QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

SECOND QUARTER, 2010

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: April 2010

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

Monthly Operations Report for Combined Sewer System Month: April 2010

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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 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.

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Table 2-1 Regulator Structures

				(Condition		
	_	Associated NPDES			Needs Work		
Struct No.	Location	Outfall	Inspected	Good		Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/14/10	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/14/10	*			
5	Poplar Point Pumping Station	004	04/09/10	*			
6	Chicago Street and Railroad Ave, SE	005	04/09/10	*			
7	W Street and Railroad Ave, SE	005	04/09/10	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	n/a	*			
9	13 th Street and Ridge Place, SE	007	04/09/10	*			
11	"O" Street Pumping Station	011(a)	04/15/10	*			
12	Storm Pump Discharge at Main Pumping Station	011	04/15/10	*			
	2 nd Street, 300 ft. north of N Place, SE	009	04/15/10	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	04/29/10	*			
15	South Capitol and E Streets	010	04/15/10	*			
15a	Half and L Streets, SE	010	04/15/10	*			
15b	South Capitol and I Streets	010	04/19/10	*			
15c	South Capitol and I Streets	010	04/15/10	*			
16	North of Main Sewage Pumping Station	012	04/15/10	*			
17	4 th and N Streets, SE, Both Extended	013	04/19/10	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	04/19/10	*			
18	6 th and M Streets, SE	014	04/08/10	*			
19	9 th and M Streets, SE	015	04/06/10	*			
19a	9 th and M Streets, SE	015	04/06/10	*			
20	12 th and M Streets, SE	016	04/06/10	*			
20a	12 th and M Streets, SE	016	04/06/10	*			
21	14 th and M Streets, SE	017	04/20/10	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	04/28/10	*			

				(Condition		
<i>a</i>		Associated NPDES	Date	G 1	Needs Work		
Struct No.	Location	Outfall	Inspected			Work Needed	Work performed
22b	Barney Circle and Pennsylvania Ave, SE	018	04/28/10	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	04/28/10	*			
22d	Kentucky Ave and Potomac Street, SE	018	04/16/10	*			
22e	14 th Street and Kentucky Ave, SE	018	04/16/10	*			
23	Independence Ave, 21 st Street, SE, Extended	019	04/28/10	*			
24a	East Capitol St, west of RFK stadium	019	04/28/10	*			
28	21 st and Constitution Ave, NW	020	04/16/10	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	04/16/10	*			
30	17 th and D Streets, NW	020	04/13/10	*			
31	15 th Street and Pennsylvania Ave, NW	020	04/13/10	*			
33	10 th and F Streets, NW	020	04/13/10	*			
34	23 rd Street, north of Constitution Ave, NW	020	04/13/10	*			
34a	23 rd Street near C Street, NW	020	04/15/10	*			
35	Northeast of Roosevelt Bridge, NW (1)	021	04/16/10	*			
36	27 th and I Streets, NW	022	04/16/10	*			
36a	New Hampshire Ave and Eye Street, NW	022	04/07/10	*			
36b	19 th and L Streets, NW	022, 034	04/07/10	*			
36d	17 th and L Streets, NW	022, 034	04/07/10	*			
36g	18 th and M Streets, NW	022, 034	04/07/10	*			
36h	18 th and M Streets, NW	022, 034	04/16/10	*			
37	27 th and Eye Streets, NW	022	04/16/10	*			
38	29 th and K Streets, NW	024	04/06/10	*			
38a	30 th Street, south of K Street, NW	024	04/06/10	*			
39a	30 th and K Streets, NW	024	04/06/10	*			
39b	30 th and K Streets, NW	024	04/06/10	*			
41b	31st and K Streets, NW	025	04/06/10	*			
41c	31st and K Streets, NW	025	04/07/10	*			
42	Wisconsin Ave and K Street, NW	026	04/07/10	*			

			_	(Condition		
G. M		Associated NPDES		C 1	Needs Work	117 1 37 1 1	117 1 6 1
Struct No.	Location	Outfall	Inspected			Work Needed	Work performed
43	Potomac and Water Streets, NW	027	04/07/10	*			
43a	Potomac and Water Streets, NW	027	04/12/10	*			
44	Water Street, west of Potomac St, NW	027	04/12/10	*			
45	36 th and M Streets, NW (1)	028	04/12/10	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	04/12/10	*			
47	38 th Street and Reservoir Road, NW	029	04/12/10	*			
47a	37 th and T Streets, NW	029	04/12/10	*			
47b	37 th and T Streets, NW	029	04/12/10	*			
47c	38 th and W Streets, NW	029	04/12/10	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	04/05/10	*			
50	26 and M Streets, NW	032	04/05/10	*			
51	N Street Extended, west of 25 th Street, NW	033	04/05/10	*			
52	22 nd Street between M and N Streets, NW	034	04/22/10	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	04/22/10	*			
53	22 nd and M Streets, NW	022, 034	04/22/10	*			
53a	22 nd and M Streets, NW	022, 034	04/22/10	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	04/07/10	*			
53c	L and 22 nd Streets, NW	022	04/07/10	*			
54	23 rd and O Streets, NW	034	04/20/10	*			
55	22 nd Street, south of Q Street, NW	035	04/20/10	*			
55a	22 nd Street, south of Q Street, NW	035	04/20/10	*			
56	23 rd and Massachusetts Ave, NW	036	04/20/10	*			
57	23 rd Street, south of Q Street, NW	036	04/20/10	*			
58	Northwest of Belmont Road and Rock Creek and Potomac		04/16/10	*			
	Parkway, NW	037					
59	North of Belmont Rd, east of Kalorama Cir, NW	038	04/16/10	*			
60	Connecticut Ave, east of Rock Creek, NW	039	04/07/10	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	04/23/10	*			

			_	(Condition		
G 17		Associated NPDES		G 1	Needs Work	***	*** 1
Struct No.	Location	Outfall	Inspected			Work Needed	Work performed
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	04/07/10				
63	Harvard Street and Rock Creek Parkway, NW	042	04/07/10	*			
64	Adams Mill Road, south of Irving Street, NW	043	04/23/10	*			
65	Kenyon Street and Adams Mill Road, NW	044	04/20/10	*			
65a	Kenyon Street and Adams Mill Road, NW	044	04/20/10	*			
66	Adams Mill Road and Lamont Street, NW	045	04/20/10	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	04/20/10	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	04/20/10	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	04/20/10	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	04/20/10	*			
70i	5 th and Quackenbos Streets, NW	049	04/01/10	*			
71	28th Street, west of Rock Creek Parkway, NW	050	04/01/10	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	04/17/10	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	04/17/10	*			
73	O Street Extended and Rock Creek Parkway, NW	052	04/17/10	*			
74	Q Street, west of Rock Creek, NW	053	04/17/10	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	04/29/10	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	04/29/10	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	04/26/10	*			
78	28th Street Extended, west of Rock Creek, NW	057	04/29/10	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	04/01/10	*			
84	26 th and P Streets, NW	060	04/19/10	*			
84a	26 th and P Streets, NW	060	04/19/10	*			

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

			(Outfall	Tide	Gate	Tide (Gate			
			Ca	ondition	Pres	ent?	Cond	ition	CS	O Sign	
NPDES		Date		Needs				Needs		Needs	Notes, Work Needed or
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Performed
	Bolling Air Force Base, at Giavanolli and										
003	Chanute, SW	04/14/10	*		*		*		*		
	Across from Navy Yard, aligned with										
005	Parsons Ave., SE	04/08/10	*		*		*		*		
	Good Hope Road and Welsh Memorial										
006	Bridge	04/08/10	*		*		*		*		
	Between 11 th St. and Anacostia Bridges,										
007	SE	04/08/10	*		*		*		*		
009	O St. Sewage Pumping Station, SE	04/23/10	*		*		*		*		
010	O St. Sewage Pumping Station, SE	04/23/10	*			*			*		
011	Main Sewage Pumping Station, SE	04/23/10	*			*			*		
011(a)	Main Sewage Pumping Station, SE	04/23/10	*		*		*		*		
	Main Sewage Pumping Station, SE	04/23/10									
012	Main Sewage Fumping Station, SE		*		*		*		*		
	Southeast Federal Center, aligned with 4 th	04/23/10									
013	St.		*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	04/19/10	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	04/29/10	*			*			*		
016	12th and O Streets, SE	04/29/10	*		*		*		*		
017	M and Water Street, SE	04/29/10	*		*		*		*		
	East of Barney Circle and South of	04/29/10									
018	Pennsylvania Avenue Bridge, SE		*		*		*		*		
	Adjacent to Service Drive behind swirl	04/29/10									
019	facility and D.C. General Hospital		*			*			*		

				Outfall		Gate	Tide				
			Ca	ondition	Pres	sent?	Cond		CS	O Sign	
NPDES		Date		Needs				Needs		Needs	Notes, Work Needed or
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Performed
	Rock Creek Parkway and Independence,										
020	NW	04/27/10	*		*		*		*		
021	Rock Creek Parkway and C St., NW	04/27/10	*			*			*		
022	Rock Creek Parkway and G St., NW	04/27/10	*		*		*		*		
		04/27/10									WASA has developed a capitol
	South of 30 th and K Streets, NW										project to design and construct a
	South of 30° and K Streets, IVW										replacement gate for improved
024			*		*			*	*		performance.
025	South of 31st and K Streets, NW	04/27/10	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	04/27/10	*		*		*		*		
027	33 rd and Water Sts., NW	04/27/10	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	04/27/10	*			*			*		
	Adjacent to C&O Canal, aligned with 38 th	04/27/10									
029	St. NW		*		*		*		*		
	Rock Creek Pkwy and Pennsylvania										
031	Avenue, NW.	04/27/10	*			*			*		
032	26th and M Street, NW.	04/05/10	*			*			*		
	Across street from St. Francis Jr. High and										
033	aligned with N St., NW.	04/05/10	*		*		*		*		
	Just west of St. Francis Jr. High and north										
034	of N St., NW	04/05/10	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	04/20/10	*		*		*		*		
036	22nd Street, South of Q Street NW.	04/20/10	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	04/20/10	*		*		*		*		
	Between arch footbridge and Connecticut										
038	Ave., north of Kalorama Circle, NW.	04/27/10	*		*		*		*		
	Connecticut Avenue Bridge and Rock										
039	Creek Parkway, NW.	04/16/10	*		*		*		*		

			(Dutfall	Tide	Gate	Tide	Gate			
			Ca	ondition	Pres	sent?	Cond	ition	CS	O Sign	
NPDES		Date		Needs				Needs		Needs	Notes, Work Needed or
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Performed
	Aligned with Biltmore Rd., between										
040	Connecticut Ave and Ellington Bridge.	04/07/10	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	04/07/10	*		*		*		*		
042	Harvard St. and Beach Dr NW.	04/22/10	*		*		*		*		
	Upstream of Harvard St. and Beach Dr	04/22/10									
043	NW.		*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	04/22/10	*		*		*		*		
	North of Beach Dr. and Walbridge Pl,	04/22/10									
045	NW.		*		*		*		*		
	Piney Branch Parkway and Park Road,	04/22/10									
046	NW.		*			*			*		
	Piney Branch Parkway and Ingleside										
	Terrace	0.4/22/10	*		*		*		*		
047		04/23/10	*		ጥ		*		*		
	South of Piney Branch Parkway and 17 th	04/23/10									
	St.		*		*		*		*		
	North of Piney Branch Parkway and 17 th	04/23/10	<u> </u>		,		·				
	St.	04/23/10	*		*		*		*		
-	Rock Creek Parkway and L St., NW	04/23/10	*		*		*		*		
	Across Rock Creek Parkway, aligned with	04/23/10	*		*		*		*		
	Olive St., NW.										
	Onve St., TVV										
		04/01/10									
	Between P and Penna. Ave Bridges,										
	aligned with O Street, NW.	04/29/10	*		*		*		*		
	Q St. Bridge and Rock Creek Parkway,										
053	NW.	04/29/10	*		*		*		*		

				Outfall ondition		Tide Gate Tide Gate Present? Condition		CS	O Sign		
NPDES		Date		Needs				Needs		Needs	Notes, Work Needed or
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Performed
	Massachusetts Avenue and Rock Creek										
054	Parkway, NW.	04/27/10	*		*		*		*		
	Normanstone Dr. and Rock Creek										
056	Parkway, NW.	04/29/10	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	04/01/10	*		*		*		*		
	Connecticut Avenue and Rock Creek	04/01/10									
058	Parkway, NW.		*			*			*		
	North of P Street Bridge and Rock Creek						·				
060	Pkwy, NW	04/27/10	*		*		*		*		

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

Table 2-3

Pumping Stations – Inspections and Equipment in Service

				F8 :: F ::			
	No. of						
	Inspectio	No.		Screens or Pumps Out of			Schedule to Restore
Pumping Station	ns	Screens	No. Pumps	Service	Dates	Reason	to Service
Main	30	4	10	N/A	N/A	N/A	
Eastside	30	2	4	# 1 Screen	4/1/10	Motor bad	July 31, 2010
				# 2 Screen	4/1/10	Motor bad	Apr 6, 2010
Poplar Point	30	2 1	3	# 1 Pump	4/1/10	Pump bad – rebuild	July 31, 2010
				# 3 Pump	4/1/10	Pump jammed	July 31, 2010
Potomac	30	4	5	N/A	N/A	N/A	

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	
Pumping Station	Date Performed	Type of Preventive Maintenance Performed ¹	Comments
Main	04/27/10	Group A	Add oil, grease bearings and replace packing if needed.
O St	04/27/10	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	04/27/10	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	04/27/10	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	04/27/10	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	04/27/10	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	04/27/10	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	04/27/10	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

	Sanitary .	Pumpage	Storm We	ater/CSO Pumped To	Anacostia River
	Total	Daily Average			
	Wastewater	Wastewater			Screenings
Pumping Station	(mg)	(mg)	Date	Volume (mg)	Collected (units)
Main	2,148.70	71.62	N/A	N/A	N/A
O St ¹	128.70	4.29			
			4/9/2010	28.10	Normal
Eastside	440.19	14.20	N/A	N/A	N/A
Poplar Point	608.88	19.64	N/A	N/A	N/A
Potomac	3,675.50	122.52	N/A	N/A	N/A
Rock Creek	182.50	5.89	N/A	N/A	N/A
Upper Anacostia	82.71	2.67	N/A	N/A	N/A
Earle Place	0.23	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
04/28/10	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
04/28/10	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		Total Foul		Approx. Screenings
	$Duration^1$	Total Influent	Sewer Volume	Total Effluent	$Volume^3$
Date	(Hours)	Volume (mg)	(mg)	Volume ² (mg)	# of bins (cu ft)
04/08/2010	8.30	11.56	9.82	1.74	2.5 (200)

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/ Dechl	Dosages		Residual Chlorine Test Results		Enterococcus Tes	Enterococcus Test Results		Fecal Coliform Test Results	
	or Syste					Count			Count	
Dete	m	NaOCl	$NaHSO_3$	I	Conc.	G.	Per	G.	Per	
Date	Used?	(mg/l)	(mg/l)	Location	(mg/l)	Site	100ml	Site	100ml	
04/08/10	Yes	5	2	Mix Chamber	0.1	Mix Chamber	150,000	Mix Chamber	250,000	
04/08/10	Yes	5	2	Anacostia River	0.1	Anacostia River	30,000	Anacostia River	230,000	

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	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)					
4/08/10	233	0.00	0.64	10.5	11.1	1.34	56.4					

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 During the			Schedule to Restore to
Structure No	Date Inspected	Month?	Dates out of Service	Reason	Service
14 - East	04/22/10	No	N/A	N/A	N/A
14 - West	04/22/10	No	N/A	N/A	N/A
15	04/22/10	No	N/A	N/A	N/A
15A	04/22/10	No	N/A	N/A	N/A
16 - East	04/22/10	No	N/A	N/A	N/A
16 - West	04/22/10	No	N/A	N/A	N/A
24 - North	04/22/10	No	N/A	N/A	N/A
24 - Middle	04/22/10	No	N/A	N/A	N/A
24 - South	04/22/10	No	N/A	N/A	N/A
34	04/22/10	No	N/A	N/A	N/A
35	04/22/10	No	N/A	N/A	N/A
52	04/22/10	No	N/A	N/A	N/A

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

	tubic bailis & berri	on 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	Potomac Pumping Station
	Motor Control Center (MCC) caught fire, resulting in electric power outage to pumps and
Cause	motors in the station. The power failure rendered the station incapacitated for about four hours.
Date/ Time Discovered	April 14, 2010 @ 11:30 am
	Electricians and Engineers worked on the equipment for about four hours to restore one large
Action Taken	pump into operation, which was sufficient to handle the sanitary flow.
Date/Time Discharge Ceased	April 14, 2010 @ 3: 30 pm
Estimated Volume (mg)	500,000 gallons
Did Overflow Reach Receiving	Yes, Potomac River
water?	
	The root cause of the electrical failure is under investigation. DCWASA shall implement any
	recommendations resulting from the ongoing investigation of the MCC failure. The station is
Action taken to prevent	undergoing major rehabilitation; construction is expected to be substantially completed by the
reoccurrence	end of June 2010.

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

				Anacostia CSS							
				Inspe	ections			Clea	ning		
				Total						Tota	l CBs
				CBs	Total CBs	CBs Clea	ned Thru	CB's C	Cleaned	Cleaned This Year	
			CBs in	Inspected	Inspected	Last N	Month	this I	<i>Month</i>	to Date	
****	T. 1 CD	CBs in	Anacosti	Once this	Twice this	m . 1	I GGG	m . 1	1 000	TD . 1	T 000
Ward	Total CBs	CSS	a CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	734	103	1187	1026	642	632	1829	1658
2	4,714	4,112	2,316	709	36	861	742	593	517	1454	1259
3	3,555	461	_	0	0	3489	344	61	8	3550	352
3	3,333	401	-	U	0	3489	344	01	0	3330	332
4	2,782	1,985	159	47	0	815	366	317	226	1132	592
5	2,167	1,035	1,035	1,035	60	504	301	1663	794	2167	1095
		•									
6	1,783	1,594	1,594	76	0	62	51	38	25	100	76
7	2,313	-	-	0	0	256	0	53	0	309	0
8	1,278	116	116	26	0	42	22	43	4	85	26
0	1,270	110	110	20	0	72	22	73	7	0.5	20
WASA Subtotal	20,183	10,871	5,954	2,627	199	7,216	2,852	3,410	2,206	10,626	5,058
DDOT (via VMS)				_	_						
Subtotal				0	0			0	0	0	0
Grand Total	20,183	10,871	5,954	2,627	199			3,410	2,206	10,626	5,058
% Cleaned/Inspected to Date				44%	3%					53%	46%

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	4/27/10	Good	Minor	Nets Emptied	375 lbs.
018			Maintenance		
Bar Rack CSO 040	4/7/10	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	4/7/10	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:	22
Days not Operating	5
Reason not Operating	Strong winds and inclement weather.
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	None
Dates	n/a
Reason	n/a
Plan to Restore to Service	n/a
Volume Material Collected	70 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:									In	spector's Initials:
		Ove	rflo	Ol	oserv	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	NE								
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)

Monthly Rain Totals

•				
Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
4/1/2010	0	0	0	0
4/2/2010	0	0	0	0
4/3/2010	0	0	0	0
4/4/2010	0	0	0	0
4/5/2010	0	0	0	0
4/6/2010	0	0	0	0
4/7/2010	0	0	0	0
4/8/2010	0	0	0	0
4/9/2010	0	0	0	0
4/10/2010	0	0	0	0
4/11/2010	0	0	0	0
4/12/2010	0	0	0	0
4/13/2010	0	0	0	0
4/14/2010	0	0	0	0
4/15/2010	0	0	0	0
4/16/2010	0.02	0.01	0.19	0.01
4/17/2010	0	0	0	0
4/18/2010	0	0	0	0
4/19/2010	0	0	0	0
4/20/2010	0	0	0	0
4/21/2010	0	0	0	0
4/22/2010	0	0	0	0
4/23/2010	0	0	0	0
4/24/2010	0	0	0	0
4/25/2010	0	0	0	0
4/26/2010	0	0	0	0
4/27/2010	0	0	0	0
4/28/2010	0.02	0.02	0.02	0.02
4/29/2010	0	0	0	0
4/30/2010	0	0	0	0
TOTALS	0.04	0.03	0.21	0.03



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Serving the Public • Protecting the Environment

Monthly Operations Report For Combined Sewer System Month: May 2010

Prepared By:

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

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

Monthly Operations Report for Combined Sewer System Month: May 2010

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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 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.

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Table 2-1 Regulator Structures

	Condition						
		Associated NPDES	Date	Go	Needs Work		
Struct No.	Location	Outfall	Inspected	od		Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/12/10	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/12/10	*			
5	Poplar Point Pumping Station	004	05/03/10	*			
6	Chicago Street and Railroad Ave, SE	005	05/03/10	*			
7	W Street and Railroad Ave, SE	005	05/03/10	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	05/03/10	*			
9	13 th Street and Ridge Place, SE	007	05/03/10	*			
11	"O" Street Pumping Station	011(a)	05/13/10	*			
12	Storm Pump Discharge at Main Pumping Station	011	05/13/10	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	05/03/10	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	05/13/10	*			
15	South Capitol and E Streets	010	05/13/10	*			
15a	Half and L Streets, SE	010	05/11/10	*			
15b	South Capitol and I Streets	010	05/11/10	*			
15c	South Capitol and I Streets	010	05/11/10	*			
16	North of Main Sewage Pumping Station	012	05/13/10	*			
17	4 th and N Streets, SE, Both Extended	013	05/10/10	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	05/24/10	*			
18	6 th and M Streets, SE	014	05/10/10	*			
19	9 th and M Streets, SE	015	05/05/10	*			
19a	9 th and M Streets, SE	015	05/10/10	*			
20	12 th and M Streets, SE	016	05/10/10	*			
20a	12 th and M Streets, SE	016	05/05/10	*			
21	14 th and M Streets, SE	017	05/21/10	*			

					Condition		
		Associated NPDES	Date Go Needs Work				
Struct No.	Location	Outfall	Inspected	od		Work Needed	Work performed
22a	Barney Circle and Pennsylvania Ave, SE	018	05/21/10	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	05/21/10	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	05/21/10	*			
22d	Kentucky Ave and Potomac Street, SE	018	05/26/10	*			
22e	14 th Street and Kentucky Ave, SE	018	05/26/10	*			
23	Independence Ave, 21 st Street, SE, Extended	019	05/14/10	*			
24a	East Capitol St, west of RFK stadium	019	05/14/10	*			
28	21st and Constitution Ave, NW	020	05/14/10	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	05/17/10	*			
30	17 th and D Streets, NW	020	05/17/10	*			
31	15 th Street and Pennsylvania Ave, NW	020	05/19/10	*			
33	10 th and F Streets, NW	020	05/19/10	*			
34	23 rd Street, north of Constitution Ave, NW	020	05/19/10	*			
34a	23 rd Street near C Street, NW	020	05/13/10	*			
35	Northeast of Roosevelt Bridge, NW (1)	021	05/13/10	*			
36	27 th and I Streets, NW	022	05/17/10	*			
36a	New Hampshire Ave and Eye Street, NW	022	05/11/10	*			
36b	19th and L Streets, NW	022, 034	05/11/10	*			
36d	17 th and L Streets, NW	022, 034	05/11/10	*			
36g	18 th and M Streets, NW	022, 034	05/11/10	*			
36h	18 th and M Streets, NW	022, 034	05/11/10	*			
37	27 th and Eye Streets, NW	022	05/17/10	*			
38	29 th and K Streets, NW	024	05/05/10	*			
38a	30 th Street, south of K Street, NW	024	05/05/10	*			
39a	30 th and K Streets, NW	024	05/05/10	*			
39b	30 th and K Streets, NW	024	05/05/10	*			
41b	31st and K Streets, NW	025	05/14/10	*			
41c	31st and K Streets, NW	025	05/14/10	*			

				Condition			
		Associated NPDES	Date	Go	Needs Work		
Struct No.	Location	Outfall	Inspected	od		Work Needed	Work performed
42	Wisconsin Ave and K Street, NW	026	05/14/10	*			
43	Potomac and Water Streets, NW	027	05/14/10	*			
43a	Potomac and Water Streets, NW	027	05/14/10	*			
44	Water Street, west of Potomac St, NW	027	05/14/10	*			
45	36 th and M Streets, NW (1)	028	05/10/10	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	05/10/10	*			
47	38 th Street and Reservoir Road, NW	029	05/10/10	*			
47a	37 th and T Streets, NW	029	05/10/10	*			
47b	37 th and T Streets, NW	029	05/10/10	*			
47c	38 th and W Streets, NW	029	05/10/10	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	05/11/10	*			
50	26 and M Streets, NW	032	05/11/10	*			
51	N Street Extended, west of 25 th Street, NW	033	05/11/10	*			
52	22 nd Street between M and N Streets, NW	034	05/20/10	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	05/20/10	*			
53	22 nd and M Streets, NW	022, 034	05/20/10	*			
53a	22 nd and M Streets, NW	022, 034	05/20/10	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	05/19/10	*			
53c	L and 22 nd Streets, NW	022	05/19/10	*			
54	23 rd and O Streets, NW	034	05/21/10	*			
55	22 nd Street, south of Q Street, NW	035	05/21/10	*			
55a	22 nd Street, south of Q Street, NW	035	05/21/10	*			
56	23 rd and Massachusetts Ave, NW	036	05/21/10	*			
57	23 rd Street, south of Q Street, NW	036	05/21/10	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	05/24/10	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	05/24/10	*			
60	Connecticut Ave, east of Rock Creek, NW	038	05/24/10	*			

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					Condition		
		Associated NPDES	Date	Go	Needs Work		
Struct No.	Location	Outfall	Inspected	od		Work Needed	Work performed
61	Biltmore St, Extended, east of Rock Creek, NW	040	05/11/10	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	05/11/10	*			
63	Harvard Street and Rock Creek Parkway, NW	042	05/12/10	*			
64	Adams Mill Road, south of Irving Street, NW	043	05/12/10	*			
65	Kenyon Street and Adams Mill Road, NW	044	05/12/10	*			
65a	Kenyon Street and Adams Mill Road, NW	044	05/12/10	*			
66	Adams Mill Road and Lamont Street, NW	045	05/12/10	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	05/12/10	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	05/12/10	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	05/12/10	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	05/12/10	*			
70i	5 th and Quackenbos Streets, NW	049	05/10/10	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	05/19/10	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	05/21/10	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	05/21/10	*			
73	O Street Extended and Rock Creek Parkway, NW	052	05/21/10	*			
74	Q Street, west of Rock Creek, NW	053	05/28/10	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	05/28/10	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	05/28/10	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	05/28/10	*			
78	28th Street Extended, west of Rock Creek, NW	057	05/28/10	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	05/21/10	*			
84	26 th and P Streets, NW	060	05/21/10	*			
84a	26 th and P Streets, NW	060	05/21/10	*			

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

			(Outfall	Tide	Gate	Tide Gate				
			Ca	ondition	Pres	ent?	Cond	ition	CSO Sign		
NPDES		Date		Needs				Needs		Needs	Notes, Work Needed or
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Performed
	Bolling Air Force Base, at Giavanolli and										
003	Chanute, SW	05/12/10	*		*		*		*		
	Across from Navy Yard, aligned with										
005	Parsons Ave., SE	05/27/10	*		*		*		*		
	Good Hope Road and Welsh Memorial										
006	Bridge	05/27/10	*		*		*		*		
	Between 11 th St. and Anacostia Bridges,										
007	SE	05/27/10	*		*		*		*		
009	O St. Sewage Pumping Station, SE	05/20/10	*		*		*		*		
010	O St. Sewage Pumping Station, SE	05/20/10	*			*			*		
011	Main Sewage Pumping Station, SE	05/20/10	*			*			*		
011(a)	Main Sewage Pumping Station, SE	05/20/10	*		*		*		*		
	Main Sewage Pumping Station, SE	05/20/10									
012	Main Sewage Fumping Station, SE		*		*		*		*		
	Southeast Federal Center, aligned with 4 th										
013	St.	05/28/10	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	05/28/10	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	05/28/10	*			*			*		
016	12th and O Streets, SE	05/28/10	*		*		*		*		
017	M and Water Street, SE	05/28/10	*		*		*		*		
	East of Barney Circle and South of	05/28/10									
018	Pennsylvania Avenue Bridge, SE		*		*		*		*		
	Adjacent to Service Drive behind swirl	05/28/10									
019	facility and D.C. General Hospital		*			*			*		

				Outfall ondition	Tide Pres	Gate sent?	Tide Cond		CS	O Sign	
NPDES		Date		Needs	1705		Corre	Needs	- 65	Needs	Notes, Work Needed or
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Performed
	Rock Creek Parkway and Independence,										
	NW	05/27/10	*		*		*		*		
021	Rock Creek Parkway and C St., NW	05/27/10	*			*			*		
022	Rock Creek Parkway and G St., NW	05/27/10	*		*		*		*		
024	South of 30 th and K Streets, NW	05/27/10	*		*			*	*		
025	South of 31st and K Streets, NW	05/27/10	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	05/27/10	*		*		*		*		
027	33 rd and Water Sts., NW	05/27/10	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	05/27/10	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	05/27/10	*		*		*		*		
	Rock Creek Pkwy and Pennsylvania	05/27/10									
031	Avenue, NW.		*			*			*		
032	26th and M Street, NW.	05/11/10	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	05/11/10	*		*		*		*		
	Just west of St. Francis Jr. High and north of N St., NW	05/21/10	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	05/21/10	*		*		*		*		
036	22nd Street, South of Q Street NW.	05/21/10	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	05/25/10	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	05/24/10	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	05/11/10	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	05/11/10	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	05/25/10	*		*		*		*		

				Outfall ondition		Gate sent?	Tide Cond	lition	CS	O Sign	
NPDES Outfall	Location	Date Inspected	ОК	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	Notes, Work Needed or Performed
042	Harvard St. and Beach Dr NW.	05/25/10	*		*		*		*		,
043	Upstream of Harvard St. and Beach Dr NW.	05/25/10	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	05/25/10	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	05/25/10	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	05/12/10	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	05/12/10	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	05/12/10	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	05/12/10	*		*		*		*		
050	Rock Creek Parkway and L St., NW	0519/10	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.		*		*		*		*		
		05/19/10									
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	05/25/10	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	05/25/10	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	05/28/10	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	05/28/10	*		*		*		*		

				Outfall ondition		Gate sent?	Tide (Condi		CS	O Sign	
NPDES		Date		Needs				Needs		Needs	Notes, Work Needed or
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Performed
057	28th Street and Rock Creek Parkway, NW	05/28/10	*		*		*		*		
	Connecticut Avenue and Rock Creek										
058	Parkway, NW.	05/11/10	*			*			*		
	North of P Street Bridge and Rock Creek										
060	Pkwy, NW	05/25/10	*		*		*		*		

Pumping Stations 2.3

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	30	4	10	N/A		N/A	
Eastside	30	2	4	# 1 Screen	4/1/10	Motor bad	July 31, 2010
Poplar Point	30	2 1	3	# 1 Sanitary Pump	4/1/10	Pump bad-Rebuild	July 31, 2010
				# 3 Sanitary Pump	4/1/10	Pump jammed	July 31, 2010
Potomac	30	4	5	# 1 Sanitary Pump	5/17/10	Pump protection panel display bad	May 30, 2010

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 Plantenance										
Pumping Station	Date Performed	Type of Preventive Maintenance Performed ¹	Comments							
Main	05/27/10	Group A	Add oil, grease bearings and replace packing if needed.							
O St	05/27/10	Group A	Add oil, grease bearings and replace packing if needed.							
Eastside	05/27/10	Group A	Add oil, grease bearings and replace packing if needed.							
Poplar Point	05/27/10	Group A	Add oil, grease bearings and replace packing if needed.							
Potomac	05/27/10	Group A	Add oil, grease bearings and replace packing if needed.							
Rock Creek	05/27/10	Group A	Add oil, grease bearings and replace packing if needed.							
Upper Anacostia	05/27/10	Group A	Add oil, grease bearings and replace packing if needed.							
Earle Place	05/27/10	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

	Sanitary .	Pumpage	Storm Wo	ater/CSO Pumped To	Anacostia River
	Total	Daily Average			
	Wastewater	Wastewater			Screenings
Pumping Station	(mg)	(mg)	Date	Volume (mg)	Collected (units)
Main	1,653.80	59.06	N/A	N/A	N/A
O St ¹	139.80	4.99	N/A	None	Normal
Eastside	512.87	18.32	N/A	N/A	N/A
Poplar Point	603.90	21.57	N/A	N/A	N/A
Potomac	3,695.40	131.98	N/A	N/A	N/A
Rock Creek	200.83	7.17	N/A	N/A	N/A
Upper Anacostia	48.96	1.75	N/A	N/A	N/A
Earle Place	0.22	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
05/26/10	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
05/26/10	Group A	Comments

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		Total Foul		Approx. Screenings
	$Duration^{1}$	Total Influent	Sewer Volume	Total Effluent	Volume ³
Date	(Hours)	Volume (mg)	(mg)	Volume ² (mg)	# of bins (cu ft)
05/03/2010	2	9.08	9.08	0	(0.75)60
05/14/2010	8	4.53	4.53	0	(1.25)100
05/17/2010	4	3.19	3.19	0	(0.65)52
05/23/2010	8	16.79	3.88	12.91	(1.50)120
05/28/2010	7.5	4.57	4.57	0	(1.00)80

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 Chlori	ne Test				
	Dechl	Dosages		Results		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	(mg/l)	Site	100ml	Site	100ml
05/23/2010	Yes	5	2	Mix Chamber	0.1	Mix Chamber	<10	Mix Chamber	<10
05/23/2010	Yes	5	2	Anacostia River	0.0	Anacostia River	108	Anacostia River	<10

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	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)					
5/23/10	126	0.00	0.40	1.99	2.39	0.43	10.1					

2.5 Inflatable Dams

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

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

Inflatable Dam		Was Dam Out of Service During the			Schedule to Restore to
Structure No	Date Inspected	Month?	Dates out of Service	Reason	Service
14 - East	05/25/10	No	N/A	N/A	N/A
14 - West	05/25/10	No	N/A	N/A	N/A
15	05/25/10	No	N/A	N/A	N/A
15A	05/25/10	No	N/A	N/A	N/A
16 - East	05/25/10	No	N/A	N/A	N/A
16 - West	05/25/10	No	N/A	N/A	N/A
24 - North	05/25/10	No	N/A	N/A	N/A
24 - Middle	05/25/10	No	N/A	N/A	N/A
24 - South	05/25/10	No	N/A	N/A	N/A
34	05/25/10	No	N/A	N/A	N/A
35	05/25/10	No	N/A	N/A	N/A
52	05/25/10	No	N/A	N/A	N/A

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

		of the state of th
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

There was no dry weather overflow (DWOs) during May 2010.

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

				1	stia CSS								
					ections	Cleaning							
				Total						Tota	l CBs		
				CBs	Total CBs	CBs Clea	ned Thru	CB's C	Cleaned	Cleaned This Year			
			CBs in	Inspected	Inspected	Last N	Month	this I	Month	to Date			
117 1	T . I CD	CBs in	Anacosti	Once this	Twice this	T-4-1	T 1 I CCC		T 1 J. CCC		T. CCC	Tr.4-1	T. CCC
Ward	Total CBs	CSS	a CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS		
1	1,591	1,568	734	734	158	1829	1658	73	71	1902	1729		
2	4,714	4,112	2,316	975	36	1454	1259	543	473	1997	1732		
3	3,555	461	-	0	0	3550	352	666	60	4216	412		
4	2,782	1,985	159	65	0	1132	592	321	229	1453	821		
5	2,167	1,035	1,035	1035	508	2167	1095	939	448	3106	1543		
6	1,783	1,594	1,594	109	65	100	76	37	33	137	109		
7	2,313	-	-	0	0	309	0	63	0	372	0		
8	1,278	116	116	26	0	85	26	0	0	85	26		
WASA Subtotal	20,183	10,871	5,954	2,944	767	10,626	5,058	2,642	1,314	13,268	6,372		
DDOT (via VMS)		•											
Subtotal				0	0			0	0	0	0		
Grand Total	20,183	10,871	5,954	2,944	767			2,642	1,314	13,268	6,372		
% Cleaned/Inspected to Date				49%	13%					66%	59%		

4.2 BMP Demonstration Projects

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

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

Table 4-2 BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO	5/24/10	Good	Minor	Nets Cleaned	400 lbs.
018			Maintenance		
Bar Rack CSO 040	5/11/10	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	5/25/10	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	Inclement weather - strong winds
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	None
Dates	n/a
Reason	n/a
Plan to Restore to Service	n/a.
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:											In	spector's Initials:
		Ove	erflo	Ol	oserv	ed	Qu	Quantity of			ntity	of	
cso	Time of Observ ation	Υ	N	L	М	Н	L	M	Н	L	M	Н	REMARKS/OTHER
009													
010				NON	1E								
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)

Monthly Rain Totals

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
5/1/2010	0	0	0	0
5/2/2010	0	0	0	0
5/3/2010	0.32	0.02	0.29	0.29
5/4/2010	0	0	0.01	0.01
5/5/2010	0	0	0	0
5/6/2010	0	0	0	0
5/7/2010	0	0	0	0
5/8/2010	0	0	0	0
5/9/2010	0	0.03	0	0
5/10/2010	0	0	0	0
5/11/2010	0.01	0	0.04	0.04
5/12/2010	0.08	0.01	0.01	0.01
5/13/2010	0.01	0	0	0
5/14/2010	0.11	0	0.25	0.25
5/15/2010	0	0	0	0
5/16/2010	0	0	0	0
5/17/2010	0.29	0	0.25	0.25
5/18/2010	0.09	0	0.03	0.03
5/19/2010	0	0	0	0
5/20/2010	0	0	0	0
5/21/2010	0	0	0.02	0.02
5/22/2010	0.01	0	0.02	0.02
5/23/2010	0.56	0	0.39	0.39
5/24/2010	0	0	0.04	0.04
5/25/2010	0	0	0.03	0.03
5/26/2010	0	0	0	0
5/27/2010	0.01	0	0.34	0.34
5/28/2010	0	0	0.24	0.24
5/29/2010	0	0	0	0
5/30/2010	0	0	0	0
5/31/2010	0	0	0	0
TOTALS	1.49	0.06	1.96	1.96



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Serving the Public • Protecting the Environment

For Combined Sewer System Month: June 2010

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: June 2010

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INTRODUCTION 1.

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

					Condition		
C. A.		Associated NPDES		G .	Needs Work	117 1 37 1 1	II. 1 C
Struct No.	Location CV AFR 2250 St. at Sci. R. GW	Outfall	Inspected	Good *		Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	06/10/10				
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	06/10/10	*			
5	Poplar Point Pumping Station	004	06/17/10	*			
6	Chicago Street and Railroad Ave, SE	005	06/01/10	*			
7	W Street and Railroad Ave, SE	005	06/01/10	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	n/a	*			Combined flow at this structure was separated on May
9	13 th Street and Ridge Place, SE	008	06/01/10	*			25, 2010.
11	"O" Street Pumping Station	011(a)	06/17/10	*			
12	Storm Pump Discharge at Main Pumping Station	011	06/17/10	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	06/09/10	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	06/17/10	*			
15	South Capitol and E Streets	010	06/11/10	*			
15a	Half and L Streets, SE	010	06/11/10	*			
15b	South Capitol and I Streets	010	06/11/10	*			
15c	South Capitol and I Streets	010	06/11/10	*			
16	North of Main Sewage Pumping Station	012	06/17/10	*			
17	4 th and N Streets, SE, Both Extended	013	06/09/10	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	06/18/10	*			
18	6 th and M Streets, SE	014	06/01/10	*			
19	9 th and M Streets, SE	015	06/23/10	*			
19a	9 th and M Streets, SE	015	06/23/10	*			
20	12 th and M Streets, SE	016	06/23/10	*			

				(Condition		
		Associated NPDES			Needs Work		
Struct No.	Location	Outfall	Inspected	Good *		Work Needed	Work performed
20a	12 th and M Streets, SE	016	06/23/10				
21	14 th and M Streets, SE	017	06/18/10	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	06/25/10	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	06/25/10	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	06/25/10	*			
22d	Kentucky Ave and Potomac Street, SE	018	06/02/10	*			
22e	14 th Street and Kentucky Ave, SE	018	06/02/10	*			
23	Independence Ave, 21 st Street, SE, Extended	019	06/25/10	*			
24a	East Capitol St, west of RFK stadium	019	06/08/10	*			
28	21 st and Constitution Ave, NW	020	06/11/10	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	06/11/10	*			
30	17 th and D Streets, NW	020	06/07/10	*			
31	15 th Street and Pennsylvania Ave, NW	020	06/07/10	*			
33	10 th and F Streets, NW	020	06/07/10	*			
34	23 rd Street, north of Constitution Ave, NW	020	06/17/10	*			
34a	23 rd Street near C Street, NW	020	06/11/10	*			
35	Northeast of Roosevelt Bridge, NW	021	06/17/10	*			
36	27 th and I Streets, NW	022	06/14/10	*			
36a	New Hampshire Ave and Eye Street, NW	022	06/14/10	*			
36b	19 th and L Streets, NW	022, 034	06/14/10	*			
36d	17 th and L Streets, NW	022, 034	06/14/10	*			
36g	18 th and M Streets, NW	022, 034	06/14/10	*			
36h	18 th and M Streets, NW	022, 034	06/14/10	*			
37	27 th and Eye Streets, NW	022	06/14/10	*			
38	29 th and K Streets, NW	024	06/02/10	*			
38a	30 th Street, south of K Street, NW	024	06/02/10	*			
39a	30 th and K Streets, NW	024	06/02/10	*			
39b	30 th and K Streets, NW	024	06/02/10	*			

			_	(Condition		
Struct No.	Logation	Associated NPDES		Caad	Needs Work	Work Nooded	Work norformed
41b	Location 31 st and K Streets, NW	Outfall 025	<i>Inspected</i> 06/09/10	*		work Needed	Work performed
41c	31 st and K Streets, NW	025	06/09/10	*			
42	Wisconsin Ave and K Street, NW	023	06/09/10	*			
43	Potomac and Water Streets, NW	026	06/09/10	*			
43a	Potomac and Water Streets, NW	027	06/09/10	*			
44	Water Street, west of Potomac St, NW	027	06/09/10	*			
45	36 th and M Streets, NW	027	06/07/10	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	028	06/07/10	*			
47	38 th Street and Reservoir Road, NW	029	06/07/10	*			
47a	37 th and T Streets, NW	029	06/07/10	*			
47b	37 th and T Streets, NW	029	06/07/10	*			
47c	38 th and W Streets, NW	029	06/07/10	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	06/14/10	*			
50	26 and M Streets, NW	032	06/14/10	*			
51	N Street Extended, west of 25 th Street, NW	033	06/14/10	*			
52	22 nd Street between M and N Streets, NW	034	06/24/10	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	06/24/10	*			
53	22 nd and M Streets, NW	022, 034	06/24/10	*			
53a	22 nd and M Streets, NW	022, 034	06/24/10	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	06/14/10	*			
53c	L and 22 nd Streets, NW	022	06/14/10	*			
54	23 rd and O Streets, NW	034	06/21/10	*			
55	22 nd Street, south of Q Street, NW	035	06/21/10	*			
55a	22 nd Street, south of Q Street, NW	035	06/21/10	*			
56	23 rd and Massachusetts Ave, NW	036	06/21/10	*			
57	23 rd Street, south of Q Street, NW	036	06/21/10	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	06/18/10	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	06/18/10	*			

5

			_	(Condition		
G M		Associated NPDES			Needs Work	**** * * * * * * * * * * * * * * * * * *	W 1 C 1
Struct No.	Location	Outfall	Inspected	Good *		Work Needed	Work performed
60	Connecticut Ave, east of Rock Creek, NW	039	06/18/10				
61	Biltmore St, Extended, east of Rock Creek, NW	040	06/18/10	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	06/16/10	*			
63	Harvard Street and Rock Creek Parkway, NW	042	06/16/10	*			
64	Adams Mill Road, south of Irving Street, NW	043	06/16/10	*			
65	Kenyon Street and Adams Mill Road, NW	044	06/16/10	*			
65a	Kenyon Street and Adams Mill Road, NW	044	06/16/10	*			
66	Adams Mill Road and Lamont Street, NW	045	06/16/10	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	06/16/10	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	06/16/10	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	06/16/10	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	06/16/10	*			
70i	5 th and Quackenbos Streets, NW	049	06/02/10	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	06/02/10	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	06/18/10	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	06/18/10	*			
73	O Street Extended and Rock Creek Parkway, NW	052	06/18/10	*			
74	Q Street, west of Rock Creek, NW	053	06/21/10	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	06/25/10	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	06/25/10	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	06/21/10	*			
78	28th Street Extended, west of Rock Creek, NW	057	06/25/10	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	06/10/10	*			
84	26 th and P Streets, NW	060	06/18/10	*			
84a	26 th and P Streets, NW	060	06/18/10	*			

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

			0	utfall	Tide	Gate	Tide G	ate			
			Con	ndition	Pres	sent?	Condi	tion		CSO Sign	
NPDES		Date		Needs				Needs			
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Needs Work	Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	06/10/10	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	06/10/10	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	06/10/10	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	06/10/10	*		*		*		*		
009	O St. Sewage Pumping Station, SE	09/10/10	*		*		*		*		
010	O St. Sewage Pumping Station, SE	06/28/10	*			*			*		
011	Main Sewage Pumping Station, SE	06/28/10	*			*			*		
011(a)	Main Sewage Pumping Station, SE	06/28/10	*		*		*		*		
012	Main Sewage Pumping Station, SE	06/28/10	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	06/09/10	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	06/21/10	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	06/21/10	*			*			*		
016	12th and O Streets, SE	06/28/10	*		*		*		*		
017	M and Water Street, SE	06/28/10	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	06/28/10	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	06/29/10	*			*			*		
020	Rock Creek Parkway and Independence, NW	06/29/10	*		*		*		*		
021	Rock Creek Parkway and C St., NW	06/29/10	*			*			*		
022	Rock Creek Parkway and G St., NW	06/29/10	*		*		*		*		
024	South of 30 th and K Streets, NW	06/29/10	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.

				utfall		Gate		Tide Gate Condition			
		_	Co	ndition	Pres	sent?	Condi			CSO Sign	
NPDES Outfall	Location	Date	OK	Needs Work	Yes	No	OK	Needs		Needs Work	Notes Work Nooded on Dorformed
025	South of 31st and K Streets, NW	<i>Inspected</i> 06/29/10	*	WOLK	*	NO	*	WOIK	*	Needs Work	Notes, Work Needed or Performed
025	Wisconsin Avenue and Water Street, NW	06/29/10	*		*		*		*		
020	33 rd and Water Sts., NW	06/29/10	*			*			*		
027	Key Bridge and Whitehurst Freeway, NW	06/29/10	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	06/29/10	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	06/14/10	*			*			*		
032	26th and M Street, NW.	06/14/10	*			*			*		
032	Across street from St. Francis Jr. High and aligned with	06/14/10									
033	N St., NW.	00/11/10	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	06/21/10	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	06/21/10	*		*		*		*		
036	22nd Street, South of Q Street NW.	06/10/10	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	06/18/10	*		*		*		*		
0.20	Between arch footbridge and Connecticut Ave., north of	06/10/10	*		*		*		*		
038	Kalorama Circle, NW.	06/18/10	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	06/18/10	*		*		*		*		
	Aligned with Biltmore Rd., between Connecticut Ave										
040	and Ellington Bridge.	06/18/10	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	06/23/10	*		*		*		*		
042	Harvard St. and Beach Dr NW.	06/23/10	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	06/23/10	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	06/23/10	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	06/23/10	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	06/17/10	*			*			*		
	-	06/17/10									
047	Piney Branch Parkway and Ingleside Terrace		*		*		*		*		

				utfall ndition		Gate sent?	Tide G Condi			CSO Sign	
NPDES		Date		Needs				Needs			
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Needs Work	Notes, Work Needed or Performed
048	South of Piney Branch Parkway and 17 th St.	06/17/10	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	06/17/10	*		*		*		*		
050	Rock Creek Parkway and L St., NW	06/02/10	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	06/10/10	*		*		*		*		
	Between P and Penna. Ave Bridges, aligned with O Street, NW.	06/10/10	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	06/10/10	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	06/25/10	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	06/25/10	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	06/25/10	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	06/10/10	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	06/10/10	*		*		*		*		

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			
Station	Inspections	Screens	Pumps	of Service	Dates	Reason	Schedule to Restore to Service
Main	31	4	10	N/A		N/A	
Eastside	31	2	4	# 1 Screen	4/1/10	Motor bad	July 31, 2010
Poplar Point	31	2 1	3	# 1 Sanitary Pump	4/1/10	Pump bad – rebuild	July 31, 2010
				# 3 Sanitary Pump	4/1/10	Pump jammed	July 31, 2010
Potomac	31	4	5	N/A		N/A	

Notes:

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 Maintenance							
		Type of Preventive Maintenance Performed ¹	Comments				
1 umping station	Date I erjormea	1 етјоттей	Comments				
Main	06/23/10	Group A	Add oil, grease bearings and replace packing if needed.				
O St	06/23/10	Group A	Add oil, grease bearings and replace packing if needed.				
Eastside	06/23/10	Group A	Add oil, grease bearings and replace packing if needed.				
Poplar Point	06/23/10	Group A	Add oil, grease bearings and replace packing if needed.				
Potomac	06/23/10	Group A	Add oil, grease bearings and replace packing if needed.				
Rock Creek	06/23/10	Group A	Add oil, grease bearings and replace packing if needed.				
Upper Anacostia	06/23/10	Group A	Add oil, grease bearings and replace packing if needed.				
Earle Place	06/23/10	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

Tumping Suctions Tumpage									
	Sanitary Pı	ımpage	Storm Water/CSO Pumped To Anacostia River						
	Total Wastewater	Daily Average			Screenings Collected				
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	(units)				
Main	2,146.30	71.54	N/A	N/A	N/A				
O St ¹	134.20	4.47	06/01	8.8	Normal				
			06/28	15.5	Normal				
Eastside	453.06	14.61	N/A	N/A	N/A				
Poplar Point	576.00	18.58	N/A	N/A	N/A				
Potomac	3,740.00	124.67	N/A	N/A	N/A				
Rock Creek	143.33	4.62	N/A	N/A	N/A				
Upper Anacostia	54.17	1.75	N/A	N/A	N/A				
Earle Place	0.16	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
06/25/10	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
06/25/10	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				Approx. Screenings
	$Duration^{l}$	Total Influent	Total Foul Sewer	Total Effluent	Volume ³
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)
6/1/2010	5	3.90	3.90	0	0.60 (48)
6/14/2010	6	6.21	6.21	0	0.80 (64)
6/27/2010	4	0.69	0.69	0	0.00(0)
6/28/2010	5	5.82	5.82	0	2.20(176)

Note

Chlorination/Dechlorination Systems.

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

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

Table 2-9 Northeast Boundary Swirl Facility – Disinfection Performance

			Residual Chlorine Test						
	Chlor/	Dos	ages	Results		Enterococcus Test Results		Fecal Coliform Test Results	
	Dechlor						Count		
	System	NaOCl	$NaHSO_3$		Conc.		Per		Count Per
Date	Used?	(mg/l)	(mg/l)	Location	(mg/l)	Site	100ml	Site	100ml
				NC	NE				
				110	71 112				

Note: * Samples were collected and transported to the Laboratory for testing; the Laboratory was unable to account for the sample. A review of procedures has been conducted with laboratory and sampling personnel to prevent re-occurrence.

1. Mix Chr.: Mixing Chamber

2. River: River Outfall

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

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

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	06/24/10	No	N/A	N/A	N/A
14 - West	06/24/10	No	N/A	N/A	N/A
15	06/24/10	No	N/A	N/A	N/A
15A	06/24/10	No	N/A	N/A	N/A
16 - East	06/24/10	No	N/A	N/A	N/A
16 - West	06/24/10	No	N/A	N/A	N/A
24 - North	06/24/10	No	N/A	N/A	N/A
24 - Middle	06/24/10	No	N/A	N/A	N/A
24 - South	06/24/10	No	N/A	N/A	N/A
34	06/24/10	No	N/A	N/A	N/A
35	06/24/10	No	N/A	N/A	N/A
52	06/24/10	No	N/A	N/A	N/A

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

Inflatable Dam Structure No.	Dam Location	Overflow Dates	Estimated Dungtion of Quantity (has)
14 (E & W)	2 1 0 M C4 4 CE	Overflow Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	2 nd & N Street, SE	3.7	N7/4
	Main Pumping Station	None	N/A
15	South Capitol & E Sts., SE	None	N/A
15A	Half & L Streets, SE	None	N/A
16 (E & W)	2 nd & N Street, SE		
	Main Pumping Station	None	N/A
24	Northeast Boundary Swirl Facility	None	N/A
34	23 rd & Constitution Ave., NW	None	N/A
35	Parking Lot, East of Kennedy Center, NW	None	N/A
52	22 nd Street, between M & N Streets, NW	None	N/A
Structures on Outfall Sewers		Overflow Dates	Estimated Duration of Overflow (hrs)
Outfall Structure 1	Blue Plains	None	This structure has been bulk-headed. Overflows are no longer possible.
Outfall Structure 1A	Blue Plains	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2(E & W)	Bowling AFB- Eglin Way & McGuire, SW	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:

Location	18 inch sanitary sewer just above Canal Road near Ashby and W Streets, NW
	District of Columbia Water and Sewer Authority maintenance crew met a District resident to
Cause	investigate a reported sanitary sewer leak.
Date/ Time Discovered	June 4, 2010 at 11:15 AM
Action Taken	WASA applied a quick setting concrete to stop the leak
Date/Time Discharge Ceased	June 4, 2010 @ 7:30 PM
Estimated Volume (mg)	8 gallons
Did Overflow Reach Receiving	Yes, Maddox Run, a stream from Battery Kemble Park which flows into the Potomac River.
water?	
Action taken to prevent	A contractor was contacted to perform permanent repairs. Each following day WASA crews made
reoccurrence	visual inspections and occasionally applied additional quick setting concrete to ensure that leakage did
	not recur. Permanent repairs are scheduled to begin by the middle of the week June 7, 2010.

	1063 Wisconsin Ave., NW
Location	
	District of Columbia Water and Sewer Authority maintenance crew responded to a service request from a National Park Service Ranger regarding a sewer leak at 1063 Wisconsin Avenue. The crew observed seepage through a retaining wall close to the canal and used a close circuit television camera (CCTV) to identify the source of the problem. They found that the sewer lateral serving the building was
Cause	partially collapsed.
Date/ Time Discovered	June 5, 2010 at 6:00 PM
Action Taken	DCWASA repair crew excavated and replaced the defective sewer lateral
Date/Time Discharge Ceased	June 6, 2010@ 8:30 AM
Estimated Volume (mg)	15 gallons
Did Overflow Reach Receiving	No.
water?	
Action taken to prevent	DCWASA repair crew excavated and replaced the defective sewer lateral
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

				Inspections	,	Cleaning					
			CBs in	Total Anacostia CBs Inspected	Total Anacostia CBs Inspected	CBs Cleaned Thru Last Month		CB's Cleaned this Month		Total CBs This Year	
Ward	Total CBs	CBs in CSS	Anacostia CSS	Once this Year	Twice this Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	734	578	1902	1729	423	417	2325	2146
2	4,714	4,112	2,316	1540	917	1997	1732	1150	1003	3147	2735
3	3,555	461	-	0	0	4216	412	746	97	4962	509
4	2,782	1,985	159	68	0	1453	821	24	17	1477	838
5	2,167	1,035	1,035	1035	602	3106	1543	196	94	3302	1637
6	1,783	1,594	1,594	189	0	137	109	90	80	227	189
7	2,313	-	-	0	0	372	0	79	0	451	0
8	1,278	116	116	32	3	85	26	70	6	155	32
WASA Subtotal	20,183	10,871	5,954	3,598	2,100	13,268	6,372	2,778	1,714	16,046	8,086
DDOT (via VMS) Subtotal				0	0			0	0	0	0
Grand Total	20,183	10,871	5,954	3,598	2,100			2,778	1,714	16,046	8,086
% Cleaned/Inspected to Date				60%	35%					79%	74%

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	6/28/10	Good	Minor	Nets emptied.	400 lbs.
			Maintenance		
Bar Rack CSO 040	6/18/10	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	6/23/10	Good	None	Routine Cleaning	(1)

Notes:

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

Report f

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:	22
Days not Operating	3
Reason not Operating	High winds.
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	0
Dates	n/a.
Reason	n/a.
Plan to Restore to Service	n/a.
Volume Material Collected	40 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:June 1, 2010 Inspector's Initials: CW Quantity of **Quantity of** Overflow Observed Time of Observa Ν M **REMARKS/OTHER CSO** H Н L Н tion M M 3:15 PM 009 3·15 PM **x** 010 3:15 PM x 011 3:15 PM 011a 3:15 PM x 012

Date:June 28, 2010											Ins	spector's Initials: VB	
		Ove	rflow	0	bserv	ed	Qι	antity	of	Qua	ntity c	f	
cso	Time of Observa tion	Υ	N	L	М	Н	L	M	Н	L	M	Н	REMARKS/OTHER
009													
010													
011													
011a													
	4:00 PM 5: PM	X Y		X Y			X Y			X Y			
012													

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

5.2 Rain Data

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

 Table 5-2
 Rainfall Data (inches)

Monthly Rain Totals				
Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
6/1/2010	0.07	0.07	0.07	0.07
6/2/2010	0	0	0	0
6/3/2010	0	0	0	0
6/4/2010	0	0	0	0
6/5/2010	0	0	0	0
6/6/2010	0	0	0	0
6/7/2010	0	0	0	0
6/8/2010	0	0	0	0
6/9/2010	0.01	0.01	0.01	0.01
6/10/2010	0	0.03	0	0
6/11/2010	0	0	0	0
6/12/2010	0	0	0	0
6/13/2010	0	0	0	0
6/14/2010	0	0	0	0
6/15/2010	0.01	0.01	0	0.01
6/16/2010	0.01	0.01	0	0.01
6/17/2010	0	0	0	0
6/18/2010	0	0	0	0
6/19/2010	0	0	0	0
6/20/2010	0	0	0	0
6/21/2010	0	0	0	0
6/22/2010	0	0	0	0
6/23/2010	0	0	0	0
6/24/2010	0	0	0	0
6/25/2010	0	0	0	0
6/26/2010	0	0	0	0
6/27/2010	0	0	0	0
6/28/2010	0.02	0.02	0.02	0.02
6/29/2010	0	0	0	0
6/30/2010	0	0	0	0
TOTALS	0.12	0.15	0.1	0.12

Combined Sewer System Model Results Period: April, May, June 2010 SCENARIO: Q2Y2010, 7-15-10

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				Total		Maximum	Minimum
		Number of	CSO	Duration of	Avg Duration	Duration of	Duration of
		Overflows	Overflow	Overflow	of Overflow	Overflow	Overflow
NPDES No.	Description	(Occurrences)	Volume (mg)	(hrs)	(hrs)	(hrs)	(hrs)
Anacostia CSC	20						
005	Chicago St and Railroad Station SE	7	0.24	9.00	1.29	1.75	0.25
000	Good Hope Road, West of Nichols	,	0.24	3.00	1.23	1.75	0.20
006	Ave.,SE	0	0.00	0.00	0.00	0.00	0.00
007	13 th Street and Ridge Place,SE	0	0.00	0.00	0.00	0.00	0.00
007	2nd Street, 300 feet North of N Place,	Ů	0.00	0.00	0.00	0.00	0.00
009	SE	0	0.00	0.00	0.00	0.00	0.00
	O Street SewagePumping Station, SE						
010	(pumped Overflow)	1	1.04	0.25	0.25	0.25	0.25
	South of Main Sewage Pumping						
011	Station, SE (pumped overflow)	1	0.83	0.25	0.25	0.25	0.25
	South of Main SewagePumping						
011a	Station, SE (gravity overflow)	0	0.00	0.00	0.00	0.00	0.00
	North of Main SewagePumping		_		_		
012	Station, SE (Tiber Creek)	1	0.001	0.25	0.25	0.25	0.25
013	4th and N Streets, SE	0	0.00	0.00	0.00	0.00	0.00
014	6th and M Streets, SE	6	0.43	9.25	1.54	2.50	1.00
015	9th and M Streets, SE	1	0.0004	0.25	0.25	0.25	0.25
016	12th and M Streets, SE	0	0.00	0.00	0.00	0.00	0.00
017	14th and M Streets, SE Barney Circle andPennsylvania Ave,	3	0.03	2.00	0.67	1.00	0.25
018	SE	12	0.50	22.50	1.88	F 00	0.25
018	Northeast Boundary - Swirl Effluent	0	0.50 0.00	22.50 0.00	0.00	5.00 0.00	0.25
019	Northeast Bound Swirl Bypass	0	0.00	0.00	0.00	0.00	0.00
010	SUBTOTAL		3.07	0.00	0.00	0.00	0.00
	000.01/12		0.07				
Potomac CSO:	s						
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
	23rd Street, North of Constitution Ave,						
020	NW (Easby Point)	0	0.00	0.00	0.00	0.00	0.00
021	Northeast ofRoosevelt Bridge, NW	0	0.00	0.00	0.00	0.00	0.00
022	27th and K Streets, NW	4	0.01	3.00	0.75	1.25	0.50
024	30th and K Streets, NW	0	0.00	0.00	0.00	0.00	0.00
025	31st & K St NW	0	0.000	0.00	0.00	0.00	0.00
026	Wisconsin Avenue andK St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West ofStreet, NW	6	0.87	26.25	4.38	8.50	2.75
028	36th and M Streets, NW Canal Road 1000 feet east of Rock	4	0.03	1.50	0.38	0.50	0.25
029	Creek,NW	0	0.00	0.00	0.00	0.00	0.00
029	SUBTOTAL	0	0.00	0.00	0.00	0.00	0.00
	SOBIOTAL		0.31				
Rock Creek							
	Pennsylvania Avenue, East Rock						
031	Creek, NW	0	0.00	0.00	0.00	0.00	0.00
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
	N Street extendedwest of 25th						
033	Street,NW	0	0.00	0.00	0.00	0.00	0.00
034	23rd and O Streets, SW	0	0.00	0.00	0.00	0.00	0.00
035	22nd Street south of Q Street, NW	0	0.00	0.00	0.00	0.00	0.00
036	22nd Street South of Q Street, NW	0	0.0000	0.00	0.00	0.00	0.00
007	Northwest of Belmontand Rock Creek		0.00	0.00	0.00	0.00	0.00
037	and Potomac Parkway	0	0.00	0.00	0.00	0.00	0.00
000	North of Belmont Road, east of		0.00	0.00	0.00	0.00	0.00
038	Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
020	Crock NW	_	0.00	0.00	0.00	0.00	0.00
039	Creek, NW Biltmore Street extended east of	0	0.00	0.00	0.00	0.00	0.00
040	RockCreek, NW	0	0.00	0.00	0.00	0.00	0.00
040	Ontario extended and Rock Creek	U	0.00	0.00	0.00	0.00	0.00
041	Parkway	0	0.00	0.00	0.00	0.00	0.00
U+1	i antway	U	0.00	0.00	0.00	0.00	0.00

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results Period: April, May, June 2010 SCENARIO: Q2Y2010, 7-15-10

				Total		Maximum	Minimum
		Number of	CSO	Duration of	Avg Duration	Duration of	Duration of
		Overflows	Overflow	Overflow	of Overflow	Overflow	Overflow
NPDES No.	Description	(Occurrences)	Volume (mg)	(hrs)	(hrs)	(hrs)	(hrs)
	Harvard Street and RockCreek						
042	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
	Adams Mill Road South of Irving						
043	Street, NW	0	0.00	0.00	0.00	0.00	0.00
	Kenyon Street and Adams Mill Road,						
044	NW	0	0.00	0.00	0.00	0.00	0.00
	Adams Mill Road and Lamont Street,						
045	NW	0	0.00	0.00	0.00	0.00	0.00
	Park Road south of Piney Branch						
046	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
	Ingleside Terrace extended and Piney						
047	Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
	Mt. Pleasant Street extended and						
048	Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
049	Piney Branch and LamontStreet, NW	0	0.00	0.00	0.00	0.00	0.00
050	28th Street west of 16th Street, NW	0	0.00	0.00	0.00	0.00	0.00
	Olive Street extended and Rock Creek						
051	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
	O Street extended and Rock Creek						
052	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
	O Street west of Rock Creek Parkway,						
053	NW	0	0.00	0.00	0.00	0.00	0.00
	West Side of Rock Creek300 ft. south						
054	of Mass. Ave, NW	0	0.00	0.00	0.00	0.00	0.00
	Normanstone Drive extended west of						
056	Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
	28th Street extended west of Rock						
057	Creek, NW	0	0.0000	0.00	0.00	0.00	0.00
	Connecticut Avenue and Rock Creek						
058	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
060	P St and 26 th St, NW	0	0.0000	0.00	0.00	0.00	0.00
	SUBTOTAL		0.00				·
	TOTAL		3.98				

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