway	1	0.0	0.5	0.5	0.5	0.5
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: July, August, September 2006
SCENARIO: Q3_Y2006, 10-23-06

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	1	0.0	0.5	0.5	0.5	0.5
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	7	12.7	10.5	1.5	4.0	0.8
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	0.7	3.8	1.3	2.3	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 26th St, NW	0	0.0	0.0	0.0	0.0	0.0
	SUBTOTAL		**17**				
	TOTAL		**797**				

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