QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

FIRST QUARTER 2006

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 SystemMonth: January 2006

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

Monthly Operations Report for Combined Sewer System Month: January, 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

		Associated NPDES	Date	(Condition		
Struct No.	Location	Associated NFDES Outfall	Inspected	Cood	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW		01/24/06	*		Work Ivected	work perjormed
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	01/24/06	*			
		003	<u> </u>				
5	Poplar Point Pumping Station	004	1/19/06	*			
6	Chicago Street and Railroad Ave, SE	005	01/03/06	*			
7	W Street and Railroad Ave, SE	005	01/03/06	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	01/03/06	*			
9	13 th Street and Ridge Place, SE	007	01/03/06	*			
11	"O" Street Pumping Station	011(a)	01/19/06	*			
12	Storm Pump Discharge at Main Pumping Station	011	01/19/06	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	01/17/06	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	01/19/06	*			
15	South Capitol and E Streets	010	01/26/06	*			
15a	Half and L Streets, SE	010	01/26/06	*			
15b	South Capitol and I Streets	010	01/23/06	*			
15c	South Capitol and I Streets	010	01/23/06	*			
16	North of Main Sewage Pumping Station	012	01/19/06	*			
17	4 th and N Streets, SE, Both Extended	013	01/04/06	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	01/24/06	*			
18	6 th and M Streets, SE	014	01/04/06	*			
19	9 th and M Streets, SE	015	01/04/06	*			
19a	9 th and M Streets, SE	015	01/04/06	*			
20	12 th and M Streets, SE	016	01/04/06	*			
20a	12 th and M Streets, SE	016	01/04/06	*			
21	14 th and M Streets, SE	017	01/05/06	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	01./09/06	*			

		A LAND EG	ъ.	(Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	 Work performed
22b	Barney Circle and Pennsylvania Ave, SE	018	01/09/06	*			1 3
22c	Barney Circle and Pennsylvania Ave, SE	018	01/09/06	*			
22d	Kentucky Ave and Potomac Street, SE	018	01/04/06	*			
22e	14 th Street and Kentucky Ave, SE	018	01/04/06	*			
23	Independence Ave, 21 st Street, SE, Extended	019	01/11/06	*			
24a	East Capitol St, west of RFK stadium	019	01/31/06	*			
28	21st and Constitution Ave, NW	020	01/31/06	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	01/31/06	*			
30	17 th and D Streets, NW	020	01/06/06	*			
31	15 th Street and Pennsylvania Ave, NW	020	01/10/06	*			
33	10 th and F Streets, NW	020	01/10/06	*			
34	23 rd Street, north of Constitution Ave, NW	020	01/26/06	*			
34a	23 rd Street near C Street, NW	020	01/31/06	*			
35	Northeast of Roosevelt Bridge, NW	021	01/26/06	*			
36	27 th and I Streets, NW	022	01/10/06	*			
36a	New Hampshire Ave and Eye Street, NW	022	01/10/06	*			
36b	19 th and L Streets, NW	022, 034	01/10/06	*			
36d	17 th and L Streets, NW	022, 034	01/10/06	*			
36g	18 th and M Streets, NW	022, 034	01/10/06	*			
36h	18 th and M Streets, NW	022, 034	01/10/06	*			
37	27 th and Eye Streets, NW	022	01/10/06	*			
38	29 th and K Streets, NW	024	01/04/06	*			
38a	30 th Street, south of K Street, NW	024	01/04/06	*			
39a	30 th and K Streets, NW	024	01/04/06	*			
39b	30 th and K Streets, NW	024	01/04/06	*			
41b	31st and K Streets, NW	025	01/23/06	*			
41c	31st and K Streets, NW	025	01/23/06	*			
42	Wisconsin Ave and K Street, NW	026	01/10/06	*			

		A INDDEG	D. ((Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
43	Potomac and Water Streets, NW	027	01/10/06	*			
43a	Potomac and Water Streets, NW	027	01/10/06	*			
44	Water Street, west of Potomac St, NW	027	01/10/06	*			
45	36 th and M Streets, NW	028	01/10/06	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	01/03/06	*			
47	38 th Street and Reservoir Road, NW	029	01/03/06	*			
47a	37 th and T Streets, NW	029	01/03/06	*			
47b	37 th and T Streets, NW	029	01/03/06	*			
47c	38 th and W Streets, NW	029	01/03/06	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	01/13/06	*			
50	26 and M Streets, NW	032	01/13/06	*			
51	N Street Extended, west of 25 th Street, NW	033	01/13/06	*			
52	22 nd Street between M and N Streets, NW	034	01/26/06	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	01/23/06	*			
53	22 nd and M Streets, NW	022, 034	01/23/06	*			
53a	22 nd and M Streets, NW	022, 034	01/23/06	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	01/23/06	*			
53c	L and 22 nd Streets, NW	022	01/23/06	*			
54	23 rd and O Streets, NW	034	01/23/06	*			
55	22 nd Street, south of Q Street, NW	035	01/09/06	*			
55a	22 nd Street, south of Q Street, NW	035	01/09/06	*			
56	23 rd and Massachusetts Ave, NW	036	01/09/06	*			
57	23 rd Street, south of Q Street, NW	036	01/09/06	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	01/12/06	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	01/12/06	*			
60	Connecticut Ave, east of Rock Creek, NW	039	01/05/06	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	01/05/06	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	01/20/06	*			

		Associated NPDES	Date	(Condition		
Struct No.	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
63	Harvard Street and Rock Creek Parkway, NW	042	01/20/06	*			
64	Adams Mill Road, south of Irving Street, NW	043	01/20/06	*			
65	Kenyon Street and Adams Mill Road, NW	044	01/20/06	*			
65a	Kenyon Street and Adams Mill Road, NW	044	01/20/06	*			
66	Adams Mill Road and Lamont Street, NW	045	01/20/06	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	01/20/06	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	01/20/06	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	01/20/06	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	01/20/06	*			
70i	5 th and Quackenbos Streets, NW	049	01/05/06	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	01/04/06	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	01/09/06	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	01/09/06	*			
73	O Street Extended and Rock Creek Parkway, NW	052	01/09/06	*			
74	Q Street, west of Rock Creek, NW	053	01/09/06	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	01/27/06	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	01/27/06	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	01/27/06	*			
78	28th Street Extended, west of Rock Creek, NW	057	01/27/06	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	01/05/06	*			
84	26 th and P Streets, NW	060	01/09/06	*			
84a	26 th and P Streets, NW	060	01/09/06	*			

- 1. For regulators noted as "visually checked outfall", the outfall was visually observed to confirm no DWO was occurring.
- 2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

2.2 Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Table 2 - Outfalls and Tide Gates

				Dutfall	Tide		Tide G			ago a:	
NPDES		Date	Co	ndition	Pres	ent?	Condit	ondition		CSO Sign	
Outfall	Location	Date Inspected	OIZ	Needs	3 7	NT.	OV	Needs	OIZ	NT 1. XX71.	Notes, Work Needed or Performed
Ouijan		търсстей	OK	Work	Yes	No	OK	Work	OK	Needs Work	Troics, Work recued or 1 erjormed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	01/24/06	*		*		*		*		
	Across from Navy Yard, aligned with Parsons										
005	Ave., SE	01/05/06	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	01/05/06	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	01/05/06	*		*		*		*		
009	O St. Sewage Pumping Station, SE	01/31/06	*		*		*		*		
010	O St. Sewage Pumping Station, SE	01/31/06	*			*			*		
011	Main Sewage Pumping Station, SE	01/31/06	*			*			*		
011(a)	Main Sewage Pumping Station, SE	01/31/06	*		*		*		*		
012	Main Sewage Pumping Station, SE	01/31/06	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	01/04/06	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	01/05/06	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	01/05/06	*			*			*		
016	12th and O Streets, SE	01/05/06	*		*		*		*		
017	M and Water Street, SE	01/05/06	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	01/05/06	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	01/31/06	*			*			*		
020	Rock Creek Parkway and Independence, NW	01/12/06	*		*		*		*		
021	Rock Creek Parkway and C St., NW	01/12/06	*			*			*		
	Rock Creek Parkway and G St., NW	01/12/06	*		*		*		*		

NPDES		D 4 -		Outfall ondition		Gate sent?	Tide C Condi	tion		CSO Sign	
Outfall	Location	Date Inspected	OK	Needs Work	Yes	No	OK	Needs Work		Needs Work	Notes, Work Needed or Performed
024	South of 30 th and K Streets, NW	01/12/06	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
025	South of 31st and K Streets, NW	01/12/06	*		*		*		*		•
026	Wisconsin Avenue and Water Street, NW	01/12/06	*		*		*		*		
027	33 rd and Water Sts., NW	01/12/06	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	01/12/06	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	01/12/06	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	01/13/06	*			*			*		
032	26th and M Street, NW.	01/13/06	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	01/13/06	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	01/23/06	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	01/23/06	*		*		*		*		
036	22nd Street, South of Q Street NW.	01/19/06	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	01/12/06	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	01/12/06	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	01/05/06	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	01/05/06	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	01/12/06	*		*		*		*		
042	Harvard St. and Beach Dr NW.	01/12/06	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	01/12/06	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	01/12/06	*		*		*		*		

				Outfall ondition		Gate sent?	Tide C Condi			CSO Sign	
NPDES		Date		Needs	1700	cni.	Conan	Needs		CBO Bign	
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work		Needs Work	Notes, Work Needed or Performed
045	North of Beach Dr. and Walbridge Pl, NW.	01/12/06	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	01/20/06	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	01/20/06	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	01/20/06	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	01/20/06	*		*		*		*		
050	Rock Creek Parkway and L St., NW	01/04/06	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.		*		*		*		*		
		01/04/06									
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	01/04/06	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	01/19/06	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	01/27/06	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	01/27/06	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	01/27/06	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	01/05/06	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	01/19/06	*		*		*		*		

1. Outfall is submerged and not visible. CSO is performing acceptably as evidenced by lack of capacity/flooding issues associated with pipe.

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 Out of			
Station	Inspections	Screens	Pumps	Service	Dates	Reason	Schedule to Restore to Service
Main	31	4	12	Screen #4	12/01/05	Out of alignment	04/30/06
				Sanitary Pump #2	12/01/05	Needs packing Sleeve	04/30/06
				Screen #1	01/05/06	Screen off track	04/30/06
Eastside	31	2	4	Sanitary Pump #3	12/20/05	Motor leaking oil	02/28/06
Poplar Point	31	2 1	3	Sanitary Pump #1	12/04/05	Mechanical seal needs to be replaced	01/31/06
					01/05/06	Screen off track	04/30/06
				Screen #2	12/03/06	Screen off track and motor fell off	04/30/06
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

		Tumping Stations Treventer	
		Type of Preventive Maintenance	
Pumping Station	Date Performed	Performed ¹	Comments
Main	1/19/06	Group A	Add oil, grease bearings and replace packing if needed.
O St	1/19/06	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	1/19/06	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	1/19/06	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	1/19/06	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	1/19/06	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	1/19/06	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	1/19/06	Group A	Add oil, grease bearings and replace packing if needed.

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

		1 umping 5	tations I ump	uge	
	Sanitary	Pumpage	Storm	Water/CSO Pumped T	o Anacostia River
	Total	Daily Average			Screenings Collected
Pumping Station	Wastewater (mg)	Wastewater (mg)	Date	Volume (mg)	(units)
Main	1,988.10	64.13	N/A	N/A	N/A
O St ¹	178.90	5.77	01/23/06	24.8	Normal
Eastside	219.40	7.08	N/A	N/A	N/A
Poplar Point	472.70	15.25	N/A	N/A	N/A
Potomac	4,506.50	145.37	N/A	N/A	N/A
Rock Creek	211.20	6.81	N/A	N/A	N/A
Upper Anacostia	53.60	1.73	N/A	N/A	N/A
Earle Place	0.47	0.02	N/A	N/A	N/A

^{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	#		Screens or Swirls			
Inspected	Screens	# Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service
1/26/06	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
1/26/06	Group A	

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

			1		
	Approx. Storm				Approx. Screenings
	$Duration^{I}$	Total Influent	Total Foul Sewer	Total Effluent	Volume ³
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)
1/2/2006	6	4.83	4.83	0	0.35(28)
1/11/06	7	6.88	4.84	2.03	0.55(44)
1/15/06	8	10.47	10.47	0	0.80(64)
1/18/06	10	15.48	6.13	9.35	0.45(36)
1/23/06	16	24.88	4.80	20	0.50(40)
1/31/06	8	3.9	3.9	0	0.25(20)

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

	Chlor/			Residual Chlorine Test						
	Dechl	Do	sages	Results		Enterococcus Tes	Enterococcus Test Results		Fecal Coliform Test Results	
	or									
	Syste						Count		Count	
	m	NaOCl	$NaHSO_3$		Conc.		Per		Per	
Date	Used?	(mg/l)	(mg/l)	Location	(<i>mg/l</i>)	Site	100ml	Site	100ml	
1/11/06	Yes	5	2	Mix Chamber	0.5	Mix Chamber	310,000	Mix Chamber	410,000	
1/11/06	Yes	5	2	Anacostia River	0.1	Anacostia River	330,000	Anacostia River	530,000	
1/18/06	Yes	5	2	Mix Chamber	1.1	Mix Chamber	460	Mix Chamber	63	
1/18/06	Yes	5	2	Anacostia River	0.4	Anacostia River	3,300	Anacostia River	18	
1/23/06	Yes	5	2	Mix Chamber	0.4	Mix Chamber	58,000	Mix Chamber	43,000	
1/23/06	Yes	5	2	Anacostia River	0.0	Anacostia River	36,000	Anacostia River	49,000	

Mix Chr.: Mixing Chamber
 River: River Outfall

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

		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)					
1/11/06	145	0.23	0.70	5.56	6.49	0.98	48.2					
1/18/06	38.0	0.06	0.41	1.86	2.33	0.45	15.3					
1/23/06	68.0	< 0.05	0.42	3.65	4.07	0.50	15.4					

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		Was Dam Out of Service			Schedule to Restore to
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Service
14 - East	1/26/06	No	N/A	N/A	N/A
14 - West	1/26/06	No	N/A	N/A	N/A
15	1/26/06	No	N/A	N/A	N/A
15A	1/26/06	No	N/A	N/A	N/A
16 - East	1/26/06	No	N/A	N/A	N/A
16 - West	1/26/06	No	N/A	N/A	N/A
24 - North	1/26/06	No	N/A	N/A	N/A
24 - Middle	1/26/06	No	N/A	N/A	N/A
24 - South	1/26/06	No	N/A	N/A	N/A
34	1/26/06	No	N/A	N/A	N/A
35	1/26/06	No	N/A	N/A	N/A
52	1/26/06	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	1/23/06	0.08
	1/23/06	4min 29sec
15A	1/3/06	47min 01sec
	1/14/06	3min 03sec
16 (E & W)	1/14/06	3min 29sec
	1/23/06	13min 44sec
24	None	N/A
34	None	N/A
35	1/14/06	9min 37sec
	1/18/06	21min 56sec
	1/23/06	11min 37sec
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 at Combined Sewer Outfalls

213 ((0000000000000000000000000000000000	nows at complica bewer outlans
Location:	
Cause	
Date/ Time Discovered	
Action Taken	NONE
Date/Time Discharge Ceased	
Estimated Volume (mg)	
Did Overflow Reach Receiving water?	
Action taken to prevent reoccurrence	

Sanitary Sewer Overflow

Sulli	dary bewer overnow
Location:	46 th and Grant Streets, N.E.
	On 1/7/06, a WASA contractor installed a by-pass pumping operation to
Cause	facilitate repairs on a 21-inch sanitary sewer crossing Watts Branch creek. On
	1/16/06, the pump was found shut-off causing waste to spill into the creek.
Date/ Time Discovered	01/16/06 at 11:02 a.m.
Action Taken	WASA contractor restarted the pump and completed the sewer repair.
Date/Time Discharge Ceased	1/17/06 at 7:45 a. m.
Estimated Volume (mg)	Unknown
Did Overflow Reach Receiving water?	Yes, Watts Branch
_	The sewer repair was completed and by-pass pumping stopped. A SOP
	providing more effective monitoring and security for by-pass pumping was
Action taken to prevent reoccurrence	established.

4. SOLIDS AND FLOATABLES CONTROL

4.1 Catch Basin CleaningThe following tables summarize catch basin cleaning in the Anacostia CSO area and in the entire sewer system:

Table 4-1 Catch Basin Summaries

				Inspe	ections		Cleaning				
		CBs in	CBs in Anacostia	Total CBs Inspected Once this	Total CBs Inspected Twice this	CBs C Last			eaned this		s Cleaned r to Date
Ward	Total CBs	CSS	CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	13	0	2571	2495	27	27	27	27
2	4,714	4,112	2,316	23	0	2871	2420	42	42	42	42
3	3,555	461	-	0	0	5162	1319	139	0	139	0
4	2,782	1,985	159	123	0	4493	2417	186	166	186	166
5	2,167	1,035	1,035	18	0	2776	1323	18	18	18	18
6	1,783	1,594	1,594	159	0	1468	1206	159	159	159	159
7	2,313	-	-	0	0	925	0	1492	0	1492	0
8	1,278	116	116	116	0	685	215	342	116	342	116
WASA Subtotal	20,183	10,871	5,954	452	0	20,951	11,395	2,405	528	2,405	528
DDOT (via VMS) Subtotal				0	0			0	0	0	0
Grand Total	20,183	10,871	5,954	452	0			2,405	528	2,405	528
% Cleaned/Inspected to Date				7%	0%					12%	5%

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 Netting System CSO 018	Date Inspected 1/4/06 1/23/06	Condition Good	Work Needed Minor Maintenance	Work performed Nets emptied.	Material Removed (CY) 200 lbs.
Bar Rack CSO 040	1/5/06	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	1/12/06	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:	19
Days not Operating	5
Reason not Operating	Strong winds
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One
Dates	8/17/05 to present
Reason	Skimmer removed from the water for comprehensive PM.
Plan to Restore to Service	As soon as possible.
Volume Material Collected	60 ton.
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:											lı	nspector's Initials:
		Ove	rflow	Ol	Observed			Quantity of Quantity of			ntity c	f	
cso	Time of Observa tion	Y	N	L	M	Н	L	M	Н	L	M	Н	REMARKS/OTHER
009													
010				NC	NC	<u>E</u>							
011													
011a													
012													

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

5.2 Rain Data
 Rain data from National Airport and from the rain gauges installed in the CSS are summarized below.
 Table 5-2 Rainfall Data (inches)
 Monthly Rain Totals

Date	Brentwood Reservoir		Bryant St PS	Main PS	Rock Creek PS
1/1/20	06	0	0.01	0	0
1/2/20	06	0.39	0.25	0.27	0.23
1/3/20	06	0.03	0.13	0.08	0.08
1/4/20	06	0	0	0	0
1/5/20	06	0	0	0	0
1/6/20	06	0.01	0	0	0
1/7/20	06	0	0	0	0
1/8/20	06	0	0	0	0
1/9/20	06	0	0	0	0
1/10/20	06	0	0	0	0
1/11/20	06	0.28	0.18	0	0.22
1/12/20	06	0	0.01	0	0
1/13/20	06	0	0	0.17	0
1/14/20	06	0.53	0.5	0.01	0.46
1/15/20	06	0	0	0	0
1/16/20	06	0	0	0.43	0
1/17/20	06	0	0	0	0
1/18/20	06	0.58	0.51	0	0.56
1/19/20	06	0	0	0	0
1/20/20	06	0	0	0.49	0
1/21/20	06	0	0	0	0
1/22/20	06	0.28	0.18	0	0.17
1/23/20	06	1.08	0.84	0	0.71
1/24/20	06	0.02	0.03	0.19	0.01
1/25/20	06	0	0	0	0
1/26/20	06	0	0	0	0
1/27/20	06	0	0	0	0
1/28/20	06	0	0	0	0
1/29/20	06	0.01	0.02	0.01	0.02
1/30/20	06	0	0	0	0

1/31/2006	0.27	0.29	0.24	0.34
<u>Total</u>	3.48	2.95	1.89	2.8

2



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Serving the Public • Protecting the Environment

Monthly Operations Report For Combined Sewer System

Month: February 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: February, 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

		Aggoriated NRDES	Data	Condition			
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	02/07/06	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	02/07/06	*			
5	Poplar Point Pumping Station	004	02/09/06	*			
6	Chicago Street and Railroad Ave, SE	005	02/10/06	*			
7	W Street and Railroad Ave, SE	005	02/10/06	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	02/10/06	*			
9	13 th Street and Ridge Place, SE	007	02/10/06	*			
11	"O" Street Pumping Station	011(a)	02/09/06	*			
12	Storm Pump Discharge at Main Pumping Station	011	02/09/06	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	02/06/06	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	02/09/06	*			
15	South Capitol and E Streets	010	02/09/06	*			
15a	Half and L Streets, SE	010	02/09/06	*			
15b	South Capitol and I Streets	010	02/09/06	*			
15c	South Capitol and I Streets	010	02/09/06	*			
16	North of Main Sewage Pumping Station	012	02/09/06	*			
17	4 th and N Streets, SE, Both Extended	013	2/23/06	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	02/23/06	*			
18	6 th and M Streets, SE	014	02/01/06	*			
19	9 th and M Streets, SE	015	02/06/06	*			
19a	9 th and M Streets, SE	015	02/06/06	*			
20	12 th and M Streets, SE	016	02/06/06	*			
20a	12 th and M Streets, SE	016	02/06/06	*			
21	14 th and M Streets, SE	017	02/14/06	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	02/13/06	*			

		A LUDDEG	ъ.	Condition			
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
22b	Barney Circle and Pennsylvania Ave, SE	018	02/13/06	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	02/13/06	*			
22d	Kentucky Ave and Potomac Street, SE	018	02/07/06	*			
22e	14 th Street and Kentucky Ave, SE	018	02/07/06	*			
23	Independence Ave, 21 st Street, SE, Extended	019	02/06/06	*			
24a	East Capitol St, west of RFK stadium	019	02/06/06	*			
28	21 st and Constitution Ave, NW	020	02/18/06	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	02/14/06	*			
30	17 th and D Streets, NW	020	02/06/06	*			
31	15 th Street and Pennsylvania Ave, NW	020	02/06/06	*			
33	10 th and F Streets, NW	020	02/06/06	*			
34	23 rd Street, north of Constitution Ave, NW	020	02/14/06	*			
34a	23 rd Street near C Street, NW	020	02/14/06	*			
35	Northeast of Roosevelt Bridge, NW	021	02/14/06	*			
36	27 th and I Streets, NW	022	02/17/06	*			
36a	New Hampshire Ave and Eye Street, NW	022	02/17/06	*			
36b	19 th and L Streets, NW	022, 034	02/03/06	*			
36d	17 th and L Streets, NW	022, 034	02/03/06	*			
36g	18 th and M Streets, NW	022, 034	02/03/06	*			
36h	18 th and M Streets, NW	022, 034	02/03/06	*			
37	27 th and Eye Streets, NW	022	02/17/06	*			
38	29 th and K Streets, NW	024	02/10/06	*			
38a	30 th Street, south of K Street, NW	024	02/13/06	*			
39a	30 th and K Streets, NW	024	02/10/06	*			
39b	30 th and K Streets, NW	024	02/10/06	*			
41b	31st and K Streets, NW	025	02/10/06	*			
41c	31st and K Streets, NW	025	02/10/06	*			
42	Wisconsin Ave and K Street, NW	026	02/10/06	*			

		A LANDEG	D. (Condition			
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
43	Potomac and Water Streets, NW	027	02/13/06	*			
43a	Potomac and Water Streets, NW	027	02/13/06	*			
44	Water Street, west of Potomac St, NW	027	02/13/06	*			
45	36 th and M Streets, NW	028	02/17/06	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	02/08/06	*			
47	38 th Street and Reservoir Road, NW	029	02/08/06	*			
47a	37 th and T Streets, NW	029	02/08/06	*			
47b	37 th and T Streets, NW	029	02/08/06	*			
47c	38 th and W Streets, NW	029	02/08/06	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	02/08/06	*			
50	26 and M Streets, NW	032	02/08/06	*			
51	N Street Extended, west of 25 th Street, NW	033	02/14/06	*			
52	22 nd Street between M and N Streets, NW	034	02/14/06	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	02/14/06	*			
53	22 nd and M Streets, NW	022, 034	02/17/06	*			
53a	22 nd and M Streets, NW	022, 034	02/17/06	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	02/13/06	*			
53c	L and 22 nd Streets, NW	022	02/13/06	*			
54	23 rd and O Streets, NW	034	02/07/06	*			
55	22 nd Street, south of Q Street, NW	035	02/13/06	*			
55a	22 nd Street, south of Q Street, NW	035	02/13/06	*			
56	23 rd and Massachusetts Ave, NW	036	02/13/06	*			
57	23 rd Street, south of Q Street, NW	036	02/07/06	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	02/06/06	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	02/06/06	*			
60	Connecticut Ave, east of Rock Creek, NW	039	02/08/06	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	02/08/06	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	02/16/06	*			

		Associated NPDES	Date	Condition			
Struct No.	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
63	Harvard Street and Rock Creek Parkway, NW	042	02/15/06	*			
64	Adams Mill Road, south of Irving Street, NW	043	02/15/06	*			
65	Kenyon Street and Adams Mill Road, NW	044	02/15/06	*			
65a	Kenyon Street and Adams Mill Road, NW	044	02/15/06	*			
66	Adams Mill Road and Lamont Street, NW	045	02/15/06	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	02/15/06	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	02/15/06	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	02/15/06	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	02/15/06	*			
70i	5 th and Quackenbos Streets, NW	049	02/06/06	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	02/17/06	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	02/07/06	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	02/07/06	*			
73	O Street Extended and Rock Creek Parkway, NW	052	02/07/06	*			
74	Q Street, west of Rock Creek, NW	053	02/07/06	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	02/07/06	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	02/07/06	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	02/08/06	*			
78	28th Street Extended, west of Rock Creek, NW	057	02/08/06	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	02/02/06	*			
84	26 th and P Streets, NW	060	02/07/06	*			
84a	26 th and P Streets, NW	060	02/07/06	*			

- 1. For regulators noted as "visually checked outfall", the outfall was visually observed to confirm no DWO was occurring.
- 2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

2.2 Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Table 2 - Outfalls and Tide Gates

				Outfall Ondition		Gate sent?	Tide G Condit		CSO Sign		
NPDES		Date		Needs	1705	iciii.		Needs		eso sign	
Outfall	Location	Inspected	OK	Work	Yes	No			ОК	Needs Work	Notes, Work Needed or Performed
	Bolling Air Force Base, at Giavanolli and										
003	Chanute, SW	02/07/06	*		*		*		*		
	Across from Navy Yard, aligned with Parsons	0.0.0.0.0									
005	Ave., SE	02/02/06	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	02/02/06	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	02/02/06	*		*		*		*		
009	O St. Sewage Pumping Station, SE	02/08/06	*		*		*		*		
010	O St. Sewage Pumping Station, SE	02/09/06	*			*			*		
011	Main Sewage Pumping Station, SE	02/09/06	*			*			*		
011(a)	Main Sewage Pumping Station, SE	02/09/06	*		*		*		*		
012	Main Sewage Pumping Station, SE	02/09/06	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	02/23/06	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	02/23/06	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	02/23/06	*			*			*		
016	12th and O Streets, SE	02/23/06	*		*		*		*		
017	M and Water Street, SE	02/23/06	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	02/23/06	*		*		*		*		
	Adjacent to Service Drive behind swirl facility										
019	and D.C. General Hospital	02/09/06	*			*			*		
020	Rock Creek Parkway and Independence, NW	02/16/06	*		*		*		*		
021	Rock Creek Parkway and C St., NW	02/16/06	*			*			*		
022	Rock Creek Parkway and G St., NW	02/16/06	*		*		*		*		

				Outfall		Gate sent?	Tide G Condi			CCO C:	
NPDES		Date	Ca	ondition	Pres	sent?	Condi			CSO Sign	
Outfall	Location	Inspected	OK	Needs Work	Yes	No	OK	Needs Work	ок	Needs Work	Notes, Work Needed or Performed
024	South of 30 th and K Streets, NW	02/23/06	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
025	South of 31st and K Streets, NW	02/25/00	*		*		*		*		репоппанее.
-	· ·		*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	02/16/06			*		*		-		
027	33 rd and Water Sts., NW	02/16/06	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	02/16/06	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	02/16/06	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	02/16/06	*			*			*		
032	26th and M Street, NW.	02/08/06	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	02/07/06	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	02/07/06	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	02/07/06	*		*		*		*		
036	22nd Street, South of Q Street NW.	02/08/06	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	02/07/06	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	02/06/06	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	02/08/06	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	02/08/06	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	02/23/06	*		*		*		*		
042	Harvard St. and Beach Dr NW.	02/23/06	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	02/23/06	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	02/23/06	*		*		*		*		

		_		Outfall ondition	Tide Pres	Gate sent?	Tide G Condi			CSO Sign	
NPDES Outfall	Location	Date Inspected	ОК	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	Notes, Work Needed or Performed
045	North of Beach Dr. and Walbridge Pl, NW.	02/23/06	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	02/15/06	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	02/15/06	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	02/.15/06	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	02/15/06	*		*		*		*		
050	Rock Creek Parkway and L St., NW	02/17/06	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.		*		*		*		*		
		02/02/06									
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	02/02/06	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	02/06/06	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	02/08/06	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	02/08/06	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	02/06/06	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	02/02/06	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	02/02/06	*		*		*		*		

1. Outfall is submerged and not visible. CSO is performing acceptably as evidenced by lack of capacity/flooding issues associated with pipe.

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

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

	Tumping 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	28	4	12	Screen #4	12/01/05	Out of alignment	04/30/06					
				Sanitary Pump #2	12/01/05	Needs packing Sleeve	04/30/06					
				Screen #1	01/05/06	Screen off track	04/30/06					
Eastside	28	2	4	Sanitary Pump #3	12/20/05	Motor leaking oil	02/28/06					
				Sanitary Pump #1	12/20/05	Motor needs to be replaced	04/30/06					
Poplar Point	28	2 1	3	Sanitary Pump #1	02/25/06	Seal Water line needs to be connected	04/30/06					
				Screen #1	01/05/06	Screen off track	04/30/06					
				Screen #2	12/03/06	Screen off track and motor fell off	04/30/06					
Potomac	28	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

Tumping Stations Treventive Humberlance										
		Type of Preventive Maintenance								
Pumping Station	Date Performed	Performed ¹	Comments							
Main	2/21/06	Group A	Add oil, grease bearings and replace packing if needed.							
O St	2/21/06	Group A	Add oil, grease bearings and replace packing if needed.							
Eastside	2/21/06	Group A	Add oil, grease bearings and replace packing if needed.							
Poplar Point	2/21/06	Group A	Add oil, grease bearings and replace packing if needed.							
Potomac	2/21/06	Group A	Add oil, grease bearings and replace packing if needed.							
Rock Creek	2/21/06	Group A	Add oil, grease bearings and replace packing if needed.							
Upper Anacostia	2/21/06	Group A	Add oil, grease bearings and replace packing if needed.							
Earle Place	2/21/06	Group A	Add oil, grease bearings and replace packing if needed.							

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Issue work order requests as required

Table 2-5
Pumping Stations – Pumpage

		I umping bu	mons i unipag	5 *	
	Sanitary	Pumpage	Storm W	Vater/CSO Pumped To	Anacostia River
	Total	Daily Average			Screenings Collected
Pumping Station	Wastewater (mg)	Wastewater (mg)	Date	Volume (mg)	(units)
Main	2,051.10	73.25	N/A	N/A	N/A
O St ¹ 149.40 5.34		5.34	N/A	None	Normal
Eastside	142.60	5.09	N/A	N/A	N/A
Poplar Point	462.60	16.52	N/A	N/A	N/A
Potomac	4,159.30	148.55	N/A	N/A	N/A
Rock Creek	100.60	3.59	N/A	N/A	N/A
Upper Anacostia	49.60	1.77	N/A	N/A	N/A
Earle Place	0.26	0.01	N/A	N/A	N/A

^{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	#		Screens or Swirls			
Inspected	Screens	# Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service
02/20/06	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
02/24/06	Group A	

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

	Approx. Storm Duration ¹	Total Influent	Total Foul Sewer	Total Effluent	Approx. Screenings Volume ³
Date	(Hours)	Volume (mg)	Volume (mg)	Volume² (mg)	# of bins (cu ft)
2/4/06	10	29.959	25.323	4.637	2.25(180)
2/5/06	1	0.658	0.658	0	0.10(8)
2/12/06	4	24.975	24.975	0	0.20(16)
2/12/06	3	0.734	0.734	0	0.15(12)
2/22/06	7	40.08	24.172	15.908	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

	Chlor/			Residual Chlorii	ne Test				
	Dechl	Do	sages	Results		Enterococcus Tes	t Results	Fecal Coliform Test Results	
	or								
	Syste						Count		Count
	m	NaOCl	$NaHSO_3$		Conc.		Per		Per
Date	Used?	(mg/l)	(mg/l)	Location	(mg/l)	Site	100ml	Site	100ml
2/04/06	Yes	5	2	Mix Chamber	0.1	Mix Chamber	6,540	Mix Chamber	17,300
2/04/06	Yes	5	2	Anacostia River	0.0	Anacostia River	11,800	Anacostia River	3,000
2/04/06	Yes	5	2	Mix Chamber	0.0	Mix Chamber	5,400	Mix Chamber	2,500
2/04/06	Yes	5	2	Anacostia River	0.0	Anacostia River	6,360	Anacostia River	3,600
02/22/06	Yes	5	2	Mix Chamber	2.5	Mix Chamber	36	Mix Chamber	18
02/22/06	Yes	5	2	Anacostia River	0.1	Anacostia River	4,800	Anacostia River	290

<u>Notes:</u> 1. Mix Chr.: Mixing Chamber River: River Outfall 2.

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

	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)		
2/04/06	121	< 0.05	0.93	3.82	4.75	0.74	39.3		
2/22/06	52.0	0.39	0.11	14.2	14.7	2.00	59.6		

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		Was Dam Out of Service			Schedule to Restore to
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Service
14 - East	02/25/06	No	N/A	N/A	N/A
14 - West	02/25/06	No	N/A	N/A	N/A
15	02/25/06	No	N/A	N/A	N/A
15A	02/25/06	No	N/A	N/A	N/A
16 - East	02/25/06	No	N/A	N/A	N/A
16 - West	02/25/06	No	N/A	N/A	N/A
24 - North	02/25/06	No	N/A	N/A	N/A
24 - Middle	02/25/06	No	N/A	N/A	N/A
24 - South	02/25/06	No	N/A	N/A	N/A
34	02/25/06	No	N/A	N/A	N/A
35	02/25/06	No	N/A	N/A	N/A
52	02/25/06	No	N/A	N/A	N/A

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

	THE PARTY OF SERVICE	and the state 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		Open

3. DRY WEATHER OVERFLOWS

Dry weather overflows (DWOs), are summarized below:

Table 3-1 Dry Weather Overflows

· ·	
Location:	
Cause	
Date/ Time Discovered	NO DRY WEATHER OVERFLOW IN
Action Taken	T.1
Date/Time Discharge Ceased	February
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

				Inspe	ections	Cleaning					
		CBs in	CBs in Anacostia	Total CBs Inspected Once this	Total CBs Inspected Twice this	CBs Cleaned Thru Last Month			eaned this	Total CBs Cleaned This Year to Date	
Ward	Total CBs	CSS	CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	13	0	27	27	0	0	27	27
2	4,714	4,112	2,316	141	0	42	42	293	220	335	262
3	3,555	461	-	0	0	139	0	0	0	139	0
4	2,782	1,985	159	132	0	186	166	25	25	211	191
5	2,167	1,035	1,035	40	0	18	18	22	22	40	40
6	1,783	1,594	1,594	334	0	159	159	302	175	461	334
7	2,313	-	-	0	0	1492	0	328	0	1820	0
8	1,278	116	116	116	0	342	116	1066	52	1408	168
WASA Subtotal	20,183	10,871	5,954	776	0	2,405	528	2,036	494	4,441	1,022
DDOT (via VMS) Subtotal				0	0				0	0	0
Grand Total	20,183	10,871	5,954	776	0			2,036	1,122	4,441	1,022
% Cleaned/Inspected to Date				13%	0%					22%	9%

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 Netting System CSO 018	Date Inspected 2/1/06 2/13/06 and 2/23/06	Condition Good	Work Needed Minor Maintenance	Work performed Nets changed 2/9/06.	Material Removed (CY) Left net – 400 lb Right net – 375 lb.
Bar Rack CSO 040	2/8/06	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	2/18/06	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:	19
Days not Operating	4
Reason not Operating	Strong winds
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One
Dates	8/17/05 to present
Reason	Skimmer removed from the water for comprehensive PM.
Plan to Restore to Service	As soon as possible.
Volume Material Collected	60 ton.
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:												nspector's Initials:
		Over	rflow	Ol	bserv	ed	Qι	antity	of	Qua	ntity c	f	
cso	Time of Observa tion	Υ	N	L	M	Н	L	M	Н	L	M	Н	REMARKS/OTHER
009													
010				NC	NC	<u>E</u>							
011													
011a													
012													

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

5.2 Rain Data

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

 Table 5-2
 Rainfall Data (inches)

Monthly Rain Totals

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
2/1/2006	6 0	0	0	0
2/2/2006	0.04	0.04	0.02	0.04
2/3/2006	0.39	0.41	0.35	0.39
2/4/2006	0.82	0.72	0.78	0.79
2/5/2006	0	0	0	0
2/6/2006	0	0	0	0
2/7/2006	0	0	0	0
2/8/2006	5 0	0	0	0
2/9/2006	5 0	0	0	0
2/10/2006	0	0	0	0
2/11/2006	0.14	0.17	0.21	0.21
2/12/2006	0.27	0.33	0.43	0.35
2/13/2006	0.13	0	0.18	0
2/14/2006	0	0	0	0
2/15/2006	0	0	0	0
2/16/2006	0.09	0	0	0
2/17/2006	0	0	0	0
2/18/2006	0	0	0	0
2/19/2006	0	0	0	0
2/20/2006	0	0	0.01	0.03
2/21/2006	0	0	0	0
2/22/2006	0.21	0.2	0.22	0.26
2/23/2006	0.01	0	0.01	0.01
2/24/2006	0	0	0	0
2/25/2006	0	0	0	0
2/26/2006	0	0	0	0
2/27/2006	0	0	0	0
2/28/2006	0	0	0	0
<u>Total</u>	2.10	1.87	0.85	2.08



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Serving the Public • Protecting the Environment

Monthly Operations Report For Combined Sewer System Month: March 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: March, 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

		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	03/16/06	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	03/16/06	*			
5	Poplar Point Pumping Station	004	03/09/06	*			
6	Chicago Street and Railroad Ave, SE	005	03/01/06	*			
7	W Street and Railroad Ave, SE	005	03/01/06	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	03/01/06	*			
9	13 th Street and Ridge Place, SE	007	03/01/06	*			
11	"O" Street Pumping Station	011(a)	03/09/06	*			
12	Storm Pump Discharge at Main Pumping Station	011	03/09/06	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	03/01/06	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	03/09/06	*			
15	South Capitol and E Streets	010	03/09/06	*			
15a	Half and L Streets, SE	010	03/09/06	*			
15b	South Capitol and I Streets	010	03/01/06	*			
15c	South Capitol and I Streets	010	03/01/06	*			
16	North of Main Sewage Pumping Station	012	03/09/06	*			
17	4 th and N Streets, SE, Both Extended	013	03/07/06	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	03/07/06	*			
18	6 th and M Streets, SE	014	03/03/06	*			
19	9 th and M Streets, SE	015	03/03/06	*			
19a	9 th and M Streets, SE	015	03/03/06	*			
20	12 th and M Streets, SE	016	03/03/06	*			
20a	12 th and M Streets, SE	016	03/03/06	*			
21	14 th and M Streets, SE	017	03/07/06	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	03/07/06	*			

		A ' LNDDEC	D. ((Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
22b	Barney Circle and Pennsylvania Ave, SE	018	03/07/06	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	03/07/06	*			
22d	Kentucky Ave and Potomac Street, SE	018	03/07/06	*			
22e	14 th Street and Kentucky Ave, SE	018	03/07/06	*			
23	Independence Ave, 21 st Street, SE, Extended	019	03/08/06	*			
24a	East Capitol St, west of RFK stadium	019	03/08/06	*			
28	21st and Constitution Ave, NW	020	03/23/06	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	03/23/06	*			
30	17 th and D Streets, NW	020	03/02/06	*			
31	15 th Street and Pennsylvania Ave, NW	020	03/02/06	*			
33	10 th and F Streets, NW	020	03/02/06	*			
34	23 rd Street, north of Constitution Ave, NW	020	03/23/06	*			
34a	23 rd Street near C Street, NW	020	03/23/06	*			
35	Northeast of Roosevelt Bridge, NW	021	03/23/06	*			
36	27 th and I Streets, NW	022	03/16/06	*			
36a	New Hampshire Ave and Eye Street, NW	022	03/16/06	*			
36b	19 th and L Streets, NW	022, 034	03/08/06	*			
36d	17 th and L Streets, NW	022, 034	03/03/06	*			
36g	18 th and M Streets, NW	022, 034	03/08/06	*			
36h	18 th and M Streets, NW	022, 034	03/08/06	*			
37	27 th and Eye Streets, NW	022	03/16/06	*			
38	29 th and K Streets, NW	024	03/14/06	*			
38a	30 th Street, south of K Street, NW	024	03/14/06	*			
39a	30 th and K Streets, NW	024	03/14/06	*			
39b	30 th and K Streets, NW	024	03/14/06	*			
41b	31st and K Streets, NW	025	03/27/06	*			
41c	31 st and K Streets, NW	025	03/27/06	*			
42	Wisconsin Ave and K Street, NW	026	03/21/06	*			

		Aggoriated NBDES	Data	(Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
43	Potomac and Water Streets, NW	027	03/21/06	*			
43a	Potomac and Water Streets, NW	027	03/21/06	*			
44	Water Street, west of Potomac St, NW	027	03/21/06	*			
45	36 th and M Streets, NW	028	03/14/06	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	03/03/06	*			
47	38 th Street and Reservoir Road, NW	029	03/03/06	*			
47a	37 th and T Streets, NW	029	03/03/06	*			
47b	37 th and T Streets, NW	029	03/03/06	*			
47c	38 th and W Streets, NW	029	03/03/06	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	03/17/06	*			
50	26 and M Streets, NW	032	03/17/06	*			
51	N Street Extended, west of 25 th Street, NW	033	03/17/06	*			
52	22 nd Street between M and N Streets, NW	034	03/23/06	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	03/23/06	*			
53	22 nd and M Streets, NW	022, 034	03/23/06	*			
53a	22 nd and M Streets, NW	022, 034	03/23/06	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	03/10/06	*			
53c	L and 22 nd Streets, NW	022	03/10/06	*			
54	23 rd and O Streets, NW	034	03/17/06	*			
55	22 nd Street, south of Q Street, NW	035	03/17/06	*			
55a	22 nd Street, south of Q Street, NW	035	03/17/06	*			
56	23 rd and Massachusetts Ave, NW	036	03/17/06	*			
57	23 rd Street, south of Q Street, NW	036	03/17/06	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	03/01/06	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	03/01/06	*			
60	Connecticut Ave, east of Rock Creek, NW	039	03/02/06	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	03/02/06	*			

		Associated NPDES	Date	(Condition		
Struct No.	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	03/08/06	*			
63	Harvard Street and Rock Creek Parkway, NW	042	03/10/06	*			
64	Adams Mill Road, south of Irving Street, NW	043	03/08/06	*			
65	Kenyon Street and Adams Mill Road, NW	044	03/10/06	*			
65a	Kenyon Street and Adams Mill Road, NW	044	03/08/06	*			
66	Adams Mill Road and Lamont Street, NW	045	03/10/06	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	03/10/06	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	03/10/06	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	03/10/06	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	03/10/06	*			
70i	5 th and Quackenbos Streets, NW	049	03/01/06	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	03/07/06	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	03/17/06	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	03/17/06	*			
73	O Street Extended and Rock Creek Parkway, NW	052	03/17/06	*			
74	Q Street, west of Rock Creek, NW	053	03/17/06	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	03/21/06	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	03/21/06	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	03/21/06	*			
78	28th Street Extended, west of Rock Creek, NW	057	03/21/06	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	03/02/06	*			
84	26 th and P Streets, NW	060	03/17/06	*			
84a	26 th and P Streets, NW	060	03/17/06	*			

- 1. For regulators noted as "visually checked outfall", the outfall was visually observed to confirm no DWO was occurring.
- 2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

2.2 Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Table 2 - Outfalls and Tide Gates

				Outfall		Gate		Tide Gate			
			Co	ondition	Pres	sent?	Condi		(CSO Sign	
								Need			
NPDES Outfall	Location	Date Inspected	OK	Needs Work	Yes	No	OK	Wor k	ОК	Needs Work	Notes, Work Needed or Performed
	Bolling Air Force Base, at Giavanolli and			WOIK		110		K		WOIK	J. V.
003	Chanute, SW	03/16/06	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	03/02/06	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	03/02/06	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	03/02/06	*		*		*		*		
009	O St. Sewage Pumping Station, SE	03/27/06	*		*		*		*		
010	O St. Sewage Pumping Station, SE	03/27/06	*			*			*		
011	Main Sewage Pumping Station, SE	03/27/06	*			*			*		
011(a)	Main Sewage Pumping Station, SE	03/27/06	*		*		*		*		
012	Main Sewage Pumping Station, SE	03/27/06	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	03/31/06	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	03/31/06	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	03/31/06	*			*			*		
016	12th and O Streets, SE	03/14/06	*		*		*		*		
017	M and Water Street, SE	03/14/06	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	03/14/06	*		*		*		*		

			(Outfall	Tide	Gate	Tide C	Gate			
			Ca	ondition	Pres	sent?	Condi	tion	C	SO Sign	
								Need			
NPDES Outfall	Location	Date Inspected	OK	Needs Work	Yes	No	OK	s Wor k	ОК	Needs Work	Notes, Work Needed or Performed
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	03/08/06	*	WOIR	103	*	- OK	K	*	WOIK	
020	Rock Creek Parkway and Independence, NW	03/16/06	*		*		*		*		
021	Rock Creek Parkway and C St., NW	03/16/06	*			*			*		
022	Rock Creek Parkway and G St., NW	03/16/06	*		*		*		*		
	South of 30 th and K Streets, NW										WASA has developed a capitol project to design and construct a replacement gate for improved
024		03/16/06	*		*			*	*		performance.
025	South of 31st and K Streets, NW	03/16/06	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	03/16/06	*		*		*		*		
027	33 rd and Water Sts., NW	03/16/06	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	03/16/06	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	03/16/06	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	03/17/06	*			*			*		
032	26th and M Street, NW.	03/17/06	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	03/17/06	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	03/17/06	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	03/17/06	*		*		*		*		
036	22nd Street, South of Q Street NW.	03/27/06	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	03/01/06	*		*		*		*		

				Outfall ondition		Gate	Gate Tide Gate nt? Condition			CSO Sign	
			Ci	mailion	Fies	seni:	Conai	Need		SO sign	
NPDES Outfall	Location	Date Inspected	ОК	Needs Work	Yes	No	OK	s Wor k	OK	Needs Work	Notes, Work Needed or Performed
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	03/01/06	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	03/02/06	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	03/02/06	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	03/02/06	*		*		*		*		
042	Harvard St. and Beach Dr NW.	03/02/06	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	03/02/06	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	03/02/06	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	03/02/06	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	03/10/06	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	03/10/06	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	03/10/06	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	03/10/06	*		*		*		*		
050	Rock Creek Parkway and L St., NW	03/07/06	*		*		*		*		

		Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign			
								Need s			
NPDES	Logation	Date Ingrested		Needs			0.77	Wor		Needs	Notes, Work Needed or
Outfall	Location	Inspected	OK	Work	Yes	No	OK	k	OK	Work	Performed
	Across Rock Creek Parkway, aligned with Olive St., NW.		*		*		*		*		
		03/02/06									
	Between P and Penna. Ave Bridges, aligned with O Street, NW.	03/02/06	*		*		*		*		
	Q St. Bridge and Rock Creek Parkway, NW.	03/27/06	*		*		*		*		
	Massachusetts Avenue and Rock Creek Parkway, NW.	03/21/06	*		*		*		*		
	Normanstone Dr. and Rock Creek Parkway, NW.	03/21/06	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	03/21/06	*		*		*		*		
	Connecticut Avenue and Rock Creek Parkway, NW.	03/02/06	*			*	_		*		
	North of P Street Bridge and Rock Creek Pkwy, NW	03/27/06	*		*		*		*		

1. Outfall is submerged and not visible. CSO is performing acceptably as evidenced by lack of capacity/flooding issues associated with pipe.

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

Table 2-3

Pumping Stations – Inspections and Equipment in Service

	No. of						
	Inspectio	No.		Screens or Pumps Out of			Schedule to Restore
Pumping Station	ns	Screens	No. Pumps	Service	Dates	Reason	to Service
Main	31	4	12	Screen #4	12/01/05	Out of alignment	04/30/06
				Sanitary Pump #2	12/01/05	Needs packing Sleeve	04/30/06
				Screen #1	01/05/06	Screen off track	04/30/06
Eastside	31	2	4	Sanitary Pump #1	12/20/05	Motor needs to be replaced	04/30/06
Poplar Point	31	2 1	3	Sanitary Pump #1	02/25/06	Seal Water line needs to be connected	04/30/06
				Screen #1	01/05/06	Screen off track	04/30/06
				Screen #2	12/03/06	Screen off track and motor fell off	04/30/06
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

		Tumping Stations – Trevent	110111111111111111111111111111111111111
Pumping Station	Date Performed	Type of Preventive Maintenance Performed ¹	Comments
Main	03/23/06	Group A	Add oil, grease bearings and replace packing if needed.
O St	03/23/06	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	03/23/06	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	03/23/06	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	03/23/06	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	03/23/06	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	03/23/06	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	03/23/06	Group A	Add oil, grease bearings and replace packing if needed.

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

		- u	110113 – 1 umpa	8					
	Sanitary	Pumpage	Storm W	Storm Water/CSO Pumped To Anacostia River					
	Total	Daily Average							
	Wastewater	Wastewater			Screenings				
Pumping Station	(mg)	(mg)	Date	Volume (mg)	Collected (units)				
Main	2,703.20	87.20	N/A	N/A	N/A				
O St ¹	143.10	4.62	N/A	None	Normal				
Eastside	102.50	3.31	N/A	N/A	N/A				
Poplar Point	369.90	11.93	N/A	N/A	N/A				
Potomac	4,620.90	149.06	N/A	N/A	N/A				
Rock Creek	84.00	2.71	N/A	N/A	N/A				
Upper Anacostia	59.40	1.92	N/A	N/A	N/A				
Earle Place	0.31	0.01	N/A	N/A	N/A				

^{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

	#		Screens or			
Date	Screen	#	Swirls Out of			
Inspected	S	Swirls	Service	Dates	Reason	Schedule to Restore to Service
03/22/06	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
03/22/06	Group A	

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)
		4	WEATHER		
		OPER.	ATIONS		

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

	Chlor/ Dechlo	Dosages		Residual Chlorine Test Results		Enterococcus Test Results		Fecal Coliform Test Results		
Date	r System Used?	NaOCl (mg/l)	NaHSO ₃ (mg/l)	Location	Conc. (mg/l)	Site	Count Per 100ml	Site	Count Per 100ml	
	NO WET WEATHER OPERATIONS									

1. Mix Chr.: Mixing Chamber

2. River: River Outfall

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

	Flow Composited Sample Results								
	Nitrite Nitrate Total Kjeldahl Total Carbonace								
	Total suspended	Total suspended (NO2-N) (NO3-N)) Nitrogen Total Nitrogen Phosphorus Biolo							
Date	solids (mg/L) mg/L mg/L (mg/L) (mg/L) (mg/L) Demand (mg/L)								
		NO WET	WEATHER	OPERATIONS					

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

		Was Dam Out of			
Inflatable Dam		Service During the	e		Schedule to Restore to
Structure No	Date Inspected	Month?	Dates out of Service	Reason	Service
14 - East	03/23/06	No	N/A	N/A	N/A
14 - West	03/23/06	No	N/A	N/A	N/A
15	03/23/06	No	N/A	N/A	N/A
15A	03/23/06	No	N/A	N/A	N/A
16 - East	03/23/06	No	N/A	N/A	N/A
16 - West	03/23/06	No	N/A	N/A	N/A
24 – North *	03/23/06	No	N/A	N/A	N/A
24 - Middle	03/23/06	No	N/A	N/A	N/A
24 - South	03/23/06	No	N/A	N/A	N/A
34	03/23/06	No	N/A	N/A	N/A
35	03/23/06	No	N/A	N/A	N/A
52	03/23/06	No	N/A	N/A	N/A

^{*} On 03/28/06 a momentary power outage occurred at Inflatable Dam Structure No. 24-North. The dam deflated but was immediately returned to service once the back-up power generator began to operate. There was no storm event and no overflow.

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 MARCH
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

				Inspe	ections	Cleaning					
		CBs in	CBs in	Total CBs Inspected	Total CBs Inspected	CBs Cleaned Thru Last Month				Total CBs Cleaned This Year to Date	
Ward	Total CBs	CBS in	Anacosti a CSS	Once this Year	Twice this Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	734	25	27	27	1457	1411	1484	1438
2	4,714	4,112	2,316	435	0	335	262	581	529	916	791
3	3,555	461	-	0	0	139	0	8	8	147	8
4	2,782	1,985	159	141	0	211	191	111	111	322	302
5	2,167	1,035	1,035	50	0	40	40	10	10	50	50
6	1,783	1,594	1,594	390	205	461	334	135	56	596	390
7	2,313	-	-	0	0	1820	0	22	0	1842	0
8	1,278	116	116	116	53	1408	168	73	6	1481	174
WASA Subtotal	20,183	10,871	5,954	1,866	283	4,441	1,022	2,397	2,131	6,838	3,153
DDOT (via VMS) Subtotal				0	0			0	0	0	0
Grand Total	20,183	10,871	5,954	1,866	283			2,397	2,131	6,838	3,153
% Cleaned/Inspected				31%	5%					34%	29%

to Date						

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	3/8/06	Good	Minor	None.	None
018			Maintenance		
Bar Rack CSO 040	3/2/06	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	3/2/06	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	5
Reason not Operating	Strong winds
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One
Dates	3/28/06 to 3/31/06
Reason	To repair bent propeller shaft
Plan to Restore to Service	As soon as possible.
Volume Material Collected	10 ton.
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:										In	spector's Initials:	
		Ove	rflo	Ok	serv	ed	Qu	antity	/ of	Qua	ntity	of	
cso	Time of Observ ation	Y	N	L	М	Н	L	M	Н	L	M	Н	REMARKS/OTHER
009													
010				NON	JE								
011													
011a													
012													

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

5.2 Rain Data

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

Table 5-2Rainfall Data (inches)

Date		Bryant St PS	Main PS	Rock Creek PS
3/1/200		•		
3/2/200	0.06	0.05	0.05	0.04
3/3/200	6 () 0	0	0
3/4/200	6 (0	0	0
3/5/200	6 (0	0	0
3/6/200	6 (0	0	0
3/7/200	6 (0	0	0
3/8/200	6 (0	0.01	0
3/9/200	6 () 0	0	0
3/10/200	6 () 0	0	0
3/11/200	6 (0	0	0
3/12/200	6 (0.04	0	0
3/13/200	6 (0	0	0
3/14/200	6 0.0	I 0	0	0.01
3/15/200	6 (0	0	0
3/16/200			0	0
3/17/200	6) 0	0	0
3/18/200) 0	0	0
3/19/200				
3/20/200			0	0
3/21/200				
3/22/200			_	
3/23/200) 0	0	0
3/24/200			•	•
3/25/200				
3/26/200				
3/27/200			_	
3/28/200			0.01	0.02
3/29/200			0.01	0.01
3/30/200				
3/31/200				
Total	0.1	0.11	0.08	0.08

Combined Sewer System Model Results Period: January, February, March 2006 SCENARIO: Q1_Y2006, 4-25-06

				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)
Anacostia CSC							
005	Chicago St and Railroad Station SE	12	3.9	53.8	4.5	8.0	2.0
	Good Hope Road, West of Nichols						
006	Ave.,SE	0	0.0	0.0	0.0	0.0	0.0
007	13 th Street and Ridge Place,SE	12	9.3	47.3	3.9	8.3	1.3
	2nd Street, 300 feet North of N Place,						
009	SE	10	2.4	23.3	2.3	6.5	0.8
	O Street SewagePumping Station, SE	_					1
010	(pumped Overflow)	5	66.4	7.8	1.6	4.0	0.5
044	South of Main Sewage Pumping		0.0	0.0	0.0	0.0	0.0
011	Station, SE (pumped overflow)	0	0.0	0.0	0.0	0.0	0.0
044-	South of Main SewagePumping	0	0.0	0.0	0.0	0.0	0.0
011a	Station, SE (gravity overflow)	0	0.0	0.0	0.0	0.0	0.0
040	North of Main SewagePumping	_	0.0	0.5	0.5	0.5	0.5
012	Station, SE (Tiber Creek)	1	0.6	0.5	0.5	0.5	0.5
013	4th and N Streets, SE	4	1.2	9.0	2.3	4.8	0.5
014 015	6th and M Streets, SE 9th and M Streets, SE	10	7.1 0.2	33.5	3.4 1.4	7.8 1.8	1.0 1.0
	,			4.3			
016 017	12th and M Streets, SE 14th and M Streets. SE	7	2.1 3.9	6.8 11.0	1.7 1.6	3.3 4.3	0.5 0.3
017			3.9	11.0	1.0	4.3	0.3
040	Barney Circle andPennsylvania Ave, SE	8	1.0	16.0	2.4	4.0	0.5
018 019		8	1.0 172.1	16.8 33.3	2.1 4.2	4.8 7.8	0.5
019	Northeast Boundary - Swirl Effluent Northeast Bound Swirl Bypass	3	18.9		1.6	2.8	0.5
019	, ,	3		4.8	1.0	2.8	0.8
	SUBTOTAL		289				
Potomac CSOs	e						
003	Bolling AFB	0	0.0	0.0	0.0	0.0	0.0
003	23rd Street, North of Constitution Ave,	•	0.0	0.0	0.0	0.0	0.0
020	NW (Easby Point)	3	7.4	4.3	1.4	2.0	1.0
021	Northeast ofRoosevelt Bridge, NW	8	132.6	20.5	2.6	5.5	0.5
022	27th and K Streets, NW	8	4.3	18.5	2.3	4.8	0.5
024	30th and K Streets, NW	6	12.6	13.8	2.3	4.5	1.0
025	31st & K St NW	1	0.0	0.8	0.8	0.8	0.8
026	Wisconsin Avenue andK St., NW	0	0.0	0.0	0.0	0.0	0.0
027	Water Street West ofStreet, NW	11	12.2	54.0	4.9	7.8	2.3
028	36th and M Streets, NW	3	0.1	3.0	1.0	1.3	0.8
	Canal Road 1000 feet east of Rock						
029	Creek,NW	11	6.5	40.5	3.7	7.3	0.3
	SUBTOTAL		176				
Rock Creek			1				
	Pennsylvania Avenue, East Rock						1
031	Creek, NW	3	0.1	3.5	1.2	1.8	0.3
032	26th and M Streets, NW	0	0.0	0.0	0.0	0.0	0.0
	N Street extendedwest of 25th					_	1
033	Street,NW	2	0.3	1.0	0.5	0.5	0.5
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	8	0.3	16.8	2.1	4.3	0.5
	Northwest of Belmontand Rock Creek	_					1
037	and Potomac Parkway	0	0.0	0.0	0.0	0.0	0.0
	North of Belmont Road,east of						
038	Kalorama Circle, NW	0	0.0	0.0	0.0	0.0	0.0
	Connecticut Avenue east of Rock	_					1
039	Creek, NW	0	0.0	0.0	0.0	0.0	0.0
	Biltmore Street extended east of	_					1
040	RockCreek, NW	0	0.0	0.0	0.0	0.0	0.0
244	Ontario extended and Rock Creek	_	2.2	2.2	2.2	2.2	2.2
041	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: January, February, March 2006 SCENARIO: Q1_Y2006, 4-25-06

		Number of	CSO	Total Duration of	Avg Duration	Maximum Duration of	Minimum 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	7.1	10.3	2.6	4.3	1.8
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	3	0.4	3.5	1.2	1.3	1.0
	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		8				
	TOTAL		473				

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